## Ghana




# Ghana <br> Demographic and Health Survey 2022 

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## FOREWORD

Demographic and Health Surveys are population-based surveys that are essential to monitor progress in service utilisation and management of health-related issues to inform decision making. The 2022 Ghana Demographic and Health Survey (2022 GDHS) is the seventh in the series of DHS surveys conducted by the Ghana Statistical Service (GSS) in collaboration with the Ministry of Health/Ghana Health Service (MoH/GHS) and other stakeholders, with funding from the United States Agency for International Development (USAID) and other partners.

The survey provides national estimates of demographic and health indicators that are comparable to data collected in the six previous DHS surveys and similar surveys in other developing countries. The information gathered will add to the large database of population-based indicators for Ghana.

Data were collected from a nationally representative sample of approximately 18,540 households from all 16 regions in Ghana. The survey interviewed 17,933 households, 15,014 women of reproductive age (age 15 to 49 ), and 7,044 men age 15 to 59 . In addition, 4,935 children age $0-5$ were measured for anthropometry, and children age 6-59 months were tested for malaria using malaria rapid diagnostic tests (RDTs) and microscopy.

The report provides information on fertility, fertility preferences, family planning practices, childhood mortality, maternal and child health, nutrition, knowledge of HIV prevention methods, violence against women, women's empowerment, health insurance, water, sanitation, menstrual hygiene, malaria prevalence, marriage and sexual activity, and other health issues. These data are disaggregated by region, type of locality, and selected demographic characteristics including sex, age, education, and wealth.

These indicators are essential for policy planning, programme planning, and monitoring and evaluation of population and health programmes, including those related to the Health Sector Medium-Term Development Plan 2022-2025, the Sustainable Development Goals (SDGs), and other national and international agendas. The findings from this report will support the design, implementation, monitoring, and evaluation of policies and programmes to improve health care in general as well as reproductive, maternal, and child health in particular.

Findings from the Key Indicators Report (KIR) of the 2022 GDHS were released on 5 June 2023 during the 2023 Annual Health Summit hosted by the Ministry of Health. This was a source of information for programme managers on performance, monitoring, and evaluation of programme interventions.


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## ACRONYMS AND ABBREVIATIONS

| ACT | artemisinin-based combination therapy |
| :---: | :---: |
| AIDS | acquired immunodeficiency syndrome |
| ANC | antenatal care |
| ARI | acute respiratory infection |
| BCG | bacille Calmette-Guérin |
| BMI | body mass index |
| CAPI | computer-assisted personal interviewing |
| CBR | crude birth rate |
| CDC | U.S. Centers for Disease Control and Prevention |
| CHPS | community-based health planning and services |
| COVID | coronavirus disease |
| DEFT | design effect |
| DHS | Demographic and Health Survey |
| DMPA-SC | subcutaneous depot medroxyprogesterone acetate |
| DPT | diphtheria, pertussis, and tetanus |
| EA | enumeration area |
| ERC | Ethical Review Committee |
| FDA | Food and Drugs Authority |
| GAR | gross attendance ratio |
| GDHS | Ghana Demographic and Health Survey |
| GFR | general fertility rate |
| GHPC | Ghana Housing and Population Census |
| GHS | Ghana Health Service |
| GMIS | Ghana Malaria Indicator Survey |
| GPI | gender parity index |
| GPS | Global Positioning System |
| GSS | Ghana Statistical Service |
| НерВ | hepatitis B |
| Hib | Haemophilus influenzae type B |
| HIV | human immunodeficiency virus |
| HPV | human papillomavirus |
| IPTp | intermittent preventive treatment during pregnancy |
| IPV | inactivated poliomyelitis vaccine |
| IRB | Institutional Review Board |
| ITN | insecticide-treated net |
| IUD | intrauterine contraceptive device |
| IYCF | infant and young child feeding |
| JMP | Joint Monitoring Programme for Water Supply, Sanitation and Hygiene |
| KIR | Key Indicators Report |
| KMC | kangaroo mother care |


| LAM | lactational amenorrhoea method |
| :--- | :--- |
| LLIN | long-lasting insecticidal net |
| LPG | liquified petroleum gas |
| MMR | measles, mumps, and rubella |
| MR | measles-rubella |
| MTCT | mother-to-child transmission |
| MUAC | mid-upper-arm circumference |
| NAR | net attendance ratio |
| NGO | nongovernmental organisation |
| NHIA | National Health Insurance Authority |
| NHIS | National Health Insurance Scheme |
| NMEP | National Malaria Elimination Programme |
| OOP | out-of-pocket payment |
| OPV | oral polio vaccine |
| ORS | oral rehydration salts |
| ORT | oral rehydration therapy |
| PCV | pneumococcal conjugate vaccine |
| PHC | Population and Housing Census |
| PMI | U.S. President's Malaria Initiative |
| PNC | postnatal care |
| PSU | primary sampling unit |
| RDT | rapid diagnostic test |
| RHF | recommended homemade fluids |
| RV | rotavirus vaccine |
| SD | standard deviation |
| SDG | Sustainable Development Goal |
| SDM | standard days method |
| SP | sulfadoxine-pyrimethamine |
| STI | sexually transmitted infection |
| TFR | total fertility rate |
| UNFPA | United Nations Population Fund |
| UNICEF | United Nations Children's Fund |
| USAID | United States Agency for International Development |
| WHO | World Health Organization |

# READING AND UNDERSTANDING TABLES FROM THE 2022 GHANA DEMOGRAPHIC AND HEALTH SURVEY (GDHS) 

Tthe 2022 Ghana DHS final report is based on approximately 200 tables of data. For quick reference, they are located at the end of each chapter and can be accessed through links in the pertinent text (electronic version). Additionally, this more reader-friendly version features about 90 figures that clearly highlight trends, subnational patterns, and background characteristics. Large, colourful maps display breakdowns for the regions in Ghana. The text has been simplified to highlight key points in bullets and to clearly identify indicator definitions in boxes.

While the text and figures featured in each chapter highlight some of the most important findings from the tables, not every finding can be discussed or displayed graphically. For this reason, GDHS data users should be comfortable reading and interpreting tables.

The following pages provide an introduction to the organization of GDHS tables and the presentation of background characteristics, along with a brief summary of sampling and understanding denominators. In addition, this section provides some exercises for users as they practice their new skills in interpreting GDHS tables.


# Example 1: Exposure to mass media: Women 

A Question Asked of All Survey Respondents

| Table 3.4.1 Exposure to mass media: Women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Ghana DHS 2022 |  |  |  |  |  |  |
| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |
| Age |  |  |  |  |  |  |
| 15-19 | 5.0 | 61.9 | 34.7 | 1.9 | 29.1 | 2,682 |
| 20-24 | 3.8 | 60.4 | 38.5 | 1.7 | 28.0 | 2,695 |
| 25-29 | 3.8 | 66.8 | 41.1 | 2.3 | 23.8 | 2,340 |
| 30-34 | 3.9 | 65.7 | 44.7 | 2.5 | 24.5 | 2,252 |
| 35-39 | 2.2 | 62.7 | 47.4 | 1.4 | 25.7 | 2,059 |
| 40-44 | 2.8 | 59.0 | 48.9 | 2.1 | 28.4 | 1,675 |
| 45-49 | 2.6 | 48.8 | 46.8 | 1.9 | 34.6 | 1,312 |
| Residence |  |  |  |  |  |  |
| Urban | 5.0 | 73.0 | 45.3 | 2.8 | 19.1 | 8,557 |
| Rural | 1.7 | 46.4 | 38.3 | 0.9 | 38.3 | 6,457 |
| Region |  |  |  |  |  |  |
| Western | 3.5 | 69.3 | 51.2 | 1.7 | 19.3 | 955 |
| Central | 5.3 | 73.5 | 46.0 | 2.1 | 17.7 | 1,703 |
| Greater Accra | 7.6 | 82.8 | 47.6 | 4.7 | 13.4 | 2,327 |
| Volta | 4.1 | 56.8 | 50.3 | 2.8 | 27.0 | 713 |
| Eastern | 3.0 | 71.3 | 47.6 | 1.8 | 17.9 | 1,220 |
| Ashanti | 1.8 | 62.4 | 47.6 | 1.0 | 24.0 | 2,928 |
| Western North | 3.4 | 57.6 | 38.3 | 1.5 | 28.4 | 411 |
| Ahafo | 1.1 | 43.5 | 33.4 | 1.0 | 39.7 | 317 |
| Bono | 1.8 | 61.4 | 40.2 | 0.9 | 27.5 | 567 |
| Bono East | 3.7 | 51.8 | 32.3 | 1.9 | 37.3 | 676 |
| Oti | 2.2 | 53.0 | 44.3 | 1.1 | 30.0 | 403 |
| Northern | 1.8 | 41.0 | 19.1 | 1.0 | 53.8 | 1,149 |
| Savannah | 1.0 | 37.9 | 30.0 | 0.6 | 44.7 | 319 |
| North East | 1.3 | 38.7 | 28.6 | 0.7 | 45.3 | 290 |
| Upper East | 3.5 | 30.8 | 36.2 | 1.7 | 49.4 | 640 |
| Upper West | 1.8 | 29.3 | 29.2 | 1.0 | 53.1 | 398 |
| Education |  |  |  |  |  |  |
| No education | 0.2 | 33.1 | 29.2 | 0.1 | 52.2 | 2,411 |
| Primary | 0.7 | 54.7 | 38.0 | 0.1 | 32.6 | 2,071 |
| Secondary | 3.4 | 67.8 | 45.3 | 1.8 | 21.7 | 8,999 |
| More than secondary | 14.0 | 79.4 | 50.8 | 8.3 | 14.0 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 1.1 | 15.5 | 31.0 | 0.5 | 61.9 | 2,447 |
| Second | 1.8 | 46.7 | 36.7 | 0.5 | 38.1 | 2,712 |
| Middle | 1.4 | 67.4 | 40.3 | 0.7 | 22.8 | 3,121 |
| Fourth | 4.1 | 78.7 | 47.7 | 2.5 | 14.9 | 3,379 |
| Highest | 8.5 | 84.6 | 51.4 | 4.9 | 10.2 | 3,355 |
| Total | 3.6 | 61.6 | 42.3 | 2.0 | 27.3 | 15,014 |

Step 1: Read the title and subtitle, highlighted in orange in the table above. They tell you the topic and the specific population group being described. In this case, the table is about women age 15-49 and their exposure to different types of media. All eligible female respondents age 15-49 were asked these questions.

Step 2: Scan the column headings-highlighted in green in Example 1. They describe how the information is categorized. In this table, the first three columns of data show different types of media that women access at least once a week. The fourth column shows women who access all three types of media, while the fifth column shows women who do not access any of the three types of media on a weekly basis. The last column lists the number of women age 15-49 interviewed in the survey.

Step 3: Scan the row headings-the first vertical column highlighted in blue in Example 1. These show the different ways the data are divided into categories based on population characteristics. In this case, the table presents women's exposure to media by age, urban-rural residence, region, level of education, and wealth quintile. Most of the tables in the GDHS report will be divided into these same categories.

Step 4：Look at the row at the bottom of the table highlighted in pink．These percentages represent the totals of all women age 15－49 and their weekly access to different types of media．In this case， $3.6 \%$ of women age 15－49 read a newspaper at least once a week， $61.6 \%$ watch television at least weekly，and $42.3 \%$ listen to the radio on a weekly basis．＊

Step 5：To find out what percentage of women in rural areas listen to the radio at least once a week，draw two imaginary lines，as shown on the table．This shows that $38.3 \%$ of women age 15－49 in rural areas listen to the radio at least once a week．

By looking at patterns by background characteristics，we can see how exposure to mass media varies across Ghana．Mass media are often used to communicate health messages．Knowing how mass media exposure varies among different groups can help programme planners and policymakers determine how to most effectively reach their target populations．
＊For the purpose of this document data are presented exactly as they appear in the table，including decimal places．However，the text in the remainder of this report rounds data to the nearest whole percentage point．

Practice：Use the table in Example 1 to answer the following questions：
a）What percentage of women in Ghana do not access any of the three media at least once a week？
b）Which age group of women is most likely to watch television at least once a week？
c）Compare women by urban－rural residence－which group is more likely to read a newspaper at least once a week？
d）What are the lowest and the highest percentages（range）of women who access none of the three media at least once a week by region？
e）Is there a clear pattern in weekly exposure to newspapers by educational level？
f）Is there a clear pattern in weekly exposure to television by wealth quintile？
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Example 2: Children with symptoms of ARI and care seeking for symptoms of ARI
A Question Asked of a Subgroup of Survey Respondents
Table 10.6 Children with symptoms of ARI and care seeking for symptoms of ARI
Among children under age 5, percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey, and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among children under age 5: |  | Among children under age 5 with symptoms of ARI: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 <br> Percentage with symptoms of ARI ${ }^{1}$ | Number of children | Percentage for whom advice or treatment was sought ${ }^{2}$ | Percentage for whom advice or treatment was sought the same or next day ${ }^{2}$ | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 1.4 | 850 | * | * | 12 |
| 6-11 | 1.6 | 868 | * | * | 14 |
| 12-23 | 2.8 | 1,823 | 61.6 | 28.2 | 50 |
| 24-35 | 2.6 | 1,546 | 64.4 | 20.1 | 40 |
| 36-47 | 1.9 | 1,632 | (46.0) | (25.4) | 31 |
| 48-59 | 2.1 | 1,596 | (37.9) | (10.7) | 34 |
| Sex |  |  |  |  |  |
| Male | 2.4 | 4,240 | 58.2 | 20.3 | 100 |
| Female | 2.0 | 4,075 | 48.9 | 22.8 | 81 |
| Mother's smoking status |  |  |  |  |  |
| Smokes cigarettes/tobacco | 1.5 | 78 | * | * | 1 |
| Does not smoke | 2.2 | 8,237 | 53.8 | 21.5 | 180 |
| Cooking fuels and technologies |  |  |  |  |  |
| Clean fuel and technology ${ }^{3}$ | 1.4 | 1,774 | * | * | 25 |
| Solid fuel ${ }^{4}$ | 2.4 | 6,522 | 57.5 | 23.0 | 156 |
| No food cooked in household | * | 18 | * | * | 0 |
| Residence |  |  |  |  |  |
| Urban | 1.5 | 4,048 | 44.6 | 19.5 | 62 |
| Rural | 2.8 | 4,267 | 59.0 | 22.4 | 119 |
| Region |  |  |  |  |  |
| Western | 1.9 | 515 | * | * | 10 |
| Central | 3.1 | 841 | * | * | 26 |
| Greater Accra | 0.9 | 1,057 | * | * | 9 |
| Volta | 4.5 | 313 | * | * | 14 |
| Eastern | 1.0 | 611 | * | * | 6 |
| Ashanti | 1.4 | 1,495 | * | * | 21 |
| Western North | 2.0 | 222 | * | * | 5 |
| Ahafo | 3.4 | 186 | * | * | 6 |
| Bono | 1.0 | - 277 | * | * | 3 |
| Bono East | 2.7 | 437 | * | * | 12 |
| Oti | 1.7 | 276 |  | * | 5 |
| Northern | 4.1 | 923 | (70.8) | (22.4) | 38 |
| Savannah | 2.4 | 247 |  | * | 6 |
| North East | 5.3 | 267 | (54.7) | (15.9) | 14 |
| Upper East | 1.3 | 406 | * | * | 5 |
| Upper West | 0.7 | 242 |  | * | 2 |
| Mother's education |  |  |  |  |  |
| No education | 3.6 | 1,922 | 60.2 | 22.5 | 69 |
| Primary | 2.6 | 1,250 | (56.5) | (30.3) | 33 |
| Secondary | 1.7 | 4,348 | 44.6 | 16.0 | 74 |
| More than secondary | 0.7 | 794 | ${ }^{*}$ | * | 5 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 3.1 | 1,966 | 60.8 | 20.1 | 62 |
| Second | 3.0 | 1,690 | 66.8 | 30.7 | 50 |
| Middle | 1.2 | 1,614 | * | * | 19 |
| Fourth | 2.1 | 1,584 | (38.7) | (15.9) | 33 |
| Highest | 1.2 | 1,460 | * | * | 17 |
| Total | $32.2$ | 8,315 | 54.1 | 21.4 | 181 |

[^0]Step 1: Read the title and subtitle. In this case, the table is about two separate groups of children: all children under age 5 (a) and children under age 5 with symptoms of acute respiratory infection (ARI) in the 2 weeks before the survey (b).

Step 2: Identify the two panels. First, identify the columns that refer to all children under age 5 (a), and then isolate the columns that refer only to children under age 5 with symptoms of ARI in the 2 weeks before the survey (b).

Step 3: Look at the first panel. What percentage of children under age 5 had symptoms of ARI in the 2 weeks before the survey? It is $2.2 \%$. Now look at the second panel. How many children under age 5 had symptoms of ARI in the 2 weeks before the survey? It's 181 , or $2.2 \%$ of the 8,315 children under age 5 (with rounding). The second panel is a subset of the first panel.

Step 4: Only $2.2 \%$ of children under age 5 had symptoms of ARI in the 2 weeks before the survey. Once these children are further divided into the background characteristic categories, there may be too few cases for the percentages to be reliable.

- What percentage of children under age 5 with symptoms of ARI in the 2 weeks before the survey from Northern were taken for advice or treatment? 70.8\%. This percentage is in parentheses because there are between 25 and 49 children (unweighted) in this category. Readers should use this number with caution-it may not be reliable. (For more information on weighted and unweighted numbers, see Example 3.)
- What percentage of children under age 5 with symptoms of ARI in the 2 weeks before the survey whose mothers have a secondary education or higher were taken for advice or treatment? There is no number in this cell-only an asterisk. This is because there are fewer than 25 unweighted cases. Results for this group are not reported. The subgroup is too small, and therefore the data are not reliable.

Note: When parentheses or asterisks are used in a table, the explanation will be noted under the table. If there are no parentheses or asterisks in a table, you can proceed with confidence that enough cases were included in all categories that the data are reliable.

## Example 3: Understanding Sampling Weights in GDHS Tables

A sample is a group of people who have been selected for a survey. In the GDHS, the sample is designed to represent the national population age 15-49. In addition to national data, most countries want to collect and report data on smaller geographical or administrative areas. However, doing so requires a large enough sample size in each area. For the 2022 GDHS, the survey sample is representative at the national and regional levels and for urban and rural areas.

To generate statistics that are representative of the country as a whole and the 16 regions, the number of women surveyed in each region should contribute to the size of the total (national) sample in proportion to size of the region. However, if some regions have small populations, then a sample allocated in proportion to each region's population may not include sufficient

| Table 3.1 Background characteristics of respondents |  |  |  |
| :---: | :---: | :---: | :---: |
| Percent distribution of women age 15-49 by selected background characteristics, Ghana DHS 2022 |  |  |  |
|  | Women |  |  |
| Background characteristic | $3 \begin{gathered}\text { Weighted } \\ \text { percent }\end{gathered}$ | $2 \begin{gathered}\text { Weighted } \\ \text { number }\end{gathered}$ | $\begin{aligned} & \text { Unweighted } \\ & \text { number } \end{aligned}$ |
| Region |  |  |  |
| Western | 6.4 | 955 | 797 |
| Central | 11.3 | 1,703 | 979 |
| Greater Accra | 15.5 | 2,327 | 969 |
| Volta | 4.7 | 713 | 837 |
| Eastern | 8.1 | 1,220 | 854 |
| Ashanti | 19.5 | 2,928 | 1,131 |
| Western North | 2.7 | 411 | 792 |
| Ahafo | 2.1 | 317 | 849 |
| Bono | 3.8 | 567 | 835 |
| Bono East | 4.5 | 676 | 974 |
| Oti | 2.7 | 403 | 921 |
| Northern | 7.7 | 1,149 | 1,169 |
| Savannah | 2.1 | 319 | 999 |
| North East | 1.9 | 290 | 963 |
| Upper East | 4.3 | 640 | 987 |
| Upper West | 2.7 | 398 | 958 |
| Total 15-49 | 100.0 | 15,014 | 15,014 | women from each region for analysis. To solve this problem, regions with small populations are oversampled. For example, let's say that you have enough money to interview 15,014 women and want to produce results that are representative of Ghana as a whole and its regions (as in Table 3.1). However, the total population of Ghana is not evenly distributed among the regions: some regions, such as Ashanti, are heavily populated while others, such as North East, are not. Thus, North East must be oversampled.

A sampling statistician determines how many women should be interviewed in each region in order to get reliable statistics. The blue column (1) in the table above shows the actual number of women interviewed in each region. Within the regions, the number of women interviewed ranges from 792 in Western North to 1,169 in Northern. The number of interviews is sufficient to get reliable results in each region.

With this distribution of interviews, some regions are overrepresented and some regions are underrepresented. For example, the population in Ashanti is $19.5 \%$ of the population in Ghana, while North East's population contributes only $1.9 \%$ of the country's population. But as the blue column shows, the number of women interviewed in Ashanti accounts for only about $7.5 \%$ of the total sample of women interviewed $(1,131 / 15,014)$ and the number of women interviewed in North East accounts for $6.4 \%$ of the total sample of women interviewed $(963 / 15,014)$. This unweighted distribution of women does not accurately represent the population.

In order to get statistics that are representative of Ghana, the distribution of the women in the sample needs to be weighted (or mathematically adjusted) such that it resembles the true distribution in the country. Women from a small region, like North East, should contribute only a small amount to the national total. Women from a large region, like Ashanti, should contribute much more. Therefore, DHS statisticians mathematically calculate a "weight" that is used to adjust the number of women from each region so that each region's contribution to the total is proportional to the actual population of the region. The numbers in the purple column (2) represent the "weighted" values. The weighted values can be smaller or larger than the unweighted values at the regional level. The total national sample size of 15,014 women has not changed after weighting, but the distribution of the women in the regions has been changed to represent their contribution to the total population size.

How do statisticians weight each category? They take into account the probability that a woman was selected in the sample. If you were to compare the green column (3) to the actual population distribution of Ghana, you would see that women in each region are contributing to the total sample with the same
weight that they contribute to the population of the country. The weighted number of women in the survey now accurately represents the proportion of women who live in Ashanti and the proportion of women who live in North East.

With sampling and weighting, it is possible to interview enough women to provide reliable statistics at national and regional levels. In general, only the weighted numbers are shown in each of the GDHS tables, so don't be surprised if these numbers seem low: they may actually represent a larger number of women interviewed.

## SUSTAINABLE DEVELOPMENT GOAL INDICATORS

Sustainable Development Goal Indicators, Ghana DHS 2022

|  | Residence |  |
| :--- | :--- | :--- |
|  | RHS table |  |
| Indicator | Urban | Rural |

## 1. No poverty

1.4.1 Proportion of population living in households with access to basic services
a) Access to basic drinking water service
b) Access to basic sanitation services
c) Access to basic hygiene services
d) Access to electricity ${ }^{1}$
e) Access to clean fuels and technologies ${ }^{2}$

## 2. Zero hunger

2.2.1 Prevalence of stunting among children under 5 years of age
2.2.2 Prevalence of malnutrition among children under 5 years of age
a) Prevalence of wasting among children under 5 years of age
b) Prevalence of overweight among children under 5 years of age

| 94.9 | 71.6 | 83.8 | 16.2 |
| :---: | :---: | :---: | :---: |
| 33.5 | 14.2 | 24.3 | 16.7 |
| 52.8 | 33.3 | 43.5 | 16.11 |
| 94.6 | 68.1 | 82.0 | 2.3 |
| 37.8 | 7.9 | 23.6 | 2.4 |
| Sex |  |  |  |
| Male | Female | Total |  |
| 19.4 | 15.3 | 17.4 | 11.1 |
| 8.7 | 7.1 | 7.9 | 11.1 |
| 6.7 | 5.2 | 6.0 | 11.1 |
| 2.0 | 1.9 | 2.0 | 11.1 |
| na | 40.4 | na | 11.17.1 |
| na | 51.4 | na | 11.17.1 |
| na | na | 87.6 | 9.9 |
| 43.0 | 36.0 | 40.0 | 8.1 and 8.2 |
| 20.0 | 14.0 | 17.0 | 8.1 and 8.2 |
| na | 49.5 | na | 7.15 .2 |
| na | na | na |  |
| na | 2.0 | na | 5.1 |
| na | 63.0 | na | 5.1 |
| 5.3 | 1.0 | $3.2{ }^{\text {a }}$ | 3.12 |
| 89.8 | 88.2 | 89.0 | 10.4 |
| 74.6 | 70.4 | 72.5 | 10.4 |
| 90.0 | 86.4 | 88.2 | 10.4 |
| 89.0 | 87.8 | 88.4 | 2.13 |

4. Quality education
4.2.1 Participation rate in organized learning (one year before the official primary
entry age)
89.0

Gender equality
5.2.1 Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months ${ }^{10,11}$
a) Physical violence
b) Sexual violence
c) Psychological violence
5.3.1 Proportion of women aged 20-24 years who were married or in a union before age 15 and before age 18
a) before age 15
b) before age 18
5.6.1 Proportion of women aged 15-49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care ${ }^{12}$
5.b. 1 Proportion of individuals who own a mobile telephone ${ }^{13}$

| na | 9.8 | na | 17.13 |
| ---: | ---: | :---: | :---: |
| na | 6.1 | na | 17.13 |
| na | 25.5 | na | 17.13 |
| na | na | na |  |
| na | 3.3 | na | 4.4 |
| 2.4 | 16.1 | na | 4.4 |
|  |  |  |  |
| na | 51.7 | na | 15.12 |
| 87.5 | 79.6 | $83.6^{\text {a }}$ | 15.6 .1 and |
|  |  |  | 15.6 .2 |



Sustainable Development Goal Indicators-Continued

|  | Sex |  | Total | DHS table number |
| :---: | :---: | :---: | :---: | :---: |
| 7. Partnerships for the goals | Male | Female |  |  |
| 7.1.1 Proportion of individuals using the internet ${ }^{14}$ | 61.6 | 43.3 | 54.5a | $\begin{aligned} & 3.5 .1 \text { and } \\ & 3.5 .2 \end{aligned}$ |

na $=$ not applicable
${ }^{1}$ Persons living in households that report the primary source of lighting is electricity
${ }^{2}$ Persons living in households that report no cooking, no space heating, or no lighting are not excluded from the numerator.
${ }^{3}$ Expressed in term of deaths per 1,000 live births in the 5 years before the survey
${ }^{4}$ Equivalent to the age-specific fertility rate for girls age $10-14$ for the 3 -year period preceding the survey, expressed in terms of births per 1,000
girls age 10-14
${ }^{5}$ Equivalent to the age-specific fertility rate for women age $15-19$ for the 3 -year period preceding the survey, expressed in terms of births per
1,000 women age 15-19
${ }^{6}$ Data are not age-standardized and are available for women and men age 15-49 only.
${ }^{7}$ The percentage of children age 12-23 months who received three doses of DPT-HepB-Hib vaccine
${ }^{8}$ The percentage of children age 24-35 months who received two doses of measles-rubella vaccine
${ }^{9}$ The percentage of children age 12-23 months who received three doses of pneumococcal vaccine
${ }^{10}$ Data are available for women age 15-49 who have ever been in union only.
${ }^{11}$ In the DHS, psychological violence is termed emotional violence.
${ }^{12}$ Data are available for currently married women only.
${ }^{13}$ Data are available for women and men age 15-49 only.
${ }^{14}$ Data are available for women and men age 15-49 who have used the internet in the last 12 months.
${ }^{\text {a }}$ The total is calculated as the simple arithmetic mean of the percentages in the columns for males and females.

## GHANA



## INTRODUCTION AND SURVEY METHODOLOGY

TThe 2022 Ghana Demographic and Health Survey (GDHS) was implemented by the Ghana Statistical Service (GSS). Data collection took place from 17 October 2022 to 14 January 2023. ICF provided technical assistance through The Demographic and Health Surveys (DHS) Program, which is funded by the United States Agency for International Development (USAID) and the U.S. President's Malaria Initiative (PMI) and offers financial support and technical assistance for population and health surveys in countries worldwide. Other agencies and organisations that facilitated the successful implementation of the survey through technical or financial support were the Government of Ghana; the United Nations Population Fund (UNFPA); the United Nations Children's Fund (UNICEF); the World Bank; the Global Fund to Fight AIDS, Tuberculosis and Malaria (the Global Fund); the Korean International Cooperation Agency (KOICA); the World Health Organization (WHO); and the Foreign, Commonwealth and Development Office (UK/FCDO).

### 1.1 Survey Objectives

The primary objective of the 2022 GDHS is to provide up-to-date estimates of basic demographic and health indicators. Specifically, the GDHS collected information on:

- Fertility levels and preferences, contraceptive use, antenatal and delivery care, maternal and child health, childhood mortality, childhood immunisation, breastfeeding and young child feeding practices, women's dietary diversity, violence against women, gender, nutritional status of adults and children, awareness regarding HIV/AIDS and other sexually transmitted infections, tobacco use, and other indicators relevant for the Sustainable Development Goals
- Haemoglobin levels of women and children
- Prevalence of malaria parasitaemia (rapid diagnostic testing and thick slides for malaria parasitaemia in the field and microscopy in the lab) among children age 6-59 months
- Use of treated mosquito nets
- Use of antimalarial drugs for treatment of fever among children under age 5

The information collected through the 2022 GDHS is intended to assist policymakers and programme managers in designing and evaluating programmes and strategies for improving the health of the country's population.

### 1.2 Sample Design

To achieve the objectives of the 2022 GDHS, a stratified representative sample of 18,450 households was selected in 618 clusters, which resulted in 15,014 interviewed women age 15-49 and 7,044 interviewed men age 15-59 (in one of every two households selected).

The sampling frame used for the 2022 GDHS is the updated frame prepared by the GSS based on the 2021 Population and Housing Census. ${ }^{1}$ The sampling procedure used in the 2022 GDHS was stratified two-stage cluster sampling, designed to yield representative results at the national level, for urban and rural areas, and for each of the country's 16 regions for most DHS indicators. In the first stage, 618 target clusters were selected from the sampling frame using a probability proportional to size strategy for urban and rural

[^1]areas in each region. Then the number of targeted clusters were selected with equal probability systematic random sampling of the clusters selected in the first phase for urban and rural areas. In the second stage, after selection of the clusters, a household listing and map updating operation was carried out in all of the selected clusters to develop a list of households for each cluster. This list served as a sampling frame for selection of the household sample. The GSS organised a 5-day training course on listing procedures for listers and mappers with support from ICF. The listers and mappers were organised into 25 teams consisting of one lister and one mapper per team. The teams spent 2 months completing the listing operation. In addition to listing the households, the listers collected the geographical coordinates of each household using GPS dongles provided by ICF and in accordance with the instructions in the DHS listing manual. The household listing was carried out using tablet computers, with software provided by The DHS Program. A fixed number of 30 households in each cluster were randomly selected from the list for interviews.

Prior to training, the listing manual, adequate copies of all maps, listing forms, tablet computers, and GPS dongles were made available for use by the field staff. Each team worked in an average of 24-25 clusters.

The GSS provided all of the logistical arrangements for the listing staff, including planning for deployment to the various regions, distributing field supplies, and arranging for the distribution of allowances and salaries during training and fieldwork. To ensure a smooth field operation and an accurate and complete listing, four GSS personnel (three master trainers and a project coordinator) and 16 regional statisticians visited the team regularly to monitor data quality. The survey director and two deputies visited some of the teams. Data processing supervisors assigned to support the household listing on the tablets served as team backstops. When the field teams needed support from the local government, they contacted the regional officers.

Upon completion of the listing operation, the GSS verified that the results were complete and accurate and entered households into the household selection spreadsheet provided by the ICF sampling specialist for automatic selection of households for the main fieldwork. The spreadsheet, together with census maps, the listing database, and maps from field staff, facilitated the identification of households to be interviewed.

### 1.3 Questionnaires

Four questionnaires were used in the 2022 GDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, and the Biomarker Questionnaire. The questionnaires, based on The DHS Program's model questionnaires, were adapted to reflect the population and health issues relevant to Ghana. In addition, a self-administered Fieldworker Questionnaire collected information about the survey's fieldworkers.

The GSS organised a questionnaire design workshop with support from ICF and obtained input from government and development partners expected to use the resulting data. The DHS Program optional modules on domestic violence, malaria, and social and behaviour change communication were incorporated into the Woman's Questionnaire. ICF provided technical assistance in adapting the modules to the questionnaires.

### 1.3.1 Household Questionnaire

The Household Questionnaire was used to collect indicators for the household and to list all members of the household. The respondent for this questionnaire was (1) the head of the household or (2) any adult living in the household. The questionnaire collected basic information on each household member (sex, age, marital status, education, orphanhood), information on household characteristics (source of drinking water, type of toilet facility, number of rooms for sleeping, type of cooking stove, household possessions, availability of electricity, means of transportation), and information on ownership and use of mosquito nets. Salt used for cooking by the household was tested for the presence of iodine.

### 1.3.2 Woman's Questionnaire

The Woman's Questionnaire was used to collect information on adult women (for example, contraceptive use, antenatal care, and pregnancy history ${ }^{2}$ ) and on children (for example, child health, vaccination coverage, breastfeeding, and infant and young child feeding practices). All women age 15-49 identified as household residents or as visitors who stayed in the household the night before the survey were interviewed. Because of the sensitivity of some questions, only female interviewers administered the Woman's Questionnaire. Women were asked questions on the following topics:

- Background characteristics (including age, education, and access to media)
- Reproduction (including pregnancy history and number of children)
- Family planning (including knowledge and use of contraception and sources of contraceptive methods)
- Maternal and newborn health care, child immunisation, and child health and nutrition
- Marriage and sexual activity
- Fertility preferences
- Husbands' background characteristics and women's work
- HIV/AIDS and other sexually transmitted infections
- Other health issues (including alcohol consumption and smoking)
- Domestic violence


### 1.3.3 Man's Questionnaire

The Man's Questionnaire collected much of the same information as the Woman's Questionnaire but was shorter because it did not contain a detailed reproductive history or questions on maternal and child health.

### 1.3.4 Biomarker Questionnaire

The Biomarker Questionnaire was used to record anthropometric measurements and the results of anaemia and malaria testing. In $50 \%$ of households, all children under age 5 , all eligible women age $15-49$, and all eligible men age $15-59$ were weighed and measured to assess their nutritional status. A blood test was performed with eligible children age 6-59 months and eligible women age 15-49 to estimate the prevalence of anaemia. Children age 6-59 months were eligible for malaria testing with rapid diagnostic tests (RDTs) and slide preparation for laboratory microscopy. Informed consent and test outcomes were recorded in the questionnaire.

### 1.3.5 Fieldworker Questionnaire

The Fieldworker Questionnaire was used to collect background information on the persons collecting data in the field, including team supervisors, interviewers, and biomarker technicians.

### 1.3.6 Finalisation of the Questionnaires

ICF's data processing specialist checked all questionnaires for internal coherence. The English versions of the questionnaires were translated into four local languages: Twi, Ga, Dagbeni, and Ewe. Back translations into English were done by people other than the initial translators to verify the accuracy of the translations.

[^2]All problems arising in the translations were resolved before the scheduled training of trainers and the pretest.

After finalisation of the questionnaires, ICF staff in collaboration with GSS staff developed the interviewer and supervisor/editor manuals and fieldwork control forms to be used to track the progress of the survey. The manuals provided instructions to the interviewers and supervisors/editors on how to do their jobs, explained the purpose behind various questions and sections of the questionnaires, and assisted the trainers in conducting the pretest and main survey training.

The GSS submitted the survey protocol to the Ethical Review Committee (ERC) of the Ghana Health Service to ensure that the survey procedures were in accordance with Ghana's ethical research standards. The ERC granted ethical clearance for the survey.

ICF submitted the GDHS survey protocol to the ICF Institutional Review Board (IRB) to obtain ethical clearance and ensure that the survey procedures were in accordance with U.S. and international ethical research standards. The IRB provided ethical clearance for the survey.

Tablet computers were used for data collection by the fieldworkers. The tablet computers were equipped with Bluetooth ${ }^{\circledR}$ technology to enable remote electronic transfer of files, such as assignments from the team supervisor to the interviewers, individual questionnaires to survey team members, and completed questionnaires from interviewers to team supervisors. The computer-assisted personal interviewing (CAPI) data collection system used in the GDHS was developed by The DHS Program with the mobile version of CSPro. The CSPro software was developed jointly by the U.S. Census Bureau, Serpro S.A., and The DHS Program.

### 1.4 Anthropometry, Anaemia Testing, and Malaria Testing

The 2022 GDHS biomarkers included anthropometric measurements, anaemia testing, and malaria testing. Biomarker data were collected in half of the households selected for the men's survey.

Anthropometry: Height and weight measurements were carried out for eligible women age 15-49 and children age 0-59 months. Similarly, anaemia testing was carried out for eligible women age 15-49, men age 15-59, and children age 6-59 months. Weight measurements were taken using SECA 874U scales with a digital display. Height was measured using a ShorrBoard® measuring board. Children younger than age 24 months were measured lying down (recumbent length), while older children and adults were measured standing (height).

To assess the precision of measurements, one child per cluster was randomly selected to be measured a second time. The DHS Program defines a difference of less than 1 centimetre between the two height measurements as an acceptable level of precision. Children with a $z$ score of less than -3 or more than 3 for height-for-age, weight-for-height, or weight-for-age were flagged and measured a second time.

The remeasurement of flagged cases was performed to ensure accurate reporting of height. Following remeasurement, parents of children identified as having severe acute malnutrition (a weight-for-height $z$ score of less than -3 ) were provided a referral form and instructed to take the child to a local health facility.

Anaemia: Blood specimens for anaemia testing were collected from women age 15-49 who consented to be tested. Blood specimens were also collected from children age 6-59 months whose parents or guardians had given consent to the testing. Blood samples were drawn from a drop of blood taken from a finger prick (or a heel prick in the case of children age 6-11 months) and collected in a microcuvette. Haemoglobin analysis was carried out on-site using a battery-operated portable HemoCue ${ }^{\circledR}$ 201+ device. Results were provided verbally and in writing. Parents or guardians of children with a haemoglobin level below $8 \mathrm{~g} / \mathrm{dl}$
were provided with a referral and instructed to take the child to a health facility for follow-up care. Likewise, adults were referred for follow-up care if their haemoglobin level was below $8 \mathrm{~g} / \mathrm{dl}$.

Malaria: Children age 6-59 months were tested for malaria using Abbott Bioline, a rapid diagnostic test. Testing was performed using $5 \mu 1$ of blood from the same finger or heel prick used for anaemia testing. Results were available in 15 minutes and given to the child's parent/responsible adult. Children who tested positive for malaria by RDT were referred to a health facility or offered a full course of treatment if they fulfilled the following conditions: they were not severely anaemic, they had no other symptom of severe malaria, they had not been on any treatment for malaria in the last 2 weeks, and their parent/responsible adult accepted the medication. All treatment was administered according to Ghana's national malaria treatment guidelines. A blood sample was also collected on a microscope slide and used to prepare thick blood smears in the field. All of the blood smears were sent to the National Public Health and Reference Laboratory (NPHRL) in Accra. Using the Malaria Data Entry and Testing System (MADETS), 10\% of the smears were randomly selected and sent to the Noguchi Memorial Institute for Medical Research (NMIMR) for external quality control.

### 1.5 Training of Trainers and Pretest

Twenty-seven individuals ( 17 supervisors/interviewers and 10 biomarker technicians) took part in the pretest training for the 2022 GDHS over a 4-week period from 27 June to 21 July 2022. The first 2 weeks featured classroom training focused on questionnaire content. Participants initially practised using paper questionnaires, and then they were trained on the CAPI system from 11-19 July 2022. Staff from The DHS Program and consultants co-facilitated the training with GSS personnel. The training consisted of classroom lectures and discussions, mock interviews, and interview practice in English and in local languages.

Tests and quizzes were given throughout the training to monitor progress and identify gaps in understanding. Four guest lecturers gave presentations on mosquito net programmes and malaria treatment, family planning methods, immunisation, and HIV/AIDS. Biomarker technician training was held 4-19 July 2022. Ten participants (six female and four male) and two biomarker coordinators (both male) were trained on the paper Biomarker Questionnaire and on biomarker collection procedures. The training utilised a variety of learning tools such as formal lectures on the technical aspects of biomarker collection, instruction on how to fill out the questionnaires, informal discussions using case scenarios, videos to demonstrate the process of biomarker collection, demonstrations using adults, and hands-on practice with children and adults. In addition to the training, the biomarker technicians participated in anthropometry standardisation exercises on 13 July (with adults) and 14 July (with children).

On 16 July 2022, children and mothers came to the venue and biomarker technicians practised the entire biomarker collection procedure from start to finish. After the practice there was group discussion, and feedback was provided to the technicians. In addition, interviewers and biomarker technicians conducted field practice to solidify the skills learned during the pretest training and to provide a simulated fieldwork experience to test the survey materials. Four teams composed of one supervisor, two female interviewers, one male interviewer, and two biomarker technicians practised data collection in three local communities in both urban and rural areas. Each team was assigned a cluster, returning to that same cluster each day. Teams were expected to complete interviews with 16 households, half of which were selected for the Man's Questionnaire and biomarkers. Feedback was provided to individuals and teams during this exercise and during the daily debriefs.

### 1.6 Training of Field Staff

The 2022 GDHS training was sequential, beginning with questionnaire training followed by CAPI training. Questionnaire training was initiated on 11 September 2022 and completed on 24 September. A total of 168 candidates participated in the main survey training: 42 team supervisors ( 31 male and 11 female), 84
female interviewers, and 42 male interviewers. A larger number of participants than needed was recruited and trained, enabling the GSS to select the best candidates at the end of the training and keep the others as backup fieldworkers. All candidates participated in the questionnaire training. Twenty-seven GSS trainers/coordinators and a DHS staff person conducted the training. The participants were recruited from regions across the country and were required to speak at least one of the five languages used in the 2022 GDHS interviews.

The training was conducted in English and focused on the four main questionnaires (Household Questionnaire, Woman's Questionnaire, Man's Questionnaire, and Biomarker Questionnaire). The training included practice in local languages other than English along with discussions of the different sections and modules of the questionnaires, mock interviews, role plays, group work, presentations, and in-class practice sessions.

The training also included training on selection of different subsamples and on the eligibility criteria for different survey components and modules. A design diagram and several examples were used to demonstrate how households are selected and how eligible respondents are identified.

In addition, examples were provided on how to record correct information during data collection. Mock interviews were organised at the end of the training. Each trainee completed three Household Questionnaires and three individual questionnaires. Data collected during the practice exercises were used in later training sessions to test the CAPI programmes and to practise collecting data on the tablets. Guest lecturers from the Ghana Health Service (GHS), the Ghana AIDS Commission, the National Malaria Control Programme and U.S. President's Malaria Initiative (PMI) visited the training sessions and conducted presentations.

### 1.6.1 Computer-assisted Personal Interviewing (CAPI) Training

From 20 to 24 September 2022, DHS staff conducted a training of trainers for 12 GSS and GHS coordinator/trainers (eight male and four female). Nine of the trainers had attended the pretest training in July 2022. The training was aimed at providing trainers with the competencies necessary to assist the DHS staff in the main CAPI training and equipping them with the skills to monitor and resolve issues during the main fieldwork. Topics included understanding the sampling design and subsamples, the 2022 GDHS directory structure, the key application files, an overview of interviewers' and supervisors' menus and applications, and the utilities required for data preparation and transfers. For practice purposes, the 12 trainers were grouped in two field teams (four persons per team). Each team practised in a cluster of six households. At the end of the training, trainers were divided into three groups, with each group responsible for training one of the three classrooms. DHS and GSS staff prepared a schedule for the three groups of trainers.

DHS staff and the GSS trainers conducted the CAPI training from 26 September to 7 October. A total of 168 participants were organised into 42 teams of four (one supervisor, two female interviewers, and one male interviewer) divided into three classrooms. Training focused on a series of presentations on the CAPI system, tablet basics, interviewer menus, supervisor menus, household assignments, data transfers, the Biomarker Questionnaire, selection of children for remeasurement, and troubleshooting error and warning messages. During in-classroom practice sessions, hypothetical clusters were created. Each cluster had six households and was assigned to a team. Under the supervision of DHS staff, the trainers led these sessions and made several presentations on topics such as data collection system features, different scenarios and potential technical issues that might encountered during fieldwork, and ways of resolving these issues. By the end of the training, all teams were able to successfully close many of their clusters, and supervisors had learned how to use an internet connection to access SyncCloud for the purposes of sending data to the central office and receiving updates to the CAPI system.

### 1.6.2 Anthropometry Training

The 2022 GDHS included the following biomarkers: anthropometry, anaemia testing, malaria rapid diagnostic testing, and thick smear preparation for malaria microscopy. During the pretest, 10 biomarker technicians were recruited to be trainers for this component. In this main training, 77 biomarker trainees ( 40 male and 37 female) joined the biomarker training. Biomarker training was led by a DHS staff person and supported by two consultants. The 10 biomarker technicians who successfully participated in the pretest were the biomarker trainers in breakout sessions during classroom practice and during the 3-day field practice when they monitored biomarker collection. The training started on 19 September 2022 and ended on 14 October with the conclusion of field practice, debriefing, and distribution of biomarker supplies to the various teams.

Following a general introduction to the survey, participants were given an overview of the biomarkers to be collected in the 2022 GDHS. This was followed by an exhaustive 2 days of training on the Biomarker Questionnaire and related documents, including the informational pamphlet, severe anaemia and malaria referral forms, and wasting referral form.

The training on the Biomarker Questionnaire and the collection of blood to test for malaria and anaemia and prepare thick blood smears included:

- Lectures on the technical components
- Videos illustrating the protocol and hands-on practice sessions focusing on respondent eligibility criteria and obtaining informed consent from parents or responsible adults to conduct anaemia and malaria testing with eligible children
- Procedures for recording data in the Biomarker Questionnaire and reporting forms
- Proper blood collection procedures
- Details on anaemia and malaria testing, including appropriate reporting of test results
- Procedures for filling out field forms

In each session ICF staff and other trainers used the integrated training approach, which included presentations and discussions of technical content from the biomarker manual and hands-on practical demonstrations followed by hands-on practice by participants. Over 200 children were brought to the training venue by their parents or guardians during class training. The in-class training included practice on testing children who were brought to the training venue. In addition to in-class training, participants visited communities and clinics where they practised the biomarker test protocol with eligible children whose parents or guardians consented to anaemia and malaria testing.

Training on anthropometry included measurement of the weight and height of children using SECA 874U scales with a digital display and ShorrBoard $\mathbb{B}$ measuring boards. Biomarker technicians received anthropometry training during 6 days of classroom practice, 2 days of community and clinic visits, and 3 days of field practice. Before starting field practice, eight anthropometry standardisation exercises and one restandardisation exercise were conducted. All 77 biomarker technicians were standardised as measurers. For each standardisation exercise, 10 stations were laid out. The stations were assigned numbers from one to 10 , and children's numbers corresponded to the number of the station to which they were assigned. Depending on their age, children were measured standing or lying down. The height/length of each child was measured by DHS staff twice. Thereafter, each pair (measurer and assistant) measured every child once and recorded the measured values in the standardisation form designed for that purpose. This first round of measurements was collected by the DHS trainers, after which a second form was given and the
measurements were repeated for every child. Results of the first and second rounds of measurements by both the trainers and trainees were entered into an Excel sheet and evaluated for accuracy and precision.

Accuracy was evaluated by comparing the average value of each trainee's measurement with that of the DHS staff. Precision was determined by comparing the difference between each participant's first and second measurements of the same child. A technical error of measurement was used to determine whether a trainee passed the standardisation exercise. All 77 technicians who took part in the standardisation exercise passed during their first or second attempt.

On 13 October 2022, in a joint session of interviewers and biomarker technicians, there was a discussion of the measures The DHS Program has taken to improve data quality, including remeasurement procedures in anthropometry and use of checklists to monitor data collection for anthropometry, anaemia, and malaria testing.

### 1.6.3 Fieldwork Practice

Fieldwork practice was implemented from 12-14 October 2022 after the classroom training and on-site practice. The fieldwork exercise allowed the participants to practise the functionality of the CAPI system and the biomarkers. Each team was assigned a cluster of 20 households. These clusters were selected from actual 2021 Ghana Housing and Population Census (GHPC) enumeration areas (EAs). Fieldwork practice is helpful as it allows teams to proceed through the entire process, from household assignment to closing a cluster successfully and working through the most common error messages that can prevent closing a cluster. Together, these are the most important aspects of fieldwork practice, and they were accomplished by all of the teams. Data from the 42 clusters were sent to the central office via SyncCloud.

### 1.7 FIELDWORK

The main fieldwork for the 2022 GDHS took place between 17 October 2022 and 14 January 2023. There were 37 teams, each including a team supervisor, two female interviewers, one male interviewer, and two biomarker technicians. The GSS coordinators created a WhatsApp group for all fieldworkers to post questions and issues that arose during data collection. For quality assurance, field monitoring was conducted throughout the period of data collection. DHS staff participated in fieldwork monitoring in the Accra, Central, Western, and Northern regions during the first 2 weeks. They continued to monitor field data collection via SyncCloud toward the end of fieldwork. Data were transmitted by every team to the central office daily, and field check tables were always available for review by DHS staff in SyncCloud. DHS staff reviewed the field check tables periodically, communicated their observations with the GSS coordinators to evaluate data quality and the performance of each team, and explained how to improve the quality of fieldwork.

### 1.8 Data Processing

### 1.8.1 Central Office Training and Secondary Editing

DHS staff installed all central office programmes, data structure checks, secondary editing, and field check tables from 17-20 October 2022. Central office training was implemented using the practice data to test the central office system and field check tables. Seven GSS staff members (four male and three female) were trained on the functionality of the central office menu, including accepting clusters from the field, data editing procedures, and producing reports to monitor fieldwork.

### 1.8.2 Data Cleaning and Finalisation

From 27 February to 17 March, DHS staff visited the Ghana Statistical Service office in Accra to work with the GSS central office staff on finishing the secondary editing and to clean and finalise all data received from the 618 clusters.

### 1.8.3 Malaria Microscopy

The National Public Health and Reference Laboratory received blood slides from the field and started malaria microscopy reading at the beginning of the third week of fieldwork. Ten percent of the blood slides were randomly selected and subsequently sent to Noguchi Laboratory for the external quality control checks. Microscopy at NPHRL was completed on 6 February 2023, and external quality control procedures at Noguchi Laboratory were completed on 20 February.

### 1.9 Response Rates

Table 1.1 shows the response rates for the 2022 GDHS. A total of 18,540 households were selected for the GDHS sample, of which 18,065 were found to be occupied. Of the occupied households, 17,933 were successfully interviewed, yielding a response rate of $99 \%$. In the interviewed households, 15,317 women age 15-49 were identified as eligible for individual interviews. Interviews were completed with 15,014 women, yielding a response rate of $98 \%$. In the subsample of households selected for the male survey, 7,263 men age $15-59$ were identified as eligible for individual interviews and 7,044 were successfully interviewed.

| Number of households, number of interviews, and response rates, according to residence (unweighted), Ghana DHS 2022 |  |  |  |
| :---: | :---: | :---: | :---: |
| Result | Residence |  | Total |
|  | Urban | Rural |  |
| Household interviews |  |  |  |
| Households selected | 9,120 | 9,420 | 18,540 |
| Households occupied | 8,869 | 9,196 | 18,065 |
| Households interviewed | 8,795 | 9,138 | 17,933 |
| Household response rate ${ }^{1}$ | 99.2 | 99.4 | 99.3 |
| Interviews with women age 15-49 |  |  |  |
| Number of eligible women | 7,502 | 7,815 | 15,317 |
| Number of eligible women interviewed | 7,362 | 7,652 | 15,014 |
| Eligible women response rate ${ }^{2}$ | 98.1 | 97.9 | 98.0 |
| Household interviews in subsample |  |  |  |
| Households selected | 4,560 | 4,709 | 9,269 |
| Households occupied | 4,442 | 4,595 | 9,037 |
| Households interviewed | 4,400 | 4,568 | 8,968 |
| Household response rate in subsample ${ }^{1}$ | 99.1 | 99.4 | 99.2 |
| Interviews with men age 15-59 |  |  |  |
| Number of eligible men | 3,369 | 3,894 | 7,263 |
| Number of eligible men interviewed | 3,251 | 3,793 | 7,044 |
| Eligible men response rate ${ }^{2}$ | 96.5 | 97.4 | 97.0 |

${ }^{1}$ Households interviewed/households occupied
${ }^{2}$ Respondents interviewed/eligible respondents

## Key Findings

- Electricity: 85\% of households have electricity.
- Clean fuels and technologies: 29\% of households use clean fuels and technologies for cooking.
- Household composition: $40 \%$ of the household population is under age 15.
- Birth registration: $75 \%$ of children under age 5 had their births registered.
- Early childhood education: 67\% of children age 5 (1 year younger than the official primary school entry age) attend an early childhood education programme, and $21 \%$ attend primary school.

Information on the socioeconomic characteristics of the household population in the 2022 GDHS provides a context for interpreting demographic and health indicators and furnishes an approximate indication of the representativeness of the survey. The information also sheds light on the living conditions of the population.

This chapter presents information on housing characteristics and household possessions, use of clean fuels and technologies (related to cooking, heating, and lighting), wealth, household population and composition, children's living arrangements and orphanhood, birth registration, educational attainment, and school attendance.

### 2.1 Housing Characteristics

The survey collected data on access to electricity, flooring materials, number of rooms used for sleeping, and frequency of smoking in the home. Overall, $85 \%$ of households in Ghana have electricity. The most common flooring materials are cement ( $61 \%$ of households) and ceramic tiles ( $17 \%$ of households). More than half of households have only one room for sleeping ( $55 \%$ ); $27 \%$ have two rooms and $19 \%$ have three or more rooms. In $6 \%$ of households, someone smokes inside the house on a daily basis, and in $5 \%$ of households someone smokes inside on a weekly basis (Table 2.1).

### 2.1.1 Use of Clean Fuels and Technologies

## Primary reliance on clean fuels and technologies

The percentage of the population using clean fuels and technologies for cooking, heating, and lighting, where each component is defined as follows:

## Clean cooking fuels and technologies

Includes stoves/cookers using electricity, liquefied petroleum gas
(LPG)/natural gas/biogas, solar, and alcohol/ethanol
Clean heating fuels and technologies
Includes central heating, electricity, LPG/natural gas/biogas, solar air heaters, and alcohol/ethanol
Clean lighting fuels and technologies
Includes electricity, solar lanterns, battery-powered or rechargeable flashlights/torches/lanterns, and biogas lamps
Sample: Households and de jure population

### 2.1.2 Cooking

Cooking is one of the major activities of most households. It contributes to energy consumption and, depending on the fuel type and cooking technology used, places the household at risk of exposure to smoke and injury due to accidental fire. In Ghana, $31 \%$ of households cook inside the home, $21 \%$ in a separate building, and $43 \%$ outdoors (in the open). Twenty-nine percent of Ghanaian households use clean fuels and technologies for cooking, primarily LPG/natural gas stoves ( $28 \%$ ). Among households that rely on other fuels and technologies, the most common technologies are three-stone stoves/open fires (35\%) and traditional solid fuel stoves ( $26 \%$ ). The most common traditional solid fuel stoves used are stoves without chimneys (22\%) (Table 2.2).

### 2.1.3 Heating and Lighting

In Ghana, space heating is uncommon among households; only $3 \%$ of households use one or more forms of heating technologies. Charcoal and wood are the most common fuels ( $2 \%$ ) used for space heating
(Table 2.3).
Ninety-nine percent of households use clean fuels and technologies for lighting; electricity is the most common clean fuel/technology used for lighting (84\%).

### 2.1.4 Primary Reliance on Clean Fuels and Technologies

Twenty-three percent of the household population primarily relies on clean fuels and technologies for cooking, while $77 \%$ primarily relies on solid fuels. Use of solid fuels is predominant ( $93 \%$ ) in the rural household population (Table 2.4).

### 2.2 Household Wealth

### 2.2.1 Household Durable Goods

Possession of household durable goods is a useful indicator of household socioeconomic status. Ninetyfour percent of households own a mobile phone, $53 \%$ own a radio, and $66 \%$ own a television. Forty-two percent of households own a refrigerator, with the percentage being more than twice as high in urban households as in rural households ( $56 \%$ versus $22 \%$ ). Bicycles are the most commonly owned means of transport among Ghanaian households ( $20 \%$ ), followed by motorcycles/scooters ( $18 \%$ ). One in 10 households ( $10 \%$ ) own a car or truck. One-third of households own agricultural land, with rural households
more likely to own land (57\%) than urban households (21\%). Thirty-five percent of households possess farm animals ( $55 \%$ in rural areas and $20 \%$ in urban areas) (Table 2.5).

### 2.2.2 Wealth Index

## Wealth index

Households are given scores based on the number and kinds of consumer goods they own, ranging from a television to a bicycle or car, and housing characteristics such as source of drinking water, toilet facilities, and flooring materials. These scores are derived using principal component analysis. National wealth quintiles are compiled by assigning the household score to each usual (de jure) household member, ranking each person in the household population by her or his score, and then dividing the distribution into five equal categories, each comprising $20 \%$ of the population.
Sample: Households

Table 2.6 shows the distribution of the de jure household population by wealth quintile, according to place of residence and region. Eighty-six percent of urban residents are distributed among the top three quintiles, as compared with just $32 \%$ of rural residents (Figure 2.1). At the regional level, $49 \%$ of the population in Greater Accra falls in the highest wealth quintile, as compared with only $1 \%$ of the population in North East, 2\% in Savannah, and 3\% in Oti. More than half of the population in the North East, Upper East, Savannah, and Upper West regions falls in the lowest wealth quintile ( $64 \%, 57 \%, 55 \%$, and $52 \%$, respectively) (Table 2.6).

### 2.3 Household Population and Composition

## Household

A person or group of related or unrelated persons who live together in the same dwelling unit(s), who acknowledge one adult male or female as the head of the household, who share the same housekeeping arrangements, and who are considered a single unit.

## De facto population

All persons who stayed in the selected households the night before the interview (whether usual residents or visitors).

## De jure population

All persons who are usual residents of the selected households, whether or not they stayed in the household the night before the interview.

## How data are calculated

All tables are based on the de facto population unless otherwise specified.

A total of 63,247 individuals stayed overnight in the 17,933 households interviewed in the 2022 GDHS. Forty-eight percent $(29,948)$ of these individuals were male and $52 \%(33,299)$ were female (Table 2.7), yielding a sex ratio of 90 males per 100 females. The population pyramid in Figure 2.2 illustrates the distribution of the de facto population by 5 -year age groups and sex. Children under age 15 account for $40 \%$ of the population, while individuals age 65 and older make up only $6 \%$. Most households in Ghana are maleheaded ( $63 \%$ ). The average household consists of 3.5 usual members; rural households are on average larger than urban households (4.0 and 3.2 persons per household, respectively) (Table 2.8).

### 2.4 Children’s Living Arrangements and Parental Survival

## Orphan

A child with one or both parents who are dead.
Sample: Children under age 18

The definition of orphanhood can vary, but in the 2022 GDHS it refers to the population of children age $0-$ 17 with one or both parents dead. Table 2.9 shows that $51 \%$ of children under age 18 live with both of their biological parents, $16 \%$ do not live with a biological parent, and $8 \%$ are orphans.

### 2.5 Birth Registration

## Registered birth

Child has a birth certificate or child does not have a birth certificate, but the birth is registered with the civil authorities.
Sample: De jure children under age 5

Table 2.10 presents information on the percentage of children under age 5 who have a birth certificate and the percentage who do not have a birth certificate but whose birth has been registered with the civil authorities. Overall, $75 \%$ of children under age 5 had their births registered with the civil authorities ( $61 \%$ with a birth certificate and $13 \%$ without a birth certificate).

### 2.6 Education

### 2.6.1 Educational Attainment

## Median educational attainment

Half of the population has completed less than the median number of years of schooling, and half of the population has completed more than the median number of years of schooling.
Sample: De facto household population age 6 and older

Table 2.11.1 presents information on educational attainment among the female de facto household population age 6 and over. Overall, $24 \%$ of female household members age 6 years and over have no education, $26 \%$ have attended some primary school, $4 \%$ have completed primary school but advanced no further, $33 \%$ have attended some secondary school, $8 \%$ have completed secondary school but advanced no further, and $6 \%$ have attained some education after secondary school. Female household members in the highest wealth quintile ( $21 \%$ ) are much more likely than those in the lowest quintile (less than $1 \%$ ) to have attained more than a secondary education.

Seventeen percent of male household members age 6 and over have no education, $26 \%$ have attended some primary school, $4 \%$ have completed primary school but advanced no further, $33 \%$ have attended some secondary school, $11 \%$ have completed secondary school but advanced no further, and $10 \%$ have attained some education after secondary school (Table 2.11.2). Male household members have completed a median of 6.3 years of schooling, 1.2 years more than female household members ( 5.1 years).

### 2.6.2 Primary and Secondary School Attendance

## Net attendance ratio (NAR)

Percentage of the school-age population that attends primary or secondary school.
Sample: Children age 7-12 for primary school NAR and children age 13-18 for secondary school NAR

## Gross attendance ratio (GAR)

The total number of children attending primary school divided by the official primary school-age population and the total number of children attending secondary school divided by the official secondary school-age population.
Sample: Children age 7-12 for primary school GAR and children age 13-18 for secondary school GAR

School attendance ratios are shown in Table 2.12. The net attendance ratio (NAR) in primary school for both girls and boys is $82 \%$. The NAR drops in secondary school: $55 \%$ of girls and $56 \%$ of boys attend secondary school. The gross attendance ratio (GAR) for primary school is 108 for girls and 109 for boys; the GAR for secondary school is 75 for girls and 71 for boys (Table 2.12).

## Gender parity index (GPI)

The ratio of female to male students attending primary school and the ratio of female to male students attending secondary school. The index reflects the magnitude of the gender gap.
Sample: Primary school students and secondary school students

The gender parity index (GPI) for the NAR at the primary school level is 1.00 , indicating that in primary school there are the same number of female and male students. At the secondary school level, the GPI for
the NAR is 0.98 , indicating that there are slightly more males than females attending secondary school (Table 2.12).

### 2.6.3 Participation Rate in Organised Learning among Children Age 5

## Participation rate in organised learning: adjusted net attendance ratio

 (NAR)The percentage of children 1 year younger than the official primary school entry age (at the beginning of the school year) who are attending an early childhood education programme or primary school. The ratio is termed adjusted since it includes children in primary school.
Sample: Children age 5 at the beginning of the school year

Early childhood education prepares children for primary school and provides for their physical, social, emotional, and intellectual needs in order to build a broad and solid foundation for their well-being. Sixtyseven percent of children age 5 (1 year younger than the official primary school entry age) are enrolled in an early childhood education programme, and $21 \%$ attend primary school (Table 2.13). However, $12 \%$ do not attend either an early childhood education programme or primary education.

## List of Tables

For more information on household population and housing characteristics, see the following tables:

- Table 2.1 Household characteristics
- Table 2.2 Household characteristics: Cooking
- Table 2.3 Household characteristics: Heating and lighting
- Table 2.4 Primary reliance on clean fuels and technologies
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- Table 2.6 Wealth quintiles
- Table $2.7 \quad$ Household population by age, sex, and residence
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- Table 2.10 Birth registration of children under age 5
- Table 2.11.1 Educational attainment of the female household population
- Table 2.11.2 Educational attainment of the male household population
- Table 2.12 School attendance ratios
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## Table 2.1 Household characteristics

Percent distribution of households and de jure population by housing characteristics and percent distribution by frequency of smoking in the home, according to residence, Ghana DHS 2022

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Electricity |  |  |  |  |  |  |
| Yes | 95.0 | 71.6 | 85.1 | 95.2 | 69.3 | 82.9 |
| No | 5.0 | 28.4 | 14.9 | 4.8 | 30.7 | 17.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Flooring material |  |  |  |  |  |  |
| Earth/sand | 4.0 | 12.9 | 7.8 | 4.5 | 13.3 | 8.7 |
| Dung | 0.0 | 0.5 | 0.2 | 0.0 | 0.6 | 0.3 |
| Wood/planks | 0.5 | 0.0 | 0.3 | 0.4 | 0.0 | 0.2 |
| Palm/bamboo | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Parquet or polished wood | 0.3 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| Vinyl or asphalt strips | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 |
| Ceramic tiles | 24.9 | 6.5 | 17.1 | 25.4 | 5.6 | 16.0 |
| Cement | 54.6 | 69.1 | 60.8 | 56.7 | 71.7 | 63.8 |
| Woolen carpet/synthetic carpet | 8.0 | 4.1 | 6.4 | 6.3 | 3.3 | 4.9 |
| Linoleum/rubber carpet | 7.7 | 6.6 | 7.2 | 6.5 | 5.3 | 5.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Rooms used for sleeping |  |  |  |  |  |  |
| One | 57.2 | 50.8 | 54.5 | 42.4 | 34.5 | 38.6 |
| Two | 27.0 | 27.1 | 27.0 | 32.8 | 30.9 | 31.9 |
| Three or more | 15.9 | 22.1 | 18.5 | 24.8 | 34.7 | 29.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Frequency of smoking in the home |  |  |  |  |  |  |
| Daily | 4.8 | 6.6 | 5.6 | 5.0 | 8.3 | 6.6 |
| Weekly | 4.8 | 4.8 | 4.8 | 4.8 | 5.1 | 5.0 |
| Monthly | 1.2 | 1.3 | 1.2 | 1.6 | 1.4 | 1.5 |
| Less than once a month | 0.8 | 1.2 | 1.0 | 0.8 | 1.4 | 1.1 |
| Never | 88.4 | 86.0 | 87.4 | 87.7 | 83.8 | 85.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 10,320 | 7,613 | 17,933 | 33,294 | 30,317 | 63,611 |

Table 2.2 Household characteristics: Cooking
Percent distribution of households and de jure population by place for cooking, cooking technology, and cooking fuel, according to residence, Ghana DHS 2022

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Place for cooking |  |  |  |  |  |  |
| In the house | 39.9 | 19.8 | 31.4 | 39.3 | 19.1 | 29.7 |
| Separate room/kitchen | 30.4 | 13.4 | 23.2 | 31.2 | 13.2 | 22.7 |
| No separate room/kitchen | 9.6 | 6.4 | 8.2 | 8.0 | 5.9 | 7.0 |
| In a separate building | 15.9 | 28.6 | 21.3 | 16.3 | 28.7 | 22.2 |
| Outdoors | 39.7 | 48.5 | 43.4 | 42.9 | 51.1 | 46.8 |
| Other | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| No food cooked in household | 4.4 | 3.1 | 3.8 | 1.5 | 1.0 | 1.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Main cooking technology |  |  |  |  |  |  |
| Clean fuels and technologies | 41.7 | 11.2 | 28.7 | 36.4 | 7.1 | 22.4 |
| Electric stove | 1.2 | 0.6 | 0.9 | 1.0 | 0.4 | 0.8 |
| Solar cooker | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LPG/natural gas stove | 40.3 | 10.5 | 27.7 | 35.2 | 6.6 | 21.5 |
| Piped natural gas stove | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Biogas stove | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| Other fuels and technologies | 53.9 | 85.8 | 67.4 | 62.0 | 91.9 | 76.3 |
| Manufactured solid fuel stove | 8.5 | 4.7 | 6.9 | 9.0 | 4.1 | 6.7 |
| With a chimney | 1.5 | 0.4 | 1.1 | 1.6 | 0.3 | 1.0 |
| Without a chimney | 7.0 | 4.3 | 5.8 | 7.4 | 3.8 | 5.7 |
| Traditional solid fuel stove | 30.7 | 19.6 | 26.0 | 33.2 | 17.5 | 25.7 |
| With a chimney | 5.2 | 2.5 | 4.1 | 6.0 | 1.9 | 4.0 |
| Without a chimney | 25.5 | 17.1 | 21.9 | 27.2 | 15.6 | 21.7 |
| Three-stone stove/open fire | 14.7 | 61.5 | 34.6 | 19.9 | 70.2 | 43.9 |
| No food cooked in household | 4.4 | 3.1 | 3.8 | 1.5 | 1.0 | 1.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cooking fuel |  |  |  |  |  |  |
| Clean fuels and technologies ${ }^{1}$ | 41.7 | 11.2 | 28.7 | 36.4 | 7.1 | 22.4 |
| Solid fuels for cooking | 53.9 | 85.8 | 67.4 | 62.0 | 91.9 | 76.2 |
| Coal/lignite | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| Charcoal | 38.9 | 18.8 | 30.4 | 41.3 | 15.7 | 29.1 |
| Wood | 14.8 | 65.9 | 36.5 | 20.5 | 75.0 | 46.5 |
| Straw/shrubs/grass | 0.1 | 0.8 | 0.4 | 0.1 | 0.9 | 0.5 |
| Agricultural crop | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 |
| Animal dung/waste | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Processed biomass (pellets) or |  |  |  |  |  |  |
| Garbage/plastic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sawdust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other fuels | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline/diesel | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kerosene/paraffin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| No food cooked in household | 4.4 | 3.1 | 3.8 | 1.5 | 1.0 | 1.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 10,320 | 7,613 | 17,933 | 33,294 | 30,317 | 63,611 |

[^3]
## Table 2.3 Household characteristics: Heating and lighting

Percent distribution of households and de jure population by heating technology, heating fuel, and main lighting fuel or technology, according to residence, Ghana DHS 2022

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Heating technology |  |  |  |  |  |  |
| Central heating | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufactured space heater | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Without a chimney | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Traditional space heater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| With a chimney | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Without a chimney | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufactured cookstove | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| With a chimney | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Without a chimney | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Traditional cookstove | 0.6 | 1.8 | 1.1 | 0.9 | 2.3 | 1.6 |
| With a chimney | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 |
| Without a chimney | 0.5 | 1.6 | 0.9 | 0.6 | 2.1 | 1.3 |
| Three-stone stove/open fire | 0.3 | 1.7 | 0.9 | 0.4 | 2.1 | 1.2 |
| No heating in household | 99.0 | 96.4 | 97.9 | 98.5 | 95.5 | 97.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Heating fuel |  |  |  |  |  |  |
| Clean fuels and technologies ${ }^{1}$ | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Central heating | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Electricity | 0.1 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 |
| LPG/cooking gas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alcohol/ethanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Coal/lignite | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Charcoal | 0.7 | 1.7 | 1.1 | 1.0 | 2.3 | 1.6 |
| Wood | 0.2 | 1.7 | 0.8 | 0.2 | 2.0 | 1.1 |
| Straw/shrubs/grass | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 |
| Agricultural crop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Animal dung/waste | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| No heating in household | 99.0 | 96.4 | 97.9 | 98.5 | 95.5 | 97.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Main lighting fuel or technology |  |  |  |  |  |  |
| Clean fuels and technologies | 99.0 | 98.8 | 98.9 | 98.9 | 99.1 | 99.0 |
| Electricity | 94.5 | 70.3 | 84.2 | 94.6 | 68.1 | 82.0 |
| Solar lantern | 0.2 | 8.3 | 3.6 | 0.3 | 10.2 | 5.0 |
| Rechargeable flashlight/torch/lantern | 1.5 | 7.1 | 3.9 | 1.3 | 7.4 | 4.2 |
| Battery-powered |  |  |  |  |  |  |
| Gasoline lamp | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kerosene/paraffin lamp | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Charcoal | 0.2 | 0.1 | 0.2 | 0.3 | 0.0 | 0.2 |
| Wood | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| Straw/shrubs/grass | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Agricultural crop | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| Oil lamp | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| Candle | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Other fuel | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| No lighting in household | 0.3 | 0.5 | 0.4 | 0.2 | 0.3 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 10,320 | 7,613 | 17,933 | 33,294 | 30,317 | 63,611 |

[^4]Table 2.4 Primary reliance on clean fuels and technologies
Percentage of de jure population relying on clean fuels and technologies for cooking, percentage relying on solid fuels for cooking, percentage relying on clean fuels and technologies for space heating, percentage relying on clean fuels and technologies for lighting, and percentage relying on clean fuels and technologies for cooking, space heating, and lighting, according to background characteristics, Ghana DHS 2022

| Background characteristic | Primary reliance on clean fuels and technologies for cooking ${ }^{1}$ | Primary reliance on solid fuels for cooking ${ }^{2}$ | Number of persons in households that reported cooking | Primary reliance on clean fuels and technologies for space heating ${ }^{3}$ | Number of persons in households that reported use of space heating | Primary reliance on clean fuels and technologies for lighting ${ }^{4}$ | Number of persons in households that reported use of lighting | Primary reliance on clean fuels and technologies for cooking, space heating, and lighting ${ }^{5}$ | Number of persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 37.0 | 63.0 | 32,781 | 14.7 | 487 | 99.1 | 33,217 | 37.8 | 33,294 |
| Rural | 7.2 | 92.8 | 30,009 | 1.4 | 1,372 | 99.5 | 30,218 | 7.9 | 30,317 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 29.7 | 70.2 | 3,882 | 0.0 | 23 | 100.0 | 3,940 | 30.9 | 3,944 |
| Central | 21.2 | 78.8 | 6,878 | 3.6 | 61 | 99.8 | 6,954 | 22.1 | 6,957 |
| Greater Accra | 56.8 | 43.2 | 9,090 | 60.7 | 9 | 98.8 | 9,190 | 57.3 | 9,217 |
| Volta | 22.5 | 77.5 | 2,884 | 23.8 | 9 | 99.0 | 2,895 | 23.0 | 2,902 |
| Eastern | 21.9 | 78.0 | 5,182 | 10.1 | 35 | 99.6 | 5,203 | 22.6 | 5,234 |
| Ashanti | 26.5 | 73.5 | 11,613 | 55.8 | 78 | 99.3 | 11,798 | 27.9 | 11,844 |
| Western North | 9.5 | 90.5 | 1,752 | 2.7 | 47 | 99.3 | 1,772 | 10.7 | 1,775 |
| Ahafo | 7.9 | 92.1 | 1,379 | 6.9 | 64 | 99.1 | 1,394 | 9.0 | 1,397 |
| Bono | 13.5 | 86.5 | 2,207 | 0.0 | 60 | 99.8 | 2,259 | 15.5 | 2,262 |
| Bono East | 6.7 | 93.3 | 2,795 | 1.1 | 303 | 99.1 | 2,826 | 7.4 | 2,831 |
| Oti | 4.7 | 95.3 | 1,929 | 13.8 | 71 | 99.4 | 1,936 | 4.7 | 1,937 |
| Northern | 7.9 | 92.1 | 5,452 | 0.1 | 623 | 98.8 | 5,472 | 8.2 | 5,493 |
| Savannah | 1.4 | 98.6 | 1,567 | 0.0 | 154 | 99.7 | 1,585 | 2.5 | 1,586 |
| North East | 2.0 | 97.9 | 1,546 | 4.7 | 86 | 99.4 | 1,548 | 2.3 | 1,552 |
| Upper East | 8.3 | 91.6 | 2,880 | 2.9 | 111 | 99.2 | 2,898 | 8.6 | 2,904 |
| Upper West | 3.3 | 96.7 | 1,753 | 5.9 | 125 | 99.4 | 1,765 | 4.2 | 1,774 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.5 | 99.5 | 12,646 | 1.3 | 1,386 | 98.7 | 12,650 | 0.7 | 12,721 |
| Second | 1.3 | 98.7 | 12,568 | 12.1 | 358 | 98.5 | 12,650 | 2.4 | 12,725 |
| Middle | 4.7 | 95.2 | 12,428 | 3.1 | 78 | 99.5 | 12,689 | 6.8 | 12,719 |
| Fourth | 28.5 | 71.5 | 12,478 | 71.0 | 29 | 99.9 | 12,726 | 29.8 | 12,726 |
| Highest | 78.3 | 21.7 | 12,670 | 100.0 | 8 | 99.9 | 12,719 | 78.2 | 12,719 |
| Total | 22.7 | 77.2 | 62,790 | 4.9 | 1,859 | 99.3 | 63,435 | 23.6 | 63,611 |

LPG = liquefied petroleum gas
I Includes stoves/cookers using electricity, LPG/natural gas/biogas, solar, and alcohol/ethanol
${ }^{2}$ Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, animal dung/waste, processed biomass (pellets) or woodchips, garbage/plastic, and sawdust
${ }_{3}^{3}$ Includes central heating, electricity, LPG/natural gas/biogas, solar air heater, and alcohol/ethanol
${ }^{4}$ Includes electricity, solar lantern, rechargeable flashlight/torch/lantern, battery-powered flashlight/torch/lantern, and biogas lamp
${ }^{5}$ In order to calculate SDG indicator 7.1.2, persons living in households that report no cooking, no space heating, or no lighting are included in the numerator.

## Table 2.5 Household possessions

Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals, according to residence, Ghana DHS 2022

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Possession | Urban | Rural | Total |
| Household effects |  |  |  |
| $\quad$ Radio | 56.9 | 48.0 | 53.1 |
| Television | 79.9 | 47.8 | 66.3 |
| Mobile phone | 96.9 | 90.2 | 94.0 |
| Non-mobile telephone | 1.5 | 0.5 | 1.1 |
| Computer | 22.8 | 6.5 | 15.9 |
| Refrigerator | 56.3 | 22.4 | 41.9 |
| Freezer | 19.9 | 7.9 | 14.8 |
| Generator | 2.6 | 1.0 | 1.9 |
| Washing machine | 5.9 | 1.2 | 3.9 |
| Camera | 2.4 | 0.7 | 1.7 |
| Video/DVD/VCD | 12.7 | 5.4 | 9.6 |
| Sewing machine | 15.9 | 14.2 | 15.2 |
| Means of transportation |  |  |  |
| $\quad$ Bicycle | 15.9 | 25.9 | 20.2 |
| Animal-drawn cart | 0.3 | 1.4 | 0.7 |
| Motorcycle/scooter | 14.9 | 2.8 | 18.2 |
| Car/truck | 14.2 | 4.8 | 10.2 |
| Boat with a motor | 0.3 | 1.4 | 0.8 |
| Ownership of agricultural land | 20.7 | 56.7 | 36.0 |
| Ownership of farm animals ${ }^{1}$ | 20.2 | 54.8 | 34.9 |
| Number of households | 10,320 | 7,613 | 17,933 |

${ }^{1}$ Cows, bulls, other cattle, horses, donkeys, mules, goats, sheep, chickens, or other poultry

Table 2.6 Wealth quintiles
Percent distribution of the de jure population by wealth quintiles and the Gini coefficient, according to residence and region, Ghana DHS 2022

| Residence/region | Wealth quintile |  |  |  |  | Total | Number of persons | Gini coefficient ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lowest | Second | Middle | Fourth | Highest |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 3.4 | 10.9 | 22.7 | 29.7 | 33.3 | 100.0 | 33,294 | 0.16 |
| Rural | 38.2 | 30.0 | 17.0 | 9.3 | 5.4 | 100.0 | 30,317 | 0.32 |
| Region |  |  |  |  |  |  |  |  |
| Western | 9.0 | 16.2 | 20.3 | 24.6 | 29.8 | 100.0 | 3,944 | 0.23 |
| Central | 9.1 | 19.1 | 27.1 | 27.7 | 17.0 | 100.0 | 6,957 | 0.23 |
| Greater Accra | 2.4 | 4.1 | 13.3 | 31.0 | 49.1 | 100.0 | 9,217 | 0.12 |
| Volta | 13.9 | 26.8 | 25.9 | 17.8 | 15.7 | 100.0 | 2,902 | 0.27 |
| Eastern | 8.2 | 20.7 | 27.6 | 25.8 | 17.6 | 100.0 | 5,234 | 0.22 |
| Ashanti | 8.7 | 19.7 | 23.0 | 23.2 | 25.5 | 100.0 | 11,844 | 0.25 |
| Western North | 20.3 | 29.5 | 28.7 | 14.8 | 6.7 | 100.0 | 1,775 | 0.30 |
| Ahafo | 38.5 | 23.6 | 19.6 | 13.4 | 4.8 | 100.0 | 1,397 | 0.35 |
| Bono | 14.0 | 25.3 | 27.3 | 19.1 | 14.3 | 100.0 | 2,262 | 0.26 |
| Bono East | 35.5 | 23.9 | 21.6 | 12.8 | 6.2 | 100.0 | 2,831 | 0.35 |
| Oti | 30.2 | 39.9 | 19.7 | 7.5 | 2.7 | 100.0 | 1,937 | 0.28 |
| Northern | 43.6 | 25.8 | 14.2 | 9.4 | 7.1 | 100.0 | 5,493 | 0.36 |
| Savannah | 55.2 | 28.0 | 10.1 | 5.0 | 1.7 | 100.0 | 1,586 | 0.35 |
| North East | 64.1 | 24.5 | 7.5 | 2.5 | 1.3 | 100.0 | 1,552 | 0.30 |
| Upper East | 57.0 | 20.1 | 9.8 | 7.7 | 5.4 | 100.0 | 2,904 | 0.37 |
| Upper West | 52.0 | 27.2 | 8.5 | 6.3 | 5.9 | 100.0 | 1,774 | 0.30 |
| Total | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 100.0 | 63,611 | 0.27 |

[^5]Table 2.7 Household population by age, sex, and residence
Percent distributions of the de facto household population by various age groups and percentage of the de facto household population age 10-19, according to sex and residence, Ghana DHS 2022

| Age | Urban |  |  | Rural |  |  | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |  |  |  |
| <5 | 13.4 | 11.6 | 12.5 | 15.5 | 13.9 | 14.7 | 14.4 | 12.7 | 13.5 |
| 5-9 | 13.8 | 11.9 | 12.8 | 15.4 | 14.1 | 14.7 | 14.6 | 12.9 | 13.7 |
| 10-14 | 12.7 | 11.9 | 12.3 | 14.5 | 13.5 | 14.0 | 13.6 | 12.6 | 13.1 |
| 15-19 | 9.1 | 8.3 | 8.7 | 10.1 | 7.7 | 8.8 | 9.6 | 8.0 | 8.7 |
| 20-24 | 7.9 | 8.4 | 8.2 | 6.7 | 7.3 | 7.0 | 7.3 | 7.9 | 7.6 |
| 25-29 | 7.0 | 7.6 | 7.4 | 5.6 | 6.1 | 5.9 | 6.4 | 6.9 | 6.7 |
| 30-34 | 6.7 | 6.9 | 6.8 | 5.3 | 6.2 | 5.7 | 6.0 | 6.6 | 6.3 |
| 35-39 | 6.0 | 6.7 | 6.4 | 4.7 | 5.2 | 5.0 | 5.4 | 6.0 | 5.7 |
| 40-44 | 5.6 | 5.1 | 5.3 | 4.2 | 4.7 | 4.4 | 4.9 | 4.9 | 4.9 |
| 45-49 | 4.2 | 4.1 | 4.1 | 3.7 | 3.5 | 3.6 | 4.0 | 3.8 | 3.9 |
| 50-54 | 3.1 | 5.6 | 4.4 | 3.0 | 5.1 | 4.1 | 3.1 | 5.3 | 4.3 |
| 55-59 | 2.5 | 3.2 | 2.9 | 2.5 | 3.5 | 3.0 | 2.5 | 3.3 | 2.9 |
| 60-64 | 2.9 | 2.7 | 2.8 | 3.3 | 2.8 | 3.0 | 3.1 | 2.8 | 2.9 |
| 65-69 | 1.9 | 2.2 | 2.1 | 2.1 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 |
| 70-74 | 1.4 | 1.3 | 1.3 | 1.3 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| 75-79 | 0.6 | 1.0 | 0.8 | 1.0 | 1.3 | 1.2 | 0.8 | 1.1 | 1.0 |
| 80+ | 0.8 | 1.5 | 1.2 | 1.2 | 1.8 | 1.5 | 1.0 | 1.7 | 1.3 |
| Don't know/missing | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Dependency age groups |  |  |  |  |  |  |  |  |  |
| 0-14 | 40.0 | 35.3 | 37.5 | 45.4 | 41.5 | 43.4 | 42.6 | 38.2 | 40.3 |
| 15-64 | 55.2 | 58.7 | 57.1 | 48.9 | 52.1 | 50.5 | 52.1 | 55.6 | 54.0 |
| 65+ | 4.8 | 5.9 | 5.4 | 5.6 | 6.4 | 6.0 | 5.2 | 6.2 | 5.7 |
| Don't know/missing | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Child and adult populations |  |  |  |  |  |  |  |  |  |
| 0-17 | 45.6 | 40.5 | 42.9 | 52.0 | 46.5 | 49.2 | 48.7 | 43.3 | 45.9 |
| 18+ | 54.3 | 59.5 | 57.1 | 48.0 | 53.5 | 50.8 | 51.2 | 56.7 | 54.1 |
| Don't know/missing | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Adolescents 10-19 | 21.8 | 20.1 | 20.9 | 24.6 | 21.2 | 22.8 | 23.2 | 20.6 | 21.8 |
| Number of persons | 15,336 | 17,770 | 33,106 | 14,612 | 15,530 | 30,141 | 29,948 | 33,299 | 63,247 |

Table 2.8 Household composition
Percent distribution of households by sex of head of household and by household size, mean size of households, and percentage of households with orphans and children under age 18 not living with a biological parent, according to residence, Ghana DHS 2022

| Characteristic | Residence |  | Total |
| :---: | :---: | :---: | :---: |
|  | Urban | Rural |  |
| Household headship |  |  |  |
| Male | 60.6 | 67.3 | 63.4 |
| Female | 39.4 | 32.7 | 36.6 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of usual members |  |  |  |
| 0 | 0.0 | 0.0 | 0.0 |
| 1 | 27.6 | 20.7 | 24.6 |
| 2 | 15.9 | 13.2 | 14.7 |
| 3 | 17.3 | 15.1 | 16.4 |
| 4 | 14.3 | 13.8 | 14.1 |
| 5 | 11.0 | 12.2 | 11.5 |
| 6 | 6.5 | 9.4 | 7.8 |
| 7 | 3.6 | 6.3 | 4.7 |
| 8 | 1.8 | 4.0 | 2.8 |
| $9+$ | 1.8 | 5.4 | 3.4 |
| Total | 100.0 | 100.0 | 100.0 |
| Mean size of households | 3.2 | 4.0 | 3.5 |
| Percentage of households with children under age 18 who are orphans or not living with a biological parent Double orphans <br> 0.6 <br> 0.6 <br> 0.6 |  |  |  |
|  |  |  |  |  |
| Single orphans ${ }^{1}$ | 6.4 | 8.4 | 7.3 |
| Children not living with a biological parent ${ }^{2}$ | 14.8 | 19.1 | 16.6 |
| Orphans and/or children not living with a biological parent | 18.2 | 22.9 | 20.2 |
| Number of households | 10,320 | 7,613 | 17,933 |

Note: Table is based on de jure household members, i.e., usual residents. ${ }^{1}$ Includes children with one dead parent and an unknown survival status of the other parent
${ }^{2}$ Children not living with a biological parent are those under age 18 living in households with neither their mother nor their father present.

## Table 2.9 Children's living arrangements and orphanhood

 to background characteristics, Ghana DHS

| Background characteristic | Living with both parents | Living with mother but not with father |  | Living with father but not with mother |  | Not living with either parent |  |  |  |  | Total | Percentage not living with a biological parent | Percentage with one or both parents dead ${ }^{1}$ | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Father alive | Father dead | Mother alive | Mother dead | Both alive | Only mother alive | Only father alive | Both dead | Missing information on father/ mother |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-4 | 60.2 | 29.3 | 1.6 | 1.9 | 0.1 | 6.2 | 0.3 | 0.3 | 0.1 | 0.0 | 100.0 | 6.8 | 2.3 | 8,508 |
| <2 | 62.0 | 34.3 | 1.1 | 0.6 | 0.1 | 1.6 | 0.0 | 0.2 | 0.0 | 0.0 | 100.0 | 1.9 | 1.4 | 3,443 |
| 2-4 | 59.0 | 25.9 | 1.9 | 2.8 | 0.1 | 9.3 | 0.4 | 0.3 | 0.2 | 0.1 | 100.0 | 10.2 | 3.0 | 5,064 |
| 5-9 | 51.8 | 22.6 | 3.5 | 4.4 | 0.3 | 14.7 | 1.3 | 0.8 | 0.3 | 0.1 | 100.0 | 17.2 | 6.3 | 8,650 |
| 10-14 | 44.2 | 20.6 | 5.6 | 6.4 | 1.0 | 17.7 | 2.1 | 1.5 | 0.8 | 0.1 | 100.0 | 22.0 | 11.0 | 8,318 |
| 15-17 | 39.5 | 20.7 | 7.8 | 6.3 | 1.4 | 17.7 | 3.9 | 1.7 | 0.9 | 0.2 | 100.0 | 24.2 | 15.6 | 3,536 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 51.3 | 23.5 | 4.2 | 5.1 | 0.7 | 12.5 | 1.4 | 0.7 | 0.5 | 0.1 | 100.0 | 15.2 | 7.5 | 14,627 |
| Female | 49.9 | 24.1 | 4.0 | 3.8 | 0.4 | 14.4 | 1.7 | 1.1 | 0.5 | 0.1 | 100.0 | 17.6 | 7.7 | 14,384 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 47.0 | 27.2 | 4.2 | 4.1 | 0.6 | 13.8 | 1.4 | 1.0 | 0.6 | 0.1 | 100.0 | 16.8 | 7.8 | 14,164 |
| Rural | 54.0 | 20.5 | 3.9 | 4.9 | 0.6 | 13.1 | 1.6 | 0.9 | 0.4 | 0.2 | 100.0 | 16.0 | 7.4 | 14,848 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 50.4 | 24.7 | 2.7 | 4.2 | 0.4 | 13.7 | 1.6 | 1.2 | 0.9 | 0.2 | 100.0 | 17.4 | 6.8 | 1,741 |
| Central | 38.5 | 32.7 | 4.0 | 4.2 | 0.5 | 16.5 | 1.5 | 1.5 | 0.5 | 0.1 | 100.0 | 20.0 | 8.0 | 3,187 |
| Greater Accra | 51.7 | 25.8 | 4.3 | 5.7 | 0.6 | 10.3 | 0.9 | 0.5 | 0.2 | 0.1 | 100.0 | 11.9 | 6.4 | 3,679 |
| Volta | 41.1 | 28.4 | 4.0 | 4.0 | 0.3 | 17.8 | 2.1 | 1.4 | 0.4 | 0.4 | 100.0 | 21.7 | 8.5 | 1,284 |
| Eastern | 39.6 | 29.3 | 3.8 | 3.4 | 0.7 | 19.4 | 1.4 | 1.7 | 0.6 | 0.1 | 100.0 | 23.1 | 8.2 | 2,286 |
| Ashanti | 43.6 | 29.5 | 4.9 | 3.1 | 0.5 | 15.4 | 1.7 | 0.8 | 0.3 | 0.2 | 100.0 | 18.2 | 8.3 | 5,272 |
| Western North | 50.6 | 21.1 | 3.1 | 6.5 | 0.6 | 13.8 | 2.5 | 1.0 | 0.6 | 0.1 | 100.0 | 18.0 | 7.9 | 827 |
| Ahafo | 53.0 | 22.2 | 3.5 | 4.4 | 0.4 | 13.9 | 1.3 | 0.8 | 0.4 | 0.1 | 100.0 | 16.4 | 6.4 | 644 |
| Bono | 40.5 | 33.5 | 4.2 | 3.3 | 0.3 | 15.3 | 1.5 | 0.9 | 0.4 | 0.2 | 100.0 | 18.0 | 7.2 | 990 |
| Bono East | 56.7 | 20.6 | 4.0 | 3.4 | 0.7 | 12.4 | 1.6 | 0.7 | 0.1 | 0.0 | 100.0 | 14.8 | 7.1 | 1,335 |
| Oti | 55.4 | 18.0 | 3.1 | 5.4 | 0.5 | 14.7 | 1.6 | 1.0 | 0.2 | 0.1 | 100.0 | 17.5 | 6.5 | 959 |
| Northern | 77.2 | 6.0 | 3.2 | 4.2 | 0.9 | 5.6 | 1.3 | 0.5 | 1.1 | 0.0 | 100.0 | 8.5 | 6.9 | 2,907 |
| Savannah | 62.3 | 13.7 | 3.3 | 6.3 | 0.4 | 10.2 | 2.1 | 1.3 | 0.3 | 0.1 | 100.0 | 13.9 | 7.4 | 804 |
| North East | 63.9 | 13.5 | 2.5 | 7.9 | 0.7 | 9.8 | 1.0 | 0.4 | 0.2 | 0.0 | 100.0 | 11.5 | 4.8 | 871 |
| Upper East | 53.1 | 16.5 | 7.3 | 7.5 | 0.5 | 12.5 | 1.8 | 0.5 | 0.2 | 0.0 | 100.0 | 15.0 | 10.3 | 1,360 |
| Upper West | 53.9 | 19.3 | 5.1 | 4.1 | 0.2 | 12.8 | 2.8 | 1.2 | 0.4 | 0.2 | 100.0 | 17.3 | 9.8 | 865 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 61.4 | 14.9 | 4.1 | 4.8 | 0.7 | 11.7 | 1.4 | 0.7 | 0.4 | 0.0 | 100.0 | 14.2 | 7.3 | 6,665 |
| Second | 46.9 | 25.3 | 5.0 | 4.2 | 0.6 | 14.0 | 2.0 | 1.2 | 0.6 | 0.2 | 100.0 | 17.8 | 9.4 | 6,362 |
| Middle | 42.9 | 28.8 | 4.4 | 3.6 | 0.5 | 16.4 | 1.7 | 1.1 | 0.4 | 0.2 | 100.0 | 19.6 | 8.2 | 5,729 |
| Fourth | 46.0 | 28.7 | 3.9 | 4.7 | 0.7 | 13.4 | 1.2 | 0.9 | 0.4 | 0.1 | 100.0 | 15.9 | 7.1 | 5,243 |
| Highest | 54.6 | 22.8 | 2.7 | 5.2 | 0.3 | 11.8 | 1.2 | 0.9 | 0.5 | 0.1 | 100.0 | 14.4 | 5.6 | 5,012 |
| Total < 15 | 52.1 | 24.2 | 3.6 | 4.2 | 0.4 | 12.8 | 1.2 | 0.8 | 0.4 | 0.1 | 100.0 | 15.3 | 6.5 | 25,475 |
| Total <18 | 50.6 | 23.8 | 4.1 | 4.5 | 0.6 | 13.4 | 1.5 | 0.9 | 0.5 | 0.1 | 100.0 | 16.4 | 7.6 | 29,011 |

[^6]Note: Table is based on de jure members, i.e., usual residents.
${ }^{1}$ Includes children with father dead, mother dead, both dead, and one parent dead but missing information on survival status of the other parent

Table 2.10 Birth registration of children under age 5
Percentage of de jure children under age 5 whose births are registered with the civil authorities, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of children whose births are registered and who: |  | Total percentage of children whose births are registered | Number of children |
| :---: | :---: | :---: | :---: | :---: |
|  | Had a birth certificate | Did not have a birth certificate |  |  |
| Age |  |  |  |  |
| <1 | 41.6 | 19.4 | 61.1 | 1,651 |
| 1-4 | 66.2 | 11.6 | 77.7 | 6,857 |
| Sex |  |  |  |  |
| Male | 61.6 | 12.8 | 74.4 | 4,301 |
| Female | 61.2 | 13.4 | 74.6 | 4,206 |
| Residence |  |  |  |  |
| Urban | 65.4 | 12.1 | 77.5 | 4,093 |
| Rural | 57.7 | 14.0 | 71.7 | 4,415 |
| Region |  |  |  |  |
| Western | 72.1 | 13.5 | 85.6 | 526 |
| Central | 59.7 | 16.5 | 76.2 | 887 |
| Greater Accra | 59.8 | 12.5 | 72.3 | 1,063 |
| Volta | 64.1 | 6.8 | 70.9 | 320 |
| Eastern | 56.6 | 9.0 | 65.6 | 616 |
| Ashanti | 63.4 | 11.3 | 74.7 | 1,518 |
| Western North | 58.4 | 11.8 | 70.2 | 227 |
| Ahafo | 56.6 | 18.5 | 75.1 | 185 |
| Bono | 61.2 | 7.2 | 68.4 | 279 |
| Bono East | 46.4 | 36.3 | 82.7 | 426 |
| Oti | 53.5 | 7.0 | 60.5 | 281 |
| Northern | 66.4 | 10.5 | 76.9 | 957 |
| Savannah | 50.6 | 14.5 | 65.1 | 255 |
| North East | 58.0 | 16.1 | 74.1 | 296 |
| Upper East | 72.7 | 10.7 | 83.4 | 420 |
| Upper West | 66.3 | 11.7 | 78.0 | 253 |
| Wealth quintile |  |  |  |  |
| Lowest | 50.6 | 15.3 | 65.8 | 2,043 |
| Second | 61.6 | 12.6 | 74.2 | 1,748 |
| Middle | 63.2 | 12.1 | 75.3 | 1,650 |
| Fourth | 64.2 | 12.3 | 76.5 | 1,573 |
| Highest | 71.0 | 12.7 | 83.7 | 1,494 |
| Total | 61.4 | 13.1 | 74.5 | 8,508 |

Table 2.11.1 Educational attainment of the female household population
Percent distribution of the de facto female household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Ghana DHS 2022

| Background characteristic | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary | Don't know | Total | Number | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 6-9 | 35.9 | 63.6 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 100.0 | 3,487 | a |
| 10-14 | 5.9 | 69.3 | 7.1 | 17.7 | 0.0 | 0.1 | 0.0 | 100.0 | 4,205 | 3.6 |
| 15-19 | 4.4 | 9.8 | 5.2 | 68.3 | 11.5 | 0.9 | 0.0 | 100.0 | 2,663 | 8.0 |
| 20-24 | 6.6 | 7.3 | 3.1 | 39.8 | 32.7 | 10.4 | 0.1 | 100.0 | 2,630 | 8.9 |
| 25-29 | 11.4 | 8.3 | 2.7 | 38.4 | 22.7 | 16.3 | 0.2 | 100.0 | 2,308 | 8.7 |
| 30-34 | 19.5 | 9.5 | 4.6 | 38.1 | 10.6 | 17.8 | 0.0 | 100.0 | 2,183 | 8.3 |
| 35-39 | 24.7 | 10.2 | 4.5 | 38.4 | 10.0 | 12.2 | 0.0 | 100.0 | 2,007 | 8.1 |
| 40-44 | 30.1 | 11.9 | 5.1 | 39.7 | 5.7 | 7.6 | 0.0 | 100.0 | 1,636 | 6.6 |
| 45-49 | 30.1 | 12.7 | 6.1 | 40.7 | 5.8 | 4.5 | 0.2 | 100.0 | 1,269 | 6.1 |
| 50-54 | 42.4 | 12.6 | 3.3 | 36.7 | 1.6 | 3.4 | 0.0 | 100.0 | 1,780 | 3.8 |
| 55-59 | 44.9 | 11.0 | 5.1 | 35.2 | 1.0 | 2.7 | 0.2 | 100.0 | 1,115 | 2.7 |
| 60-64 | 41.4 | 10.6 | 4.0 | 38.7 | 1.8 | 3.3 | 0.3 | 100.0 | 919 | 4.2 |
| 65+ | 57.3 | 10.1 | 2.7 | 25.9 | 0.3 | 3.6 | 0.1 | 100.0 | 2,050 | a |
| Don't know/missing | (91.4) | (1.1) | (2.2) | (0.0) | (5.3) | (0.0) | (0.0) | 100.0 | 18 | a |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 16.2 | 23.3 | 4.1 | 35.9 | 11.3 | 9.1 | 0.1 | 100.0 | 15,323 | 7.0 |
| Rural | 32.4 | 28.0 | 3.9 | 28.6 | 4.8 | 2.2 | 0.0 | 100.0 | 12,946 | 2.9 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 17.7 | 24.6 | 6.1 | 37.6 | 8.2 | 5.7 | 0.1 | 100.0 | 1,754 | 6.1 |
| Central | 19.8 | 26.0 | 4.1 | 38.9 | 6.6 | 4.6 | 0.0 | 100.0 | 3,193 | 5.6 |
| Greater Accra | 10.0 | 22.6 | 4.2 | 38.7 | 13.4 | 10.9 | 0.1 | 100.0 | 4,104 | 8.2 |
| Volta | 17.2 | 26.4 | 6.2 | 36.7 | 7.5 | 5.9 | 0.1 | 100.0 | 1,416 | 5.8 |
| Eastern | 15.7 | 27.3 | 5.3 | 39.2 | 7.0 | 5.4 | 0.1 | 100.0 | 2,467 | 6.0 |
| Ashanti | 16.1 | 25.3 | 4.2 | 38.0 | 9.7 | 6.7 | 0.1 | 100.0 | 5,410 | 6.3 |
| Western North | 20.9 | 28.4 | 2.8 | 36.8 | 6.9 | 4.1 | 0.1 | 100.0 | 750 | 5.1 |
| Ahafo | 23.9 | 25.5 | 5.0 | 35.4 | 7.0 | 3.2 | 0.0 | 100.0 | 599 | 5.1 |
| Bono | 21.1 | 23.3 | 4.4 | 36.6 | 8.5 | 6.1 | 0.1 | 100.0 | 1,064 | 5.9 |
| Bono East | 32.7 | 27.6 | 3.0 | 25.4 | 7.3 | 3.9 | 0.1 | 100.0 | 1,223 | 3.1 |
| Oti | 35.1 | 31.6 | 3.2 | 24.1 | 3.5 | 2.5 | 0.0 | 100.0 | 792 | 1.9 |
| Northern | 51.2 | 23.0 | 2.0 | 12.3 | 6.1 | 5.3 | 0.0 | 100.0 | 2,162 | a |
| Savannah | 56.7 | 24.1 | 1.7 | 11.7 | 4.1 | 1.6 | 0.0 | 100.0 | 641 | a |
| North East | 53.8 | 26.0 | 1.8 | 12.7 | 4.1 | 1.6 | 0.0 | 100.0 | 603 | a |
| Upper East | 36.4 | 27.3 | 3.0 | 19.5 | 9.1 | 4.6 | 0.1 | 100.0 | 1,274 | 2.5 |
| Upper West | 43.4 | 27.9 | 2.4 | 16.2 | 5.7 | 4.4 | 0.0 | 100.0 | 819 | 0.9 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 47.6 | 28.9 | 3.5 | 16.7 | 3.0 | 0.2 | 0.0 | 100.0 | 5,211 | a |
| Second | 31.6 | 29.4 | 4.8 | 29.5 | 4.1 | 0.5 | 0.0 | 100.0 | 5,661 | 3.0 |
| Middle | 20.2 | 27.7 | 4.6 | 38.5 | 7.4 | 1.7 | 0.0 | 100.0 | 5,815 | 5.3 |
| Fourth | 13.9 | 22.4 | 3.9 | 41.7 | 12.0 | 5.8 | 0.2 | 100.0 | 5,743 | 7.6 |
| Highest | 7.4 | 19.3 | 3.3 | 34.7 | 14.5 | 20.8 | 0.0 | 100.0 | 5,839 | 8.8 |
| Total | 23.6 | 25.5 | 4.0 | 32.6 | 8.3 | 6.0 | 0.1 | 100.0 | 28,269 | 5.1 |

[^7]Table 2.11.2 Educational attainment of the male household population
Percent distribution of the de facto male household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Ghana DHS 2022

| Background characteristic | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary | Don't know | Total | Number | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 6-9 | 41.4 | 58.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 3,574 | a |
| 10-14 | 6.6 | 71.0 | 6.5 | 15.8 | 0.1 | 0.1 | 0.0 | 100.0 | 4,077 | 3.3 |
| 15-19 | 4.4 | 13.6 | 4.9 | 66.0 | 9.9 | 1.2 | 0.0 | 100.0 | 2,870 | 7.5 |
| 20-24 | 6.1 | 7.9 | 2.9 | 29.0 | 40.7 | 13.3 | 0.1 | 100.0 | 2,187 | 11.1 |
| 25-29 | 7.7 | 6.9 | 3.0 | 30.8 | 30.9 | 20.6 | 0.0 | 100.0 | 1,904 | 11.1 |
| 30-34 | 11.0 | 6.3 | 3.8 | 33.3 | 21.8 | 23.3 | 0.4 | 100.0 | 1,802 | 9.4 |
| 35-39 | 14.8 | 7.3 | 3.6 | 38.0 | 15.6 | 20.5 | 0.1 | 100.0 | 1,606 | 8.6 |
| 40-44 | 16.5 | 7.4 | 4.4 | 42.2 | 12.7 | 16.6 | 0.2 | 100.0 | 1,468 | 8.5 |
| 45-49 | 19.3 | 9.0 | 3.5 | 43.9 | 9.5 | 14.7 | 0.0 | 100.0 | 1,184 | 8.5 |
| 50-54 | 23.7 | 7.3 | 3.7 | 49.8 | 3.7 | 11.4 | 0.4 | 100.0 | 914 | 8.9 |
| 55-59 | 24.2 | 6.6 | 3.5 | 53.0 | 2.9 | 9.8 | 0.0 | 100.0 | 748 | 9.1 |
| 60-64 | 29.8 | 4.7 | 3.5 | 48.4 | 1.8 | 11.4 | 0.4 | 100.0 | 931 | 9.0 |
| 65+ | 34.0 | 7.9 | 2.8 | 42.5 | 0.9 | 11.5 | 0.3 | 100.0 | 1,555 | 7.8 |
| Don't know/missing | * | * | * | * | * | * | * | 100.0 | 12 | * |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 10.4 | 22.7 | 3.5 | 34.2 | 14.7 | 14.4 | 0.2 | 100.0 | 12,900 | 8.3 |
| Rural | 24.6 | 29.1 | 3.7 | 30.8 | 7.6 | 4.2 | 0.0 | 100.0 | 11,932 | 4.3 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 11.4 | 24.4 | 3.7 | 37.9 | 12.3 | 10.2 | 0.2 | 100.0 | 1,547 | 8.1 |
| Central | 11.1 | 27.5 | 3.8 | 38.3 | 12.0 | 7.3 | 0.0 | 100.0 | 2,605 | 6.8 |
| Greater Accra | 6.2 | 20.7 | 3.5 | 36.4 | 15.4 | 17.7 | 0.2 | 100.0 | 3,870 | 8.7 |
| Volta | 10.9 | 28.1 | 4.5 | 36.2 | 10.4 | 9.8 | 0.1 | 100.0 | 1,122 | 7.1 |
| Eastern | 12.5 | 23.1 | 5.0 | 41.6 | 9.7 | 8.0 | 0.2 | 100.0 | 2,072 | 7.6 |
| Ashanti | 10.4 | 25.0 | 3.6 | 38.9 | 13.9 | 8.2 | 0.2 | 100.0 | 4,453 | 8.0 |
| Western North | 14.2 | 29.1 | 2.7 | 37.3 | 9.0 | 7.5 | 0.1 | 100.0 | 729 | 6.2 |
| Ahafo | 19.6 | 25.5 | 5.2 | 33.6 | 10.3 | 5.8 | 0.0 | 100.0 | 563 | 5.7 |
| Bono | 15.9 | 22.9 | 4.2 | 33.9 | 12.0 | 10.9 | 0.1 | 100.0 | 879 | 7.6 |
| Bono East | 27.9 | 25.6 | 2.5 | 26.4 | 10.1 | 7.2 | 0.2 | 100.0 | 1,105 | 4.2 |
| Oti | 26.1 | 31.1 | 3.0 | 26.5 | 8.4 | 4.8 | 0.0 | 100.0 | 773 | 3.6 |
| Northern | 38.8 | 27.9 | 3.0 | 14.5 | 6.9 | 8.7 | 0.1 | 100.0 | 2,107 | 1.2 |
| Savannah | 48.4 | 25.9 | 1.8 | 12.8 | 6.9 | 4.2 | 0.1 | 100.0 | 625 | 0.0 |
| North East | 42.9 | 29.5 | 2.1 | 14.9 | 6.1 | 4.4 | 0.0 | 100.0 | 598 | 0.4 |
| Upper East | 23.6 | 34.3 | 4.1 | 21.1 | 8.2 | 8.6 | 0.2 | 100.0 | 1,134 | 3.9 |
| Upper West | 33.1 | 31.8 | 3.3 | 18.1 | 6.4 | 7.3 | 0.0 | 100.0 | 651 | 2.4 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 39.0 | 31.9 | 3.4 | 20.5 | 4.3 | 0.9 | 0.1 | 100.0 | 5,011 | 1.2 |
| Second | 21.4 | 31.5 | 4.6 | 32.3 | 7.8 | 2.2 | 0.0 | 100.0 | 4,831 | 4.5 |
| Middle | 13.7 | 27.2 | 4.4 | 38.4 | 11.1 | 5.1 | 0.1 | 100.0 | 4,901 | 6.4 |
| Fourth | 8.0 | 21.3 | 3.6 | 41.2 | 16.7 | 9.1 | 0.2 | 100.0 | 4,981 | 8.4 |
| Highest | 4.3 | 17.4 | 2.1 | 30.5 | 16.3 | 29.3 | 0.2 | 100.0 | 5,107 | 9.8 |
| Total | 17.2 | 25.8 | 3.6 | 32.5 | 11.3 | 9.5 | 0.1 | 100.0 | 24,832 | 6.3 |

[^8]Table 2.12 School attendance ratios
Net attendance ratios (NAR) and gross attendance ratios (GAR) for the de facto household population by sex and level of schooling, and the gender parity index (GPI), according to background characteristics, Ghana DHS 2022

|  | Net attendance ratio ${ }^{1}$ |  |  |  | Gross attendance ratio ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Male | Female | Total | Gender parity index ${ }^{3}$ | Male | Female | Total | Gender parity index ${ }^{3}$ |
| PRIMARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 85.9 | 83.6 | 84.7 | 0.97 | 111.6 | 108.7 | 110.1 | 0.97 |
| Rural | 77.7 | 80.0 | 78.8 | 1.03 | 107.2 | 106.5 | 106.9 | 0.99 |
| Region |  |  |  |  |  |  |  |  |
| Western | 90.9 | 90.5 | 90.7 | 1.00 | 122.0 | 121.4 | 121.7 | 1.00 |
| Central | 87.0 | 85.1 | 86.1 | 0.98 | 111.9 | 112.9 | 112.4 | 1.01 |
| Greater Accra | 88.8 | 78.5 | 83.5 | 0.88 | 117.5 | 105.1 | 111.1 | 0.89 |
| Volta | 89.4 | 85.6 | 87.4 | 0.96 | 121.1 | 113.5 | 117.2 | 0.94 |
| Eastern | 84.4 | 90.3 | 87.5 | 1.07 | 110.2 | 112.6 | 111.5 | 1.02 |
| Ashanti | 85.9 | 87.4 | 86.7 | 1.02 | 108.3 | 108.0 | 108.1 | 1.00 |
| Western North | 83.7 | 81.8 | 82.7 | 0.98 | 113.2 | 104.1 | 108.7 | 0.92 |
| Ahafo | 79.0 | 76.3 | 77.7 | 0.97 | 99.6 | 101.4 | 100.5 | 1.02 |
| Bono | 86.7 | 84.2 | 85.4 | 0.97 | 113.2 | 114.6 | 113.9 | 1.01 |
| Bono East | 68.6 | 74.0 | 71.3 | 1.08 | 92.1 | 98.9 | 95.5 | 1.07 |
| Oti | 76.7 | 78.3 | 77.5 | 1.02 | 115.0 | 104.7 | 109.7 | 0.91 |
| Northern | 65.0 | 67.9 | 66.4 | 1.04 | 93.2 | 94.9 | 94.0 | 1.02 |
| Savannah | 52.8 | 57.1 | 54.8 | 1.08 | 78.8 | 86.0 | 82.2 | 1.09 |
| North East | 61.6 | 66.1 | 63.7 | 1.07 | 93.7 | 89.0 | 91.6 | 0.95 |
| Upper East | 87.6 | 85.8 | 86.7 | 0.98 | 127.5 | 113.7 | 120.6 | 0.89 |
| Upper West | 82.1 | 85.4 | 83.8 | 1.04 | 116.3 | 125.2 | 120.8 | 1.08 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 67.2 | 71.4 | 69.2 | 1.06 | 94.8 | 96.4 | 95.6 | 1.02 |
| Second | 83.9 | 82.2 | 83.0 | 0.98 | 116.5 | 111.0 | 113.7 | 0.95 |
| Middle | 85.4 | 86.8 | 86.1 | 1.02 | 113.5 | 111.1 | 112.3 | 0.98 |
| Fourth | 89.8 | 88.2 | 89.0 | 0.98 | 112.6 | 115.3 | 114.0 | 1.02 |
| Highest | 86.5 | 81.8 | 83.9 | 0.95 | 112.3 | 105.7 | 108.7 | 0.94 |
| Total | 81.6 | 81.8 | 81.7 | 1.00 | 109.3 | 107.6 | 108.5 | 0.98 |
| SECONDARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 63.4 | 61.9 | 62.7 | 0.98 | 82.9 | 86.5 | 84.7 | 1.04 |
| Rural | 49.0 | 47.7 | 48.4 | 0.97 | 60.2 | 62.1 | 61.1 | 1.03 |
| Region |  |  |  |  |  |  |  |  |
| Western | 51.7 | 55.2 | 53.4 | 1.07 | 64.9 | 66.4 | 65.6 | 1.02 |
| Central | 64.8 | 67.4 | 66.1 | 1.04 | 84.4 | 84.6 | 84.5 | 1.00 |
| Greater Accra | 62.4 | 60.8 | 61.6 | 0.97 | 80.7 | 86.7 | 83.7 | 1.07 |
| Volta | 57.5 | 68.2 | 63.1 | 1.19 | 75.4 | 86.2 | 81.1 | 1.14 |
| Eastern | 68.0 | 61.3 | 65.0 | 0.90 | 83.7 | 82.2 | 83.0 | 0.98 |
| Ashanti | 68.2 | 57.5 | 63.3 | 0.84 | 84.4 | 88.7 | 86.4 | 1.05 |
| Western North | 53.7 | 50.6 | 52.2 | 0.94 | 63.1 | 65.1 | 64.0 | 1.03 |
| Ahafo | 51.0 | 54.3 | 52.6 | 1.07 | 63.9 | 68.7 | 66.3 | 1.07 |
| Bono | 57.6 | 61.0 | 59.4 | 1.06 | 74.9 | 82.8 | 79.1 | 1.10 |
| Bono East | 37.7 | 39.9 | 38.8 | 1.06 | 49.9 | 53.0 | 51.5 | 1.06 |
| Oti | 36.8 | 43.6 | 39.8 | 1.19 | 50.9 | 52.0 | 51.4 | 1.02 |
| Northern | 33.4 | 34.7 | 34.0 | 1.04 | 44.4 | 49.3 | 46.5 | 1.11 |
| Savannah | 27.8 | 26.4 | 27.1 | 0.95 | 39.5 | 32.9 | 36.2 | 0.83 |
| North East | 35.4 | 33.1 | 34.4 | 0.94 | 46.8 | 43.7 | 45.4 | 0.93 |
| Upper East | 55.2 | 53.8 | 54.6 | 0.97 | 68.8 | 72.0 | 70.3 | 1.05 |
| Upper West | 46.9 | 44.7 | 45.8 | 0.95 | 56.1 | 60.1 | 58.1 | 1.07 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 36.1 | 33.1 | 34.8 | 0.92 | 45.1 | 43.5 | 44.4 | 0.97 |
| Second | 54.6 | 48.9 | 52.0 | 0.90 | 65.4 | 66.9 | 66.1 | 1.02 |
| Middle | 57.2 | 60.1 | 58.7 | 1.05 | 73.7 | 80.4 | 77.1 | 1.09 |
| Fourth | 67.4 | 64.7 | 66.1 | 0.96 | 84.7 | 84.5 | 84.6 | 1.00 |
| Highest | 71.6 | 68.9 | 70.2 | 0.96 | 98.7 | 99.5 | 99.1 | 1.01 |
| Total | 56.0 | 55.1 | 55.6 | 0.98 | 71.2 | 74.9 | 73.0 | 1.05 |

${ }^{1}$ The NAR for primary school is the percentage of the primary school-age (7-12 years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary school-age (13-18 years) population that is attending secondary school. By definition, the NAR cannot exceed 100.0 .
${ }^{2}$ The GAR for primary school is the total number of primary school students, expressed as a percentage of the official primary school-age population. The GAR for secondary school is the total number of secondary school students, expressed as a percentage of the official secondary school-age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100.0.
${ }^{3}$ The gender parity index for primary school is the ratio of the primary school NAR (GAR) for females to the NAR (GAR) for males. The gender parity index for secondary school is the ratio of the secondary school NAR (GAR) for females to the NAR (GAR) for males.

Table 2.13 Participation rate in organised learning
Percent distribution of children 1 year younger than the official primary school entry age at the beginning of the school year by attendance at an early childhood education programme or primary school, and the adjusted net attendance ratio (NAR), according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of children attending |  |  |  | Adjusted NAR ${ }^{1}$ | Number of children age 5 at the beginning of the school year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | An early childhood education programme | Primary school | Neither an early childhood education programme nor primary school | Total |  |  |
| Sex |  |  |  |  |  |  |
| Male | 67.9 | 21.1 | 11.0 | 100.0 | 89.0 | 923 |
| Female | 66.1 | 21.7 | 12.2 | 100.0 | 87.8 | 880 |
| Residence |  |  |  |  |  |  |
| Urban | 72.6 | 23.0 | 4.4 | 100.0 | 95.6 | 861 |
| Rural | 61.9 | 20.0 | 18.1 | 100.0 | 81.9 | 942 |
| Region |  |  |  |  |  |  |
| Western | 68.8 | 21.2 | 10.0 | 100.0 | 90.0 | 104 |
| Central | 73.1 | 18.9 | 8.1 | 100.0 | 91.9 | 197 |
| Greater Accra | 72.3 | 24.2 | 3.5 | 100.0 | 96.5 | 223 |
| Volta | 79.3 | 17.7 | 3.0 | 100.0 | 97.0 | 68 |
| Eastern | 79.2 | 16.5 | 4.4 | 100.0 | 95.6 | 133 |
| Ashanti | 80.1 | 16.3 | 3.5 | 100.0 | 96.5 | 337 |
| Western North | 61.7 | 24.3 | 14.1 | 100.0 | 85.9 | 56 |
| Ahafo | 55.0 | 24.0 | 21.0 | 100.0 | 79.0 | 42 |
| Bono | 73.6 | 22.7 | 3.7 | 100.0 | 96.3 | 53 |
| Bono East | 62.5 | 15.0 | 22.5 | 100.0 | 77.5 | 86 |
| Oti | 54.9 | 20.9 | 24.2 | 100.0 | 75.8 | 64 |
| Northern | 44.5 | 30.3 | 25.1 | 100.0 | 74.9 | 207 |
| Savannah | 45.3 | 14.3 | 40.4 | 100.0 | 59.6 | 58 |
| North East | 38.5 | 32.9 | 28.6 | 100.0 | 71.4 | 55 |
| Upper East | 60.7 | 30.3 | 8.9 | 100.0 | 91.1 | 68 |
| Upper West | 69.0 | 22.9 | 8.1 | 100.0 | 91.9 | 54 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 49.2 | 18.4 | 32.4 | 100.0 | 67.6 | 424 |
| Second | 65.7 | 24.7 | 9.6 | 100.0 | 90.4 | 402 |
| Middle | 76.2 | 18.6 | 5.3 | 100.0 | 94.7 | 358 |
| Fourth | 76.7 | 20.7 | 2.6 | 100.0 | 97.4 | 337 |
| Highest | 72.5 | 25.7 | 1.8 | 100.0 | 98.2 | 281 |
| Total | 67.0 | 21.4 | 11.6 | 100.0 | 88.4 | 1,803 |

${ }^{1}$ The adjusted net attendance ratio (NAR) to organised learning is the percentage of children of 1 year younger than the official primary school entry age (at the beginning of the school year) who are attending early childhood education or primary school.

## CHARACTERISTICS OF RESPONDENTS

## Key Findings

- Age: One in five respondents ( $18 \%$ of women and $23 \%$ of men) are age 15-19.
- Marital status: 55\% of women are currently married or living together with a partner as if married.
- Education: The percentage of women with no education has declined over time, from 19\% in 2014 to $16 \%$ in 2022.
- Internet usage: 58\% of women and $74 \%$ of men in urban areas used the internet in the past 12 months, as compared with $24 \%$ of women and $46 \%$ of men in rural areas.
- Employment: The percentage of women who were paid in cash only for their work in the past 12 months decreased from 64\% in 2014 to 58\% in 2022.
- Health insurance: $10 \%$ of women and $27 \%$ of men age 15-49 are neither registered nor covered under any health insurance scheme.
- Migration: $24 \%$ of women and $31 \%$ of men migrated from urban to rural areas, while $9 \%$ of women and $6 \%$ of men migrated from rural to urban areas.

This chapter presents information on the demographic and socioeconomic characteristics of the survey respondents such as age, education, literacy, marital status, employment, occupation, wealth, health insurance coverage, residence at birth, current place of residence, and recent migration. The chapter also presents information on respondents' use of alcohol and tobacco. Together this information is useful for understanding the factors that affect use of reproductive health services, contraceptive use, and other health behaviours.

### 3.1 Basic Characteristics of Survey Respondents

Table 3.1 shows that 15,014 women and 6,277 men age 15-49 were interviewed in the 2022 GDHS. The percentage of women interviewed declines with increasing age, from $18 \%$ among those age 15-24 to $9 \%$ among those age 45-49. Similarly, the percentage of male respondents falls from $23 \%$ among those age $15-19$ to $9 \%$ among those age 45-49.

Seventy-seven percent of both women and men reported their health status as good or very good. Most respondents are Christian ( $77 \%$ of women and $70 \%$ of men). More than 4 in 10 women ( $42 \%$ ) and more than 3 in 10 men ( $35 \%$ ) are Pentecostal/Charismatic, while $35 \%$ of both women and men are Catholic, Anglican, Methodist, Presbyterian, or other Christian. Nineteen percent of women and $21 \%$ of men are Muslim.

Akans are the predominant ethnic group in Ghana ( $46 \%$ of both women and men), followed by MoleDagbanis ( $19 \%$ of women and $18 \%$ of men) and Ewes ( $12 \%$ of women and $11 \%$ of men). Over half of men $(51 \%)$ and more than one-third of women ( $35 \%$ ) have never been married. Women are more likely to be married or living together with a partner (i.e., in union) than men ( $55 \%$ versus $45 \%$ ). Also, a higher
proportion of women than men are divorced or separated ( $8 \%$ versus $4 \%$ ) or widowed ( $2 \%$ versus less than $1 \%$ ).

More than half of the survey respondents reside in urban areas ( $57 \%$ of women and $55 \%$ of men).

### 3.2 Education and Literacy

## Literacy

Respondents who had attended higher than secondary school were assumed to be literate. All other respondents were considered literate if they could read aloud all or part of a sentence shown to them.
Sample: Women and men age 15-49

Overall, $3 \%$ of both women and men age 15-49 have some primary education, $10 \%$ of women and $9 \%$ of men have completed primary school but gone no further, $15 \%$ of women and $14 \%$ men have some secondary education, $45 \%$ of women and $50 \%$ of men have completed secondary education and gone no further, and $10 \%$ of women and $15 \%$ of men have more than a secondary education (Table 3.2.1, Table 3.2.2, and Figure 3.1). Sixteen percent of women and $10 \%$ of men have no formal education.

Trends: The median number of years of schooling has increased since the 2014 GDHS, from 7.8 years among women and 8.5 years among men to 11.1 years among women and 11.3 years among men. Literacy, although remaining high among both women (61\%) and men (71\%), has decreased since 2014 (Table 3.3.1 and Table 3.3.2).

Figure 3.1 Education of survey respondents

Percent distribution of women and men age 15-49 by highest level of schooling attended or completed


## Maps 3.1 and 3.2 Secondary education by region

Percentage of women and men age 15-49 with secondary education complete or higher


### 3.3 Mass Media Exposure and Internet Usage

## Exposure to mass media

Respondents were asked how often they read a newspaper, listened to the radio, or watched television. Those who responded at least once a week are considered regularly exposed to that form of media.
Sample: Women and men age 15-49

## Use of the internet

Respondents were asked if they have ever used the internet from any device, if they used the internet in the last 12 months, and, if so, how often they used it during the last month.
Sample: Women and men age 15-49

Data on women's and men's exposure to mass media are essential in the development of educational programs and the dissemination of all types of information, particularly information about family planning and other important health topics. In Ghana, television is the most common form of mass media to which men and women are exposed. Sixty-two percent of women and $63 \%$ of men watch television at least once a week. One-fourth of women and men reported not accessing any of the three media ( $27 \%$ of women and $23 \%$ of men); only $2 \%$ of women and $5 \%$ of men accessed all three forms of mass media in the last week (Figure 3.2, Table 3.4.1, and Table 3.4.2).

Figure 3.2 Exposure to mass media
Percentage of women and men age 15-49 who are exposed to media on a weekly basis

- Women ■ Men

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The internet is a critical tool through which information is shared. Internet use includes accessing web pages, email, and social media. Close to 5 in 10 women ( $47 \%$ ) and about 6 out of 10 men ( $65 \%$ ) have used the internet at least once, and $43 \%$ of women and $62 \%$ of men used it in the last 12 months. Among those who used the internet in the last 12 months, most used it almost every day ( $64 \%$ of women and 75\% of men) (Figure 3.3, Table 3.5.1, and Table 3.5.2).

Figure 3.3 Internet usage by sex
Percentage of women and men age 15-49 who used the internet in the last 12 months
■ Women ■ Men

Trends: Women's exposure to all three types of media (newspaper, television, and radio) declined from 5\% in 2014 to $2 \%$ in 2022. The percentage of women who accessed none of the three types of media also declined, from $31 \%$ to $27 \%$. With the exception of television ( $51 \%$ in 2014 and $62 \%$ in 2022), exposure to media decreased between 2014 and 2022.

### 3.4 Employment



## Currently employed

Respondents who were employed in the 7 days before the survey.
Sample: Women and men age 15-49

Seventy-five percent of women and $83 \%$ of men age 15-49 are currently employed; $4 \%$ of women and $3 \%$ of men were employed in the last 12 months but are not currently employed, and $22 \%$ of women and $14 \%$ of men were not employed in the last 12 months (Figure 3.4, Table 3.6.1, and Table 3.6.2).

Trends: The percentage of respondents who are currently employed has increased slightly since 2014 , from $73 \%$ to $75 \%$ among women and from $82 \%$ to $83 \%$ among men.

Figure 3.4 Employment status by sex
Percentage of women and men age 15-49 who are currently employed
■ Women ■Men


### 3.5 Occupation

## Occupation

Categorized as professional/technical/managerial, clerical, sales and services, skilled manual, unskilled manual, domestic service, agriculture, and other.
Sample: Women and men age 15-49 who were currently employed or had worked in the 12 months before the survey

Among those who worked in the 12 months preceding the survey, $9 \%$ of women and $12 \%$ of men are employed in professional, technical, or managerial positions; $2 \%$ of both women and men are engaged in clerical work; $69 \%$ of women and $34 \%$ of men work in sales and services; $13 \%$ of women and $33 \%$ of men are engaged in skilled manual work; and $6 \%$ of women and $12 \%$ of men are employed in agricultural work (Figure 3.5, Table 3.7.1, and Table 3.7.2).

Fifty-seven percent of women and $73 \%$ of men who worked in the 12 months preceding the survey reported being paid in cash only; $17 \%$ and $9 \%$, respectively, are not paid for their work (Table 3.8.1 and Table 3.8.2). Women and men engaged in agricultural work are much more likely ( $33 \%$ and $30 \%$, respectively) than those working in nonagricultural occupations ( $16 \%$ and $6 \%$, respectively) to not be paid for their work.

In addition, $61 \%$ of women are self-employed, $25 \%$
are employed year-round (Table 3.8.1).
Trends: Sales and services has been the dominant occupation among women in Ghana since 1998. Fortysix percent of women worked in that sector in 1998, and the percentage subsequently increased to $51 \%$ in 2008 and 2014 and $69 \%$ in 2022.

### 3.6 Health Insurance Coverage

The National Health Insurance Scheme (NHIS) was introduced in 2003 through the National Health Insurance Act (Act 650), which was repealed and replaced by Act 852 in 2012 with the goal of removing financial barriers to health care access among the residents of Ghana.

National/district health insurance is the most common type of health insurance, covering $90 \%$ of women and $73 \%$ of men. One percent of both women and men have other employer-based insurance, less than $1 \%$ of women and men have mutual health organization/community-based insurance, and less than $1 \%$ of women and $1 \%$ of men have private insurance. Ten percent of women and $27 \%$ of men are neither registered nor covered under any scheme (Table 3.9.1 and Table 3.9.2).

### 3.7 Tobacco Use

Figure 3.6 Use of tobacco among women and men
Smoking is a risk factor for cardiovascular diseases and multiple forms of cancer. It contributes to the severity of pneumonia, emphysema, and chronic bronchitis symptoms. Through secondhand smoke, tobacco use affects the health status of all household members.

Percentage of women and men age
15-49 who use tobacco products
■ Women ■ Men

Overall, $1 \%$ of women and 4\% of men age 15-49 smoke cigarettes or any type of tobacco, and less than $1 \%$ of women and $1 \%$ of men smoke other forms of tobacco (Figure 3.6, Table 3.10.1, and Table 3.10.2). Sixty-four percent of men smoke less than five cigarettes per day, while $18 \%$ smoke five to
 nine cigarettes per day (Table 3.11). Use of any form of smokeless tobacco is also low (less than $1 \%$ among women and $1 \%$ among men) (Table 3.12). Overall, $1 \%$ of women and $5 \%$ of men age 15-49 use any type of tobacco (Table 3.13).

Trends: The percentage of men who use any type of tobacco declined from $8 \%$ in 2003 to 5\% in 2014 and 2022.

### 3.8 Alcohol Consumption

Alcohol intake in large amounts is associated with an increased risk of alcoholism, malnutrition, chronic pancreatitis, alcohol liver disease, and cancer. Maternal alcohol use in the prenatal period is also of concern as it may cause miscarriage and stillbirth and contribute to a range of lifelong physical, behavioural, and intellectual disabilities. These disabilities are known as foetal alcohol spectrum disorders (CDC 2018).

Fourteen percent of women and $30 \%$ of men age 15-49 consumed any alcohol in the last month. Eighty percent of women and $64 \%$ of men who consumed alcohol did so $1-5$ days during the preceding month. Only $6 \%$ of women and $12 \%$ of men consumed alcohol every day or almost every day (Table 3.14.1 and Table 3.14.2).

Among respondents who drank any alcohol in the previous month, $58 \%$ of women and $43 \%$ of men consumed one drink on days when alcohol was consumed, $20 \%$ of women and $23 \%$ of men consumed two drinks, and $9 \%$ of women and $14 \%$ of men consumed six or more drinks (Table 3.15.1 and Table 3.15.2).

### 3.9 Place of Birth and Recent Migration

## Recent migration

Percentage of respondents who were born outside of their current place of residence and moved to their current place of residence in the 5 years preceding the survey.
Sample: Women and men age 15-49 who were born outside their current place of residence

Migration is linked with global issues including economic growth, poverty, and human rights. Thirty-two percent of women and $48 \%$ of men report that they have always lived in their current place of residence. Among the $66 \%$ of women and $50 \%$ of men who were born in Ghana but outside of their current place of residence, $40 \%$ of women and $34 \%$ of men moved to their current place of residence in the last 5 years
(Table 3.16.1 and Table 3.16.2).

### 3.9.1 Type of Migration

Table 3.17 shows that most women and men who moved to their current place of residence in the 5 years before the survey moved from an urban area to another urban area ( $53 \%$ and $56 \%$, respectively). The next most common type of migration is urban to rural ( $24 \%$ and $31 \%$, respectively).

### 3.9.2 Reason for Migration

Women and men mostly migrate for family-related reasons ( $45 \%$ and $46 \%$, respectively). Twenty-eight percent of women migrate because of marriage, and $37 \%$ of men migrate for employment-related reasons (Table 3.18.1 and Table 3.18.2).

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Table 3.1 Background characteristics of respondents
Percent distribution of women and men age 15-49 by selected background characteristics, Ghana DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Age |  |  |  |  |  |  |
| 15-19 | 17.9 | 2,682 | 2,835 | 22.7 | 1,424 | 1,430 |
| 20-24 | 17.9 | 2,695 | 2,669 | 16.5 | 1,033 | 1,023 |
| 25-29 | 15.6 | 2,340 | 2,386 | 14.1 | 888 | 882 |
| 30-34 | 15.0 | 2,252 | 2,228 | 13.6 | 853 | 899 |
| 35-39 | 13.7 | 2,059 | 2,021 | 12.9 | 809 | 806 |
| 40-44 | 11.2 | 1,675 | 1,646 | 11.4 | 713 | 711 |
| 45-49 | 8.7 | 1,312 | 1,229 | 8.9 | 557 | 542 |
| Self-reported health status |  |  |  |  |  |  |
| Very good | 31.2 | 4,680 | 4,879 | 31.3 | 1,965 | 1,788 |
| Good | 45.7 | 6,862 | 6,934 | 46.0 | 2,887 | 3,075 |
| Moderate | 19.7 | 2,957 | 2,648 | 19.4 | 1,216 | 1,187 |
| Bad | 3.0 | 451 | 480 | 3.1 | 192 | 222 |
| Very bad | 0.4 | 63 | 73 | 0.3 | 18 | 21 |
| Religion |  |  |  |  |  |  |
| Catholic | 9.1 | 1,367 | 1,669 | 8.1 | 508 | 676 |
| Anglican | 0.8 | 125 | 110 | 0.8 | 52 | 38 |
| Methodist | 5.0 | 751 | 567 | 5.5 | 346 | 244 |
| Presbyterian | 5.6 | 840 | 707 | 5.5 | 347 | 283 |
| Pentecostal/Charismatic | 41.6 | 6,251 | 5,366 | 35.0 | 2,199 | 1,793 |
| Other Christian | 14.6 | 2,197 | 2,011 | 15.4 | 965 | 856 |
| Islam | 19.4 | 2,906 | 3,994 | 21.1 | 1,322 | 1,808 |
| Traditional/spiritualist | 1.8 | 277 | 305 | 3.7 | 235 | 289 |
| No religion | 1.9 | 280 | 268 | 4.8 | 300 | 302 |
| Other | 0.1 | 20 | 17 | 0.1 | 4 | 4 |
| Ethnic group |  |  |  |  |  |  |
| Akan | 46.1 | 6,917 | 5,217 | 46.0 | 2,887 | 2,146 |
| $\mathrm{Ga} /$ Dangme | 6.5 | 976 | 593 | 7.3 | 456 | 288 |
| Ewe | 11.6 | 1,746 | 1,641 | 10.9 | 687 | 662 |
| Guan | 3.2 | 476 | 697 | 3.5 | 223 | 314 |
| Mole-Dagbani | 18.6 | 2,789 | 4,024 | 18.4 | 1,155 | 1,646 |
| Grusi | 3.5 | 533 | 747 | 3.3 | 209 | 318 |
| Gurma | 6.7 | 1,013 | 1,484 | 6.7 | 422 | 615 |
| Mande | 3.0 | 445 | 479 | 2.6 | 161 | 212 |
| Other | 0.8 | 119 | 132 | 1.2 | 77 | 92 |
| Marital status |  |  |  |  |  |  |
| Never married | 35.1 | 5,268 | 4,916 | 51.1 | 3,208 | 3,024 |
| Married | 40.0 | 6,008 | 6,884 | 37.8 | 2,374 | 2,603 |
| Living together | 14.6 | 2,197 | 1,927 | 7.2 | 454 | 417 |
| Divorced/separated | 7.8 | 1,175 | 960 | 3.6 | 224 | 229 |
| Widowed | 2.4 | 367 | 327 | 0.3 | 18 | 20 |
| Residence |  |  |  |  |  |  |
| Urban | 57.0 | 8,557 | 7,362 | 54.8 | 3,442 | 2,925 |
| Rural | 43.0 | 6,457 | 7,652 | 45.2 | 2,835 | 3,368 |
| Region |  |  |  |  |  |  |
| Western | 6.4 | 955 | 797 | 6.6 | 414 | 345 |
| Central | 11.3 | 1,703 | 979 | 10.9 | 686 | 396 |
| Greater Accra | 15.5 | 2,327 | 969 | 17.2 | 1,076 | 438 |
| Volta | 4.7 | 713 | 837 | 3.7 | 235 | 285 |
| Eastern | 8.1 | 1,220 | 854 | 7.4 | 466 | 325 |
| Ashanti | 19.5 | 2,928 | 1,131 | 18.8 | 1,179 | 438 |
| Western North | 2.7 | 411 | 792 | 2.9 | 181 | 351 |
| Ahafo | 2.1 | 317 | 849 | 2.1 | 133 | 359 |
| Bono | 3.8 | 567 | 835 | 3.5 | 222 | 324 |
| Bono East | 4.5 | 676 | 974 | 5.0 | 316 | 461 |
| Oti | 2.7 | 403 | 921 | 3.0 | 187 | 411 |
| Northern | 7.7 | 1,149 | 1,169 | 7.7 | 484 | 491 |
| Savannah | 2.1 | 319 | 999 | 2.5 | 155 | 490 |
| North East | 1.9 | 290 | 963 | 1.9 | 119 | 386 |
| Upper East | 4.3 | 640 | 987 | 4.3 | 267 | 415 |
| Upper West | 2.7 | 398 | 958 | 2.5 | 155 | 378 |
| Education |  |  |  |  |  |  |
| No education | 16.1 | 2,411 | 3,357 | 10.0 | 628 | 938 |
| Primary | 13.8 | 2,071 | 2,245 | 11.5 | 725 | 833 |
| Secondary | 59.9 | 8,999 | 8,111 | 63.6 | 3,990 | 3,652 |
| More than secondary | 10.2 | 1,533 | 1,301 | 14.9 | 935 | 870 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 16.3 | 2,447 | 3,666 | 17.3 | 1,089 | 1,635 |
| Second | 18.1 | 2,712 | 3,366 | 18.0 | 1,133 | 1,391 |
| Middle | 20.8 | 3,121 | 3,008 | 18.1 | 1,137 | 1,176 |
| Fourth | 22.5 | 3,379 | 2,686 | 23.4 | 1,466 | 1,119 |
| Highest | 22.3 | 3,355 | 2,288 | 23.1 | 1,453 | 972 |

Continued..

| Table 3.1-Continued |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women |  |  | Men |  |  |
| Background characteristic | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Total 15-49 | 100.0 | 15,014 | 15,014 | 100.0 | 6,277 | 6,293 |
| 50-59 | na | na | na | na | 767 | 751 |
| Total 15-59 | na | na | na | na | 7,044 | 7,044 |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed. na $=$ not applicable

## Table 3.2.1 Educational attainment: Women

Percent distribution of women age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Highest level of schooling |  |  |  |  |  | Total | Median years completed | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 5.5 | 3.1 | 9.1 | 21.7 | 54.9 | 5.8 | 100.0 | 11.2 | 5,376 |
| 15-19 | 3.7 | 3.9 | 11.1 | 29.1 | 51.0 | 1.1 | 100.0 | 11.0 | 2,682 |
| 20-24 | 7.2 | 2.2 | 7.0 | 14.2 | 58.8 | 10.5 | 100.0 | 11.3 | 2,695 |
| 25-29 | 11.2 | 2.5 | 8.9 | 12.3 | 48.4 | 16.6 | 100.0 | 11.3 | 2,340 |
| 30-34 | 19.0 | 3.3 | 10.2 | 10.0 | 39.8 | 17.6 | 100.0 | 11.2 | 2,252 |
| 35-39 | 25.1 | 4.7 | 10.1 | 11.1 | 36.5 | 12.4 | 100.0 | 10.7 | 2,059 |
| 40-44 | 28.7 | 4.3 | 13.2 | 10.6 | 35.9 | 7.3 | 100.0 | 9.4 | 1,675 |
| 45-49 | 32.7 | 3.7 | 15.1 | 11.5 | 32.6 | 4.4 | 100.0 | 5.9 | 1,312 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 9.2 | 2.5 | 8.8 | 15.3 | 49.4 | 14.9 | 100.0 | 11.3 | 8,557 |
| Rural | 25.2 | 4.6 | 12.5 | 14.4 | 39.3 | 4.0 | 100.0 | 9.8 | 6,457 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 9.7 | 2.6 | 10.8 | 19.9 | 49.1 | 7.8 | 100.0 | 11.1 | 955 |
| Central | 7.4 | 5.1 | 10.9 | 26.2 | 42.6 | 7.8 | 100.0 | 11.0 | 1,703 |
| Greater Accra | 4.4 | 2.1 | 8.9 | 11.7 | 54.8 | 18.0 | 100.0 | 11.4 | 2,327 |
| Volta | 6.7 | 5.5 | 11.5 | 18.7 | 47.6 | 10.1 | 100.0 | 11.2 | 713 |
| Eastern | 7.8 | 4.7 | 11.9 | 15.7 | 50.3 | 9.5 | 100.0 | 11.2 | 1,220 |
| Ashanti | 9.0 | 2.3 | 8.9 | 12.3 | 56.0 | 11.5 | 100.0 | 11.3 | 2,928 |
| Western North | 14.0 | 4.8 | 10.2 | 21.8 | 41.7 | 7.6 | 100.0 | 10.9 | 411 |
| Ahafo | 17.5 | 3.3 | 8.6 | 21.9 | 43.7 | 5.1 | 100.0 | 10.9 | 317 |
| Bono | 11.8 | 2.9 | 7.9 | 20.9 | 46.3 | 10.2 | 100.0 | 11.1 | 567 |
| Bono East | 24.0 | 5.2 | 13.0 | 16.0 | 35.6 | 6.3 | 100.0 | 9.7 | 676 |
| Oti | 28.2 | 6.5 | 16.5 | 12.4 | 32.6 | 3.9 | 100.0 | 5.9 | 403 |
| Northern | 53.4 | 2.1 | 6.7 | 6.7 | 21.6 | 9.4 | 100.0 | a | 1,149 |
| Savannah | 46.9 | 4.2 | 17.1 | 6.0 | 22.5 | 3.3 | 100.0 | 3.9 | 319 |
| North East | 55.1 | 1.7 | 10.0 | 5.7 | 24.5 | 3.0 | 100.0 | a | 290 |
| Upper East | 25.9 | 3.7 | 13.6 | 9.6 | 38.0 | 9.1 | 100.0 | 10.1 | 640 |
| Upper West | 34.6 | 4.4 | 13.7 | 7.7 | 31.0 | 8.5 | 100.0 | 5.8 | 398 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 43.3 | 6.3 | 14.4 | 10.0 | 25.5 | 0.5 | 100.0 | 5.0 | 2,447 |
| Second | 24.6 | 4.7 | 13.9 | 16.6 | 39.1 | 1.1 | 100.0 | 9.6 | 2,712 |
| Middle | 11.7 | 4.1 | 12.6 | 18.6 | 50.2 | 2.8 | 100.0 | 11.1 | 3,121 |
| Fourth | 7.4 | 2.6 | 7.9 | 15.6 | 57.1 | 9.4 | 100.0 | 11.3 | 3,379 |
| Highest | 2.0 | 0.6 | 4.9 | 12.9 | 47.2 | 32.4 | 100.0 | 11.6 | 3,355 |
| Total | 16.1 | 3.4 | 10.4 | 14.9 | 45.0 | 10.2 | 100.0 | 11.1 | 15,014 |

[^9]Table 3.2.2 Educational attainment: Men
Percent distribution of men age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Highest level of schooling |  |  |  |  |  | Total | Median years completed | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some primary | Completed primary ${ }^{1}$ | Some secondary | Completed secondary ${ }^{2}$ | More than secondary |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 4.5 | 3.9 | 9.0 | 21.0 | 53.7 | 7.9 | 100.0 | 11.2 | 2,458 |
| 15-19 | 3.7 | 4.7 | 10.6 | 27.2 | 52.5 | 1.3 | 100.0 | 11.1 | 1,424 |
| 20-24 | 5.6 | 2.9 | 6.9 | 12.4 | 55.3 | 17.0 | 100.0 | 11.4 | 1,033 |
| 25-29 | 8.0 | 1.9 | 7.0 | 10.4 | 52.0 | 20.7 | 100.0 | 11.4 | 888 |
| 30-34 | 12.1 | 2.2 | 9.6 | 7.4 | 45.7 | 23.0 | 100.0 | 11.4 | 853 |
| 35-39 | 15.0 | 2.1 | 8.7 | 11.0 | 43.6 | 19.6 | 100.0 | 11.3 | 809 |
| 40-44 | 16.2 | 1.7 | 8.4 | 9.2 | 49.2 | 15.3 | 100.0 | 11.3 | 713 |
| 45-49 | 19.0 | 3.4 | 8.4 | 10.3 | 42.0 | 16.9 | 100.0 | 11.2 | 557 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.7 | 1.8 | 6.0 | 14.1 | 51.7 | 21.6 | 100.0 | 11.5 | 3,442 |
| Rural | 16.4 | 4.2 | 11.9 | 13.9 | 46.9 | 6.8 | 100.0 | 11.1 | 2,835 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 5.0 | 1.7 | 9.9 | 10.9 | 61.3 | 11.3 | 100.0 | 11.4 | 414 |
| Central | 3.7 | 5.9 | 5.8 | 21.2 | 50.6 | 13.0 | 100.0 | 11.3 | 686 |
| Greater Accra | 1.8 | 1.1 | 6.1 | 11.5 | 53.2 | 26.3 | 100.0 | 11.6 | 1,076 |
| Volta | 3.5 | 1.4 | 10.6 | 19.8 | 48.2 | 16.5 | 100.0 | 11.3 | 235 |
| Eastern | 3.7 | 4.9 | 8.8 | 18.6 | 50.7 | 13.4 | 100.0 | 11.3 | 466 |
| Ashanti | 4.1 | 0.8 | 7.4 | 13.6 | 63.6 | 10.5 | 100.0 | 11.4 | 1,179 |
| Western North | 4.9 | 1.9 | 12.2 | 19.9 | 50.8 | 10.3 | 100.0 | 11.2 | 181 |
| Ahafo | 9.3 | 1.4 | 8.6 | 16.2 | 53.4 | 11.0 | 100.0 | 11.3 | 133 |
| Bono | 7.6 | 3.2 | 8.1 | 17.8 | 45.1 | 18.3 | 100.0 | 11.3 | 222 |
| Bono East | 24.2 | 2.0 | 10.7 | 7.8 | 43.0 | 12.3 | 100.0 | 11.1 | 316 |
| Oti | 18.7 | 9.2 | 11.1 | 16.6 | 35.4 | 9.1 | 100.0 | 10.0 | 187 |
| Northern | 34.2 | 5.2 | 8.9 | 11.8 | 25.1 | 14.9 | 100.0 | 8.5 | 484 |
| Savannah | 38.1 | 2.4 | 12.7 | 6.8 | 30.9 | 9.1 | 100.0 | 5.7 | 155 |
| North East | 33.8 | 6.7 | 8.9 | 8.9 | 31.3 | 10.4 | 100.0 | 8.3 | 119 |
| Upper East | 12.7 | 2.9 | 16.4 | 9.0 | 42.9 | 16.0 | 100.0 | 11.2 | 267 |
| Upper West | 25.6 | 3.6 | 14.3 | 12.3 | 30.9 | 13.3 | 100.0 | 9.4 | 155 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 31.7 | 7.1 | 15.3 | 12.4 | 31.6 | 1.8 | 100.0 | 5.7 | 1,089 |
| Second | 14.3 | 4.2 | 12.8 | 18.1 | 46.1 | 4.5 | 100.0 | 11.0 | 1,133 |
| Middle | 6.1 | 3.3 | 10.4 | 16.8 | 55.1 | 8.3 | 100.0 | 11.2 | 1,137 |
| Fourth | 2.5 | 1.1 | 6.3 | 13.9 | 62.7 | 13.4 | 100.0 | 11.4 | 1,466 |
| Highest | 0.9 | 0.1 | 1.6 | 10.0 | 47.9 | 39.5 | 100.0 | 11.8 | 1,453 |
| Total 15-49 | 10.0 | 2.9 | 8.7 | 14.0 | 49.5 | 14.9 | 100.0 | 11.3 | 6,277 |
| 50-59 | 22.5 | 2.8 | 10.5 | 10.8 | 43.4 | 10.1 | 100.0 | 11.1 | 767 |
| Total 15-59 | 11.4 | 2.9 | 8.9 | 13.7 | 48.8 | 14.4 | 100.0 | 11.3 | 7,044 |

[^10]Table 3.3.1 Literacy: Women
Percent distribution of women age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Ghana DHS 2022

| Background characteristic | Higher than secondary schooling | No schooling, primary or secondary school |  |  |  |  | Total | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { literate }^{1} \end{gathered}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 5.8 | 58.8 | 14.2 | 20.9 | 0.2 | 0.0 | 100.0 | 78.9 | 5,376 |
| 15-19 | 1.1 | 66.2 | 15.1 | 17.3 | 0.2 | 0.0 | 100.0 | 82.4 | 2,682 |
| 20-24 | 10.5 | 51.4 | 13.3 | 24.4 | 0.2 | 0.0 | 100.0 | 75.3 | 2,695 |
| 25-29 | 16.6 | 38.1 | 13.0 | 31.9 | 0.4 | 0.0 | 100.0 | 67.7 | 2,340 |
| 30-34 | 17.6 | 27.0 | 12.8 | 42.2 | 0.4 | 0.0 | 100.0 | 57.4 | 2,252 |
| 35-39 | 12.4 | 24.8 | 10.9 | 51.5 | 0.4 | 0.0 | 100.0 | 48.1 | 2,059 |
| 40-44 | 7.3 | 18.0 | 11.5 | 62.9 | 0.0 | 0.3 | 100.0 | 36.8 | 1,675 |
| 45-49 | 4.4 | 17.3 | 9.0 | 69.0 | 0.1 | 0.1 | 100.0 | 30.7 | 1,312 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 14.9 | 44.2 | 12.4 | 28.1 | 0.3 | 0.1 | 100.0 | 71.5 | 8,557 |
| Rural | 4.0 | 29.8 | 12.9 | 53.1 | 0.2 | 0.0 | 100.0 | 46.6 | 6,457 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 7.8 | 41.5 | 16.0 | 34.6 | 0.0 | 0.0 | 100.0 | 65.4 | 955 |
| Central | 7.8 | 50.0 | 15.0 | 26.9 | 0.3 | 0.0 | 100.0 | 72.9 | 1,703 |
| Greater Accra | 18.0 | 50.0 | 11.2 | 20.5 | 0.2 | 0.1 | 100.0 | 79.2 | 2,327 |
| Volta | 10.1 | 51.5 | 10.4 | 26.3 | 1.4 | 0.3 | 100.0 | 72.0 | 713 |
| Eastern | 9.5 | 40.9 | 16.3 | 33.2 | 0.1 | 0.0 | 100.0 | 66.7 | 1,220 |
| Ashanti | 11.5 | 37.3 | 12.8 | 38.3 | 0.2 | 0.0 | 100.0 | 61.5 | 2,928 |
| Western North | 7.6 | 28.0 | 12.2 | 52.2 | 0.0 | 0.0 | 100.0 | 47.8 | 411 |
| Ahafo | 5.1 | 28.5 | 14.7 | 51.7 | 0.0 | 0.0 | 100.0 | 48.3 | 317 |
| Bono | 10.2 | 36.7 | 14.6 | 38.1 | 0.2 | 0.1 | 100.0 | 61.5 | 567 |
| Bono East | 6.3 | 28.6 | 10.1 | 54.7 | 0.4 | 0.0 | 100.0 | 44.9 | 676 |
| Oti | 3.9 | 26.4 | 10.4 | 57.8 | 1.0 | 0.4 | 100.0 | 40.8 | 403 |
| Northern | 9.4 | 15.7 | 9.0 | 65.9 | 0.0 | 0.0 | 100.0 | 34.1 | 1,149 |
| Savannah | 3.3 | 17.6 | 9.9 | 68.4 | 0.7 | 0.0 | 100.0 | 30.9 | 319 |
| North East | 3.0 | 15.8 | 8.4 | 72.0 | 0.8 | 0.0 | 100.0 | 27.2 | 290 |
| Upper East | 9.1 | 33.8 | 12.3 | 44.7 | 0.1 | 0.1 | 100.0 | 55.2 | 640 |
| Upper West | 8.5 | 29.7 | 12.8 | 48.6 | 0.3 | 0.1 | 100.0 | 51.0 | 398 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.5 | 18.2 | 10.0 | 71.0 | 0.3 | 0.0 | 100.0 | 28.7 | 2,447 |
| Second | 1.1 | 28.9 | 13.8 | 56.0 | 0.1 | 0.1 | 100.0 | 43.7 | 2,712 |
| Middle | 2.8 | 41.0 | 15.8 | 40.0 | 0.2 | 0.2 | 100.0 | 59.6 | 3,121 |
| Fourth | 9.4 | 49.6 | 13.2 | 27.5 | 0.3 | 0.0 | 100.0 | 72.1 | 3,379 |
| Highest | 32.4 | 45.1 | 10.1 | 12.0 | 0.4 | 0.0 | 100.0 | 87.7 | 3,355 |
| Total | 10.2 | 38.0 | 12.6 | 38.9 | 0.3 | 0.1 | 100.0 | 60.8 | 15,014 |

${ }^{1}$ Refers to women who attended schooling higher than the secondary level and women with less schooling who can read a whole sentence or part of a sentence

Table 3.3.2 Literacy: Men
Percent distribution of men age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Ghana DHS 2022

| Background characteristic | Higher than secondary schooling | No schooling, primary or secondary school |  |  |  |  | Total | $\begin{aligned} & \text { Percent- } \\ & \text { age } \\ & \text { literate }^{1} \end{aligned}$ | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 7.9 | 55.1 | 17.2 | 19.8 | 0.1 | 0.0 | 100.0 | 80.1 | 2,458 |
| 15-19 | 1.3 | 57.4 | 20.5 | 20.7 | 0.1 | 0.0 | 100.0 | 79.2 | 1,424 |
| 20-24 | 17.0 | 51.9 | 12.6 | 18.5 | 0.0 | 0.1 | 100.0 | 81.4 | 1,033 |
| 25-29 | 20.7 | 42.3 | 15.3 | 21.4 | 0.3 | 0.1 | 100.0 | 78.3 | 888 |
| 30-34 | 23.0 | 35.0 | 16.4 | 25.5 | 0.0 | 0.0 | 100.0 | 74.5 | 853 |
| 35-39 | 19.6 | 27.2 | 23.4 | 29.8 | 0.1 | 0.0 | 100.0 | 70.1 | 809 |
| 40-44 | 15.3 | 25.8 | 21.2 | 37.5 | 0.2 | 0.0 | 100.0 | 62.3 | 713 |
| 45-49 | 16.9 | 22.0 | 19.3 | 41.6 | 0.1 | 0.2 | 100.0 | 58.1 | 557 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 21.6 | 44.9 | 18.7 | 14.7 | 0.1 | 0.0 | 100.0 | 85.2 | 3,442 |
| Rural | 6.8 | 35.5 | 17.7 | 39.8 | 0.1 | 0.0 | 100.0 | 60.0 | 2,835 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 11.3 | 40.9 | 23.9 | 24.0 | 0.0 | 0.0 | 100.0 | 76.0 | 414 |
| Central | 13.0 | 45.6 | 15.6 | 25.9 | 0.0 | 0.0 | 100.0 | 74.1 | 686 |
| Greater Accra | 26.3 | 42.4 | 25.2 | 5.8 | 0.4 | 0.0 | 100.0 | 93.9 | 1,076 |
| Volta | 16.5 | 56.2 | 14.1 | 12.7 | 0.5 | 0.0 | 100.0 | 86.8 | 235 |
| Eastern | 13.4 | 46.0 | 13.4 | 27.2 | 0.0 | 0.0 | 100.0 | 72.8 | 466 |
| Ashanti | 10.5 | 49.3 | 17.1 | 23.2 | 0.0 | 0.0 | 100.0 | 76.8 | 1,179 |
| Western North | 10.3 | 35.7 | 28.6 | 25.5 | 0.0 | 0.0 | 100.0 | 74.5 | 181 |
| Ahafo | 11.0 | 45.0 | 14.1 | 29.9 | 0.0 | 0.0 | 100.0 | 70.1 | 133 |
| Bono | 18.3 | 37.2 | 20.7 | 23.9 | 0.0 | 0.0 | 100.0 | 76.1 | 222 |
| Bono East | 12.3 | 29.7 | 22.4 | 35.7 | 0.0 | 0.0 | 100.0 | 64.3 | 316 |
| Oti | 9.1 | 37.4 | 11.0 | 41.6 | 0.7 | 0.2 | 100.0 | 57.5 | 187 |
| Northern | 14.9 | 24.7 | 12.8 | 47.3 | 0.0 | 0.2 | 100.0 | 52.4 | 484 |
| Savannah | 9.1 | 26.4 | 15.5 | 48.6 | 0.0 | 0.4 | 100.0 | 51.0 | 155 |
| North East | 10.4 | 25.0 | 15.2 | 49.4 | 0.0 | 0.0 | 100.0 | 50.6 | 119 |
| Upper East | 16.0 | 31.7 | 15.7 | 36.3 | 0.0 | 0.2 | 100.0 | 63.5 | 267 |
| Upper West | 13.3 | 26.9 | 11.2 | 48.7 | 0.0 | 0.0 | 100.0 | 51.3 | 155 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 1.8 | 24.3 | 16.3 | 57.3 | 0.1 | 0.1 | 100.0 | 42.5 | 1,089 |
| Second | 4.5 | 36.7 | 18.1 | 40.6 | 0.0 | 0.1 | 100.0 | 59.3 | 1,133 |
| Middle | 8.3 | 44.5 | 22.2 | 24.7 | 0.1 | 0.1 | 100.0 | 75.1 | 1,137 |
| Fourth | 13.4 | 50.8 | 20.8 | 15.0 | 0.1 | 0.0 | 100.0 | 84.9 | 1,466 |
| Highest | 39.5 | 42.8 | 14.2 | 3.4 | 0.2 | 0.0 | 100.0 | 96.4 | 1,453 |
| Total 15-49 | 14.9 | 40.7 | 18.3 | 26.0 | 0.1 | 0.0 | 100.0 | 73.8 | 6,277 |
| 50-59 | 10.1 | 24.4 | 19.6 | 45.1 | 0.0 | 0.9 | 100.0 | 54.0 | 767 |
| Total 15-59 | 14.4 | 38.9 | 18.4 | 28.1 | 0.1 | 0.1 | 100.0 | 71.7 | 7,044 |

${ }^{1}$ Refers to men who attended schooling higher than the secondary level and men with less schooling who can read a whole sentence or part of a sentence

Table 3.4.1 Exposure to mass media: Women
Percentage of women age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Ghana DHS 2022

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 15-19 | 5.0 | 61.9 | 34.7 | 1.9 | 29.1 | 2,682 |
| 20-24 | 3.8 | 60.4 | 38.5 | 1.7 | 28.0 | 2,695 |
| 25-29 | 3.8 | 66.8 | 41.1 | 2.3 | 23.8 | 2,340 |
| 30-34 | 3.9 | 65.7 | 44.7 | 2.5 | 24.5 | 2,252 |
| 35-39 | 2.2 | 62.7 | 47.4 | 1.4 | 25.7 | 2,059 |
| 40-44 | 2.8 | 59.0 | 48.9 | 2.1 | 28.4 | 1,675 |
| 45-49 | 2.6 | 48.8 | 46.8 | 1.9 | 34.6 | 1,312 |
| Residence |  |  |  |  |  |  |
| Urban | 5.0 | 73.0 | 45.3 | 2.8 | 19.1 | 8,557 |
| Rural | 1.7 | 46.4 | 38.3 | 0.9 | 38.3 | 6,457 |
| Region |  |  |  |  |  |  |
| Western | 3.5 | 69.3 | 51.2 | 1.7 | 19.3 | 955 |
| Central | 5.3 | 73.5 | 46.0 | 2.1 | 17.7 | 1,703 |
| Greater Accra | 7.6 | 82.8 | 47.6 | 4.7 | 13.4 | 2,327 |
| Volta | 4.1 | 56.8 | 50.3 | 2.8 | 27.0 | 713 |
| Eastern | 3.0 | 71.3 | 47.6 | 1.8 | 17.9 | 1,220 |
| Ashanti | 1.8 | 62.4 | 47.6 | 1.0 | 24.0 | 2,928 |
| Western North | 3.4 | 57.6 | 38.3 | 1.5 | 28.4 | 411 |
| Ahafo | 1.1 | 43.5 | 33.4 | 1.0 | 39.7 | 317 |
| Bono | 1.8 | 61.4 | 40.2 | 0.9 | 27.5 | 567 |
| Bono East | 3.7 | 51.8 | 32.3 | 1.9 | 37.3 | 676 |
| Oti | 2.2 | 53.0 | 44.3 | 1.1 | 30.0 | 403 |
| Northern | 1.8 | 41.0 | 19.1 | 1.0 | 53.8 | 1,149 |
| Savannah | 1.0 | 37.9 | 30.0 | 0.6 | 44.7 | 319 |
| North East | 1.3 | 38.7 | 28.6 | 0.7 | 45.3 | 290 |
| Upper East | 3.5 | 30.8 | 36.2 | 1.7 | 49.4 | 640 |
| Upper West | 1.8 | 29.3 | 29.2 | 1.0 | 53.1 | 398 |
| Education |  |  |  |  |  |  |
| No education | 0.2 | 33.1 | 29.2 | 0.1 | 52.2 | 2,411 |
| Primary | 0.7 | 54.7 | 38.0 | 0.1 | 32.6 | 2,071 |
| Secondary | 3.4 | 67.8 | 45.3 | 1.8 | 21.7 | 8,999 |
| More than secondary | 14.0 | 79.4 | 50.8 | 8.3 | 14.0 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 1.1 | 15.5 | 31.0 | 0.5 | 61.9 | 2,447 |
| Second | 1.8 | 46.7 | 36.7 | 0.5 | 38.1 | 2,712 |
| Middle | 1.4 | 67.4 | 40.3 | 0.7 | 22.8 | 3,121 |
| Fourth | 4.1 | 78.7 | 47.7 | 2.5 | 14.9 | 3,379 |
| Highest | 8.5 | 84.6 | 51.4 | 4.9 | 10.2 | 3,355 |
| Total | 3.6 | 61.6 | 42.3 | 2.0 | 27.3 | 15,014 |

Table 3.4.2 Exposure to mass media: Men
Percentage of men age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Ghana DHS 2022

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 15-19 | 5.5 | 62.1 | 34.3 | 3.4 | 29.0 | 1,424 |
| 20-24 | 8.6 | 61.1 | 48.2 | 5.8 | 25.2 | 1,033 |
| 25-29 | 9.0 | 64.9 | 51.8 | 5.0 | 22.4 | 888 |
| 30-34 | 8.7 | 67.4 | 54.4 | 5.5 | 18.7 | 853 |
| 35-39 | 7.8 | 66.7 | 61.6 | 5.9 | 17.6 | 809 |
| 40-44 | 8.1 | 62.7 | 59.2 | 5.8 | 18.4 | 713 |
| 45-49 | 8.0 | 57.8 | 66.0 | 6.4 | 21.0 | 557 |
| Residence |  |  |  |  |  |  |
| Urban | 9.2 | 71.7 | 51.6 | 6.0 | 18.2 | 3,442 |
| Rural | 6.0 | 53.2 | 50.1 | 4.1 | 28.0 | 2,835 |
| Region |  |  |  |  |  |  |
| Western | 36.1 | 86.3 | 76.3 | 31.9 | 6.5 | 414 |
| Central | 4.3 | 65.4 | 47.5 | 2.0 | 18.8 | 686 |
| Greater Accra | 7.2 | 74.2 | 58.7 | 4.4 | 14.3 | 1,076 |
| Volta | 9.3 | 69.6 | 60.6 | 4.8 | 16.6 | 235 |
| Eastern | 4.5 | 75.9 | 46.4 | 3.3 | 15.0 | 466 |
| Ashanti | 7.1 | 65.3 | 52.8 | 4.2 | 21.9 | 1,179 |
| Western North | 2.6 | 53.0 | 54.3 | 2.3 | 27.0 | 181 |
| Ahafo | 3.0 | 43.5 | 54.3 | 0.9 | 29.6 | 133 |
| Bono | 8.3 | 66.1 | 47.4 | 4.1 | 19.4 | 222 |
| Bono East | 2.6 | 46.6 | 31.2 | 2.3 | 44.0 | 316 |
| Oti | 5.2 | 56.7 | 50.5 | 2.5 | 25.7 | 187 |
| Northern | 6.4 | 49.5 | 42.8 | 3.2 | 31.6 | 484 |
| Savannah | 3.6 | 42.1 | 35.1 | 1.5 | 41.5 | 155 |
| North East | 4.9 | 43.4 | 37.8 | 3.6 | 41.6 | 119 |
| Upper East | 4.4 | 47.2 | 42.4 | 2.0 | 31.0 | 267 |
| Upper West | 2.6 | 30.0 | 34.5 | 0.9 | 49.5 | 155 |
| Education |  |  |  |  |  |  |
| No education | 0.5 | 33.1 | 40.5 | 0.0 | 44.8 | 628 |
| Primary | 0.7 | 48.9 | 48.4 | 0.4 | 32.2 | 725 |
| Secondary | 7.0 | 68.1 | 52.3 | 5.1 | 19.8 | 3,990 |
| More than secondary | 21.5 | 74.4 | 54.4 | 12.7 | 12.7 | 935 |
| Wealth quintile 1.5080 |  |  |  |  |  |  |
| Lowest | 1.5 | 24.3 | 42.6 | 0.5 | 46.6 | 1,089 |
| Second | 5.5 | 58.4 | 46.2 | 4.0 | 27.6 | 1,133 |
| Middle | 5.9 | 69.4 | 54.1 | 3.2 | 17.6 | 1,137 |
| Fourth | 9.4 | 76.6 | 57.1 | 6.4 | 13.6 | 1,466 |
| Highest | 14.0 | 78.3 | 52.1 | 9.9 | 14.0 | 1,453 |
| Total 15-49 | 7.8 | 63.3 | 50.9 | 5.2 | 22.7 | 6,277 |
| 50-59 | 7.7 | 52.7 | 64.5 | 6.3 | 24.0 | 767 |
| Total 15-59 | 7.7 | 62.2 | 52.4 | 5.3 | 22.8 | 7,044 |

Table 3.5.1 Internet usage: Women
Percentage of women age 15-49 who have ever used the internet and percentage who have used the internet in the last 12 months, and among women who have used the internet in the last 12 months, percent distribution by frequency of internet use in the last month, according to background characteristics, Ghana DHS 2022

| Background characteristic | Ever used the internet | Used the internet in the last 12 months | Number | Among respondents who have used the internet in the last 12 months, percentage who, in the last month, used the internet: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Almost every day | At least once a week | Less than once a week | Not at all | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 40.1 | 35.7 | 2,682 | 56.0 | 27.6 | 12.1 | 4.3 | 100.0 | 957 |
| 20-24 | 62.9 | 58.9 | 2,695 | 69.6 | 21.0 | 6.2 | 3.2 | 100.0 | 1,588 |
| 25-29 | 58.1 | 54.9 | 2,340 | 67.7 | 21.7 | 6.7 | 3.9 | 100.0 | 1,284 |
| 30-34 | 49.9 | 47.6 | 2,252 | 67.4 | 24.1 | 5.7 | 2.8 | 100.0 | 1,073 |
| 35-39 | 41.4 | 38.4 | 2,059 | 62.4 | 24.6 | 10.6 | 2.4 | 100.0 | 790 |
| 40-44 | 32.2 | 29.8 | 1,675 | 56.4 | 28.6 | 10.0 | 5.0 | 100.0 | 500 |
| 45-49 | 26.1 | 23.8 | 1,312 | 51.6 | 30.7 | 14.0 | 3.8 | 100.0 | 313 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 60.7 | 57.8 | 8,557 | 67.0 | 23.1 | 6.8 | 3.0 | 100.0 | 4,950 |
| Rural | 27.8 | 24.1 | 6,457 | 54.9 | 27.3 | 12.9 | 4.9 | 100.0 | 1,555 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 50.9 | 47.7 | 955 | 58.4 | 23.6 | 13.5 | 4.5 | 100.0 | 455 |
| Central | 51.4 | 46.7 | 1,703 | 62.7 | 20.5 | 10.2 | 6.7 | 100.0 | 794 |
| Greater Accra | 69.3 | 67.8 | 2,327 | 72.3 | 21.7 | 3.9 | 2.2 | 100.0 | 1,578 |
| Volta | 38.8 | 36.4 | 713 | 65.3 | 24.5 | 7.0 | 3.2 | 100.0 | 259 |
| Eastern | 42.0 | 40.0 | 1,220 | 75.9 | 15.2 | 5.8 | 3.0 | 100.0 | 488 |
| Ashanti | 57.2 | 52.0 | 2,928 | 60.1 | 29.6 | 7.4 | 2.9 | 100.0 | 1,522 |
| Western North | 32.1 | 28.5 | 411 | 57.0 | 25.5 | 11.7 | 5.7 | 100.0 | 117 |
| Ahafo | 34.6 | 31.1 | 317 | 40.0 | 39.4 | 19.9 | 0.7 | 100.0 | 98 |
| Bono | 45.3 | 41.7 | 567 | 63.6 | 24.3 | 8.1 | 4.0 | 100.0 | 237 |
| Bono East | 32.7 | 30.5 | 676 | 64.0 | 26.9 | 8.1 | 0.9 | 100.0 | 206 |
| Oti | 18.8 | 17.8 | 403 | 61.4 | 30.9 | 5.9 | 1.8 | 100.0 | 72 |
| Northern | 31.5 | 28.1 | 1,149 | 54.0 | 20.6 | 20.7 | 4.8 | 100.0 | 323 |
| Savannah | 16.8 | 15.3 | 319 | 52.4 | 32.2 | 13.6 | 1.8 | 100.0 | 49 |
| North East | 13.5 | 11.7 | 290 | 57.3 | 35.9 | 6.8 | 0.0 | 100.0 | 34 |
| Upper East | 33.0 | 30.1 | 640 | 64.0 | 20.4 | 10.6 | 5.0 | 100.0 | 192 |
| Upper West | 22.4 | 20.3 | 398 | 46.5 | 37.6 | 8.5 | 7.3 | 100.0 | 81 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 12.2 | 11.0 | 2,411 | 29.2 | 38.0 | 26.4 | 6.4 | 100.0 | 264 |
| Primary | 20.8 | 17.9 | 2,071 | 44.8 | 31.6 | 17.5 | 6.1 | 100.0 | 370 |
| Secondary | 53.0 | 48.9 | 8,999 | 59.8 | 27.4 | 8.8 | 4.0 | 100.0 | 4,396 |
| More than secondary | 97.0 | 96.2 | 1,533 | 88.0 | 10.0 | 1.3 | 0.8 | 100.0 | 1,474 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 11.3 | 8.8 | 2,447 | 39.7 | 28.2 | 21.9 | 10.3 | 100.0 | 215 |
| Second | 24.2 | 21.1 | 2,712 | 48.5 | 32.9 | 13.7 | 5.0 | 100.0 | 571 |
| Middle | 39.5 | 35.6 | 3,121 | 51.5 | 31.0 | 12.0 | 5.5 | 100.0 | 1,112 |
| Fourth | 60.5 | 56.8 | 3,379 | 61.9 | 26.0 | 9.2 | 2.9 | 100.0 | 1,918 |
| Highest | 82.7 | 80.1 | 3,355 | 76.2 | 17.7 | 3.9 | 2.2 | 100.0 | 2,689 |
| Total | 46.5 | 43.3 | 15,014 | 64.1 | 24.1 | 8.3 | 3.5 | 100.0 | 6,505 |

Table 3.5.2 Internet usage: Men
Percentage of men age 15-49 who have ever used the internet and percentage who have used the internet in the last 12 months, and among men who have used the internet in the last 12 months, percent distribution by frequency of internet use in the last month, according to background characteristics, Ghana DHS 2022

| Background characteristic | Ever used the internet | Used the internet in the last 12 months | Number | Among respondents who have used the internet in the last 12 months, percentage who, in the last month, used the internet: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Almost every day | At least once a week | Less than once a week | Not at all | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 56.8 | 50.2 | 1,424 | 61.1 | 26.2 | 10.0 | 2.7 | 100.0 | 715 |
| 20-24 | 81.7 | 79.2 | 1,033 | 76.8 | 14.0 | 7.6 | 1.6 | 100.0 | 818 |
| 25-29 | 79.5 | 76.3 | 888 | 83.3 | 12.0 | 3.6 | 1.1 | 100.0 | 677 |
| 30-34 | 71.4 | 68.3 | 853 | 78.7 | 16.3 | 2.7 | 2.3 | 100.0 | 582 |
| 35-39 | 61.9 | 59.6 | 809 | 78.9 | 16.0 | 4.0 | 1.0 | 100.0 | 482 |
| 40-44 | 52.3 | 50.7 | 713 | 70.1 | 23.9 | 4.9 | 1.1 | 100.0 | 362 |
| 45-49 | 43.2 | 40.9 | 557 | 71.5 | 20.9 | 5.8 | 1.9 | 100.0 | 228 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 77.2 | 74.4 | 3,442 | 81.2 | 13.7 | 4.2 | 0.9 | 100.0 | 2,560 |
| Rural | 50.3 | 46.0 | 2,835 | 61.8 | 26.1 | 8.8 | 3.2 | 100.0 | 1,304 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 69.8 | 66.4 | 414 | 84.0 | 11.0 | 2.6 | 2.4 | 100.0 | 275 |
| Central | 60.0 | 57.9 | 686 | 66.8 | 25.4 | 6.7 | 1.0 | 100.0 | 398 |
| Greater Accra | 84.7 | 82.1 | 1,076 | 89.0 | 9.2 | 1.8 | 0.0 | 100.0 | 884 |
| Volta | 68.4 | 66.3 | 235 | 73.1 | 17.9 | 2.0 | 7.0 | 100.0 | 156 |
| Eastern | 59.7 | 59.2 | 466 | 70.1 | 14.8 | 15.1 | 0.0 | 100.0 | 276 |
| Ashanti | 75.0 | 68.6 | 1,179 | 71.6 | 22.4 | 6.0 | 0.0 | 100.0 | 809 |
| Western North | 60.5 | 59.1 | 181 | 51.2 | 28.2 | 20.7 | 0.0 | 100.0 | 107 |
| Ahafo | 50.0 | 46.6 | 133 | 71.5 | 20.0 | 3.7 | 4.7 | 100.0 | 62 |
| Bono | 66.6 | 62.0 | 222 | 72.3 | 18.1 | 9.0 | 0.6 | 100.0 | 138 |
| Bono East | 54.8 | 52.8 | 316 | 76.6 | 20.5 | 1.5 | 1.3 | 100.0 | 167 |
| Oti | 53.9 | 49.4 | 187 | 50.7 | 29.9 | 8.5 | 10.9 | 100.0 | 92 |
| Northern | 44.7 | 39.6 | 484 | 70.9 | 18.0 | 5.4 | 5.7 | 100.0 | 192 |
| Savannah | 41.2 | 38.1 | 155 | 63.8 | 21.1 | 5.3 | 9.8 | 100.0 | 59 |
| North East | 37.9 | 37.1 | 119 | 86.2 | 11.6 | 0.4 | 1.8 | 100.0 | 44 |
| Upper East | 58.7 | 54.2 | 267 | 67.9 | 21.5 | 5.4 | 5.3 | 100.0 | 145 |
| Upper West | 42.8 | 39.5 | 155 | 52.0 | 23.6 | 18.5 | 5.9 | 100.0 | 61 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 24.4 | 22.0 | 628 | 54.8 | 32.0 | 7.5 | 5.7 | 100.0 | 138 |
| Primary | 36.3 | 31.5 | 725 | 62.4 | 21.4 | 14.5 | 1.8 | 100.0 | 229 |
| Secondary | 69.2 | 65.0 | 3,990 | 70.7 | 20.8 | 6.6 | 2.0 | 100.0 | 2,593 |
| More than secondary | 97.0 | 96.8 | 935 | 92.2 | 6.3 | 1.1 | 0.4 | 100.0 | 905 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 31.4 | 27.8 | 1,089 | 50.2 | 30.6 | 13.2 | 6.0 | 100.0 | 303 |
| Second | 49.0 | 43.9 | 1,133 | 60.0 | 25.7 | 11.0 | 3.4 | 100.0 | 497 |
| Middle | 62.7 | 59.0 | 1,137 | 67.0 | 22.2 | 8.5 | 2.3 | 100.0 | 670 |
| Fourth | 77.8 | 74.7 | 1,466 | 76.7 | 17.4 | 4.8 | 1.0 | 100.0 | 1,095 |
| Highest | 91.7 | 89.3 | 1,453 | 88.1 | 10.0 | 1.5 | 0.4 | 100.0 | 1,298 |
| Total 15-49 | 65.0 | 61.6 | 6,277 | 74.7 | 17.9 | 5.8 | 1.7 | 100.0 | 3,864 |
| 50-59 | 30.8 | 29.0 | 767 | 62.9 | 22.1 | 14.0 | 1.0 | 100.0 | 223 |
| Total 15-59 | 61.3 | 58.0 | 7,044 | 74.0 | 18.1 | 6.2 | 1.7 | 100.0 | 4,087 |

Table 3.6.1 Employment status: Women
Percent distribution of women age 15-49 by employment status, according to background characteristics, Ghana DHS 2022

| Background characteristic | Employed in the 12 months preceding the survey |  | Not employed in the 12 months preceding the survey | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Currently employed ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 37.5 | 3.0 | 59.4 | 100.0 | 2,682 |
| 20-24 | 65.0 | 5.1 | 29.9 | 100.0 | 2,695 |
| 25-29 | 80.3 | 4.5 | 15.1 | 100.0 | 2,340 |
| 30-34 | 87.6 | 3.9 | 8.6 | 100.0 | 2,252 |
| 35-39 | 89.3 | 3.0 | 7.7 | 100.0 | 2,059 |
| 40-44 | 92.4 | 2.2 | 5.5 | 100.0 | 1,675 |
| 45-49 | 92.1 | 2.0 | 5.9 | 100.0 | 1,312 |
| Marital status |  |  |  |  |  |
| Never married | 54.9 | 3.7 | 41.3 | 100.0 | 5,268 |
| Married or living together | 84.6 | 3.4 | 12.0 | 100.0 | 8,205 |
| Divorced/separated/ widowed | 88.9 | 4.0 | 7.1 | 100.0 | 1,542 |
| Number of living children |  |  |  |  |  |
| 0 | 53.9 | 3.6 | 42.4 | 100.0 | 4,925 |
| 1-2 | 78.9 | 4.4 | 16.7 | 100.0 | 4,598 |
| 3-4 | 88.7 | 3.0 | 8.2 | 100.0 | 3,391 |
| $5+$ | 91.0 | 2.5 | 6.5 | 100.0 | 2,100 |
| Residence |  |  |  |  |  |
| Urban | 73.0 | 3.6 | 23.4 | 100.0 | 8,557 |
| Rural | 76.8 | 3.5 | 19.7 | 100.0 | 6,457 |
| Region |  |  |  |  |  |
| Western | 76.7 | 2.7 | 20.7 | 100.0 | 955 |
| Central | 75.8 | 4.4 | 19.8 | 100.0 | 1,703 |
| Greater Accra | 70.1 | 4.0 | 25.9 | 100.0 | 2,327 |
| Volta | 74.9 | 3.7 | 21.4 | 100.0 | 713 |
| Eastern | 73.2 | 2.1 | 24.7 | 100.0 | 1,220 |
| Ashanti | 79.4 | 2.4 | 18.3 | 100.0 | 2,928 |
| Western North | 79.5 | 4.3 | 16.2 | 100.0 | 411 |
| Ahafo | 64.9 | 7.9 | 27.2 | 100.0 | 317 |
| Bono | 75.3 | 3.1 | 21.7 | 100.0 | 567 |
| Bono East | 71.2 | 3.2 | 25.5 | 100.0 | 676 |
| Oti | 80.0 | 4.4 | 15.6 | 100.0 | 403 |
| Northern | 74.6 | 3.5 | 21.8 | 100.0 | 1,149 |
| Savannah | 64.0 | 5.3 | 30.6 | 100.0 | 319 |
| North East | 70.7 | 5.6 | 23.6 | 100.0 | 290 |
| Upper East | 78.7 | 3.2 | 18.1 | 100.0 | 640 |
| Upper West | 67.3 | 6.9 | 25.8 | 100.0 | 398 |
| Education |  |  |  |  |  |
| No education | 84.2 | 3.1 | 12.7 | 100.0 | 2,411 |
| Primary | 79.3 | 3.7 | 17.0 | 100.0 | 2,071 |
| Secondary | 70.5 | 3.5 | 26.0 | 100.0 | 8,999 |
| More than secondary | 77.7 | 4.4 | 17.9 | 100.0 | 1,533 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 75.9 | 3.9 | 20.2 | 100.0 | 2,447 |
| Second | 74.2 | 4.1 | 21.7 | 100.0 | 2,712 |
| Middle | 73.8 | 3.5 | 22.7 | 100.0 | 3,121 |
| Fourth | 74.8 | 3.7 | 21.5 | 100.0 | 3,379 |
| Highest | 74.7 | 2.9 | 22.4 | 100.0 | 3,355 |
| Total | 74.6 | 3.6 | 21.8 | 100.0 | 15,014 |

[^11] last 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Table 3.6.2 Employment status: Men
Percent distribution of men age 15-49 by employment status, according to background characteristics, Ghana DHS 2022

| Background characteristic | Employed in the 12 months preceding the survey |  | Not employed in the 12 months preceding the survey | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Currently employed ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 49.2 | 6.1 | 44.7 | 100.0 | 1,424 |
| 20-24 | 77.3 | 5.2 | 17.5 | 100.0 | 1,033 |
| 25-29 | 93.9 | 1.8 | 4.3 | 100.0 | 888 |
| 30-34 | 95.7 | 2.4 | 1.9 | 100.0 | 853 |
| 35-39 | 98.6 | 0.7 | 0.7 | 100.0 | 809 |
| 40-44 | 98.6 | 0.2 | 1.3 | 100.0 | 713 |
| 45-49 | 97.1 | 0.8 | 2.1 | 100.0 | 557 |
| Marital status |  |  |  |  |  |
| Never married | 67.8 | 5.0 | 27.2 | 100.0 | 3,208 |
| Married or living together | 98.6 | 0.9 | 0.5 | 100.0 | 2,828 |
| Divorced/separated/ widowed | 93.3 | 1.2 | 5.5 | 100.0 | 242 |
| Number of living children |  |  |  |  |  |
| 0 | 68.3 | 5.0 | 26.7 | 100.0 | 3,270 |
| 1-2 | 98.0 | 1.1 | 1.0 | 100.0 | 1,356 |
| 3-4 | 98.8 | 0.7 | 0.4 | 100.0 | 1,014 |
| 5+ | 98.2 | 0.7 | 1.1 | 100.0 | 636 |
| Residence |  |  |  |  |  |
| Urban | 80.3 | 3.5 | 16.2 | 100.0 | 3,442 |
| Rural | 85.6 | 2.4 | 12.0 | 100.0 | 2,835 |
| Region |  |  |  |  |  |
| Western | 73.5 | 4.6 | 21.9 | 100.0 | 414 |
| Central | 75.5 | 2.7 | 21.8 | 100.0 | 686 |
| Greater Accra | 82.9 | 3.4 | 13.6 | 100.0 | 1,076 |
| Volta | 78.0 | 3.6 | 18.4 | 100.0 | 235 |
| Eastern | 85.3 | 0.9 | 13.8 | 100.0 | 466 |
| Ashanti | 83.2 | 4.0 | 12.8 | 100.0 | 1,179 |
| Western North | 85.5 | 2.0 | 12.5 | 100.0 | 181 |
| Ahafo | 82.3 | 1.1 | 16.6 | 100.0 | 133 |
| Bono | 77.0 | 2.8 | 20.2 | 100.0 | 222 |
| Bono East | 90.5 | 0.9 | 8.6 | 100.0 | 316 |
| Oti | 89.2 | 5.6 | 5.2 | 100.0 | 187 |
| Northern | 89.4 | 2.3 | 8.3 | 100.0 | 484 |
| Savannah | 84.7 | 4.5 | 10.8 | 100.0 | 155 |
| North East | 91.5 | 0.4 | 8.2 | 100.0 | 119 |
| Upper East | 81.2 | 1.7 | 17.1 | 100.0 | 267 |
| Upper West | 86.3 | 4.6 | 9.1 | 100.0 | 155 |
| Education |  |  |  |  |  |
| No education | 96.2 | 1.3 | 2.5 | 100.0 | 628 |
| Primary | 85.5 | 2.2 | 12.3 | 100.0 | 725 |
| Secondary | 80.0 | 3.2 | 16.8 | 100.0 | 3,990 |
| More than secondary | 82.9 | 3.8 | 13.3 | 100.0 | 935 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 89.0 | 1.5 | 9.5 | 100.0 | 1,089 |
| Second | 81.6 | 3.0 | 15.3 | 100.0 | 1,133 |
| Middle | 82.9 | 4.1 | 13.0 | 100.0 | 1,137 |
| Fourth | 81.7 | 3.0 | 15.3 | 100.0 | 1,466 |
| Highest | 79.7 | 3.2 | 17.1 | 100.0 | 1,453 |
| Total 15-49 | 82.7 | 3.0 | 14.3 | 100.0 | 6,277 |
| 50-59 | 96.4 | 1.8 | 1.8 | 100.0 | 767 |
| Total 15-59 | 84.2 | 2.9 | 13.0 | 100.0 | 7,044 |

${ }^{1}$ Currently employed is defined as having done work in the last 7 days. Includes persons who did not work in the last 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Table 3.7.1 Occupation: Women
Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Ghana DHS 2022

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Agriculture | Other | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 3.0 | 1.0 | 57.6 | 15.8 | 1.0 | 18.3 | 3.4 | 100.0 | 1,088 |
| 20-24 | 7.4 | 3.7 | 58.0 | 22.0 | 1.3 | 6.2 | 1.5 | 100.0 | 1,889 |
| 25-29 | 11.3 | 3.8 | 63.4 | 16.4 | 0.8 | 4.0 | 0.3 | 100.0 | 1,986 |
| 30-34 | 12.4 | 1.2 | 68.7 | 11.6 | 0.9 | 4.2 | 0.9 | 100.0 | 2,059 |
| 35-39 | 10.5 | 1.3 | 73.6 | 9.7 | 0.6 | 3.9 | 0.5 | 100.0 | 1,901 |
| 40-44 | 5.6 | 0.5 | 81.4 | 8.3 | 0.3 | 3.6 | 0.3 | 100.0 | 1,583 |
| 45-49 | 5.1 | 0.5 | 83.8 | 5.6 | 0.8 | 3.9 | 0.3 | 100.0 | 1,235 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 11.1 | 4.1 | 56.2 | 16.4 | 1.0 | 8.9 | 2.3 | 100.0 | 3,090 |
| Married or living together | 8.1 | 1.2 | 72.6 | 12.5 | 0.5 | 4.8 | 0.4 | 100.0 | 7,218 |
| Divorced/separated/ widowed | 5.4 | 0.7 | 79.7 | 9.0 | 1.9 | 2.9 | 0.5 | 100.0 | 1,433 |
| Number of living children |  |  |  |  |  |  |  |  |  |
| 0 | 13.7 | 3.9 | 51.4 | 18.0 | 1.0 | 9.4 | 2.6 | 100.0 | 2,835 |
| 1-2 | 10.3 | 2.2 | 66.4 | 15.7 | 0.9 | 4.0 | 0.6 | 100.0 | 3,830 |
| 3-4 | 6.2 | 0.8 | 77.6 | 10.5 | 0.8 | 3.9 | 0.2 | 100.0 | 3,113 |
| $5+$ | 1.4 | 0.2 | 86.7 | 5.0 | 0.3 | 6.0 | 0.4 | 100.0 | 1,963 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 11.6 | 2.7 | 67.9 | 13.7 | 0.7 | 2.2 | 1.2 | 100.0 | 6,553 |
| Rural | 4.7 | 0.8 | 70.7 | 12.3 | 0.9 | 10.0 | 0.6 | 100.0 | 5,188 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 8.9 | 1.8 | 69.3 | 14.7 | 1.1 | 4.1 | 0.2 | 100.0 | 757 |
| Central | 6.8 | 1.3 | 73.6 | 12.9 | 1.0 | 3.1 | 1.2 | 100.0 | 1,365 |
| Greater Accra | 13.1 | 2.5 | 70.0 | 11.1 | 1.1 | 1.2 | 1.0 | 100.0 | 1,725 |
| Volta | 10.4 | 1.3 | 70.6 | 13.7 | 0.3 | 2.7 | 1.0 | 100.0 | 560 |
| Eastern | 10.5 | 1.6 | 72.4 | 14.4 | 0.3 | 0.4 | 0.3 | 100.0 | 919 |
| Ashanti | 8.6 | 2.9 | 71.4 | 11.8 | 1.5 | 3.0 | 0.8 | 100.0 | 2,393 |
| Western North | 5.8 | 1.2 | 60.2 | 14.4 | 0.8 | 17.3 | 0.3 | 100.0 | 344 |
| Ahafo | 4.4 | 1.6 | 70.6 | 11.7 | 0.9 | 9.8 | 1.1 | 100.0 | 231 |
| Bono | 9.7 | 2.3 | 63.5 | 13.2 | 0.5 | 7.6 | 3.1 | 100.0 | 444 |
| Bono East | 6.2 | 2.4 | 60.6 | 11.9 | 0.0 | 18.5 | 0.4 | 100.0 | 503 |
| Oti | 4.7 | 0.6 | 81.9 | 7.9 | 0.0 | 4.5 | 0.4 | 100.0 | 340 |
| Northern | 6.5 | 0.9 | 62.9 | 13.0 | 0.2 | 15.7 | 0.8 | 100.0 | 898 |
| Savannah | 3.1 | 0.8 | 64.8 | 14.3 | 0.7 | 16.1 | 0.2 | 100.0 | 222 |
| North East | 2.3 | 0.7 | 77.4 | 12.6 | 0.1 | 6.5 | 0.3 | 100.0 | 221 |
| Upper East | 8.8 | 1.5 | 58.5 | 20.7 | 0.1 | 7.6 | 2.8 | 100.0 | 524 |
| Upper West | 7.0 | 1.6 | 64.2 | 19.8 | 0.2 | 6.6 | 0.6 | 100.0 | 295 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 0.6 | 0.0 | 80.7 | 8.0 | 0.4 | 10.0 | 0.2 | 100.0 | 2,104 |
| Primary | 0.2 | 0.0 | 78.7 | 12.7 | 1.3 | 6.5 | 0.6 | 100.0 | 1,719 |
| Secondary | 3.8 | 2.2 | 71.2 | 16.2 | 0.9 | 4.7 | 0.9 | 100.0 | 6,660 |
| More than secondary | 58.1 | 5.9 | 25.9 | 5.6 | 0.1 | 1.7 | 2.6 | 100.0 | 1,259 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.7 | 0.1 | 71.1 | 11.1 | 0.5 | 15.9 | 0.5 | 100.0 | 1,952 |
| Second | 1.5 | 0.6 | 75.0 | 12.7 | 0.4 | 9.0 | 0.8 | 100.0 | 2,124 |
| Middle | 4.5 | 1.3 | 72.1 | 16.3 | 1.8 | 3.4 | 0.6 | 100.0 | 2,412 |
| Fourth | 8.2 | 3.2 | 71.9 | 13.3 | 0.8 | 1.8 | 0.8 | 100.0 | 2,652 |
| Highest | 24.3 | 3.5 | 57.4 | 11.7 | 0.4 | 1.2 | 1.7 | 100.0 | 2,602 |
| Total | 8.6 | 1.9 | 69.1 | 13.1 | 0.8 | 5.6 | 0.9 | 100.0 | 11,741 |

Table 3.7.2 Occupation: Men
Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Ghana DHS 2022

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Agriculture | Other | Total | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.2 | 0.1 | 35.3 | 27.2 | 8.9 | 23.9 | 2.4 | 100.0 | 787 |
| 20-24 | 9.2 | 2.8 | 30.9 | 34.5 | 7.6 | 13.2 | 1.7 | 100.0 | 852 |
| 25-29 | 17.0 | 3.0 | 25.7 | 36.6 | 6.5 | 10.1 | 1.1 | 100.0 | 849 |
| 30-34 | 16.2 | 2.3 | 31.1 | 36.0 | 4.0 | 9.6 | 0.9 | 100.0 | 837 |
| 35-39 | 14.3 | 2.2 | 36.2 | 34.4 | 3.6 | 8.1 | 1.1 | 100.0 | 803 |
| 40-44 | 10.9 | 1.9 | 40.9 | 32.5 | 2.4 | 10.9 | 0.6 | 100.0 | 704 |
| 45-49 | 16.0 | 0.5 | 41.3 | 29.5 | 2.7 | 9.6 | 0.4 | 100.0 | 545 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 12.0 | 2.5 | 30.6 | 32.0 | 6.9 | 14.0 | 2.0 | 100.0 | 2,337 |
| Married or living together | 12.8 | 1.5 | 35.8 | 34.8 | 3.8 | 10.8 | 0.5 | 100.0 | 2,813 |
| Divorced/separated/ widowed | 6.2 | 1.4 | 44.8 | 26.0 | 7.2 | 12.9 | 1.5 | 100.0 | 228 |
| Number of living children |  |  |  |  |  |  |  |  |  |
| 0 | 12.2 | 2.3 | 30.3 | 32.7 | 6.5 | 14.6 | 1.6 | 100.0 | 2,396 |
| 1-2 | 13.7 | 3.0 | 30.4 | 36.3 | 5.5 | 9.3 | 1.8 | 100.0 | 1,343 |
| 3-4 | 13.3 | 0.8 | 37.6 | 36.8 | 3.2 | 7.9 | 0.3 | 100.0 | 1,010 |
| 5+ | 7.0 | 0.3 | 49.4 | 23.0 | 3.1 | 17.1 | 0.1 | 100.0 | 629 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 16.6 | 2.7 | 25.5 | 43.3 | 4.8 | 5.4 | 1.7 | 100.0 | 2,883 |
| Rural | 7.0 | 1.1 | 43.6 | 21.6 | 5.8 | 20.2 | 0.7 | 100.0 | 2,496 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 10.3 | 1.5 | 35.9 | 36.2 | 10.0 | 5.1 | 1.0 | 100.0 | 324 |
| Central | 11.0 | 2.8 | 27.3 | 42.7 | 7.4 | 8.5 | 0.5 | 100.0 | 537 |
| Greater Accra | 18.1 | 1.8 | 24.2 | 47.6 | 5.4 | 1.2 | 1.8 | 100.0 | 930 |
| Volta | 14.3 | 4.5 | 36.4 | 33.3 | 0.6 | 8.7 | 2.1 | 100.0 | 192 |
| Eastern | 9.9 | 4.3 | 30.9 | 29.4 | 4.6 | 17.9 | 3.1 | 100.0 | 401 |
| Ashanti | 13.0 | 1.9 | 33.0 | 40.1 | 8.2 | 3.4 | 0.5 | 100.0 | 1,028 |
| Western North | 7.7 | 1.1 | 29.7 | 21.7 | 5.9 | 33.3 | 0.7 | 100.0 | 158 |
| Ahafo | 7.1 | 1.8 | 50.7 | 30.3 | 2.5 | 7.1 | 0.4 | 100.0 | 111 |
| Bono | 14.9 | 1.8 | 43.2 | 26.3 | 2.4 | 7.2 | 4.2 | 100.0 | 177 |
| Bono East | 9.7 | 1.5 | 44.7 | 16.6 | 2.1 | 24.3 | 1.1 | 100.0 | 289 |
| Oti | 8.4 | 1.0 | 39.9 | 17.7 | 0.7 | 31.2 | 1.1 | 100.0 | 177 |
| Northern | 9.4 | 0.9 | 28.9 | 20.7 | 0.7 | 39.1 | 0.3 | 100.0 | 444 |
| Savannah | 7.8 | 0.7 | 53.3 | 17.2 | 2.0 | 17.8 | 1.2 | 100.0 | 139 |
| North East | 8.9 | 0.7 | 39.8 | 11.5 | 1.8 | 37.1 | 0.4 | 100.0 | 109 |
| Upper East | 13.3 | 1.2 | 41.4 | 25.9 | 8.3 | 8.8 | 1.1 | 100.0 | 221 |
| Upper West | 8.8 | 1.2 | 61.9 | 17.5 | 5.1 | 5.5 | 0.0 | 100.0 | 141 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 0.4 | 0.0 | 50.9 | 14.5 | 2.6 | 31.5 | 0.1 | 100.0 | 612 |
| Primary | 1.0 | 0.1 | 41.8 | 33.4 | 6.0 | 16.8 | 0.8 | 100.0 | 636 |
| Secondary | 5.8 | 1.5 | 32.9 | 41.3 | 6.7 | 10.5 | 1.2 | 100.0 | 3,320 |
| More than secondary | 55.8 | 6.7 | 19.0 | 14.0 | 0.7 | 1.7 | 2.2 | 100.0 | 810 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 1.4 | 0.6 | 53.2 | 10.0 | 3.2 | 31.2 | 0.4 | 100.0 | 985 |
| Second | 4.2 | 0.5 | 42.2 | 27.2 | 5.1 | 19.8 | 1.0 | 100.0 | 959 |
| Middle | 7.0 | 1.4 | 31.2 | 41.9 | 9.3 | 7.6 | 1.5 | 100.0 | 989 |
| Fourth | 12.8 | 3.0 | 24.6 | 46.3 | 6.8 | 5.3 | 1.2 | 100.0 | 1,241 |
| Highest | 30.9 | 3.4 | 23.4 | 36.4 | 2.1 | 1.9 | 1.8 | 100.0 | 1,204 |
| Total 15-49 | 12.2 | 1.9 | 33.9 | 33.2 | 5.3 | 12.3 ' | 1.2 | 100.0 | 5,378 |
| 50-59 | 9.2 | 0.9 | 54.7 | 22.6 | 3.5 | 8.8 | 0.4 | 100.0 | 754 |
| Total 15-59 | 11.8 | 1.8 | 36.5 | 31.9 | 5.0 | 11.9 | 1.1 | 100.0 | 6,132 |

## Table 3.8.1 Type of employment: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by type of earnings, type of employer, and continuity of employment, according to type of employment (agricultural or nonagricultural), Ghana DHS 2022

| Employment <br> characteristic | Agricultural <br> work | Nonagricultural <br> work | Total |
| :--- | :---: | ---: | ---: |
| Type of earnings |  |  |  |
| Cash only | 22.8 | 59.1 | 57.0 |
| Cash and in-kind | 19.0 | 20.2 | 4.6 |
| In-kind only | 24.9 | 16.2 | 5.8 |
| $\quad$ Not paid | 33.3 | 100.0 | 17.1 |
| Total | 100.0 |  | 100.0 |
| Type of employer |  | 11.7 |  |
| $\quad$ Employed by family member | 55.9 | 24.9 | 14.2 |
| Employed by non-family member | 20.7 | 63.4 | 24.7 |
| Self-employed | 23.4 | 100.0 | 61.1 |
| Total | 100.0 |  | 100.0 |
| Continuity of employment |  | 81.1 |  |
| $\quad$ All year | 49.5 | 14.3 | 79.3 |
| Seasonal | 31.2 | 4.6 | 15.2 |
| $\quad$ Occasional | 19.3 | 100.0 | 5.4 |
| Total | 100.0 |  | 11,081 |
| Number of women employed |  |  |  |
| during the last 12 months |  |  |  |

Note: Total includes women with missing information on type of employment who are not shown separately.

## Table 3.8.2 Type of employment: Men

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by type of earnings and continuity of employment, according to type of employment (agricultural or nonagricultural), Ghana DHS 2022

| Employment <br> characteristic | Agricultural <br> work | Nonagricultural <br> work | Total |
| :--- | :---: | ---: | ---: |
| Type of earnings |  |  |  |
| Cash only | 32.7 | 78.8 | 73.3 |
| Cash and in-kind | 29.5 | 12.5 | 14.5 |
| In-kind only | 7.6 | 2.5 | 3.1 |
| Not paid | 30.2 | 6.2 | 9.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Continuity of employment |  |  |  |
| $\quad$ All year | 44.2 | 72.9 | 69.5 |
| Seasonal | 42.6 | 22.0 | 7.9 |
| Occasional | 13.2 | 100.0 | 100.0 |
| Total | 100.0 | 5,405 | 6,132 |
| Number of men employed during |  | 727 |  |
| the last 12 months |  |  |  |
| Note: Total includes men with missing information on type of employment who are not shown separately. |  |  |  |

Table 3.9.1 Health insurance coverage: Women
Percentage of women age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Ghana DHS 2022

| Background characteristic | National/ district health insurance | Other employerbased insurance | Mutual health organization/ communitybased insurance | Privately purchased commercial insurance | None | Any health insurance | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |
| 15-19 | 85.8 | 0.5 | 0.1 | 0.1 | 14.1 | 85.9 | 2,682 |
| 20-24 | 90.6 | 0.3 | 0.0 | 0.2 | 9.4 | 90.6 | 2,695 |
| 25-29 | 91.2 | 1.0 | 0.6 | 0.3 | 8.2 | 91.8 | 2,340 |
| 30-34 | 91.9 | 1.7 | 0.4 | 0.8 | 7.7 | 92.3 | 2,252 |
| 35-39 | 91.3 | 1.5 | 0.2 | 0.6 | 7.9 | 92.1 | 2,059 |
| 40-44 | 90.5 | 1.5 | 0.2 | 0.4 | 8.9 | 91.1 | 1,675 |
| 45-49 | 86.5 | 1.1 | 0.2 | 0.4 | 13.2 | 86.8 | 1,312 |
| Residence |  |  |  |  |  |  |  |
| Urban | 90.3 | 1.5 | 0.3 | 0.5 | 9.2 | 90.8 | 8,557 |
| Rural | 89.1 | 0.4 | 0.1 | 0.2 | 10.8 | 89.2 | 6,457 |
| Region |  |  |  |  |  |  |  |
| Western | 88.2 | 0.9 | 0.4 | 0.3 | 11.6 | 88.4 | 955 |
| Central | 83.3 | 0.3 | 0.1 | 0.2 | 16.5 | 83.5 | 1,703 |
| Greater Accra | 85.2 | 3.7 | 0.6 | 0.3 | 13.4 | 86.6 | 2,327 |
| Volta | 93.2 | 0.1 | 0.5 | 0.2 | 6.8 | 93.2 | 713 |
| Eastern | 93.1 | 1.0 | 0.4 | 0.6 | 6.7 | 93.3 | 1,220 |
| Ashanti | 92.3 | 1.0 | 0.1 | 0.7 | 7.5 | 92.5 | 2,928 |
| Western North | 91.2 | 0.3 | 0.0 | 0.5 | 8.7 | 91.3 | 411 |
| Ahafo | 94.9 | 0.6 | 0.0 | 0.7 | 4.7 | 95.3 | 317 |
| Bono | 98.5 | 0.3 | 0.0 | 0.9 | 1.5 | 98.5 | 567 |
| Bono East | 93.2 | 0.0 | 0.2 | 0.0 | 6.8 | 93.2 | 676 |
| Oti | 84.1 | 0.2 | 0.0 | 0.1 | 15.9 | 84.1 | 403 |
| Northern | 86.6 | 0.6 | 0.2 | 0.3 | 12.7 | 87.3 | 1,149 |
| Savannah | 85.8 | 0.0 | 0.0 | 0.0 | 14.2 | 85.8 | 319 |
| North East | 92.7 | 0.0 | 0.0 | 0.0 | 7.3 | 92.7 | 290 |
| Upper East | 96.8 | 0.2 | 0.0 | 0.1 | 3.2 | 96.8 | 640 |
| Upper West | 93.3 | 0.1 | 0.1 | 0.4 | 6.7 | 93.3 | 398 |
| Education |  |  |  |  |  |  |  |
| No education | 87.1 | 0.0 | 0.1 | 0.1 | 12.8 | 87.2 | 2,411 |
| Primary | 86.7 | 0.1 | 0.2 | 0.1 | 13.1 | 86.9 | 2,071 |
| Secondary | 90.7 | 0.8 | 0.1 | 0.1 | 9.1 | 90.9 | 8,999 |
| More than secondary | 92.7 | 5.2 | 1.2 | 2.9 | 5.5 | 94.5 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 87.1 | 0.0 | 0.0 | 0.1 | 12.8 | 87.2 | 2,447 |
| Second | 89.1 | 0.0 | 0.0 | 0.0 | 10.9 | 89.1 | 2,712 |
| Middle | 89.3 | 0.2 | 0.0 | 0.0 | 10.4 | 89.6 | 3,121 |
| Fourth | 90.3 | 0.6 | 0.2 | 0.3 | 9.4 | 90.6 | 3,379 |
| Highest | 92.1 | 3.8 | 0.8 | 1.3 | 6.9 | 93.1 | 3,355 |
| Total | 89.8 | 1.0 | 0.2 | 0.4 | 9.9 | 90.1 | 15,014 |

Table 3.9.2 Health insurance coverage: Men
Percentage of men age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Ghana DHS 2022

| Background characteristic | National/ district health insurance | Other employerbased insurance | Mutual health organization/ communitybased insurance | Privately purchased commercial insurance | None | Any health insurance | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |
| 15-19 | 84.5 | 0.0 | 0.0 | 0.2 | 15.5 | 84.5 | 1,424 |
| 20-24 | 79.2 | 0.2 | 0.2 | 0.2 | 20.5 | 79.5 | 1,033 |
| 25-29 | 67.4 | 1.2 | 0.1 | 1.1 | 32.3 | 67.7 | 888 |
| 30-34 | 66.6 | 0.4 | 0.4 | 0.9 | 32.5 | 67.5 | 853 |
| 35-39 | 63.8 | 2.9 | 0.1 | 2.0 | 33.0 | 67.0 | 809 |
| 40-44 | 61.7 | 1.1 | 0.4 | 1.8 | 37.4 | 62.6 | 713 |
| 45-49 | 73.6 | 3.3 | 0.0 | 1.1 | 25.3 | 74.7 | 557 |
| Residence |  |  |  |  |  |  |  |
| Urban | 75.8 | 1.8 | 0.1 | 1.5 | 22.8 | 77.2 | 3,442 |
| Rural | 68.6 | 0.1 | 0.2 | 0.2 | 31.2 | 68.8 | 2,835 |
| Region |  |  |  |  |  |  |  |
| Western | 75.1 | 0.1 | 0.0 | 0.3 | 24.8 | 75.2 | 414 |
| Central | 59.5 | 0.3 | 0.0 | 0.5 | 40.2 | 59.8 | 686 |
| Greater Accra | 65.0 | 3.6 | 0.2 | 3.7 | 32.2 | 67.8 | 1,076 |
| Volta | 80.1 | 1.6 | 0.0 | 0.0 | 19.9 | 80.1 | 235 |
| Eastern | 75.0 | 0.3 | 0.0 | 0.6 | 24.8 | 75.2 | 466 |
| Ashanti | 76.9 | 1.2 | 0.0 | 0.4 | 22.2 | 77.8 | 1,179 |
| Western North | 82.1 | 0.7 | 0.5 | 0.4 | 17.9 | 82.1 | 181 |
| Ahafo | 78.3 | 0.5 | 0.2 | 1.2 | 21.2 | 78.8 | 133 |
| Bono | 75.9 | 0.8 | 0.9 | 0.8 | 22.5 | 77.5 | 222 |
| Bono East | 81.6 | 0.2 | 0.0 | 0.2 | 18.2 | 81.8 | 316 |
| Oti | 64.0 | 0.0 | 0.0 | 0.0 | 36.0 | 64.0 | 187 |
| Northern | 70.9 | 0.2 | 0.3 | 0.2 | 28.9 | 71.1 | 484 |
| Savannah | 67.2 | 0.1 | 0.3 | 0.0 | 32.8 | 67.2 | 155 |
| North East | 87.7 | 0.0 | 0.0 | 0.0 | 12.3 | 87.7 | 119 |
| Upper East | 85.7 | 0.0 | 0.9 | 0.0 | 13.9 | 86.1 | 267 |
| Upper West | 71.3 | 0.0 | 0.0 | 0.2 | 28.5 | 71.5 | 155 |
| Education |  |  |  |  |  |  |  |
| No education | 58.5 | 0.0 | 0.2 | 0.5 | 41.3 | 58.7 | 628 |
| Primary | 61.8 | 0.0 | 0.1 | 0.0 | 38.2 | 61.8 | 725 |
| Secondary | 74.3 | 0.5 | 0.1 | 0.5 | 25.2 | 74.8 | 3,990 |
| More than secondary | 82.9 | 4.7 | 0.4 | 3.8 | 13.8 | 86.2 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 64.8 | 0.0 | 0.2 | 0.0 | 35.1 | 64.9 | 1,089 |
| Second | 71.4 | 0.0 | 0.1 | 0.0 | 28.6 | 71.4 | 1,133 |
| Middle | 73.5 | 0.2 | 0.1 | 0.6 | 26.2 | 73.8 | 1,137 |
| Fourth | 73.8 | 0.9 | 0.1 | 0.3 | 25.8 | 74.2 | 1,466 |
| Highest | 77.3 | 3.5 | 0.2 | 3.2 | 19.9 | 80.1 | 1,453 |
| Total 15-49 | 72.6 | 1.0 | 0.2 | 0.9 | 26.6 | 73.4 | 6,277 |
| 50-59 | 72.4 | 2.3 | 0.6 | 1.4 | 26.5 | 73.5 | 767 |
| Total 15-59 | 72.5 | 1.2 | 0.2 | 1.0 | 26.6 | 73.4 | 7,044 |

Table 3.10.1 Tobacco smoking: Women
Percentage of women age 15-49 who smoke various tobacco products, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who smoke: ${ }^{1}$ |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes ${ }^{2}$ | Other type of tobacco ${ }^{3}$ | Any type of tobacco |  |
| Age |  |  |  |  |
| 15-19 | 0.7 | 0.1 | 0.7 | 2,682 |
| 20-24 | 1.0 | 0.5 | 1.1 | 2,695 |
| 25-29 | 1.0 | 0.1 | 1.1 | 2,340 |
| 30-34 | 1.1 | 0.1 | 1.1 | 2,252 |
| 35-39 | 1.3 | 0.1 | 1.3 | 2,059 |
| 40-44 | 0.6 | 0.1 | 0.7 | 1,675 |
| 45-49 | 0.2 | 0.1 | 0.2 | 1,312 |
| Residence |  |  |  |  |
| Urban | 1.1 | 0.2 | 1.1 | 8,557 |
| Rural | 0.6 | 0.2 | 0.7 | 6,457 |
| Region |  |  |  |  |
| Western | 0.4 | 0.1 | 0.4 | 955 |
| Central | 0.7 | 0.1 | 0.8 | 1,703 |
| Greater Accra | 0.6 | 0.3 | 0.6 | 2,327 |
| Volta | 0.4 | 0.3 | 0.4 | 713 |
| Eastern | 0.4 | 0.0 | 0.4 | 1,220 |
| Ashanti | 1.8 | 0.0 | 1.8 | 2,928 |
| Western North | 0.4 | 0.0 | 0.4 | 411 |
| Ahafo | 1.0 | 0.0 | 1.0 | 317 |
| Bono | 0.3 | 0.0 | 0.3 | 567 |
| Bono East | 0.5 | 0.0 | 0.5 | 676 |
| Oti | 0.1 | 0.0 | 0.1 | 403 |
| Northern | 1.5 | 0.7 | 2.1 | 1,149 |
| Savannah | 0.4 | 0.0 | 0.4 | 319 |
| North East | 0.4 | 0.1 | 0.4 | 290 |
| Upper East | 1.3 | 0.6 | 1.3 | 640 |
| Upper West | 0.6 | 0.1 | 0.6 | 398 |
| Education |  |  |  |  |
| No education | 1.1 | 0.4 | 1.3 | 2,411 |
| Primary | 0.7 | 0.1 | 0.7 | 2,071 |
| Secondary | 0.9 | 0.1 | 0.9 | 8,999 |
| More than secondary | 0.8 | 0.1 | 0.8 | 1,533 |
| Wealth quintile |  |  |  |  |
| Lowest | 0.9 | 0.4 | 1.1 | 2,447 |
| Second | 0.6 | 0.1 | 0.6 | 2,712 |
| Middle | 0.9 | 0.0 | 0.9 | 3,121 |
| Fourth | 0.9 | 0.1 | 0.9 | 3,379 |
| Highest | 1.1 | 0.2 | 1.2 | 3,355 |
| Total | 0.9 | 0.2 | 0.9 | 15,014 |

[^12]Table 3.10.2 Tobacco smoking: Men
Percentage of men age 15-49 who smoke various tobacco products, and percent distribution of men by smoking frequency, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who smoke: ${ }^{1}$ |  |  | Smoking frequency |  |  | Total | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes ${ }^{2}$ | Other type of tobacco ${ }^{3}$ | Any type of tobacco | Daily smoker | Occasional smoker ${ }^{4}$ | Nonsmoker |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 0.8 | 0.7 | 1.2 | 0.2 | 1.1 | 98.7 | 100.0 | 1,424 |
| 20-24 | 2.3 | 1.2 | 2.9 | 1.1 | 1.9 | 97.0 | 100.0 | 1,033 |
| 25-29 | 4.4 | 1.9 | 6.1 | 3.7 | 2.5 | 93.7 | 100.0 | 888 |
| 30-34 | 4.2 | 2.5 | 5.7 | 2.7 | 3.0 | 94.2 | 100.0 | 853 |
| 35-39 | 4.9 | 1.8 | 6.2 | 3.4 | 3.2 | 93.4 | 100.0 | 809 |
| 40-44 | 4.9 | 0.3 | 5.0 | 2.8 | 2.2 | 95.0 | 100.0 | 713 |
| 45-49 | 5.9 | 0.6 | 6.0 | 4.0 | 2.2 | 93.7 | 100.0 | 557 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 2.5 | 1.6 | 3.6 | 1.6 | 2.2 | 96.2 | 100.0 | 3,442 |
| Rural | 4.6 | 1.0 | 5.1 | 3.0 | 2.2 | 94.8 | 100.0 | 2,835 |
| Region |  |  |  |  |  |  |  |  |
| Western | 2.4 | 0.0 | 2.4 | 0.9 | 1.7 | 97.4 | 100.0 | 414 |
| Central | 3.0 | 1.8 | 3.0 | 0.5 | 2.9 | 96.7 | 100.0 | 686 |
| Greater Accra | 2.4 | 3.9 | 5.7 | 2.0 | 3.8 | 94.2 | 100.0 | 1,076 |
| Volta | 2.4 | 0.3 | 2.4 | 0.4 | 1.9 | 97.6 | 100.0 | 235 |
| Eastern | 1.6 | 0.9 | 2.2 | 1.1 | 1.2 | 97.8 | 100.0 | 466 |
| Ashanti | 3.5 | 0.5 | 4.1 | 2.4 | 1.6 | 95.9 | 100.0 | 1,179 |
| Western North | 7.8 | 1.8 | 9.3 | 2.8 | 6.5 | 90.7 | 100.0 | 181 |
| Ahafo | 4.6 | 0.9 | 4.9 | 2.6 | 2.3 | 95.1 | 100.0 | 133 |
| Bono | 2.7 | 0.6 | 3.3 | 2.5 | 0.8 | 96.7 | 100.0 | 222 |
| Bono East | 2.0 | 0.0 | 2.0 | 1.2 | 0.8 | 98.0 | 100.0 | 316 |
| Oti | 3.8 | 0.7 | 3.8 | 2.2 | 1.6 | 96.2 | 100.0 | 187 |
| Northern | 7.5 | 1.1 | 7.9 | 6.6 | 1.4 | 92.0 | 100.0 | 484 |
| Savannah | 7.1 | 0.6 | 7.2 | 4.3 | 2.9 | 92.8 | 100.0 | 155 |
| North East | 4.4 | 0.3 | 4.4 | 3.0 | 1.3 | 95.6 | 100.0 | 119 |
| Upper East | 3.0 | 1.0 | 3.6 | 3.7 | 0.8 | 95.6 | 100.0 | 267 |
| Upper West | 3.9 | 0.0 | 3.9 | 2.8 | 1.5 | 95.7 | 100.0 | 155 |
| Education |  |  |  |  |  |  |  |  |
| No education | 7.3 | 1.2 | 7.8 | 5.8 | 2.3 | 91.9 | 100.0 | 628 |
| Primary | 5.3 | 1.4 | 6.4 | 4.0 | 2.5 | 93.5 | 100.0 | 725 |
| Secondary | 3.0 | 1.3 | 3.9 | 1.7 | 2.3 | 96.0 | 100.0 | 3,990 |
| More than secondary | 1.5 | 1.1 | 1.9 | 0.9 | 1.2 | 98.0 | 100.0 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 6.4 | 0.9 | 6.7 | 4.1 | 2.8 | 93.1 | 100.0 | 1,089 |
| Second | 3.5 | 0.7 | 4.0 | 2.4 | 1.6 | 96.0 | 100.0 | 1,133 |
| Middle | 3.8 | 2.0 | 5.4 | 3.2 | 2.1 | 94.6 | 100.0 | 1,137 |
| Fourth | 3.1 | 1.8 | 4.5 | 1.8 | 3.0 | 95.2 | 100.0 | 1,466 |
| Highest | 1.3 | 1.0 | 1.8 | 0.5 | 1.4 | 98.1 | 100.0 | 1,453 |
| Total 15-49 | 3.5 | 1.3 | 4.3 | 2.2 | 2.2 | 95.6 | 100.0 | 6,277 |
| 50-59 | 6.6 | 0.8 | 6.6 | 4.6 | 2.1 | 93.3 | 100.0 | 767 |
| Total 15-59 | 3.8 | 1.2 | 4.6 | 2.5 | 2.2 | 95.3 | 100.0 | 7,044 |

[^13]Table 3.11 Average number of cigarettes smoked daily: Men
Among men age 15-49 who smoke cigarettes daily, percent distribution by average number of cigarettes smoked per day, Ghana DHS 2022

| Background characteristic | Average number of cigarettes smoked per day ${ }^{1}$ |  |  |  |  |  | Total | Number of respondents who smoke cigarettes daily ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <5 | 5-9 | 10-14 | 15-24 | $\geq 25$ | Don't know/ missing |  |  |
| Total 15-49 | 64.0 | 17.7 | 13.1 | 4.4 | 0.7 | 0.0 | 100.0 | 106 |
| 50-59 | (41.1) | (36.3) | (20.7) | (0.0) | (1.9) | (0.0) | 100.0 | 30 |
| Total 15-59 | 58.9 | 21.9 | 14.8 | 3.4 | 1.0 | 0.0 | 100.0 | 136 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks

## Table 3.12 Smokeless tobacco use and any tobacco use

Percentage of women and men age 15-49 who currently use smokeless tobacco, according to type of tobacco product, and percentage who use any type of tobacco, Ghana DHS 2022

| Tobacco product | Women | Men |
| :--- | :---: | ---: |
| Snuff by mouth | 0.1 | 0.3 |
| Snuff by nose | 0.0 | 1.0 |
| Chewing tobacco | 0.0 | 0.1 |
| Betel quid with tobacco | 0.0 | 0.1 |
| Other type of smokeless tobacco $^{\text {Any type of smokeless tobacco }} 1$ | 0.0 | 0.0 |
| Any type of tobacco |  |  |
| Number | 0.1 | 1.2 |

Note: Table includes women and men who use smokeless tobacco daily or occasionally (less than daily).
${ }^{1}$ Includes snuff by mouth, snuff by nose, chewing tobacco, and betel quid with tobacco
${ }_{2}$ Includes all types of smokeless tobacco shown in this table plus cigarettes, kreteks, pipes, cigars, cheroots, cigarillos, and water pipes

Table 3.13 Any tobacco use by background characteristics
Percentage of women and men age 15-49 who are currently using any type of tobacco, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage using any type of tobacco | Number of women | Percentage using any type of tobacco | Number of men |
| Age |  |  |  |  |
| 15-19 | 0.7 | 2,682 | 1.9 | 1,424 |
| 20-24 | 1.1 | 2,695 | 3.5 | 1,033 |
| 25-29 | 1.1 | 2,340 | 7.4 | 888 |
| 30-34 | 1.1 | 2,252 | 7.4 | 853 |
| 35-39 | 1.4 | 2,059 | 7.6 | 809 |
| 40-44 | 0.8 | 1,675 | 6.2 | 713 |
| 45-49 | 0.7 | 1,312 | 6.5 | 557 |
| Residence |  |  |  |  |
| Urban | 1.2 | 8,557 | 4.2 | 3,442 |
| Rural | 0.8 | 6,457 | 6.7 | 2,835 |
| Region |  |  |  |  |
| Western | 0.4 | 955 | 2.6 | 414 |
| Central | 0.8 | 1,703 | 3.8 | 686 |
| Greater Accra | 0.6 | 2,327 | 5.8 | 1,076 |
| Volta | 0.8 | 713 | 2.4 | 235 |
| Eastern | 0.4 | 1,220 | 2.6 | 466 |
| Ashanti | 1.8 | 2,928 | 5.9 | 1,179 |
| Western North | 0.4 | 411 | 14.1 | 181 |
| Ahafo | 1.0 | 317 | 6.2 | 133 |
| Bono | 0.3 | 567 | 4.1 | 222 |
| Bono East | 0.5 | 676 | 2.1 | 316 |
| Oti | 0.3 | 403 | 4.6 | 187 |
| Northern | 2.1 | 1,149 | 9.8 | 484 |
| Savannah | 0.4 | 319 | 7.7 | 155 |
| North East | 0.4 | 290 | 4.8 | 119 |
| Upper East | 1.3 | 640 | 5.0 | 267 |
| Upper West | 2.3 | 398 | 6.7 | 155 |
| Education |  |  |  |  |
| No education | 1.5 | 2,411 | 9.6 | 628 |
| Primary | 0.8 | 2,071 | 7.3 | 725 |
| Secondary | 0.9 | 8,999 | 5.0 | 3,990 |
| More than secondary | 0.8 | 1,533 | 2.2 | 935 |
| Wealth quintile |  |  |  |  |
| Lowest | 1.4 | 2,447 | 8.6 | 1,089 |
| Second | 0.7 | 2,712 | 4.8 | 1,133 |
| Middle | 0.9 | 3,121 | 6.7 | 1,137 |
| Fourth | 0.9 | 3,379 | 5.4 | 1,466 |
| Highest | 1.2 | 3,355 | 2.1 | 1,453 |
| Total 15-49 | 1.0 | 15,014 | 5.3 | 6,277 |
| 50-59 | na | na | 8.6 | 767 |
| Total 15-59 | na | na | 5.7 | 7,044 |

na $=$ not applicable

Table 3.14.1 Alcohol consumption: Women
Percentage of women age 15-49 who have consumed any alcohol in the last month, and among women who have consumed any alcohol in the last month, percent distribution by frequency of drinking (number of days alcohol was consumed), according to background characteristics, Ghana DHS 2022

| Background characteristic | Consumed any alcohol in the last month | Number of women | Among women who have consumed any alcohol in the last month, percent distribution by frequency of drinking: |  |  |  |  | Number of women who consumed any alcohol in the last month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $1-5$ days | 6-10 days | 11-24 days | Every day/almost every day ${ }^{1}$ | Total |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 9.6 | 2,682 | 91.6 | 3.0 | 2.9 | 2.5 | 100.0 | 256 |
| 20-24 | 12.2 | 2,695 | 91.2 | 3.7 | 2.7 | 2.4 | 100.0 | 328 |
| 25-29 | 13.0 | 2,340 | 80.3 | 11.3 | 4.4 | 3.9 | 100.0 | 304 |
| 30-34 | 15.1 | 2,252 | 80.1 | 12.5 | 2.4 | 5.0 | 100.0 | 339 |
| 35-39 | 13.9 | 2,059 | 75.0 | 13.3 | 3.5 | 8.2 | 100.0 | 287 |
| 40-44 | 18.5 | 1,675 | 66.7 | 15.5 | 9.8 | 8.0 | 100.0 | 310 |
| 45-49 | 16.3 | 1,312 | 74.1 | 7.6 | 7.1 | 11.1 | 100.0 | 214 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 13.3 | 8,557 | 79.6 | 10.7 | 5.6 | 4.1 | 100.0 | 1,137 |
| Rural | 13.9 | 6,457 | 80.5 | 8.6 | 3.3 | 7.6 | 100.0 | 901 |
| Region |  |  |  |  |  |  |  |  |
| Western | 11.7 | 955 | 73.7 | 12.1 | 7.6 | 6.6 | 100.0 | 112 |
| Central | 16.7 | 1,703 | 76.3 | 8.8 | 8.9 | 5.9 | 100.0 | 284 |
| Greater Accra | 16.6 | 2,327 | 75.4 | 15.4 | 5.8 | 3.4 | 100.0 | 387 |
| Volta | 17.9 | 713 | 82.3 | 3.6 | 2.3 | 11.8 | 100.0 | 127 |
| Eastern | 10.1 | 1,220 | 83.8 | 11.9 | 0.0 | 4.4 | 100.0 | 123 |
| Ashanti | 13.0 | 2,928 | 85.5 | 9.4 | 3.8 | 1.3 | 100.0 | 381 |
| Western North | 12.2 | 411 | 92.3 | 2.1 | 1.1 | 4.6 | 100.0 | 50 |
| Ahafo | 7.6 | 317 | 80.1 | 1.5 | 4.6 | 13.8 | 100.0 | 24 |
| Bono | 17.4 | 567 | 82.8 | 10.8 | 3.2 | 3.2 | 100.0 | 98 |
| Bono East | 15.7 | 676 | 85.0 | 8.5 | 2.3 | 4.2 | 100.0 | 106 |
| Oti | 10.1 | 403 | 65.0 | 5.3 | 15.7 | 14.1 | 100.0 | 41 |
| Northern | 10.8 | 1,149 | 81.7 | 9.9 | 0.0 | 8.4 | 100.0 | 124 |
| Savannah | 8.9 | 319 | 95.3 | 1.6 | 0.0 | 3.0 | 100.0 | 28 |
| North East | 4.3 | 290 | (48.1) | (2.3) | (0.0) | (49.6) | 100.0 | 13 |
| Upper East | 6.3 | 640 | 81.8 | 1.7 | 3.9 | 12.5 | 100.0 | 40 |
| Upper West | 24.8 | 398 | 75.6 | 8.7 | 4.7 | 11.0 | 100.0 | 99 |
| Education |  |  |  |  |  |  |  |  |
| No education | 14.0 | 2,411 | 72.5 | 11.5 | 4.3 | 11.6 | 100.0 | 338 |
| Primary | 15.9 | 2,071 | 79.6 | 6.0 | 7.0 | 7.3 | 100.0 | 329 |
| Secondary | 13.0 | 8,999 | 81.4 | 10.3 | 4.3 | 4.1 | 100.0 | 1,173 |
| More than secondary | 12.9 | 1,533 | 85.3 | 9.8 | 2.8 | 2.1 | 100.0 | 198 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 15.0 | 2,447 | 80.0 | 7.6 | 2.8 | 9.7 | 100.0 | 366 |
| Second | 11.9 | 2,712 | 78.2 | 7.3 | 6.2 | 8.3 | 100.0 | 323 |
| Middle | 13.1 | 3,121 | 80.0 | 9.1 | 5.6 | 5.3 | 100.0 | 409 |
| Fourth | 13.5 | 3,379 | 81.2 | 12.6 | 2.7 | 3.5 | 100.0 | 457 |
| Highest | 14.4 | 3,355 | 80.1 | 10.9 | 5.8 | 3.2 | 100.0 | 482 |
| Total | 13.6 | 15,014 | 80.0 | 9.8 | 4.6 | 5.7 | 100.0 | 2,038 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ The respondent reported that she drank alcohol every day, almost every day, or 25 or more days in the last month.

Table 3.14.2 Alcohol consumption: Men
Percentage of men age 15-49 who have consumed any alcohol in the last month, and among men who have consumed any alcohol in the last month, percent distribution by frequency of drinking (number of days alcohol was consumed), according to background characteristics, Ghana DHS 2022

| Background characteristic | Consumed any alcohol in the last month | Number of men | Among men who have consumed any alcohol in the last month, percent distribution by frequency of drinking: |  |  |  |  | Number of men who consumed any alcohol in the last month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1-5 days | 6-10 days | 11-24 days | Every day/almost every day ${ }^{1}$ | Total |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 11.5 | 1,424 | 84.1 | 6.1 | 5.6 | 4.1 | 100.0 | 164 |
| 20-24 | 25.7 | 1,033 | 76.9 | 11.6 | 5.9 | 5.6 | 100.0 | 266 |
| 25-29 | 30.3 | 888 | 69.7 | 16.6 | 6.4 | 7.3 | 100.0 | 269 |
| 30-34 | 37.5 | 853 | 63.3 | 14.6 | 9.0 | 13.1 | 100.0 | 319 |
| 35-39 | 42.9 | 809 | 54.8 | 15.4 | 12.5 | 17.3 | 100.0 | 347 |
| 40-44 | 38.9 | 713 | 56.9 | 16.6 | 8.8 | 17.7 | 100.0 | 278 |
| 45-49 | 43.0 | 557 | 50.8 | 19.6 | 12.4 | 17.2 | 100.0 | 240 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 29.8 | 3,442 | 68.0 | 13.4 | 7.7 | 10.8 | 100.0 | 1,024 |
| Rural | 30.2 | 2,835 | 58.9 | 16.4 | 10.4 | 14.3 | 100.0 | 857 |
| Region |  |  |  |  |  |  |  |  |
| Western | 30.5 | 414 | 39.0 | 14.5 | 10.5 | 36.1 | 100.0 | 126 |
| Central | 31.6 | 686 | 57.9 | 17.1 | 10.2 | 14.7 | 100.0 | 217 |
| Greater Accra | 40.5 | 1,076 | 75.2 | 16.1 | 5.9 | 2.7 | 100.0 | 436 |
| Volta | 52.7 | 235 | 58.6 | 23.6 | 6.9 | 10.9 | 100.0 | 124 |
| Eastern | 36.0 | 466 | 66.7 | 21.5 | 5.7 | 6.1 | 100.0 | 168 |
| Ashanti | 22.9 | 1,179 | 75.4 | 9.7 | 4.7 | 10.1 | 100.0 | 270 |
| Western North | 36.4 | 181 | 49.9 | 19.4 | 19.7 | 11.0 | 100.0 | 66 |
| Ahafo | 34.4 | 133 | 44.5 | 8.7 | 11.8 | 35.0 | 100.0 | 46 |
| Bono | 33.2 | 222 | 59.1 | 4.8 | 16.5 | 19.7 | 100.0 | 74 |
| Bono East | 20.0 | 316 | 57.3 | 13.6 | 13.0 | 16.2 | 100.0 | 63 |
| Oti | 28.9 | 187 | 77.2 | 8.5 | 7.0 | 7.3 | 100.0 | 54 |
| Northern | 19.3 | 484 | 74.6 | 10.9 | 4.6 | 9.9 | 100.0 | 93 |
| Savannah | 6.0 | 155 | (59.6) | (5.7) | (1.6) | (33.0) | 100.0 | 9 |
| North East | 18.2 | 119 | 50.2 | 13.7 | 16.6 | 19.4 | 100.0 | 22 |
| Upper East | 21.9 | 267 | 49.6 | 17.9 | 18.6 | 14.0 | 100.0 | 58 |
| Upper West | 35.9 | 155 | 37.6 | 6.0 | 26.5 | 30.0 | 100.0 | 56 |
| Education |  |  |  |  |  |  |  |  |
| No education | 27.7 | 628 | 54.7 | 9.0 | 9.9 | 26.4 | 100.0 | 174 |
| Primary | 33.8 | 725 | 55.2 | 15.7 | 12.8 | 16.3 | 100.0 | 245 |
| Secondary | 30.0 | 3,990 | 66.0 | 16.0 | 7.7 | 10.4 | 100.0 | 1,196 |
| More than secondary | 28.6 | 935 | 68.3 | 12.3 | 10.5 | 9.0 | 100.0 | 268 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 28.9 | 1,089 | 53.2 | 14.1 | 11.2 | 21.5 | 100.0 | 315 |
| Second | 27.2 | 1,133 | 56.9 | 17.0 | 9.1 | 17.0 | 100.0 | 308 |
| Middle | 30.5 | 1,137 | 63.8 | 14.8 | 9.9 | 11.6 | 100.0 | 347 |
| Fourth | 34.2 | 1,466 | 67.3 | 16.2 | 9.0 | 7.4 | 100.0 | 501 |
| Highest | 28.3 | 1,453 | 73.0 | 11.9 | 6.2 | 8.9 | 100.0 | 411 |
| Total 15-49 | 30.0 | 6,277 | 63.8 | 14.8 | 8.9 | 12.4 | 100.0 | 1,881 |
| 50-59 | 45.5 | 767 | 51.8 | 16.2 | 10.7 | 21.2 | 100.0 | 349 |
| Total 15-59 | 31.7 | 7,044 | 62.0 | 15.0 | 9.2 | 13.8 | 100.0 | 2,231 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ The respondent reported that he drank alcohol every day, almost every day, or 25 or more days in the last month.

Table 3.15.1 Usual number of alcoholic drinks consumed: Women
Among women age 15-49 who have consumed any alcohol in the last month, percent distribution of usual number of drinks consumed on days when alcohol was consumed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of usual number of drinks consumed on days when alcohol was consumed |  |  |  |  |  |  |  | Number of women who consumed any alcohol in the last month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <1 | 1 | 2 | 3 | 4 | 5 | 6 or more | Total |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | 72.4 | 16.1 | 3.3 | 2.7 | 1.6 | 3.9 | 100.0 | 256 |
| 20-24 | 0.0 | 63.9 | 19.7 | 7.9 | 2.0 | 1.9 | 4.6 | 100.0 | 328 |
| 25-29 | 0.0 | 54.4 | 21.3 | 9.3 | 6.4 | 0.8 | 7.8 | 100.0 | 304 |
| 30-34 | 0.0 | 56.8 | 20.9 | 7.7 | 1.2 | 2.7 | 10.7 | 100.0 | 339 |
| 35-39 | 0.0 | 53.2 | 21.7 | 8.8 | 2.7 | 5.8 | 7.8 | 100.0 | 287 |
| 40-44 | 0.0 | 52.1 | 18.5 | 4.0 | 5.2 | 3.3 | 17.0 | 100.0 | 310 |
| 45-49 | 0.0 | 48.8 | 19.3 | 13.2 | 7.4 | 2.9 | 8.5 | 100.0 | 214 |
| Frequency of drinking in last month |  |  |  |  |  |  |  |  |  |
| 1-5 days | 0.0 | 61.7 | 19.3 | 8.4 | 4.2 | 2.9 | 3.5 | 100.0 | 1,631 |
| $6-10$ days | 0.0 | 35.0 | 14.0 | 5.6 | 2.0 | 3.6 | 39.8 | 100.0 | 199 |
| 11-24 days | 0.0 | 36.2 | 39.6 | 0.6 | 0.0 | 0.0 | 23.6 | 100.0 | 93 |
| Every day/almost every day ${ }^{1}$ | 0.0 | 54.1 | 19.0 | 5.6 | 3.5 | 0.3 | 17.4 | 100.0 | 115 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 0.0 | 57.4 | 19.4 | 7.1 | 3.4 | 2.7 | 9.9 | 100.0 | 1,137 |
| Rural | 0.0 | 57.6 | 20.1 | 8.2 | 4.2 | 2.6 | 7.3 | 100.0 | 901 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 0.0 | 47.8 | 18.9 | 6.8 | 9.4 | 3.2 | 13.8 | 100.0 | 112 |
| Central | 0.0 | 66.8 | 15.3 | 6.1 | 1.1 | 1.8 | 8.9 | 100.0 | 284 |
| Greater Accra | 0.0 | 53.1 | 19.6 | 6.0 | 3.4 | 3.1 | 14.8 | 100.0 | 387 |
| Volta | 0.0 | 58.9 | 18.3 | 7.3 | 6.7 | 2.2 | 6.6 | 100.0 | 127 |
| Eastern | 0.0 | 43.9 | 21.3 | 9.8 | 9.8 | 2.5 | 12.5 | 100.0 | 123 |
| Ashanti | 0.0 | 57.1 | 18.4 | 10.9 | 2.6 | 4.0 | 7.0 | 100.0 | 381 |
| Western North | 0.0 | 50.7 | 28.9 | 8.4 | 4.5 | 2.0 | 5.5 | 100.0 | 50 |
| Ahafo | 0.0 | 54.9 | 18.2 | 11.2 | 2.7 | 2.7 | 10.1 | 100.0 | 24 |
| Bono | 0.0 | 63.1 | 18.9 | 8.7 | 3.7 | 0.7 | 5.0 | 100.0 | 98 |
| Bono East | 0.0 | 58.1 | 22.7 | 6.5 | 2.5 | 2.0 | 8.3 | 100.0 | 106 |
| Oti | 0.0 | 62.6 | 11.9 | 5.9 | 9.7 | 4.5 | 5.5 | 100.0 | 41 |
| Northern | 0.0 | 67.1 | 29.7 | 1.8 | 0.0 | 0.0 | 1.4 | 100.0 | 124 |
| Savannah | 0.0 | 65.7 | 22.5 | 6.0 | 2.0 | 1.9 | 1.9 | 100.0 | 28 |
| North East | (0.0) | (49.3) | (24.4) | (9.3) | (3.7) | (5.1) | (8.4) | 100.0 | 13 |
| Upper East | 0.0 | 55.2 | 24.1 | 11.0 | 5.1 | 1.7 | 2.9 | 100.0 | 40 |
| Upper West | 0.0 | 59.1 | 19.5 | 9.6 | 2.7 | 4.8 | 4.3 | 100.0 | 99 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 0.0 | 56.9 | 20.6 | 6.0 | 4.8 | 4.7 | 7.0 | 100.0 | 338 |
| Primary | 0.0 | 59.9 | 18.7 | 6.1 | 3.1 | 4.0 | 8.2 | 100.0 | 329 |
| Secondary | 0.0 | 55.2 | 19.8 | 8.9 | 4.1 | 1.9 | 10.1 | 100.0 | 1,173 |
| More than secondary | 0.0 | 68.0 | 19.4 | 4.8 | 1.3 | 1.9 | 4.6 | 100.0 | 198 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 55.9 | 23.1 | 8.8 | 3.8 | 3.4 | 5.0 | 100.0 | 366 |
| Second | 0.0 | 56.8 | 19.4 | 7.7 | 3.0 | 5.5 | 7.7 | 100.0 | 323 |
| Middle | 0.0 | 56.2 | 18.7 | 8.5 | 4.0 | 1.8 | 10.7 | 100.0 | 409 |
| Fourth | 0.0 | 63.5 | 15.6 | 5.2 | 3.0 | 2.2 | 10.5 | 100.0 | 457 |
| Highest | 0.0 | 54.6 | 22.2 | 8.1 | 4.7 | 1.5 | 8.9 | 100.0 | 482 |
| Total | 0.0 | 57.5 | 19.7 | 7.6 | 3.8 | 2.7 | 8.7 | 100.0 | 2,038 |

Note: One drink of alcohol corresponds to one can or bottle of beer, one glass of wine, one shot of spirits, one shot of akpeteshie, or a calabash of palm wine or pito. Respondents who reported that they drank a few sips of an alcoholic drink were recorded as having consumed less than one standard drink. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ The respondent reported that she drank alcohol every day, almost every day, or 25 or more days in the last month.

Table 3.15.2 Usual number of alcoholic drinks consumed: Men
Among men age 15-49 who have consumed any alcohol in the last month, percent distribution of usual number of drinks consumed on days when alcohol was consumed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of usual number of drinks consumed on days when alcohol was consumed |  |  |  |  |  |  |  | Number of men who consumed any alcohol in the last month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <1 | 1 | 2 | 3 | 4 | 5 | 6 or more | Total |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | 73.7 | 9.3 | 9.8 | 1.7 | 1.0 | 4.5 | 100.0 | 164 |
| 20-24 | 0.0 | 49.2 | 26.6 | 10.8 | 5.9 | 3.5 | 4.0 | 100.0 | 266 |
| 25-29 | 0.0 | 40.2 | 23.7 | 12.1 | 6.7 | 3.7 | 13.7 | 100.0 | 269 |
| 30-34 | 0.0 | 43.1 | 23.3 | 11.1 | 4.6 | 3.0 | 14.9 | 100.0 | 319 |
| 35-39 | 0.0 | 40.0 | 20.8 | 7.9 | 10.0 | 4.0 | 17.1 | 100.0 | 347 |
| 40-44 | 0.0 | 34.5 | 29.7 | 12.6 | 7.6 | 3.5 | 12.1 | 100.0 | 278 |
| 45-49 | 0.0 | 32.9 | 19.4 | 9.0 | 3.9 | 7.7 | 27.2 | 100.0 | 240 |
| Frequency of drinking in last 1 month |  |  |  |  |  |  |  |  |  |
| 1-5 days | 0.0 | 49.9 | 22.2 | 11.4 | 6.7 | 5.2 | 4.6 | 100.0 | 1,201 |
| $6-10$ days | 0.0 | 25.6 | 23.6 | 7.2 | 3.6 | 1.0 | 39.0 | 100.0 | 278 |
| 11-24 days | 0.0 | 31.5 | 22.7 | 9.7 | 6.2 | 1.6 | 28.4 | 100.0 | 168 |
| Every day/almost every day ${ }^{1}$ | 0.0 | 37.2 | 23.5 | 9.9 | 6.5 | 1.9 | 21.0 | 100.0 | 234 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 0.0 | 40.1 | 22.7 | 11.3 | 6.6 | 4.9 | 14.4 | 100.0 | 1,024 |
| Rural | 0.0 | 46.6 | 22.4 | 9.4 | 5.6 | 2.7 | 13.2 | 100.0 | 857 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 0.0 | 48.4 | 24.6 | 8.0 | 10.5 | 2.5 | 6.0 | 100.0 | 126 |
| Central | 0.0 | 42.8 | 15.3 | 13.7 | 8.9 | 3.4 | 15.9 | 100.0 | 217 |
| Greater Accra | 0.0 | 28.4 | 26.5 | 10.5 | 9.3 | 3.6 | 21.6 | 100.0 | 436 |
| Volta | 0.0 | 50.3 | 19.1 | 7.0 | 5.2 | 4.4 | 14.0 | 100.0 | 124 |
| Eastern | 0.0 | 57.3 | 23.7 | 9.8 | 2.4 | 3.6 | 3.2 | 100.0 | 168 |
| Ashanti | 0.0 | 49.2 | 17.0 | 12.3 | 3.6 | 8.0 | 9.9 | 100.0 | 270 |
| Western North | 0.0 | 39.7 | 27.9 | 16.8 | 5.7 | 1.5 | 8.4 | 100.0 | 66 |
| Ahafo | 0.0 | 56.6 | 25.6 | 8.9 | 2.3 | 3.3 | 3.3 | 100.0 | 46 |
| Bono | 0.0 | 51.2 | 29.4 | 6.1 | 4.3 | 0.8 | 8.2 | 100.0 | 74 |
| Bono East | 0.0 | 18.8 | 14.1 | 16.5 | 9.4 | 7.5 | 33.6 | 100.0 | 63 |
| Oti | 0.0 | 67.5 | 19.6 | 6.3 | 2.7 | 0.8 | 3.0 | 100.0 | 54 |
| Northern | 0.0 | 49.8 | 23.7 | 6.8 | 5.0 | 0.8 | 13.9 | 100.0 | 93 |
| Savannah | (0.0) | (57.9) | (18.5) | (14.1) | (4.3) | (0.0) | (5.1) | 100.0 | 9 |
| North East | 0.0 | 16.9 | 8.7 | 9.6 | 2.8 | 4.5 | 57.4 | 100.0 | 22 |
| Upper East | 0.0 | 30.7 | 35.4 | 10.1 | 1.1 | 3.0 | 19.7 | 100.0 | 58 |
| Upper West | 0.0 | 54.4 | 32.5 | 6.5 | 1.9 | 2.0 | 2.7 | 100.0 | 56 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 0.0 | 39.4 | 23.8 | 10.7 | 6.7 | 4.5 | 14.9 | 100.0 | 174 |
| Primary | 0.0 | 41.6 | 19.5 | 13.9 | 5.2 | 4.4 | 15.4 | 100.0 | 245 |
| Secondary | 0.0 | 43.3 | 23.4 | 9.5 | 6.2 | 4.1 | 13.5 | 100.0 | 1,196 |
| More than secondary | 0.0 | 46.0 | 21.1 | 11.3 | 6.6 | 1.7 | 13.3 | 100.0 | 268 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 41.0 | 24.5 | 9.9 | 5.3 | 2.9 | 16.5 | 100.0 | 315 |
| Second | 0.0 | 48.4 | 20.2 | 8.0 | 4.3 | 1.4 | 17.8 | 100.0 | 308 |
| Middle | 0.0 | 47.1 | 20.2 | 12.4 | 6.3 | 5.9 | 8.1 | 100.0 | 347 |
| Fourth | 0.0 | 40.6 | 23.6 | 10.0 | 6.5 | 5.9 | 13.5 | 100.0 | 501 |
| Highest | 0.0 | 40.4 | 23.8 | 11.7 | 7.8 | 2.2 | 14.2 | 100.0 | 411 |
| Total 15-49 | 0.0 | 43.1 | 22.6 | 10.5 | 6.2 | 3.9 | 13.8 | 100.0 | 1,881 |
| 50-59 | 0.0 | 37.8 | 21.1 | 13.5 | 6.2 | 5.4 | 16.0 | 100.0 | 349 |
| Total 15-59 | 0.0 | 42.3 | 22.4 | 10.9 | 6.2 | 4.1 | 14.2 | 100.0 | 2,231 |

Note: One drink of alcohol corresponds to one can or bottle of beer, one glass of wine, one shot of spirits, one shot of akpeteshie, or a calabash of palm wine or pito. Respondents who reported that they drank a few sips of an alcoholic drink were recorded as having consumed less than one standard drink. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ The respondent reported that he drank alcohol every day, almost every day, or 25 or more days in the last month.

Table 3.16.1 Place of birth and recent migration: Women
Percent distribution of women age 15-49 who have always lived in their current place of residence, who were born in Ghana but outside of their current place of residence, and who were born in another country, and among women who were born outside of their current place of residence, percentage who moved to their current place of residence in the last 5 years, according to background characteristics, Ghana DHS 2022
$\left.\begin{array}{llllllll}\hline & & & & & & \begin{array}{c}\text { Among women who were } \\ \text { born outside of their current } \\ \text { place of residence }\end{array} \\ \hline & & & & & & \text { Percentage } \\ \text { who moved to }\end{array}\right]$

Note: Respondents who are visitors in the household are excluded from this table.
${ }^{1}$ May include respondents who were born elsewhere in Ghana but moved to their current place of residence when very young
${ }^{2}$ Includes respondents who reported that they were born outside of Ghana and that they always lived in their current place of residence. Such respondents are assumed not to have moved in the last 5 years.

Table 3.16.2 Place of birth and recent migration: Men
Percent distribution of men age 15-49 who have always lived in their current place of residence, who were born in Ghana but outside of their current place of residence, and who were born in another country, and among men who were born outside of their current place of residence, percentage who moved to their current place of residence in the last 5 years, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution by residence and place of birth |  |  |  | Number of men | Among men who were born outside of their current place of residence |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Always lived in current place of residence ${ }^{1}$ | Born in Ghana but outside of current place of residence | Born outside of Ghana | Total |  | Percentage who moved to current place of residence in the last 5 years | Number of $m^{2}{ }^{2}$ |
| Age |  |  |  |  |  |  |  |
| 15-19 | 64.5 | 34.4 | 1.1 | 100.0 | 1,420 | 36.0 | 504 |
| 20-24 | 48.6 | 50.4 | 1.0 | 100.0 | 1,033 | 39.4 | 531 |
| 25-29 | 43.7 | 53.7 | 2.6 | 100.0 | 877 | 47.1 | 494 |
| 30-34 | 40.4 | 58.4 | 1.2 | 100.0 | 851 | 39.9 | 507 |
| 35-39 | 44.9 | 53.2 | 1.9 | 100.0 | 808 | 30.7 | 445 |
| 40-44 | 37.6 | 61.0 | 1.4 | 100.0 | 713 | 21.1 | 445 |
| 45-49 | 45.1 | 53.8 | 1.1 | 100.0 | 556 | 16.3 | 305 |
| Residence |  |  |  |  |  |  |  |
| Urban | 42.9 | 55.6 | 1.4 | 100.0 | 3,438 | 34.6 | 1,963 |
| Rural | 55.0 | 43.5 | 1.5 | 100.0 | 2,820 | 33.7 | 1,269 |
| Region |  |  |  |  |  |  |  |
| Western | 44.2 | 54.8 | 1.0 | 100.0 | 413 | 32.9 | 230 |
| Central | 50.2 | 49.8 | 0.0 | 100.0 | 686 | 37.1 | 342 |
| Greater Accra | 17.4 | 80.3 | 2.3 | 100.0 | 1,076 | 36.6 | 889 |
| Volta | 68.4 | 28.3 | 3.3 | 100.0 | 234 | 31.5 | 74 |
| Eastern | 50.4 | 48.8 | 0.7 | 100.0 | 464 | 29.2 | 230 |
| Ashanti | 49.4 | 50.2 | 0.4 | 100.0 | 1,165 | 35.2 | 590 |
| Western North | 39.8 | 58.8 | 1.4 | 100.0 | 181 | 26.3 | 109 |
| Ahafo | 32.7 | 65.3 | 2.1 | 100.0 | 133 | 36.8 | 90 |
| Bono | 64.7 | 34.0 | 1.3 | 100.0 | 222 | 31.1 | 78 |
| Bono East | 33.8 | 64.7 | 1.5 | 100.0 | 316 | 21.1 | 209 |
| Oti | 62.0 | 32.2 | 5.8 | 100.0 | 187 | 30.7 | 71 |
| Northern | 70.4 | 28.0 | 1.6 | 100.0 | 483 | 43.2 | 143 |
| Savannah | 56.4 | 40.3 | 3.3 | 100.0 | 155 | 36.3 | 68 |
| North East | 92.2 | 6.7 | 1.1 | 100.0 | 119 | (22.0) | 9 |
| Upper East | 79.6 | 18.5 | 1.9 | 100.0 | 267 | 39.9 | 54 |
| Upper West | 71.2 | 27.0 | 1.7 | 100.0 | 155 | 40.6 | 45 |
| Education |  |  |  |  |  |  |  |
| No education | 58.0 | 37.4 | 4.6 | 100.0 | 627 | 21.7 | 263 |
| Primary | 54.8 | 43.7 | 1.5 | 100.0 | 722 | 28.3 | 326 |
| Secondary | 48.7 | 50.1 | 1.1 | 100.0 | 3,976 | 35.0 | 2,039 |
| More than secondary | 35.3 | 64.0 | 0.6 | 100.0 | 934 | 40.4 | 604 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 57.4 | 40.2 | 2.4 | 100.0 | 1,089 | 25.5 | 464 |
| Second | 60.9 | 38.4 | 0.7 | 100.0 | 1,128 | 38.0 | 442 |
| Middle | 54.8 | 43.5 | 1.7 | 100.0 | 1,129 | 34.3 | 511 |
| Fourth | 43.8 | 55.3 | 0.9 | 100.0 | 1,465 | 36.0 | 824 |
| Highest | 31.5 | 66.9 | 1.6 | 100.0 | 1,447 | 35.1 | 991 |
| Total 15-49 | 48.4 | 50.2 | 1.4 | 100.0 | 6,258 | 34.2 | 3,232 |
| 50-59 | 44.3 | 54.9 | 0.8 | 100.0 | 767 | 13.2 | 427 |
| Total 15-59 | 47.9 | 50.7 | 1.4 | 100.0 | 7,025 | 31.8 | 3,658 |

Note: Respondents who are visitors in the household are excluded from this table. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ May include respondents who were born elsewhere in Ghana but moved to their current place of residence when very young
${ }^{2}$ Includes respondents who reported that they were born outside of Ghana and that they always lived in their current place of residence. Such respondents are assumed not to have moved in the last 5 years.

## Table 3.17 Type of migration

Percent distribution of women and men age 15-49 who moved to their current place of residence in the last 5 years by type of migration, according to age, Ghana DHS 2022

| Age | Type of migration |  |  |  |  | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban to urban | Urban to rural | Rural to urban | Rural to rural | Total |  |
| WOMEN 15-49 |  |  |  |  |  |  |
| 15-19 | 48.3 | 24.8 | 11.3 | 15.6 | 100.0 | 659 |
| 20-24 | 49.4 | 22.4 | 11.8 | 16.4 | 100.0 | 960 |
| 25-29 | 55.1 | 23.1 | 7.5 | 14.2 | 100.0 | 854 |
| 30-34 | 53.6 | 27.5 | 6.7 | 12.2 | 100.0 | 684 |
| 35-39 | 61.1 | 20.5 | 5.4 | 13.1 | 100.0 | 412 |
| 40-44 | 58.4 | 24.9 | 4.0 | 12.6 | 100.0 | 264 |
| 45-49 | 52.2 | 28.0 | 5.4 | 14.4 | 100.0 | 161 |
| Total 15-49 | 53.1 | 24.0 | 8.5 | 14.4 | 100.0 | 3,993 |
| MEN 15-49 |  |  |  |  |  |  |
| 15-19 | 46.6 | 39.1 | 9.1 | 5.2 | 100.0 | 182 |
| 20-24 | 45.4 | 43.1 | 4.9 | 6.6 | 100.0 | 209 |
| 25-29 | 61.3 | 29.1 | 3.0 | 6.6 | 100.0 | 233 |
| 30-34 | 60.2 | 22.2 | 6.8 | 10.8 | 100.0 | 202 |
| 35-39 | 58.6 | 25.8 | 4.3 | 11.3 | 100.0 | 137 |
| 40-44 | 69.5 | 20.6 | 4.8 | 5.1 | 100.0 | 94 |
| 45-49 | (56.6) | (26.0) | (7.4) | (10.0) | 100.0 | 50 |
| Total 15-49 | 55.8 | 30.8 | 5.6 | 7.8 | 100.0 | 1,106 |
| 50-59 | (53.4) | (33.5) | (1.7) | (11.4) | 100.0 | 56 |
| Total 15-59 | 55.7 | 31.0 | 5.4 | 7.9 | 100.0 | 1,163 |

Note: Type of migration is based on categorizing the previous place of residence and the current place of residence as urban or rural. The previous place of residence is the place the person moved from just before moving to the current place of residence. Figures in parentheses are based on 25-49 unweighted cases.

Table 3.18.1 Reason for migration: Women
Percent distribution of women age 15-49 who moved to their current place of residence by reason for migration, according to background characteristics, Ghana DHS 2022

| Background characteristic | Employment | $\begin{gathered} \text { Education/ } \\ \text { training } \\ \hline \end{gathered}$ | Marriage formation | Family reunification/ other familyrelated reason | Forced displacement | Other | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 4.9 | 9.6 | 4.1 | 74.5 | 4.9 | 1.9 | 100.0 | 1,348 |
| 20-24 | 11.2 | 9.1 | 20.6 | 52.2 | 4.2 | 2.7 | 100.0 | 1,694 |
| 25-29 | 17.1 | 4.0 | 34.4 | 36.8 | 4.8 | 2.9 | 100.0 | 1,657 |
| 30-34 | 16.9 | 3.0 | 35.6 | 34.8 | 6.3 | 3.4 | 100.0 | 1,696 |
| 35-39 | 14.1 | 2.8 | 35.7 | 35.0 | 7.9 | 4.4 | 100.0 | 1,548 |
| 40-44 | 11.8 | 1.3 | 32.8 | 41.5 | 6.8 | 5.9 | 100.0 | 1,212 |
| 45-49 | 10.8 | 1.0 | 33.9 | 39.7 | 8.7 | 5.9 | 100.0 | 940 |
| Timing of move to current place of residence |  |  |  |  |  |  |  |  |
| 0-4 years | 17.5 | 5.7 | 23.0 | 40.8 | 7.9 | 5.2 | 100.0 | 3,993 |
| 5-9 years | 11.6 | 4.7 | 29.1 | 44.1 | 6.4 | 4.2 | 100.0 | 2,264 |
| 10 years or more | 8.6 | 3.5 | 33.1 | 49.0 | 3.9 | 1.9 | 100.0 | 3,839 |
| Type of migration ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Urban to urban | 18.5 | 5.6 | 17.1 | 41.6 | 10.7 | 6.5 | 100.0 | 2,120 |
| Urban to rural | 15.1 | 3.3 | 23.8 | 50.1 | 2.9 | 4.9 | 100.0 | 958 |
| Rural to urban | 23.7 | 18.0 | 25.7 | 24.4 | 6.4 | 1.8 | 100.0 | 339 |
| Rural to rural | 14.0 | 2.8 | 42.0 | 31.8 | 6.8 | 2.7 | 100.0 | 576 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 13.6 | 5.9 | 22.4 | 45.5 | 8.0 | 4.7 | 100.0 | 5,988 |
| Rural | 11.6 | 2.8 | 36.7 | 43.4 | 3.2 | 2.2 | 100.0 | 4,108 |
| Region |  |  |  |  |  |  |  |  |
| Western | 15.5 | 4.7 | 25.2 | 50.6 | 3.5 | 0.5 | 100.0 | 679 |
| Central | 8.0 | 5.9 | 22.8 | 53.9 | 7.5 | 1.9 | 100.0 | 1,244 |
| Greater Accra | 12.2 | 4.3 | 20.0 | 43.6 | 10.1 | 9.8 | 100.0 | 1,807 |
| Volta | 11.8 | 10.3 | 23.6 | 48.5 | 2.4 | 3.4 | 100.0 | 475 |
| Eastern | 15.0 | 3.8 | 21.1 | 49.8 | 8.2 | 2.2 | 100.0 | 863 |
| Ashanti | 16.1 | 4.7 | 19.4 | 46.0 | 8.6 | 5.2 | 100.0 | 2,061 |
| Western North | 21.9 | 3.5 | 27.5 | 44.8 | 1.6 | 0.7 | 100.0 | 243 |
| Ahafo | 26.9 | 4.1 | 31.9 | 35.5 | 0.4 | 1.2 | 100.0 | 214 |
| Bono | 22.2 | 4.8 | 19.4 | 50.9 | 1.3 | 1.4 | 100.0 | 284 |
| Bono East | 10.8 | 3.5 | 34.4 | 44.3 | 6.2 | 0.9 | 100.0 | 423 |
| Oti | 13.7 | 4.7 | 35.0 | 43.7 | 1.3 | 1.7 | 100.0 | 279 |
| Northern | 3.4 | 2.4 | 68.3 | 24.9 | 0.9 | 0.0 | 100.0 | 709 |
| Savannah | 12.1 | 2.8 | 43.9 | 40.2 | 0.5 | 0.4 | 100.0 | 212 |
| North East | 5.2 | 4.3 | 67.6 | 20.4 | 1.4 | 1.0 | 100.0 | 101 |
| Upper East | 9.2 | 4.4 | 51.7 | 31.2 | 1.3 | 2.2 | 100.0 | 238 |
| Upper West | 4.9 | 3.9 | 50.9 | 38.8 | 0.1 | 1.4 | 100.0 | 265 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 13.2 | 2.1 | 45.4 | 36.0 | 2.8 | 0.6 | 100.0 | 1,453 |
| Second | 9.3 | 3.0 | 35.5 | 44.8 | 5.1 | 2.3 | 100.0 | 1,650 |
| Middle | 11.2 | 5.5 | 23.8 | 49.0 | 6.6 | 3.9 | 100.0 | 1,984 |
| Fourth | 12.7 | 5.9 | 23.5 | 45.8 | 8.3 | 3.8 | 100.0 | 2,401 |
| Highest | 16.0 | 5.3 | 21.7 | 45.0 | 5.9 | 6.1 | 100.0 | 2,607 |
| Total | 12.8 | 4.6 | 28.2 | 44.6 | 6.0 | 3.7 | 100.0 | 10,096 |

Note: Respondents who are visitors in the household are excluded from this table. Respondents who stated that they were born outside of Ghana and that they have always lived in their current place of residence were not asked about the reason for migration and are excluded from the table. ${ }^{1}$ Restricted to respondents who migrated within the last 5 years

Table 3.18.2 Reason for migration: Men
Percent distribution of men age 15-49 who moved to their current place of residence by reason for migration, according to background characteristics, Ghana DHS 2022

| Background characteristic | Employment | $\begin{gathered} \text { Education/ } \\ \text { training } \\ \hline \end{gathered}$ | Marriage formation | Family reunification/ other familyrelated reason | Forced displacement | Other | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 7.4 | 17.2 | 0.8 | 69.6 | 4.1 | 0.9 | 100.0 | 503 |
| 20-24 | 21.7 | 9.8 | 0.0 | 60.4 | 5.4 | 2.8 | 100.0 | 529 |
| 25-29 | 47.6 | 7.3 | 2.4 | 34.4 | 7.3 | 1.0 | 100.0 | 494 |
| 30-34 | 48.3 | 3.8 | 3.0 | 35.2 | 7.8 | 1.9 | 100.0 | 507 |
| 35-39 | 43.6 | 4.6 | 3.4 | 37.7 | 7.4 | 3.3 | 100.0 | 444 |
| 40-44 | 49.2 | 2.9 | 3.7 | 37.1 | 4.7 | 2.4 | 100.0 | 445 |
| 45-49 | 46.2 | 2.3 | 3.0 | 39.7 | 6.1 | 2.8 | 100.0 | 305 |
| Timing of move to current place of residence |  |  |  |  |  |  |  |  |
| $0-4$ years | 41.2 | 7.1 | 2.2 | 37.1 | 9.2 | 3.2 | 100.0 | 1,106 |
| 5-9 years | 36.8 | 8.7 | 3.6 | 43.2 | 5.9 | 1.9 | 100.0 | 794 |
| 10 years or more | 32.9 | 6.5 | 1.4 | 54.1 | 3.7 | 1.3 | 100.0 | 1,327 |
| Type of migration ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Urban to urban | 38.0 | 5.3 | 2.8 | 37.7 | 12.9 | 3.2 | 100.0 | 617 |
| Urban to rural | 42.3 | 8.7 | 1.1 | 40.7 | 3.8 | 3.3 | 100.0 | 341 |
| Rural to urban | 42.3 | 16.9 | 3.7 | 31.3 | 5.8 | 0.0 | 100.0 | 62 |
| Rural to rural | 59.3 | 6.5 | 1.0 | 23.3 | 5.4 | 4.4 | 100.0 | 86 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 31.6 | 8.0 | 2.8 | 46.9 | 8.4 | 2.3 | 100.0 | 1,960 |
| Rural | 44.7 | 6.1 | 1.3 | 43.6 | 2.6 | 1.8 | 100.0 | 1,267 |
| Region |  |  |  |  |  |  |  |  |
| Western | 44.7 | 12.3 | 0.5 | 36.2 | 3.1 | 3.2 | 100.0 | 230 |
| Central | 37.8 | 6.4 | 2.2 | 47.0 | 6.1 | 0.5 | 100.0 | 342 |
| Greater Accra | 26.5 | 5.0 | 2.7 | 53.2 | 10.0 | 2.5 | 100.0 | 889 |
| Volta | 53.3 | 16.2 | 1.4 | 29.1 | 0.0 | 0.0 | 100.0 | 74 |
| Eastern | 34.4 | 11.6 | 3.2 | 49.6 | 0.0 | 1.1 | 100.0 | 230 |
| Ashanti | 33.6 | 6.8 | 3.3 | 41.3 | 11.9 | 3.1 | 100.0 | 590 |
| Western North | 47.7 | 3.2 | 0.0 | 48.1 | 0.4 | 0.6 | 100.0 | 109 |
| Ahafo | 48.6 | 7.1 | 2.0 | 41.4 | 0.5 | 0.4 | 100.0 | 90 |
| Bono | 50.8 | 7.1 | 0.3 | 38.5 | 1.7 | 1.7 | 100.0 | 78 |
| Bono East | 62.3 | 4.4 | 0.9 | 31.3 | 0.8 | 0.3 | 100.0 | 209 |
| Oti | 53.3 | 8.2 | 0.5 | 35.9 | 1.1 | 1.0 | 100.0 | 71 |
| Northern | 24.9 | 7.5 | 2.1 | 57.1 | 2.7 | 5.7 | 100.0 | 142 |
| Savannah | 44.4 | 5.2 | 2.4 | 44.1 | 1.8 | 2.1 | 100.0 | 67 |
| North East | (48.0) | (3.7) | (0.0) | (48.3) | (0.0) | (0.0) | 100.0 | 9 |
| Upper East | 26.1 | 18.1 | 0.0 | 51.4 | 0.0 | 4.4 | 100.0 | 52 |
| Upper West | 30.7 | 12.4 | 4.3 | 51.8 | 0.8 | 0.0 | 100.0 | 44 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 49.9 | 3.2 | 1.4 | 42.3 | 2.1 | 1.2 | 100.0 | 462 |
| Second | 35.3 | 9.9 | 1.6 | 47.7 | 2.7 | 2.8 | 100.0 | 441 |
| Middle | 40.2 | 10.0 | 1.4 | 42.7 | 4.2 | 1.4 | 100.0 | 510 |
| Fourth | 37.0 | 6.5 | 2.2 | 43.7 | 8.5 | 2.1 | 100.0 | 823 |
| Highest | 29.2 | 7.1 | 3.4 | 49.3 | 8.5 | 2.6 | 100.0 | 991 |
| Total 15-49 | 36.7 | 7.2 | 2.2 | 45.6 | 6.1 | 2.1 | 100.0 | 3,227 |
| 50-59 | 46.5 | 2.1 | 3.7 | 37.0 | 8.2 | 2.5 | 100.0 | 427 |
| Total 15-59 | 37.9 | 6.6 | 2.4 | 44.6 | 6.3 | 2.1 | 100.0 | 3,654 |

[^14]
## MARRIAGE AND SEXUAL ACTIVITY

## Key Findings

- Marital status: More women than men age 15-49 are in union ( $55 \%$ versus $45 \%$ ). The percentage of formally married women declined from $65 \%$ in 1988 to $40 \%$ in 2022, while the percentage of women living together with a man increased from $5 \%$ to $15 \%$ within the same period.
- Polygyny: 15\% of currently married women age 15-49 report that their husband or partner has multiple wives.
- Age at first marriage: The median age at first marriage among women age 25-49 is 21.8 years.
- Age at first sexual intercourse: The median age at first sexual intercourse among women age 25-49 is 18 years, while the median age among men is 20 years.
- Recent sexual activity: More than 4 out of 10 women ( $45 \%$ ) and men ( $43 \%$ ) age 15-49 had sexual intercourse within the 4 weeks preceding the survey.

Marriage and sexual activity help determine the extent to which women are exposed to the risk of pregnancy. Thus, they are important determinants of fertility levels. The timing and circumstances of marriage and sexual activity, however, also have profound consequences for women's and men's lives.

### 4.1 Marital Status

## Currently in union

Women and men who report being married or living together with a partner as though married at the time of the survey. In this report, the terms currently in union and currently married are used interchangeably except where noted.
Sample: Women and men age 15-49

In Ghana, more than half of women (55\%) and $45 \%$ of men age 15-49 are currently in union. Thirty-five percent of women and $51 \%$ of men have never been married. The percentage of women who are separated or divorced (8\%) is twice that of men (3\%) (Figure 4.1 and Table 4.1).

Figure 4.1 Marital status
Percent distribution of women and men age 15-49


Trends: The percentage of women age 15-49 who are in union decreased from $70 \%$ in 1988 and 1993 to $57 \%$ in 2014 and $55 \%$ in 2022. The percentage of formally married women has declined since 1988, from $65 \%$ to $40 \%$, while the percentage of women living together with a man as if married has increased from $5 \%$ to $15 \%$.

### 4.2 Marriage Registration

## Registered marriage

A woman whose marriage is registered with the civil authorities regardless of whether or not she has a marriage certificate.
Sample: Women age 15-49 who are currently in union

Twenty-two percent of women age 15-49 who are in union have had their marriage registered with the civil authorities, and $19 \%$ have a marriage certificate (Table 4.2).

### 4.3 Polygyny

## Polygyny

Women who report that their husband or partner has other wives are considered to be in a polygynous marriage.
Sample: Currently married women age 15-49

Fifteen percent of currently married women age 15-49 report having one or more co-wives, while $9 \%$ of currently married men report having two or more wives (Table 4.3.1 and Table 4.3.2).

Trends: The percentage of currently married women who are in a polygynous union has decreased over time, from $33 \%$ in 1988 to $23 \%$ in 1998, $19 \%$ in $2008,16 \%$ in 2014, and $15 \%$ in 2022 (Figure 4.2).

Figure 4.2 Trends in polygyny
Percentage of married women age 15-49 in a polygynous union


| 1988 | 1998 | 2008 | 2014 | 2022 |
| :---: | :---: | :---: | :---: | :---: |
| GDHS | GDHS | GDHS | GDHS | GDHS |

### 4.4 Age at First Marriage

## Median age at first marriage

Age by which half of respondents have been married.
Sample: Women age 20-49 and 25-49 and men age 20-49, 25-49, 20-59, and 25-59

The median age at first marriage among women age 25-49 is 21.8 years (Table 4.4 and Table 4.5). In Ghana, the legal age of marriage is 18 years; however, $6 \%$ of women report that they were first married by age 15 . Twenty-three percent of women were first married by age 18 , more than one-third ( $38 \%$ ) were married by age 20 , and two-thirds ( $67 \%$ ) were married by age 25 . Among men age $25-49$, fewer than 1 in $10(9 \%)$ were married by age 20 and one-third ( $34 \%$ ) were married by age 25 .

Trends: The median age at first marriage among women age 25-49 has increased steadily over time, from 18.5 years in 1988 to 19.4 years in 2003, 20.7 years in 2014, and 21.8 years in 2022.

### 4.5 Age at First Sexual Intercourse

## Median age at first sexual intercourse

Age by which half of respondents have had sexual intercourse
Sample: Women age 20-49, 25-49 and 15-24 and men age 20-49, 25-49, 20-59, and 25-59

The median age at first sexual intercourse among women age 25-49 is 18 years, while the median age among men is 20 years. By age 20, $74 \%$ of women and $50 \%$ of men have had sexual intercourse (Table 4.6 and Table 4.7).

In Ghana, the percentage of respondents who were married by their 18th birthday is much higher among women $(23 \%)$ than among men (3\%). Similarly, more women ( $50 \%$ ) than men ( $25 \%$ ) had sexual intercourse by age 18 (Figure 4.3).

Thirty-seven percent of women age 15-24 have never had sexual intercourse, as compared with almost half of men ( $49 \%$ ) in the same age group (Table 4.6).

Figure 4.3 First sex and first marriage by age 18
Percentage who had first sexual intercourse and first marriage by age 18 ■ Women age 25-49 ■ Men age 25-49


Among women age 25-49, the median age at first intercourse ( 18 years) is 4 years less than the median age at first marriage ( 21.8 years). This indicates that many women engage in sex before marriage (Table 4.6).

Trends: The percentage of women age 25-49 who had sexual intercourse by age 18 declined from $48 \%$ in 2003 to $44 \%$ in 2014 and then increased to $50 \%$ in 2022 (Figure 4.4).

### 4.6 Recent Sexual Activity

More than 4 out of 10 women ( $45 \%$ ) and men ( $43 \%$ ) age 15-49 reported having sexual intercourse during the 4 weeks preceding the survey (Table 4.8.1 and Table 4.8.2). Nearly 3 in 10 women and men ( $28 \%$ ) had sex within the past year but not within the past 4 weeks. Fourteen percent of women and $21 \%$ of men have never had sexual intercourse.

## LIST OF TABLES

For more information on marriage and sexual activity, see the following tables:

- Table 4.1 Current marital status
- Table 4.2 Marriage registration
- Table 4.3.1 Number of women's co-wives
- Table 4.3.2 Number of men's wives
- Table 4.4 Age at first marriage
- Table 4.5 Median age at first marriage according to background characteristics
- Table 4.6 Age at first sexual intercourse
- Table 4.7 Median age at first sexual intercourse according to background characteristics
- Table 4.8.1 Recent sexual activity: Women
- Table 4.8.2 Recent sexual activity: Men

Table 4.1 Current marital status
Percent distribution of women and men age 15-49 by current marital status, according to age, Ghana DHS 2022

| Age | Marital status |  |  |  |  |  |  | Percentage of respondents currently in union | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married | Living together | Divorced | Separated | Widowed | Total |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| 15-19 | 92.1 | 3.1 | 4.1 | 0.0 | 0.7 | 0.0 | 100.0 | 7.2 | 2,682 |
| 20-24 | 58.0 | 18.7 | 18.9 | 0.2 | 4.1 | 0.1 | 100.0 | 37.6 | 2,695 |
| 25-29 | 30.6 | 41.5 | 20.8 | 1.0 | 5.6 | 0.5 | 100.0 | 62.3 | 2,340 |
| 30-34 | 12.9 | 58.3 | 18.0 | 3.1 | 6.1 | 1.6 | 100.0 | 76.3 | 2,252 |
| 35-39 | 6.5 | 64.0 | 15.7 | 3.7 | 6.4 | 3.5 | 100.0 | 79.7 | 2,059 |
| 40-44 | 3.5 | 61.7 | 12.3 | 6.8 | 9.1 | 6.6 | 100.0 | 74.0 | 1,675 |
| 45-49 | 2.5 | 59.9 | 11.8 | 7.6 | 8.0 | 10.2 | 100.0 | 71.7 | 1,312 |
| Total 15-49 | 35.1 | 40.0 | 14.6 | 2.6 | 5.2 | 2.4 | 100.0 | 54.6 | 15,014 |
| MEN |  |  |  |  |  |  |  |  |  |
| 15-19 | 99.0 | 0.2 | 0.7 | 0.0 | 0.1 | 0.0 | 100.0 | 0.9 | 1,424 |
| 20-24 | 85.7 | 6.1 | 6.1 | 0.3 | 1.8 | 0.0 | 100.0 | 12.2 | 1,033 |
| 25-29 | 54.5 | 30.7 | 12.4 | 0.9 | 1.5 | 0.0 | 100.0 | 43.2 | 888 |
| 30-34 | 29.1 | 53.2 | 13.4 | 0.7 | 3.6 | 0.0 | 100.0 | 66.6 | 853 |
| 35-39 | 12.8 | 72.3 | 9.9 | 1.5 | 2.5 | 0.9 | 100.0 | 82.3 | 809 |
| 40-44 | 8.4 | 77.6 | 6.1 | 2.9 | 4.3 | 0.7 | 100.0 | 83.7 | 713 |
| 45-49 | 3.1 | 79.5 | 5.8 | 6.0 | 4.6 | 1.0 | 100.0 | 85.4 | 557 |
| Total 15-49 | 51.1 | 37.8 | 7.2 | 1.3 | 2.2 | 0.3 | 100.0 | 45.0 | 6,277 |
| 50-59 | 3.5 | 81.7 | 4.1 | 3.9 | 4.3 | 2.5 | 100.0 | 85.8 | 767 |
| Total 15-59 | 45.9 | 42.6 | 6.9 | 1.6 | 2.5 | 0.5 | 100.0 | 49.5 | 7,044 |

Table 4.2 Marriage registration
Percentage of in-union women age 15-49 whose current marriage or union is registered, percentage whose current marriage or union is registered and who have any documentation recognizing the marriage/union, and percentage whose current marriage or union is registered and who have a marriage certificate, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage whose current marriage or union is registered ${ }^{1}$ | Percentage whose current marriage or union is registered and who have any documentation recognizing the marriage/union | Percentage whose current marriage is registered and who have a marriage certificate | Number of women in union ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |
| 15-19 | 3.4 | 3.4 | 2.5 | 194 |
| 20-24 | 5.4 | 5.2 | 3.7 | 1,013 |
| 25-29 | 16.1 | 15.5 | 13.2 | 1,457 |
| 30-34 | 27.5 | 27.3 | 24.4 | 1,719 |
| 35-39 | 26.0 | 25.7 | 23.6 | 1,641 |
| 40-44 | 26.9 | 26.4 | 24.9 | 1,239 |
| 45-49 | 27.3 | 27.0 | 24.0 | 941 |
| Residence |  |  |  |  |
| Urban | 30.7 | 30.3 | 27.2 | 4,248 |
| Rural | 12.2 | 11.9 | 10.6 | 3,956 |
| Marital status |  |  |  |  |
| Currently married | 29.4 | 28.9 | 26.0 | 6,008 |
| Living together | 0.9 | 0.9 | 0.7 | 2,197 |
| Region |  |  |  |  |
| Western | 26.0 | 25.8 | 25.8 | 487 |
| Central | 16.6 | 16.6 | 16.2 | 816 |
| Greater Accra | 37.3 | 36.5 | 35.3 | 1,144 |
| Volta | 14.4 | 14.4 | 14.2 | 375 |
| Eastern | 27.6 | 27.4 | 25.8 | 633 |
| Ashanti | 27.9 | 27.5 | 27.4 | 1,426 |
| Western North | 8.7 | 8.5 | 7.8 | 231 |
| Ahafo | 24.9 | 24.2 | 13.8 | 183 |
| Bono | 15.9 | 15.7 | 14.3 | 284 |
| Bono East | 9.0 | 8.6 | 8.3 | 376 |
| Oti | 7.1 | 6.6 | 5.8 | 248 |
| Northern | 29.7 | 29.5 | 15.7 | 870 |
| Savannah | 2.6 | 2.4 | 2.2 | 218 |
| North East | 2.8 | 2.6 | 2.4 | 229 |
| Upper East | 5.0 | 4.6 | 4.2 | 426 |
| Upper West | 6.1 | 5.6 | 4.9 | 258 |
| Wealth quintile |  |  |  |  |
| Lowest | 5.8 | 5.7 | 3.5 | 1,662 |
| Second | 10.5 | 10.1 | 7.1 | 1,513 |
| Middle | 14.4 | 14.0 | 11.7 | 1,545 |
| Fourth | 22.7 | 22.6 | 20.7 | 1,743 |
| Highest | 52.3 | 51.8 | 49.8 | 1,742 |
| Total | 21.8 | 21.4 | 19.2 | 8,205 |

${ }^{1}$ Includes women who report that they are currently married or living with a man as if married

Table 4.3.1 Number of women's co-wives
Percent distribution of currently married women age 15-49 by number of co-wives, and percentage of currently married women with one or more co-wives, according to background characteristics, Ghana DHS 2022

| Background characteristic | Number of co-wives |  |  |  |  | Percentage with one or more cowives ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2+ | Don't know | Total |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 87.3 | 9.0 | 1.5 | 2.1 | 100.0 | 10.5 | 194 |
| 20-24 | 89.5 | 8.6 | 0.7 | 1.2 | 100.0 | 9.3 | 1,013 |
| 25-29 | 88.1 | 9.7 | 1.4 | 0.8 | 100.0 | 11.1 | 1,457 |
| 30-34 | 85.1 | 11.2 | 3.0 | 0.7 | 100.0 | 14.2 | 1,719 |
| 35-39 | 83.1 | 13.2 | 2.9 | 0.9 | 100.0 | 16.0 | 1,641 |
| 40-44 | 80.1 | 14.3 | 4.3 | 1.3 | 100.0 | 18.6 | 1,239 |
| 45-49 | 80.0 | 15.4 | 4.3 | 0.3 | 100.0 | 19.7 | 941 |
| Residence |  |  |  |  |  |  |  |
| Urban | 88.0 | 8.7 | 2.2 | 1.1 | 100.0 | 10.9 | 4,248 |
| Rural | 80.7 | 15.3 | 3.3 | 0.6 | 100.0 | 18.6 | 3,956 |
| Region |  |  |  |  |  |  |  |
| Western | 93.1 | 6.1 | 0.8 | 0.0 | 100.0 | 6.9 | 487 |
| Central | 89.3 | 8.1 | 1.8 | 0.7 | 100.0 | 9.9 | 816 |
| Greater Accra | 94.2 | 5.1 | 0.3 | 0.3 | 100.0 | 5.4 | 1,144 |
| Volta | 83.5 | 13.2 | 2.3 | 1.0 | 100.0 | 15.5 | 375 |
| Eastern | 94.6 | 5.2 | 0.0 | 0.2 | 100.0 | 5.2 | 633 |
| Ashanti | 88.6 | 6.4 | 1.9 | 3.1 | 100.0 | 8.3 | 1,426 |
| Western North | 87.9 | 10.7 | 0.7 | 0.8 | 100.0 | 11.3 | 231 |
| Ahafo | 88.6 | 9.3 | 1.0 | 1.1 | 100.0 | 10.3 | 183 |
| Bono | 92.0 | 6.9 | 0.8 | 0.2 | 100.0 | 7.7 | 284 |
| Bono East | 85.3 | 11.4 | 2.4 | 0.8 | 100.0 | 13.9 | 376 |
| Oti | 81.1 | 13.7 | 4.8 | 0.4 | 100.0 | 18.6 | 248 |
| Northern | 58.8 | 33.2 | 7.9 | 0.1 | 100.0 | 41.1 | 870 |
| Savannah | 68.2 | 21.9 | 9.1 | 0.7 | 100.0 | 31.0 | 218 |
| North East | 60.0 | 30.6 | 9.2 | 0.1 | 100.0 | 39.8 | 229 |
| Upper East | 82.0 | 14.8 | 2.8 | 0.3 | 100.0 | 17.6 | 426 |
| Upper West | 77.7 | 15.5 | 5.8 | 1.0 | 100.0 | 21.3 | 258 |
| Education |  |  |  |  |  |  |  |
| No education | 66.3 | 25.8 | 7.4 | 0.4 | 100.0 | 33.2 | 2,015 |
| Primary | 84.3 | 12.1 | 2.9 | 0.7 | 100.0 | 15.0 | 1,233 |
| Secondary | 91.6 | 6.5 | 0.9 | 1.0 | 100.0 | 7.4 | 4,174 |
| More than secondary | 93.7 | 4.5 | 0.2 | 1.6 | 100.0 | 4.7 | 783 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 73.9 | 20.7 | 5.2 | 0.3 | 100.0 | 25.8 | 1,662 |
| Second | 79.0 | 17.4 | 3.3 | 0.3 | 100.0 | 20.7 | 1,513 |
| Middle | 86.4 | 10.0 | 2.7 | 0.8 | 100.0 | 12.7 | 1,545 |
| Fourth | 89.3 | 7.1 | 1.8 | 1.8 | 100.0 | 8.9 | 1,743 |
| Highest | 93.0 | 5.2 | 0.7 | 1.1 | 100.0 | 5.9 | 1,742 |
| Total | 84.5 | 11.9 | 2.7 | 0.9 | 100.0 | 14.6 | 8,205 |

${ }^{1}$ Excludes women who responded "don't know" when asked if their husband has other wives

Table 4.3.2 Number of men's wives
Percent distribution of currently married men age 15-49 by number of wives, according to background characteristics, Ghana DHS 2022

| Background characteristic | Number of wives |  | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2+ |  |  |
| Age |  |  |  |  |
| 15-19 | * | * | 100.0 | 13 |
| 20-24 | 97.4 | 2.6 | 100.0 | 126 |
| 25-29 | 96.5 | 3.5 | 100.0 | 383 |
| 30-34 | 93.5 | 6.5 | 100.0 | 568 |
| 35-39 | 90.8 | 9.2 | 100.0 | 665 |
| 40-44 | 88.6 | 11.4 | 100.0 | 597 |
| 45-49 | 87.8 | 12.2 | 100.0 | 475 |
| Residence |  |  |  |  |
| Urban | 93.5 | 6.5 | 100.0 | 1,479 |
| Rural | 89.2 | 10.8 | 100.0 | 1,349 |
| Region |  |  |  |  |
| Western | 96.9 | 3.1 | 100.0 | 190 |
| Central | 97.7 | 2.3 | 100.0 | 256 |
| Greater Accra | 96.0 | 4.0 | 100.0 | 509 |
| Volta | 92.2 | 7.8 | 100.0 | 113 |
| Eastern | 95.8 | 4.2 | 100.0 | 192 |
| Ashanti | 96.3 | 3.7 | 100.0 | 442 |
| Western North | 89.1 | 10.9 | 100.0 | 82 |
| Ahafo | 89.5 | 10.5 | 100.0 | 69 |
| Bono | 93.9 | 6.1 | 100.0 | 87 |
| Bono East | 88.7 | 11.3 | 100.0 | 143 |
| Oti | 90.3 | 9.7 | 100.0 | 87 |
| Northern | 74.5 | 25.5 | 100.0 | 276 |
| Savannah | 82.4 | 17.6 | 100.0 | 86 |
| North East | 78.0 | 22.0 | 100.0 | 74 |
| Upper East | 86.1 | 13.9 | 100.0 | 137 |
| Upper West | 87.5 | 12.5 | 100.0 | 86 |
| Education |  |  |  |  |
| No education | 78.4 | 21.6 | 100.0 | 469 |
| Primary | 87.4 | 12.6 | 100.0 | 335 |
| Secondary | 94.5 | 5.5 | 100.0 | 1,580 |
| More than secondary | 97.3 | 2.7 | 100.0 | 444 |
| Wealth quintile |  |  |  |  |
| Lowest | 83.1 | 16.9 | 100.0 | 548 |
| Second | 90.9 | 9.1 | 100.0 | 491 |
| Middle | 90.5 | 9.5 | 100.0 | 447 |
| Fourth | 93.7 | 6.3 | 100.0 | 684 |
| Highest | 97.0 | 3.0 | 100.0 | 657 |
| Total 15-49 | 91.4 | 8.6 | 100.0 | 2,828 |
| 50-59 | 89.6 | 10.4 | 100.0 | 658 |
| Total 15-59 | 91.1 | 8.9 | 100.0 | 3,485 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## Table 4.4 Age at first marriage

Percentage of women and men age 15-49 who were first married by specific exact ages, and median age at first marriage, according to current age, Ghana DHS 2022

| Current age | Percentage first married by exact age: |  |  |  |  | Percentage never married | Number of respondents | Median age at first marriage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 1.5 | na | na | na | na | 92.1 | 2,682 | a |
| 20-24 | 3.3 | 16.1 | 28.4 | na | na | 58.0 | 2,695 | a |
| 25-29 | 3.7 | 17.5 | 30.7 | 43.3 | 60.5 | 30.6 | 2,340 | 23.0 |
| 30-34 | 6.2 | 23.4 | 37.2 | 50.8 | 64.6 | 12.9 | 2,252 | 21.9 |
| 35-39 | 6.1 | 23.7 | 37.8 | 51.0 | 65.6 | 6.5 | 2,059 | 21.8 |
| 40-44 | 6.5 | 26.7 | 45.6 | 58.8 | 72.1 | 3.5 | 1,675 | 20.6 |
| 45-49 | 6.9 | 28.2 | 46.1 | 58.8 | 77.0 | 2.5 | 1,312 | 20.6 |
| 20-49 | 5.2 | 21.7 | 36.2 | na | na | 22.7 | 12,332 | a |
| 25-49 | 5.7 | 23.2 | 38.4 | 51.5 | 66.8 | 12.8 | 9,638 | 21.8 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | na | na | na | na | 99.0 | 1,424 | a |
| 20-24 | 0.0 | 2.4 | 7.3 | na | na | 85.7 | 1,033 | a |
| 25-29 | 0.0 | 2.7 | 8.7 | 17.3 | 33.0 | 54.5 | 888 | a |
| 30-34 | 0.5 | 3.9 | 9.5 | 16.3 | 31.2 | 29.1 | 853 | 28.3 |
| 35-39 | 0.1 | 3.3 | 11.3 | 19.8 | 34.7 | 12.8 | 809 | 28.2 |
| 40-44 | 0.1 | 3.8 | 8.5 | 20.1 | 38.4 | 8.4 | 713 | 27.0 |
| 45-49 | 0.1 | 1.9 | 7.7 | 18.0 | 35.0 | 3.1 | 557 | 28.0 |
| 20-49 | 0.1 | 3.0 | 8.9 | na | na | 37.1 | 4,853 | a |
| 25-49 | 0.2 | 3.2 | 9.3 | 18.2 | 34.2 | 23.9 | 3,819 | a |
| 20-59 | 0.1 | 3.2 | 9.2 | na | na | 32.5 | 5,620 | a |
| 25-59 | 0.2 | 3.4 | 9.6 | 18.7 | 34.9 | 20.5 | 4,586 | a |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.
na $=$ not applicable due to censoring
$\mathrm{a}=$ omitted because less than $50 \%$ of the respondents began living with their spouse or partner for the first time before reaching the beginning of the age group

Table 4.5 Median age at first marriage according to background characteristics
Median age at first marriage among women age 25-49 and 30-49, and median age at first marriage among men age 30-59 and 35-59, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age |  | Men age |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 25-49 | 30-49 | 30-59 | 35-59 |
| Residence |  |  |  |  |
| Urban | 23.2 | 22.7 | 29.3 | 29.0 |
| Rural | 20.1 | 19.9 | 25.7 | 25.6 |
| Region |  |  |  |  |
| Western | 23.5 | 23.1 | 28.0 | 28.0 |
| Central | 21.3 | 20.9 | 27.8 | 27.8 |
| Greater Accra | 24.7 | 24.5 | a | 30.7 |
| Volta | 21.7 | 21.2 | 27.0 | 26.7 |
| Eastern | 22.1 | 21.5 | 26.4 | 25.3 |
| Ashanti | 21.3 | 20.8 | 27.2 | 26.8 |
| Western North | 20.4 | 20.0 | 25.6 | 25.3 |
| Ahafo | 20.5 | 20.0 | 27.6 | 26.8 |
| Bono | 23.1 | 23.2 | 27.4 | 27.0 |
| Bono East | 20.7 | 19.8 | 28.0 | 27.8 |
| Oti | 20.7 | 20.5 | 25.2 | 24.5 |
| Northern | 20.4 | 20.3 | 26.2 | 26.3 |
| Savannah | 20.2 | 20.1 | 25.5 | 25.5 |
| North East | 19.4 | 19.3 | 25.6 | 25.7 |
| Upper East | 20.0 | 19.5 | 25.0 | 25.1 |
| Upper West | 21.1 | 20.7 | 25.5 | 25.5 |
| Education |  |  |  |  |
| No education | 19.2 | 19.2 | 25.1 | 25.7 |
| Primary | 19.6 | 19.5 | 25.7 | 25.9 |
| Secondary | 22.5 | 22.1 | 27.7 | 27.5 |
| More than secondary | a | 27.7 | a | 30.1 |
| Wealth quintile |  |  |  |  |
| Lowest | 19.3 | 19.1 | 24.9 | 25.1 |
| Second | 20.0 | 19.7 | 25.5 | 25.4 |
| Middle | 21.0 | 20.6 | 26.8 | 26.6 |
| Fourth | 22.5 | 21.9 | 28.5 | 28.2 |
| Highest | a | 25.3 | a | 30.2 |
| Total | 21.8 | 21.3 | 27.7 | 27.4 |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.
$a=$ omitted because less than $50 \%$ of the respondents began living with their spouse/partner for the first time before reaching the beginning of the age group

Table 4.6 Age at first sexual intercourse
Percentage of women and men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age, Ghana DHS 2022

| Current age | Percentage who had first sexual intercourse by exact age: |  |  |  |  | Percentage who never had intercourse | Number | Median age at first intercourse |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 10.2 | na | na | na | na | 60.9 | 2,682 | a |
| 20-24 | 10.5 | 46.5 | 74.1 | na | na | 14.0 | 2,695 | 18.2 |
| 25-29 | 10.4 | 46.6 | 72.6 | 85.4 | 93.4 | 3.8 | 2,340 | 18.2 |
| 30-34 | 11.2 | 49.3 | 73.7 | 86.1 | 93.5 | 1.2 | 2,252 | 18.0 |
| 35-39 | 10.4 | 49.0 | 74.1 | 87.5 | 93.4 | 0.2 | 2,059 | 18.1 |
| 40-44 | 12.7 | 52.3 | 75.7 | 89.8 | 94.0 | 0.1 | 1,675 | 17.9 |
| 45-49 | 10.1 | 52.3 | 77.7 | 88.0 | 93.8 | 0.2 | 1,312 | 17.8 |
| 20-49 | 10.8 | 48.8 | 74.3 | na | na | 4.1 | 12,332 | 18.1 |
| 25-49 | 10.9 | 49.5 | 74.4 | 87.1 | 93.6 | 1.3 | 9,638 | 18.0 |
| 15-24 | 10.3 | na | na | na | na | 37.4 | 5,376 | a |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 8.9 | na | na | na | na | 69.3 | 1,424 | a |
| 20-24 | 6.2 | 31.8 | 59.5 | na | na | 21.8 | 1,033 | 19.3 |
| 25-29 | 7.2 | 30.5 | 57.1 | 76.5 | 90.6 | 4.2 | 888 | 19.5 |
| 30-34 | 4.9 | 20.9 | 48.1 | 68.0 | 83.3 | 1.9 | 853 | 20.1 |
| 35-39 | 4.6 | 24.7 | 51.6 | 70.2 | 85.5 | 1.2 | 809 | 19.9 |
| 40-44 | 3.1 | 22.2 | 45.8 | 69.0 | 85.2 | 1.2 | 713 | 20.3 |
| 45-49 | 5.1 | 22.9 | 46.9 | 69.8 | 82.9 | 0.4 | 557 | 20.2 |
| 20-49 | 5.3 | 26.0 | 52.3 | na | na | 6.2 | 4,853 | 19.8 |
| 25-49 | 5.1 | 24.5 | 50.3 | 70.9 | 85.8 | 2.0 | 3,819 | 20.0 |
| 15-24 | 7.8 | na | na | na | na | 49.3 | 2,458 | a |
| 20-59 | 5.1 | 25.7 | 51.3 | na | na | 5.4 | 5,620 | 19.9 |
| 25-59 | 4.8 | 24.3 | 49.5 | 70.5 | 85.1 | 1.7 | 4,586 | 20.0 |

na $=$ not applicable due to censoring
$a=$ omitted because less than $50 \%$ of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

Table 4.7 Median age at first sexual intercourse according to background characteristics

Median age at first sexual intercourse among women age 20-49 and 25-49, and median age at first sexual intercourse among men age 20-59 and 25-59 according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age |  | Men age |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 20-49 | 25-49 | 20-59 | 25-59 |
| Residence |  |  |  |  |
| Urban | 18.4 | 18.4 | 19.9 | 20.1 |
| Rural | 17.6 | 17.6 | 19.8 | 20.0 |
| Region |  |  |  |  |
| Western | 17.8 | 17.8 | 19.5 | 19.8 |
| Central | 17.5 | 17.4 | a | 20.2 |
| Greater Accra | 18.6 | 18.6 | 19.9 | 20.0 |
| Volta | 18.3 | 18.3 | 19.9 | 20.0 |
| Eastern | 18.0 | 18.0 | 19.4 | 19.5 |
| Ashanti | 18.3 | 18.2 | 19.7 | 19.8 |
| Western North | 17.7 | 17.7 | 18.7 | 18.8 |
| Ahafo | 17.7 | 17.7 | 19.8 | 20.0 |
| Bono | 17.9 | 17.9 | 19.5 | 19.4 |
| Bono East | 17.5 | 17.5 | a | 20.2 |
| Oti | 17.6 | 17.5 | 19.4 | 19.5 |
| Northern | 18.1 | 18.0 | a | 20.4 |
| Savannah | 17.8 | 17.7 | a | 20.5 |
| North East | 17.8 | 17.8 | a | 20.7 |
| Upper East | 17.9 | 18.0 | a | 20.4 |
| Upper West | 18.6 | 18.5 | a | 20.5 |
| Education |  |  |  |  |
| No education | 17.3 | 17.2 | a | 20.2 |
| Primary | 17.1 | 17.1 | 19.1 | 19.3 |
| Secondary | 18.1 | 18.1 | 19.7 | 19.8 |
| More than secondary | a | 20.6 | a | 20.9 |
| Wealth quintile |  |  |  |  |
| Lowest | 17.4 | 17.4 | 19.8 | 20.0 |
| Second | 17.6 | 17.5 | a | 20.2 |
| Middle | 17.7 | 17.6 | 19.6 | 19.9 |
| Fourth | 18.1 | 18.0 | 19.7 | 19.9 |
| Highest | 19.3 | 19.2 | a | 20.2 |
| Total | 18.1 | 18.0 | 19.9 | 20.0 |

$a=$ omitted because less than $50 \%$ of the respondents had intercourse for the first time before reaching the beginning of the age group

Table 4.8.1 Recent sexual activity: Women
Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Ghana DHS 2022

| Background characteristic | Timing of last sexual intercourse |  |  | Never had sexual intercourse | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Within the last 4 weeks | Within 1 year ${ }^{1}$ | One or more years |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 15.9 | 16.6 | 6.6 | 60.9 | 100.0 | 2,682 |
| 20-24 | 40.2 | 33.6 | 12.2 | 14.0 | 100.0 | 2,695 |
| 25-29 | 49.6 | 35.1 | 11.5 | 3.8 | 100.0 | 2,340 |
| 30-34 | 57.1 | 30.2 | 11.5 | 1.2 | 100.0 | 2,252 |
| 35-39 | 58.8 | 27.8 | 13.2 | 0.2 | 100.0 | 2,059 |
| 40-44 | 56.2 | 26.8 | 16.9 | 0.1 | 100.0 | 1,675 |
| 45-49 | 45.6 | 28.5 | 25.7 | 0.2 | 100.0 | 1,312 |
| Marital status |  |  |  |  |  |  |
| Never married | 19.1 | 27.0 | 13.3 | 40.5 | 100.0 | 5,268 |
| Married or living together | 65.6 | 27.8 | 6.5 | 0.0 | 100.0 | 8,205 |
| Divorced/separated/widowed | 20.2 | 35.1 | 44.7 | 0.0 | 100.0 | 1,542 |
| Duration of current union ${ }^{2}$ |  |  |  |  |  |  |
| $<1$ year | 71.1 | 25.5 | 3.1 | 0.2 | 100.0 | 372 |
| 1-4 years | 64.1 | 30.4 | 5.5 | 0.0 | 100.0 | 2,022 |
| 5-9 years | 66.5 | 27.5 | 6.0 | 0.0 | 100.0 | 1,821 |
| 10-14 years | 66.5 | 27.3 | 6.1 | 0.0 | 100.0 | 1,505 |
| 15-19 years | 68.3 | 25.1 | 6.7 | 0.0 | 100.0 | 1,080 |
| 20-24 years | 63.1 | 28.9 | 8.0 | 0.0 | 100.0 | 834 |
| 25+ years | 61.1 | 26.3 | 12.6 | 0.0 | 100.0 | 570 |
| Residence |  |  |  |  |  |  |
| Urban | 42.0 | 29.2 | 13.0 | 15.8 | 100.0 | 8,557 |
| Rural | 48.2 | 27.2 | 12.5 | 12.1 | 100.0 | 6,457 |
| Region |  |  |  |  |  |  |
| Western | 48.6 | 25.7 | 11.4 | 14.3 | 100.0 | 955 |
| Central | 42.6 | 28.4 | 13.8 | 15.1 | 100.0 | 1,703 |
| Greater Accra | 41.5 | 30.5 | 10.7 | 17.3 | 100.0 | 2,327 |
| Volta | 44.1 | 26.0 | 12.9 | 17.0 | 100.0 | 713 |
| Eastern | 47.5 | 25.6 | 12.5 | 14.4 | 100.0 | 1,220 |
| Ashanti | 42.9 | 27.9 | 16.0 | 13.2 | 100.0 | 2,928 |
| Western North | 48.3 | 30.9 | 10.3 | 10.5 | 100.0 | 411 |
| Ahafo | 49.0 | 27.5 | 11.1 | 12.4 | 100.0 | 317 |
| Bono | 46.6 | 26.1 | 11.8 | 15.5 | 100.0 | 567 |
| Bono East | 46.3 | 29.2 | 13.5 | 11.0 | 100.0 | 676 |
| Oti | 44.6 | 33.7 | 10.3 | 11.4 | 100.0 | 403 |
| Northern | 46.6 | 28.0 | 14.0 | 11.4 | 100.0 | 1,149 |
| Savannah | 44.6 | 31.0 | 11.7 | 12.8 | 100.0 | 319 |
| North East | 54.1 | 26.4 | 8.4 | 11.0 | 100.0 | 290 |
| Upper East | 45.2 | 28.9 | 10.9 | 15.0 | 100.0 | 640 |
| Upper West | 41.1 | 29.7 | 12.7 | 16.5 | 100.0 | 398 |
| Education |  |  |  |  |  |  |
| No education | 53.9 | 27.7 | 16.3 | 2.0 | 100.0 | 2,411 |
| Primary | 48.8 | 26.9 | 13.0 | 11.3 | 100.0 | 2,071 |
| Secondary | 41.8 | 28.1 | 11.8 | 18.4 | 100.0 | 8,999 |
| More than secondary | 41.1 | 32.6 | 13.4 | 12.9 | 100.0 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 47.8 | 27.5 | 13.3 | 11.3 | 100.0 | 2,447 |
| Second | 43.5 | 29.4 | 14.2 | 12.9 | 100.0 | 2,712 |
| Middle | 44.7 | 28.1 | 13.8 | 13.3 | 100.0 | 3,121 |
| Fourth | 44.9 | 29.2 | 11.9 | 14.1 | 100.0 | 3,379 |
| Highest | 43.1 | 27.3 | 11.3 | 18.3 | 100.0 | 3,355 |
| Total | 44.7 | 28.3 | 12.8 | 14.2 | 100.0 | 15,014 |

[^15]Table 4.8.2 Recent sexual activity: Men
Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Ghana DHS 2022

\left.|  | Timing of last sexual intercourse |  |  |  |  |  |  |  |  | Never had |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: |
| sexual |  |  |  |  |  |  |  |  |  |  |$\right)$

${ }^{1}$ Excludes men who had sexual intercourse within the last 4 weeks
${ }^{2}$ Excludes men who are not currently married

## Key Findings

- Total fertility rate: The total fertility rate (TFR) for the 3 years preceding the survey is 3.9 children per woman.
- Trends: The TFR has declined over time (from 6.4 in 1988 to 3.9 in 2022).
- Birth intervals: The median birth interval is 40.6 months. Fourteen percent of births occurred less than 24 months after the preceding birth.
- Age at menarche: The mean age at first menstruation among women age $15-49$ is 14.6 years.
- Age at first birth: The median age at first birth among women age 25-49 is 22.1 years.
- Teenage pregnancy: 15\% of women age 15-19 have ever been pregnant, $11 \%$ have had a live birth, $4 \%$ have had a pregnancy loss, and $2 \%$ are currently pregnant.
- Pregnancy outcomes: $82 \%$ of pregnancies ending in the 3 years preceding the survey resulted in live births, $11 \%$ resulted in miscarriages, $7 \%$ were terminated through induced abortions, and $1 \%$ ended in stillbirths.

TThe number of children that a woman bears depends on many factors, including the age she begins childbearing, how long she waits between births, and her fecundity. Postponing first births and extending the interval between births have played a role in reducing fertility levels in many countries. These factors also have positive health consequences. In contrast, short birth intervals (of less than 24 months) can lead to harmful outcomes for both newborns and their mothers, such as preterm birth, low birth weight, and death. Childbearing at a very young age is associated with an increased risk of complications during pregnancy and childbirth and higher rates of neonatal mortality.

This chapter describes the current level of fertility in Ghana and some of its proximate determinants. It presents information on the total fertility rate, birth intervals, insusceptibility to pregnancy (because of postpartum amenorrhoea, postpartum abstinence, or menopause), age at first birth, teenage pregnancy, and induced abortion rates.

### 5.1 Current Fertility

## Total fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates. Age-specific fertility rates are calculated for the 3 years before the survey, based on detailed pregnancy histories provided by women.
Sample: Women age 15-49
The total fertility rate (TFR) is 3.9 children per woman for the 3 -year period preceding the survey. Fertility is higher in rural areas ( 4.8 children per woman) than in urban areas ( 3.2 children per woman) (Table 5.1).

By region, the TFR ranges from 2.9 among women in Greater Accra to 6.6 among women in North East (Map 5.1 and Table 5.2). Age-specific fertility rates (ASFRs) peak among women age 25-29 (190 births per 1,000 women) and fall sharply thereafter. Seven percent of women reported that they were pregnant at the time of the survey (Table 5.1). Table 5.3 presents age-specific fertility rates for 5-year periods preceding the 2022 survey, and Figure 5.1 presents trends in ASFRs from 1988 to 2022.

Trends: The TFR declined from 6.4 children per woman in 1988 to 3.9 in 2022. The TFR among women in rural areas dropped from 7.0 in 1988 to 4.8 in 2022. Among women in urban areas, the TFR decreased from 5.3 to 3.2 over the same period (data not shown).

Map 5.1 Fertility by region
Total fertility rate for the 3 years before the survey


Figure 5.1 Trends in age-specific fertility
Births per 1,000 women


### 5.2 Children Ever Born and Living

By obtaining complete pregnancy histories, the 2022 GDHS allows an estimation of the number of children ever born to women of reproductive age and the number of children living at the time of the survey. Overall, women age 15-49 have an average of 2.2 children, almost all of whom are still alive (Table 5.4). Currently married women have an average of 3.2 children.

### 5.3 BIRTH Intervals

## Median birth interval

Number of months since the preceding birth by which half of children are born.
Sample: Non-first births in the 5 years before the survey

Spacing between births has a positive impact on the health and well-being of both the mother and the child. Research has shown that children born within short intervals after the preceding birth (within 24 months) are at a higher risk of illness and death (Marston 2006; Rutstein 2005) than those born after longer intervals. Conversely, longer birth intervals have been associated with a higher risk of complications such as preeclampsia, labour dystocia, haemorrhage, and obstructed labour (Bauserman et al. 2020; CondeAgudelo et al. 2007; Rutstein 2005). In Ghana, the median interval between births is 40.6 months. Fourteen percent of births occurred less than 24 months after the preceding birth (Table 5.5).

Trends: The median birth interval increased from 34.6 months in 1988 to 40.6 months in 2022.

### 5.4 Insusceptibility to Pregnancy

## Postpartum amenorrhoea

The period of time after the end of a pregnancy and before the resumption of menstruation.

## Postpartum abstinence

The period of time after the end of a pregnancy and before the resumption of sexual intercourse.

## Postpartum insusceptibility

The period of time during which a woman is considered not at risk of pregnancy because she is postpartum amenorrhoeic and/or abstaining from sexual intercourse postpartum.

## Median duration of postpartum amenorrhoea

Number of months after the end of a pregnancy by which time half of women have begun menstruating.
Sample: Women who had a live birth or stillbirth in the 3 years before the survey

## Median duration of postpartum insusceptibility

Number of months after the end of a pregnancy by which time half of women are no longer protected against pregnancy by either postpartum amenorrhoea or abstinence from sexual intercourse.

Sample: Women who had a live birth or stillbirth in the 3 years before the survey

Postpartum amenorrhoea refers to the interval between childbirth and the return of menstruation. The length and intensity of breastfeeding have a bearing on the duration of amenorrhoea, which offers protection from early conception after a preceding birth. Postpartum abstinence refers to the period between childbirth and the time when a woman returns to sexual activity.

Overall, $35 \%$ of women who gave birth in the 3 years preceding the survey are insusceptible to pregnancy because they are amenorrhoeic ( $26 \%$ ) and/or because they are abstaining from sexual intercourse ( $24 \%$ ). Women are amenorrhoeic for a median of 6.7 months and abstain from sexual intercourse for a median of 4.7 months; the median period of insusceptibility is 9.6 months (Table $\mathbf{5 . 6}$ and Table 5.7).

Trends: Between 1988 and 2022, the median duration of postpartum amenorrhoea dropped from 14.4 months to 6.7 months, while the median duration of abstinence decreased from 8.6 months to 4.7 months. The median duration of postpartum insusceptibility decreased from 16.5 months in 1988 to 9.6 months in 2022.

### 5.5 Age at First Menstruation

The onset of menarche is the beginning of sexual maturity in adolescent girls, marking the start of their first menstrual flow. A look at mean age at menarche across different age groups shows a declining trend over time. The average age at first menstruation among women age $15-49$ is 14.6 years. One percent of women had their first menstrual flow by age 10 (Table 5.8).

### 5.6 Arrival of Menopause

## Menopause

Women are considered to have reached menopause if they are neither pregnant nor postpartum amenorrhoeic and have not had a menstrual period in the 6 months before the survey, if they report being menopausal or having had a hysterectomy, or if they have never menstruated.
Sample: Women age 30-49

Beyond age 30, women's ability to become pregnant decreases as increasing percentages of women become infecund. Although the onset of infecundity is difficult to determine, one proxy indicator of infecundity is menopause (Table 5.9). Eight percent of women age 30-49 are menopausal. The percentage of women who are menopausal increases with age, from $2 \%$ among women age $30-34$ to $44 \%$ among women age 48-49.

### 5.7 Age at First Birth

## Median age at first birth

Age by which half of women have had their first child.
Sample: Women age 20-49 and 25-49

The age at which a woman has her first child has an impact on her overall fertility, health, and welfare as well as the health of her child. In Ghana, the median age at first birth among women age 25-49 is 22.1 years (Table 5.10 and Table 5.11). Eleven percent of women have never had a live birth.

### 5.8 Teenage Pregnancy

## Teenage pregnancy

Percentage of women age 15-19 who have ever been pregnant
Sample: Women age 15-19

In Ghana, $15 \%$ of women age $15-19$ have ever been pregnant, $11 \%$ have had a live birth, and $4 \%$ have had a pregnancy loss. Two percent of women age 15-19 reported that they are currently pregnant (Table 5.12). Ten percent of teenage women had sexual intercourse before age $15,2 \%$ were married before age 15 , and $2 \%$ were pregnant before age 15 (Table 5.13). By region, the percentage of women age 15-19 who have ever been pregnant ranges from $6 \%$ in Greater Accra to $26 \%$ in Savannah (Map 5.2).

Map 5.2 Teenage pregnancy by region
Percentage of women age 15-19 who have ever been pregnant


### 5.9 Pregnancy Outcomes and Induced Abortion Rates

## Pregnancy outcomes

Live birth: Stillbirth:

Miscarriage: a pregnancy that ended involuntarily before completing 7 months ( 28 weeks)
Induced abortion: a pregnancy that was voluntarily ended
Sample: Pregnancies among women age 15-49 ending in the 3 years preceding the survey

Eighty-two percent of pregnancies ending in the 3 years preceding the survey resulted in live births, $11 \%$ resulted in miscarriages, $7 \%$ led to induced abortions, and $1 \%$ ended in stillbirths (Table 5.14).

## List of Tables

For more information on fertility levels and some of the determinants of fertility, see the following tables:

- Table 5.1 Current fertility
- Table 5.2 Fertility by background characteristics
- Table 5.3 Trends in age-specific fertility rates
- Table 5.4 Children ever born and living
- Table 5.5 Birth intervals
- Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility
- Table 5.7 Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility
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- Table 5.12 Teenage pregnancy
- Table 5.13 Sexual and reproductive health behaviours before age 15
- Table 5.14 Pregnancy outcome by background characteristics
- Table 5.15 Induced abortion rates


## Table 5.1 Current fertility

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the 3 years preceding the survey, according to residence, Ghana DHS 2022

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Age group | Urban | Rural | Total |
| $10-14$ | 3 | 0 | 2 |
| $15-19$ | 43 | 88 | 63 |
| $20-24$ | 121 | 203 | 156 |
| $25-29$ | 160 | 231 | 190 |
| $30-34$ | 159 | 199 | 176 |
| $35-39$ | 110 | 155 | 128 |
| $40-44$ | 43 | 66 | 53 |
| $45-49$ | 6 | 23 | 14 |
| TFR (15-49) | 3.2 | 4.8 | 3.9 |
| GFR | 109 | 162 | 132 |
| CBR | 25.1 | 30.9 | 27.9 |

Note: Age-specific fertility rates are per 1,000 women. Rates are for the period $1-36$ months preceding the interview. Rates for the 10-14 age group are based on retrospective data from women age 15-17.
TFR: total fertility rate, expressed per woman
GFR: general fertility rate, expressed per 1,000 women age 15-44
CBR: crude birth rate, expressed per 1,000 population

## Table 5.2 Fertility by background characteristics

Total fertility rate for the 3 years preceding the survey, percentage of women age 15-49 currently pregnant, and mean number of children ever born to women age 40-49, according to background characteristics, Ghana DHS 2022

| Background <br> characteristic | Total <br> fertility <br> rate | Percentage of <br> women age <br> 15-49 currently <br> pregnant | Mean number of <br> children ever <br> born to women <br> age $40-49$ |
| :--- | :---: | :---: | :---: |
| Residence |  |  |  |
| Urban | 3.2 | 6.2 | 3.9 |
| Rural | 4.8 | 7.7 | 5.3 |
| Region |  |  |  |
| Western | 3.6 | 7.1 | 4.5 |
| Central | 3.6 | 6.2 | 4.6 |
| Greater Accra | 2.9 | 6.2 | 3.5 |
| Volta | 3.2 | 6.2 | 4.1 |
| Eastern | 3.5 | 7.7 | 4.2 |
| Ashanti | 3.5 | 5.8 | 4.4 |
| Western North | 3.8 | 6.5 | 4.6 |
| Ahafo | 4.3 | 6.4 | 4.8 |
| Bono | 3.7 | 6.6 | 4.3 |
| Bono East | 4.7 | 6.2 | 4.9 |
| Oti | 5.2 | 8.3 | 5.7 |
| Northern | 5.6 | 9.6 | 5.9 |
| Savannah | 5.8 | 9.9 | 5.9 |
| North East | 6.6 | 10.6 | 6.3 |
| Upper East | 4.6 | 6.7 | 5.0 |
| $\quad$ Upper West | 4.5 | 6.5 | 5.1 |
| Education |  |  |  |
| No education | 5.8 | 7.9 | 5.6 |
| Primary | 4.7 | 7.2 | 4.8 |
| Secondary | 3.5 | 6.6 | 3.9 |
| More than secondary | 2.5 | 5.8 | 2.4 |
| Wealth quintile |  |  |  |
| Lowest | 5.9 | 8.2 | 6.0 |
| Second | 4.9 | 6.9 | 5.3 |
| Middle | 3.7 | 6.2 | 4.7 |
| Fourth | 3.1 | 7.4 | 4.0 |
| Highest | 2.7 | 6.8 | 3.0 |
| Total | 3.9 |  | 4.5 |

Note: Total fertility rates are for the period 1-36 months prior to the interview.

## Table 5.3 Trends in age-specific fertility rates

Age-specific fertility rates for 5 -year periods preceding the survey, according to age group, Ghana DHS 2022

|  | Number of years preceding survey |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Age group | $0-4$ | $5-9$ | $10-14$ | $15-19$ |
| $10-14$ | 1 | 3 | 4 | 4 |
| $15-19$ | 63 | 64 | 75 | 83 |
| $20-24$ | 152 | 152 | 173 | 185 |
| $25-29$ | 191 | 206 | 207 | 225 |
| $30-34$ | 182 | 188 | 204 | 207 |
| $35-39$ | 125 | 145 | 159 |  |
| $40-44$ | 58 | 82 |  |  |
| $45-49$ | 17 |  |  |  |

Note: Age-specific fertility rates are per 1,000 women. For the $0-4$ year period, rates for the 10-14 age group are based on retrospective data from women age 15-19.

Table 5.4 Children ever born and living
Percent distribution of all women and currently married women age 15-49 by number of children ever born, mean number of children ever born, and mean number of living children, according to age group, Ghana DHS 2022

| Age group | Number of children ever born |  |  |  |  |  |  |  |  |  |  | Total | Number of women | Mean number of children ever born | Mean number of living children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |  |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 89.1 | 10.1 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2,682 | 0.12 | 0.11 |
| 20-24 | 53.2 | 29.9 | 13.0 | 3.1 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2,695 | 0.69 | 0.66 |
| 25-29 | 25.4 | 28.7 | 23.0 | 14.7 | 6.4 | 1.4 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 2,340 | 1.54 | 1.48 |
| 30-34 | 10.9 | 14.4 | 22.6 | 20.0 | 16.6 | 9.1 | 4.7 | 1.4 | 0.2 | 0.1 | 0.0 | 100.0 | 2,252 | 2.72 | 2.58 |
| 35-39 | 5.3 | 7.4 | 15.5 | 20.0 | 20.5 | 14.7 | 8.4 | 5.4 | 1.9 | 0.6 | 0.4 | 100.0 | 2,059 | 3.66 | 3.45 |
| 40-44 | 2.8 | 6.5 | 10.5 | 16.3 | 19.0 | 16.0 | 11.7 | 8.3 | 5.0 | 2.8 | 1.1 | 100.0 | 1,675 | 4.38 | 4.05 |
| 45-49 | 2.8 | 6.7 | 7.3 | 15.0 | 18.2 | 16.0 | 12.7 | 9.6 | 5.0 | 4.2 | 2.4 | 100.0 | 1,312 | 4.66 | 4.24 |
| Total | 32.3 | 16.1 | 13.4 | 11.7 | 10.2 | 6.8 | 4.3 | 2.7 | 1.3 | 0.8 | 0.4 | 100.0 | 15,014 | 2.19 | 2.05 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 39.8 | 51.1 | 6.8 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 194 | 0.71 | 0.69 |
| 20-24 | 18.9 | 46.4 | 25.4 | 7.3 | 1.9 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1,013 | 1.27 | 1.23 |
| 25-29 | 9.7 | 27.4 | 29.6 | 20.6 | 10.0 | 1.8 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 1,457 | 2.03 | 1.94 |
| 30-34 | 4.6 | 12.5 | 23.1 | 21.9 | 19.2 | 10.8 | 5.9 | 1.6 | 0.2 | 0.1 | 0.0 | 100.0 | 1,719 | 3.05 | 2.89 |
| 35-39 | 2.2 | 5.7 | 13.6 | 20.1 | 22.9 | 16.3 | 9.9 | 5.9 | 2.3 | 0.7 | 0.4 | 100.0 | 1,641 | 3.95 | 3.75 |
| 40-44 | 1.3 | 4.1 | 8.4 | 15.9 | 20.4 | 17.1 | 13.5 | 9.6 | 5.7 | 3.2 | 0.9 | 100.0 | 1,239 | 4.67 | 4.33 |
| 45-49 | 2.0 | 6.0 | 6.0 | 14.2 | 17.0 | 16.8 | 14.2 | 9.9 | 6.1 | 4.8 | 2.9 | 100.0 | 941 | 4.90 | 4.47 |
| Total | 6.8 | 16.9 | 18.1 | 17.2 | 15.6 | 10.4 | 7.0 | 4.1 | 2.1 | 1.2 | 0.6 | 100.0 | 8,205 | 3.23 | 3.04 |

Table 5.5 Birth intervals
Percent distribution of non-first live births in the 5 years preceding the survey by number of months since preceding live birth, and median number of months since preceding live birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Months since preceding live birth |  |  |  |  |  | Total | Number of non-first live births | Median number of months since preceding live birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7-17 | 18-23 | 24-35 | 36-47 | 48-59 | 60+ |  |  |  |
| Mother's age |  |  |  |  |  |  |  |  |  |
| 15-19 | (18.8) | (4.2) | (70.6) | (6.5) | (0.0) | (0.0) | 100.0 | 22 | (27.5) |
| 20-29 | 5.5 | 12.1 | 32.7 | 21.3 | 12.5 | 15.8 | 100.0 | 1,858 | 35.8 |
| 30-39 | 4.0 | 9.2 | 25.9 | 21.2 | 14.0 | 25.6 | 100.0 | 3,444 | 41.2 |
| 40-49 | 2.6 | 6.0 | 18.0 | 21.3 | 17.0 | 35.1 | 100.0 | 923 | 49.5 |
| Sex of preceding birth |  |  |  |  |  |  |  |  |  |
| Male | 4.7 | 10.1 | 26.6 | 22.0 | 13.0 | 23.6 | 100.0 | 3,150 | 40.0 |
| Female | 3.8 | 9.1 | 27.3 | 20.4 | 15.0 | 24.4 | 100.0 | 3,097 | 41.3 |
| Survival of preceding birth |  |  |  |  |  |  |  |  |  |
| Living | 3.7 | 9.2 | 26.9 | 21.7 | 14.2 | 24.4 | 100.0 | 5,971 | 41.1 |
| Dead | 18.2 | 18.8 | 27.6 | 11.4 | 9.2 | 14.8 | 100.0 | 276 | 29.3 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 2-3 | 4.6 | 10.1 | 25.4 | 19.6 | 13.7 | 26.6 | 100.0 | 3,273 | 41.4 |
| 4-6 | 4.1 | 8.4 | 27.5 | 22.7 | 14.8 | 22.5 | 100.0 | 2,422 | 40.6 |
| 7+ | 3.2 | 11.6 | 33.4 | 24.1 | 12.3 | 15.3 | 100.0 | 552 | 36.9 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.4 | 9.8 | 24.5 | 19.4 | 14.9 | 27.0 | 100.0 | 2,910 | 42.3 |
| Rural | 4.2 | 9.4 | 29.0 | 22.8 | 13.1 | 21.4 | 100.0 | 3,337 | 39.3 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 7.3 | 10.3 | 26.4 | 19.4 | 11.8 | 24.8 | 100.0 | 394 | 39.2 |
| Central | 5.6 | 8.7 | 27.2 | 17.0 | 12.7 | 28.8 | 100.0 | 646 | 40.9 |
| Greater Accra | 5.1 | 11.3 | 23.2 | 16.7 | 12.7 | 31.0 | 100.0 | 745 | 42.3 |
| Volta | 4.1 | 10.3 | 24.4 | 16.8 | 12.0 | 32.5 | 100.0 | 233 | 43.4 |
| Eastern | 3.0 | 10.6 | 22.8 | 23.9 | 10.8 | 29.0 | 100.0 | 456 | 42.1 |
| Ashanti | 3.9 | 10.4 | 25.3 | 19.2 | 15.7 | 25.4 | 100.0 | 1,077 | 41.3 |
| Western North | 7.8 | 7.7 | 22.4 | 22.9 | 13.7 | 25.5 | 100.0 | 169 | 41.7 |
| Ahafo | 5.0 | 9.1 | 24.7 | 22.3 | 12.2 | 26.6 | 100.0 | 141 | 41.2 |
| Bono | 5.2 | 7.6 | 24.2 | 18.4 | 14.4 | 30.2 | 100.0 | 202 | 42.6 |
| Bono East | 5.1 | 11.3 | 26.6 | 21.1 | 13.2 | 22.7 | 100.0 | 344 | 39.9 |
| Oti | 3.6 | 9.3 | 31.9 | 19.8 | 14.5 | 20.9 | 100.0 | 220 | 39.5 |
| Northern | 2.6 | 8.7 | 32.6 | 28.2 | 15.2 | 12.7 | 100.0 | 750 | 38.1 |
| Savannah | 4.4 | 11.2 | 39.1 | 19.2 | 15.0 | 11.2 | 100.0 | 198 | 34.5 |
| North East | 1.6 | 7.5 | 38.8 | 26.1 | 15.0 | 11.0 | 100.0 | 211 | 36.8 |
| Upper East | 3.0 | 6.7 | 21.2 | 27.4 | 17.9 | 23.7 | 100.0 | 280 | 43.0 |
| Upper West | 2.2 | 5.3 | 28.2 | 30.1 | 17.7 | 16.6 | 100.0 | 180 | 41.2 |
| Mother's education |  |  |  |  |  |  |  |  |  |
| No education | 3.5 | 8.4 | 31.9 | 25.3 | 13.6 | 17.3 | 100.0 | 1,776 | 38.7 |
| Primary | 3.6 | 10.3 | 24.5 | 19.4 | 12.8 | 29.3 | 100.0 | 1,030 | 42.7 |
| Secondary | 4.9 | 9.3 | 24.8 | 19.4 | 14.7 | 26.9 | 100.0 | 2,924 | 42.0 |
| More than secondary | 5.1 | 13.4 | 27.1 | 20.6 | 13.5 | 20.3 | 100.0 | 516 | 38.1 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 4.1 | 9.7 | 34.1 | 24.6 | 13.8 | 13.8 | 100.0 | 1,588 | 36.8 |
| Second | 3.9 | 8.5 | 28.0 | 21.3 | 14.5 | 23.9 | 100.0 | 1,298 | 40.5 |
| Middle | 5.4 | 9.0 | 23.9 | 20.2 | 14.4 | 27.2 | 100.0 | 1,216 | 42.8 |
| Fourth | 4.2 | 8.4 | 21.5 | 20.9 | 12.1 | 32.9 | 100.0 | 1,114 | 44.7 |
| Highest | 3.9 | 12.8 | 24.2 | 17.4 | 15.2 | 26.5 | 100.0 | 1,031 | 40.7 |
| Total | 4.3 | 9.6 | 26.9 | 21.2 | 14.0 | 24.0 | 100.0 | 6,247 | 40.6 |

Note: First-order live births are excluded. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth. Figures in parentheses are based on 25-49 unweighted cases.

Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility
Percentage of live births and stillbirths in the 3 years preceding the survey for which mothers are postpartum amenorrhoeic, abstaining, and insusceptible, according to number of months since birth, and median and mean durations, Ghana DHS 2022

|  | Percentage of births for which the mother is: |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Months since birth | Amenorrhoeic | Abstaining | Insusceptible $^{1}$ | Number of births ${ }^{2}$ |
| $<2$ | 86.4 | 95.5 | 97.0 | 315 |
| $2-3$ | 73.7 | 71.0 | 86.9 | 279 |
| $4-5$ | 60.7 | 42.9 | 72.7 | 274 |
| $6-7$ | 46.4 | 28.3 | 57.4 | 321 |
| $8-9$ | 37.9 | 23.7 | 48.5 | 252 |
| $10-11$ | 38.9 | 21.5 | 48.4 | 302 |
| $12-13$ | 27.2 | 21.4 | 42.0 | 322 |
| $14-15$ | 18.5 | 20.4 | 33.3 | 285 |
| $16-17$ | 13.3 | 16.4 | 25.3 | 330 |
| $18-19$ | 14.4 | 13.2 | 24.2 | 348 |
| $20-21$ | 7.8 | 11.6 | 17.3 | 300 |
| $22-23$ | 6.8 | 12.3 | 17.1 | 268 |
| $24-25$ | 3.2 | 8.9 | 10.9 | 290 |
| $26-27$ | 3.8 | 2.7 | 6.0 | 246 |
| $28-29$ | 2.5 | 5.2 | 6.8 | 254 |
| $30-31$ | 2.0 | 6.8 | 8.3 | 335 |
| $32-33$ | 5.6 | 5.4 | 10.7 | 223 |
| $34-35$ | 1.8 | 4.5 | 5.9 | 233 |
| Total | 25.7 | 23.5 | 35.2 | 5,177 |
| Median | 6.7 | 4.7 | 9.6 | na |
| Mean | 10.0 | 9.2 | 13.4 | na |

Note: Estimates are based on status at the time of the survey.
na = not applicable
${ }^{1}$ Includes live births and stillbirths for which mothers are either still amenorrhoeic or still abstaining (or both) following birth 2 Includes live births and stillbirths

## Table 5.7 Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility

Median number of months of postpartum amenorrhoea, postpartum abstinence, and postpartum insusceptibility following live births and stillbirths in the 3 years preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Postpartum amenorrhoea | Postpartum abstinence | Postpartum insusceptibility ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
| Mother's age |  |  |  |
| 15-29 | 7.1 | 4.8 | 10.2 |
| 30-49 | 6.4 | 4.6 | 8.4 |
| Residence |  |  |  |
| Urban | 6.4 | 4.6 | 9.0 |
| Rural | 7.1 | 4.8 | 11.0 |
| Region |  |  |  |
| Western | (4.9) | (4.9) | (8.9) |
| Central | 5.9 | (4.3) | 7.6 |
| Greater Accra | (7.0) | 4.1 | (9.0) |
| Volta | (9.6) | (4.1) | (12.5) |
| Eastern | 5.3 | (4.1) | 6.4 |
| Ashanti | 5.8 | 5.3 | 14.0 |
| Western North | (6.1) | (5.0) | (9.7) |
| Ahafo | 6.4 | 5.1 | 13.3 |
| Bono | (6.9) | * | (8.2) |
| Bono East | 5.0 | 4.6 | 6.3 |
| Oti | 9.4 | 5.7 | 11.6 |
| Northern | 8.8 | 5.2 | 10.6 |
| Savannah | 10.6 | 7.9 | 13.0 |
| North East | 10.3 | 6.3 | 13.2 |
| Upper East | 8.3 | 4.6 | 11.1 |
| Upper West | 10.9 | 4.8 | 12.7 |
| Mother's education |  |  |  |
| No education | 11.2 | 5.0 | 13.3 |
| Primary | 7.4 | 5.1 | 9.7 |
| Secondary | 6.2 | 4.6 | 8.7 |
| More than secondary | 4.9 | 4.3 | 6.6 |
| Wealth quintile |  |  |  |
| Lowest | 11.6 | 5.4 | 14.4 |
| Second | 6.4 | 5.5 | 9.7 |
| Middle | 6.5 | 4.6 | 9.5 |
| Fourth | 6.1 | 4.6 | 7.2 |
| Highest | 4.5 | 3.9 | 7.0 |
| Total | 6.7 | 4.7 | 9.6 |

Note: Medians are based on status at the time of the survey (current status). Figures in parentheses are based on 2549 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth

## Table 5.8 Age at first menstruation

Percentage of women age 15-49 whose first menstruation occurred by specific exact ages, percentage who have never menstruated, and mean age at menarche, according to current age, Ghana DHS 2022

| Current age | Age at menarche |  |  |  |  |  | Percentage who have never menstruated | Don't know | Total | Number of women | Mean age at menarche |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\leq 10$ | 11 | 12 | 13 | 14 | 15+ |  |  |  |  |  |
| 15-19 | 2.2 | 3.8 | 12.8 | 24.8 | 24.7 | 29.1 | 2.5 | 0.2 | 100.0 | 2,682 | 13.7 |
| 20-24 | 1.2 | 3.9 | 10.5 | 16.9 | 18.5 | 48.5 | 0.1 | 0.5 | 100.0 | 2,695 | 14.4 |
| 25-29 | 0.9 | 2.8 | 8.7 | 15.1 | 19.5 | 51.9 | 0.0 | 1.0 | 100.0 | 2,340 | 14.7 |
| 30-34 | 0.8 | 1.9 | 7.5 | 14.6 | 19.4 | 54.7 | 0.3 | 0.8 | 100.0 | 2,252 | 14.7 |
| 35-39 | 0.9 | 1.9 | 6.6 | 11.0 | 18.9 | 58.9 | 0.1 | 1.8 | 100.0 | 2,059 | 15.0 |
| 40-44 | 0.5 | 1.6 | 6.2 | 10.9 | 16.6 | 62.9 | 0.3 | 1.0 | 100.0 | 1,675 | 15.1 |
| 45-49 | 1.0 | 0.7 | 4.7 | 10.9 | 17.2 | 64.4 | 0.0 | 1.1 | 100.0 | 1,312 | 15.2 |
| Total | 1.1 | 2.6 | 8.7 | 15.7 | 19.6 | 50.9 | 0.5 | 0.9 | 100.0 | 15,014 | 14.6 |

## Table 5.9 Menopause

Percentage of women age 30-49 who are menopausal, according to age, Ghana DHS 2022

| Age | Percentage <br> menopausal $^{1}$ | Number of <br> women |
| :--- | :---: | :---: |
| $30-34$ | 1.8 | 2,252 |
| $35-39$ | 2.5 | 2,059 |
| $40-41$ | 4.2 | 699 |
| $42-43$ | 9.0 | 713 |
| $44-45$ | 16.5 | 615 |
| $46-47$ | 23.5 | 490 |
| $48-49$ | 44.2 | 469 |
| Total | 8.4 | 7,298 |

${ }^{1}$ Percentage of women (1) who are not pregnant, (2) who have had a birth in the past 5 years and are not postpartum amenorrhoeic, and (3) for whom one of the following additional conditions applies: (a) their last menstrual period occurred 6 or more months preceding the survey, (b) they declared that they are in menopause or have had a hysterectomy, or (c) they have never menstruated

Table 5.10 Age at first birth
Percentage of women age 15-49 who had a live birth by specific exact ages, percentage who have never had a live birth, and median age at first live birth, according to current age, Ghana DHS 2022

| Current age | Percentage who had a live birth by exact age |  |  |  |  | Percentage who have never had a live birth | Number of women | Median age at first live birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| 15-19 | 0.7 | na | na | na | na | 89.1 | 2,682 | a |
| 20-24 | 1.5 | 11.8 | 26.6 | na | na | 53.2 | 2,695 | a |
| 25-29 | 1.7 | 13.6 | 28.8 | 43.5 | 63.6 | 25.4 | 2,340 | 23.0 |
| 30-34 | 2.3 | 17.2 | 33.7 | 50.0 | 67.4 | 10.9 | 2,252 | 22.0 |
| 35-39 | 2.3 | 17.1 | 33.0 | 49.1 | 69.8 | 5.3 | 2,059 | 22.1 |
| 40-44 | 3.1 | 17.9 | 36.3 | 54.1 | 72.7 | 2.8 | 1,675 | 21.4 |
| 45-49 | 3.2 | 19.9 | 37.6 | 54.0 | 73.1 | 2.8 | 1,312 | 21.4 |
| 20-49 | 2.2 | 15.7 | 31.9 | na | na | 20.0 | 12,332 | a |
| 25-49 | 2.4 | 16.8 | 33.3 | 49.5 | 68.7 | 10.7 | 9,638 | 22.1 |

na $=$ not applicable due to censoring
$a=$ omitted because less than $50 \%$ of women had a birth before reaching the beginning of the age group

Table 5.11 Median age at first birth
Median age at first live birth among women age 20-49 and age 25-49, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age |  |
| :---: | :---: | :---: |
|  | 25-49 | 30-49 |
| Residence |  |  |
| Urban | 23.4 | 23.1 |
| Rural | 20.8 | 20.7 |
| Region |  |  |
| Western | 21.6 | 21.2 |
| Central | 21.4 | 21.4 |
| Greater Accra | 24.5 | 24.4 |
| Volta | 22.2 | 21.8 |
| Eastern | 21.8 | 21.6 |
| Ashanti | 22.2 | 21.7 |
| Western North | 21.1 | 20.9 |
| Ahafo | 21.1 | 20.8 |
| Bono | 22.4 | 22.3 |
| Bono East | 20.8 | 20.6 |
| Oti | 20.6 | 20.5 |
| Northern | 21.9 | 21.7 |
| Savannah | 20.9 | 20.9 |
| North East | 20.5 | 20.5 |
| Upper East | 21.0 | 20.6 |
| Upper West | 22.1 | 21.8 |
| Education |  |  |
| No education | 20.2 | 20.2 |
| Primary | 19.9 | 20.0 |
| Secondary | 22.5 | 22.4 |
| More than secondary | a | 28.7 |
| Wealth quintile |  |  |
| Lowest | 20.4 | 20.3 |
| Second | 20.5 | 20.4 |
| Middle | 20.9 | 20.8 |
| Fourth | 22.8 | 22.0 |
| Highest | a | 25.7 |
| Total | 22.1 | 21.8 |

$a=$ omitted because less than $50 \%$ of women had a birth before reaching the beginning of the age group

## Table 5.12 Teenage pregnancy

Percentage of women age 15-19 who have ever had a live birth, percentage who have ever had a pregnancy loss, percentage who are currently pregnant, and percentage who have ever been pregnant, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of women age 15-19 who: |  |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Have ever had a live birth | Have ever had a pregnancy loss ${ }^{1}$ | Are currently pregnant | Have ever been pregnant |  |
| Age |  |  |  |  |  |
| 15 | 1.3 | 0.6 | 0.6 | 2.4 | 655 |
| 16 | 3.7 | 1.3 | 1.6 | 6.3 | 506 |
| 17 | 12.1 | 3.4 | 1.1 | 16.2 | 568 |
| 18 | 17.8 | 8.0 | 3.4 | 24.7 | 480 |
| 19 | 23.8 | 7.8 | 3.2 | 31.6 | 473 |
| Residence |  |  |  |  |  |
| Urban | 8.0 | 4.2 | 1.1 | 11.4 | 1,458 |
| Rural | 14.4 | 3.5 | 2.8 | 19.7 | 1,223 |
| Region |  |  |  |  |  |
| Western | 10.7 | 2.4 | 3.3 | 14.7 | 177 |
| Central | 7.0 | 5.4 | 2.4 | 12.9 | 354 |
| Greater Accra | 5.4 | 2.3 | 0.6 | 6.0 | 364 |
| Volta | 7.8 | 2.7 | 1.9 | 11.8 | 158 |
| Eastern | 11.4 | 3.0 | 0.0 | 13.7 | 202 |
| Ashanti | 16.8 | 8.4 | 1.1 | 23.9 | 470 |
| Western North | 10.6 | 6.0 | 4.0 | 18.9 | 79 |
| Ahafo | 8.5 | 3.5 | 2.6 | 13.4 | 59 |
| Bono | 6.0 | 1.9 | 0.9 | 8.3 | 113 |
| Bono East | 19.1 | 3.9 | 1.0 | 22.3 | 135 |
| Oti | 15.4 | 2.8 | 4.0 | 21.1 | 87 |
| Northern | 11.2 | 0.6 | 2.5 | 14.2 | 161 |
| Savannah | 17.5 | 3.9 | 6.1 | 25.9 | 67 |
| North East | 17.5 | 1.4 | 5.9 | 23.5 | 56 |
| Upper East | 6.2 | 0.0 | 2.1 | 8.2 | 111 |
| Upper West | 10.4 | 2.0 | 2.1 | 13.8 | 89 |
| Education |  |  |  |  |  |
| No education | 26.5 | 5.7 | 8.3 | 34.3 | 99 |
| Primary | 20.3 | 4.9 | 2.8 | 26.2 | 404 |
| Secondary | 8.6 | 3.7 | 1.4 | 12.5 | 2,150 |
| More than secondary | * | * | * | * | 29 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 17.5 | 2.1 | 4.1 | 23.1 | 462 |
| Second | 15.0 | 3.7 | 2.2 | 19.2 | 568 |
| Middle | 13.0 | 6.1 | 1.5 | 17.9 | 639 |
| Fourth | 5.0 | 4.1 | 1.6 | 9.6 | 523 |
| Highest | 3.7 | 2.8 | 0.3 | 5.7 | 490 |
| Total | 10.9 | 3.9 | 1.9 | 15.2 | 2,682 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ${ }^{1}$ Stillbirth, miscarriage, or abortion

Table 5.13 Sexual and reproductive health behaviours before age 15
Among women and men age 15-19, percentage who initiated sexual intercourse, were married, and had a live birth/fathered a child before age 15, according to sex, and percentage of women who were pregnant before age 15, Ghana DHS 2022

|  | Had sexual <br> intercourse before <br> age 15 | Married before <br> age 15 | Had a live <br> birth/fathered a <br> child before age <br> 15 | Pregnant before <br> age 15 | Number |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Sex | 10.2 | 1.5 | 0.7 | 2.3 | 2,682 |
| Women | 8.9 | 0.0 | 0.0 | na | 1,424 |
| Men |  |  |  |  |  |

[^16]Table 5.14 Pregnancy outcome by background characteristics
Percent distribution of pregnancies ending in the 3 years preceding the survey by type of outcome, according to background characteristics, Ghana DHS 2022

| Background characteristic | Pregnancy outcome |  |  |  | Total | Number of pregnancies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Live birth | Stillbirth ${ }^{1}$ | Miscarriage ${ }^{2}$ | Induced abortion |  |  |
| Age at pregnancy outcome |  |  |  |  |  |  |
| <20 | 74.7 | 2.3 | 6.7 | 16.2 | 100.0 | 668 |
| 20-24 | 80.3 | 0.9 | 9.8 | 9.1 | 100.0 | 1,501 |
| 25-34 | 84.6 | 1.2 | 9.9 | 4.3 | 100.0 | 2,906 |
| 35-44 | 80.6 | 1.2 | 14.4 | 3.8 | 100.0 | 1,278 |
| 45-49 | 71.9 | 6.9 | 17.3 | 4.0 | 100.0 | 54 |
| Pregnancy order |  |  |  |  |  |  |
| First | 79.7 | 1.8 | 9.6 | 8.9 | 100.0 | 1,485 |
| Second | 80.0 | 0.6 | 11.4 | 8.0 | 100.0 | 1,321 |
| Third | 80.8 | 0.8 | 12.9 | 5.5 | 100.0 | 1,029 |
| Fourth | 84.5 | 0.6 | 10.5 | 4.4 | 100.0 | 864 |
| Fifth or higher | 83.7 | 2.0 | 9.2 | 5.1 | 100.0 | 1,707 |
| Residence |  |  |  |  |  |  |
| Urban | 78.3 | 1.0 | 12.4 | 8.3 | 100.0 | 3,195 |
| Rural | 85.0 | 1.6 | 8.6 | 4.8 | 100.0 | 3,212 |
| Region |  |  |  |  |  |  |
| Western | 81.6 | 0.9 | 11.1 | 6.4 | 100.0 | 394 |
| Central | 76.2 | 1.8 | 9.8 | 12.2 | 100.0 | 705 |
| Greater Accra | 76.4 | 1.2 | 12.4 | 10.0 | 100.0 | 837 |
| Volta | 77.5 | 2.1 | 15.5 | 4.9 | 100.0 | 251 |
| Eastern | 74.2 | 0.9 | 13.6 | 11.3 | 100.0 | 501 |
| Ashanti | 78.8 | 1.2 | 11.9 | 8.1 | 100.0 | 1,175 |
| Western North | 80.4 | 0.6 | 9.6 | 9.4 | 100.0 | 177 |
| Ahafo | 88.3 | 1.0 | 7.3 | 3.4 | 100.0 | 131 |
| Bono | 81.6 | 1.7 | 11.0 | 5.8 | 100.0 | 215 |
| Bono East | 86.8 | 0.5 | 10.2 | 2.4 | 100.0 | 326 |
| Oti | 84.6 | 1.6 | 12.0 | 1.9 | 100.0 | 214 |
| Northern | 91.0 | 2.0 | 6.9 | 0.1 | 100.0 | 637 |
| Savannah | 87.4 | 1.0 | 8.9 | 2.8 | 100.0 | 189 |
| North East | 94.5 | 1.2 | 3.3 | 1.1 | 100.0 | 184 |
| Upper East | 90.9 | 0.7 | 7.6 | 0.8 | 100.0 | 298 |
| Upper West | 89.2 | 1.4 | 6.6 | 2.8 | 100.0 | 173 |
| Education |  |  |  |  |  |  |
| No education | 90.1 | 1.4 | 6.4 | 2.1 | 100.0 | 1,273 |
| Primary | 82.9 | 2.8 | 8.7 | 5.7 | 100.0 | 972 |
| Secondary | 78.5 | 0.8 | 11.8 | 9.0 | 100.0 | 3,572 |
| More than secondary | 80.2 | 1.8 | 14.9 | 3.0 | 100.0 | 590 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 90.3 | 1.6 | 6.1 | 2.0 | 100.0 | 1,377 |
| Second | 86.0 | 1.4 | 6.9 | 5.8 | 100.0 | 1,276 |
| Middle | 80.1 | 1.4 | 10.7 | 7.8 | 100.0 | 1,298 |
| Fourth | 75.6 | 0.4 | 14.5 | 9.5 | 100.0 | 1,296 |
| Highest | 75.0 | 1.7 | 15.2 | 8.1 | 100.0 | 1,160 |
| Total | 81.7 | 1.3 | 10.5 | 6.5 | 100.0 | 6,407 |

[^17]Table 5.15 Induced abortion rates
Age-specific and total induced abortion rates, and general abortion rates, for the 3 years preceding the survey, according to residence, Ghana DHS 2022

|  | Residence |  |  |
| :--- | :---: | :---: | :---: |
| Age group | Urban | Rural | Total |
| $10-14$ | 1 | 0 | 1 |
| $15-19$ | 16 | 10 | 13 |
| $20-24$ | 18 | 16 | 17 |
| $25-29$ | 12 | 10 | 11 |
| $30-34$ | 7 | 6 | 7 |
| $35-39$ | 7 | 3 | 5 |
| $40-44$ | 2 | 5 | 4 |
| $45-49$ | 0 | 2 | 1 |
| TAR (15-49) | 0.3 | 0.3 | 0.3 |
| GAR | 11 | 9 | 10 |

Note: Age-specific induced abortion rates are per 1,000 women. Rates are for the period 1-36 months preceding the interview. Rates for the 10-14 age group are based on retrospective data from women age 15-17
TAR: total induced abortion rate, expressed per woman
GAR: general induced abortion rate, expressed per 1,000 women age 1544

## Key Findings

- Desire for another child: $27 \%$ of currently married women want to have another child within 2 years and $30 \%$ want to wait at least 2 years.
- Desire to limit childbearing: $33 \%$ of women do not want to have another child, including $3 \%$ who are sterilized.
- Trends: Desire to limit childbearing (including through sterilisation) among currently married women declined slightly from $34 \%$ in 1993 to $33 \%$ in 2022. In contrast, desire to limit childbearing among currently married men increased from $24 \%$ in 1993 to $28 \%$ in 2022.
- Ideal family size: The mean ideal number of children is 4.5 among women overall and 4.9 among currently married women.
- Family planning status: $61 \%$ of live births and current pregnancies were planned at the time of conception, $30 \%$ were mistimed, and $9 \%$ were not wanted at all.
- Wanted fertility rates: The total wanted fertility rate is 3.4 children, while the actual total fertility rate is 3.9 children; thus, on average, women are having 0.5 more children than they want.

Information on fertility preferences can help family planning programme planners assess the desire for children, the extent of mistimed and unwanted pregnancies, and the demand for contraception to space or limit births. This information suggests the direction that fertility patterns could take in the future.

This chapter presents information on whether and when married women and men want more children, their ideal family size, whether the last birth was wanted, and the theoretical fertility rate if all unwanted births were prevented.

### 6.1 Desire for Another Child

## Desire for another child

Women and men were asked whether they wanted more children and, if so, how long they would prefer to wait before the birth of the next child. Women and men who are sterilised are assumed not to want any more children.
Sample: Currently married women and men age 15-49

The findings of the survey indicate that there is considerable desire among married Ghanaians to control the timing and number of births. Thirty-three percent of currently married women age 15-49 do not want to have another child or are sterilised, and $30 \%$ would like to wait for 2 or more years for the next birth. Twenty-seven percent of women want to have another child within 2 years. Similarly, $28 \%$ of men do not want to have another child or are sterilised, and nearly 4 in $10(38 \%)$ would like to wait for 2 or more years for the next birth (Table 6.1).

The proportion of both women and men who want to have a child soon is inversely associated with the number of living children. Over 7 in 10 (77\%) currently married women with no living children want to have a child soon, as compared with $11 \%$ of women with six or more children. Among currently married men, $72 \%$ of those with no living children want to have a child soon, as compared with $18 \%$ of those with six or more children. The desire to limit childbearing rises with number of living children, from $3 \%$ among married women with no living children to near $70 \%$ among those with six or more living children (Figure 6.1, Figure 6.2, and Table 6.2.1). Similar to women, the percentage of married men who want no more children rises with number of living children (Table 6.2.2).

Trends: The desire to limit childbearing (including through sterilisation) among currently married women declined slightly from $34 \%$ in 1993 to $33 \%$ in 2022. In contrast, the desire to limit childbearing among currently married men increased from $24 \%$ in 1993 to $28 \%$ in 2022.

Figure 6.1 Desire to limit childbearing by number of living children

Percentage of currently married women age 15-49 who want no more children


## Figure 6.2 Trends in desire to limit childbearing

Percentage of currently married women and men age 15-49 who want no more children


### 6.2 Ideal Family Size

## Ideal family size

Respondents with no children were asked "If you could choose exactly the number of children to have in your whole life, how many would that be?" Respondents who had children were asked "If you could go back to the time when you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?"
Sample: Women and men age 15-49

The mean ideal number of children is 4.5 among women overall and 4.9 among currently married women, while the ideal number is 5.0 among all men (Figure 6.3). Among women, the mean ideal number of children increases with the number of living children, from 4.0 children among those with one child to 6.5 children among those with six or more children. A similar pattern is observed among men (Table 6.3 and Table 6.4).

Trends: The mean ideal number of children among all women age 15-49 decreased from 5.3 in 1998 to 4.3 in 2014 before increasing to 4.5 in 2022.

### 6.3 Fertility Planning Status

## Planning status of births/pregnancies

Women reported whether their births/pregnancies were wanted at the time (planned birth), at a later time (mistimed birth), or not at all (unwanted birth).
Sample: Current pregnancies and live births in the 3 years before the survey among women age 15-49 and all pregnancy outcomes in the 3 years before the survey among women age 15-49

Sixty-one percent of live births and current pregnancies were wanted at the time of conception, $30 \%$ were mistimed, and $9 \%$ were not wanted at all (Figure 6.4 and Table 6.5).

Trends: The percentage of planned births increased from $57 \%$ in 1993 to $66 \%$ in 2014 and then declined to $61 \%$ in 2022. Over the same period, births and pregnancies that were mistimed declined from 33\% in 1993 to $25 \%$ in 2008 before increasing to $27 \%$ in 2014 and $30 \%$ in 2022. Unwanted births and pregnancies rose from $9 \%$ in 1993 to a peak of $18 \%$ in 2003 before declining once again to $9 \%$ in 2022.

Figure 6.4 Fertility planning status
Percent distribution of pregnancy outcomes among women age 15-49 in the three years before the survey by planning status of pregnancy


### 6.4 Wanted Fertility Rates

## Unwanted birth

Any birth in excess of the number of children a woman reported as her ideal number.

## Wanted birth

Any birth less than or equal to the number of children a woman reported as her ideal number.
Wanted fertility rate
The average number of children a woman would have by the end of her childbearing years if she bore children at the current agespecific fertility rates, excluding unwanted births.
Sample: Women age 15-49

The wanted fertility rate represents the level of fertility that would have prevailed if all unwanted births were prevented. The total wanted fertility rate is 3.4 children, while the actual total fertility rate is 3.9 children; thus, on average, women are having 0.5 more children than they want (Table 6.6).

Trends: The total wanted fertility rate declined from 5.3 children in 1988 to 3.4 children in 2022. Over the same period, the gap between wanted and actual fertility decreased from 1.1 children to 0.5 children (Figure 6.5)

Figure 6.5 Trends in wanted and actual fertility
Wanted and actual number of children per woman


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- Table 6.3 Ideal number of children according to number of living children
- Table 6.4 Mean ideal number of children according to background characteristics
- Table 6.5 Fertility planning status
- Table 6.6 Wanted fertility rates

Table 6.1 Fertility preferences according to number of living children
Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Ghana DHS 2022

| Desire for children | Number of living children |  |  |  |  |  |  | $\begin{gathered} \text { Total } \\ 15-49 \end{gathered}$ | Total 15-59 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |  |
| WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 76.5 | 39.7 | 33.2 | 22.9 | 17.2 | 13.3 | 10.7 | 27.2 | na |
| Have another later ${ }^{3}$ | 15.3 | 49.1 | 42.9 | 30.7 | 21.9 | 16.7 | 10.1 | 29.8 | na |
| Have another, undecided when | 3.5 | 6.3 | 4.4 | 3.9 | 3.1 | 2.2 | 1.5 | 3.8 | na |
| Undecided | 0.9 | 1.8 | 3.7 | 4.5 | 5.7 | 5.3 | 5.8 | 4.2 | na |
| Want no more | 2.1 | 1.4 | 13.3 | 31.2 | 45.3 | 55.6 | 61.4 | 29.8 | na |
| Sterilised ${ }^{4}$ | 0.4 | 0.0 | 0.4 | 4.4 | 4.4 | 4.9 | 6.9 | 3.0 | na |
| Declared infecund | 1.3 | 1.6 | 2.0 | 2.3 | 2.4 | 2.0 | 3.7 | 2.2 | na |
| Missing | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | na |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | na |
| Number | 449 | 1,351 | 1,610 | 1,571 | 1,321 | 923 | 980 | 8,205 | na |
| MEN ${ }^{5}$ |  |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 71.7 | 37.7 | 33.2 | 25.0 | 19.0 | 18.4 | 18.2 | 29.2 | 26.8 |
| Have another later ${ }^{3}$ | 23.0 | 57.5 | 50.6 | 38.0 | 23.8 | 26.3 | 27.0 | 37.9 | 32.1 |
| Have another, undecided when | 2.0 | 1.3 | 3.0 | 2.1 | 2.4 | 3.2 | 0.6 | 2.1 | 1.9 |
| Undecided | 2.1 | 1.0 | 1.7 | 4.2 | 5.6 | 3.0 | 2.2 | 2.9 | 2.7 |
| Want no more | 0.7 | 2.2 | 10.9 | 29.5 | 47.6 | 47.5 | 51.2 | 27.0 | 35.2 |
| Sterilised ${ }^{4}$ | 0.0 | 0.0 | 0.5 | 1.2 | 0.8 | 0.9 | 0.5 | 0.6 | 0.9 |
| Declared infecund | 0.4 | 0.1 | 0.1 | 0.2 | 0.5 | 0.8 | 0.3 | 0.3 | 0.4 |
| Missing | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 179 | 451 | 585 | 511 | 442 | 265 | 394 | 2,828 | 3,485 |

na $=$ not applicable
${ }^{1}$ The number of living children includes a woman's current pregnancy.
${ }^{2}$ Wants next birth within 2 years
${ }^{3}$ Wants to delay next birth for 2 or more years
${ }^{4}$ Includes both female and male sterilisation
${ }^{5}$ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.2.1 Desire to limit childbearing: Women
Percentage of currently married women age 15-49 who want no more children by number of living children, according to background characteristics, Ghana DHS 2022

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 3.6 | 1.0 | 18.5 | 42.7 | 57.0 | 71.6 | 76.5 | 34.7 |
| Rural | 1.1 | 2.1 | 6.6 | 26.6 | 41.5 | 52.2 | 64.7 | 30.8 |
| Region |  |  |  |  |  |  |  |  |
| Western | * | 2.2 | 12.1 | 42.7 | 66.3 | 71.6 | (74.3) | 41.3 |
| Central | * | 2.2 | 13.1 | 39.4 | 61.2 | 73.2 | 78.8 | 38.7 |
| Greater Accra | (4.4) | 1.7 | 28.9 | 61.7 | 75.2 | (82.6) | (79.3) | 43.5 |
| Volta | * | 0.0 | 15.7 | 40.7 | 67.6 | (69.3) | (69.7) | 37.0 |
| Eastern | (0.0) | 2.7 | 14.9 | 35.3 | 57.2 | (82.1) | 84.1 | 37.5 |
| Ashanti | (4.1) | 1.3 | 12.0 | 40.5 | 50.8 | 68.3 | 77.7 | 36.0 |
| Western North | * | 1.1 | 7.3 | 34.5 | 64.1 | 70.8 | 84.6 | 40.3 |
| Ahafo | (0.0) | 3.3 | 16.7 | 27.8 | 37.6 | 62.3 | 76.5 | 35.7 |
| Bono | * | 0.7 | 14.9 | 33.1 | 55.4 | 67.7 | (87.6) | 34.3 |
| Bono East | * | 0.0 | 11.8 | 23.6 | 34.5 | 41.2 | 60.0 | 26.5 |
| Oti | * | 1.4 | 7.8 | 25.7 | 29.8 | 49.9 | 58.4 | 28.5 |
| Northern | 2.6 | 1.2 | 3.0 | 9.0 | 13.6 | 24.4 | 45.5 | 14.9 |
| Savannah | (9.6) | 0.0 | 2.8 | 7.4 | 15.6 | 19.5 | 46.7 | 15.7 |
| North East | (1.8) | 0.0 | 1.6 | 6.8 | 13.0 | 13.4 | 54.2 | 16.4 |
| Upper East | (2.1) | 0.0 | 2.9 | 19.3 | 34.6 | 64.9 | 57.9 | 21.7 |
| Upper West | (0.0) | 5.1 | 8.2 | 13.9 | 36.0 | 56.7 | 76.2 | 27.1 |
| Education |  |  |  |  |  |  |  |  |
| No education | 0.5 | 2.0 | 3.8 | 22.7 | 29.5 | 45.2 | 58.6 | 33.4 |
| Primary | 0.0 | 2.7 | 14.4 | 33.7 | 38.6 | 66.1 | 73.1 | 36.3 |
| Secondary | 3.6 | 1.4 | 13.8 | 35.6 | 62.6 | 74.3 | 82.9 | 31.9 |
| More than secondary | 2.0 | 0.0 | 22.1 | 59.9 | 70.2 | * | * | 31.3 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 0.4 | 1.8 | 4.6 | 13.5 | 26.8 | 40.4 | 59.5 | 26.5 |
| Second | 1.5 | 2.5 | 8.2 | 21.1 | 39.9 | 58.7 | 66.1 | 32.3 |
| Middle | 5.0 | 0.3 | 9.9 | 32.4 | 48.2 | 67.6 | 76.5 | 34.4 |
| Fourth | 1.2 | 0.8 | 16.4 | 42.7 | 60.6 | 80.2 | 75.9 | 33.5 |
| Highest | 3.8 | 1.8 | 22.2 | 52.5 | 72.7 | 70.9 | (91.5) | 37.2 |
| Total | 2.5 | 1.4 | 13.7 | 35.6 | 49.7 | 60.5 | 68.2 | 32.8 |

Note: Women who have been sterilised or whose husband has been sterilised are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ The number of living children includes a woman's current pregnancy.

Table 6.2.2 Desire to limit childbearing: Men
Percentage of currently married men age 15-49 who want no more children by number of living children, according to background characteristics, Ghana DHS 2022

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 0.0 | 3.0 | 13.4 | 39.6 | 55.8 | 51.4 | 56.4 | 30.2 |
| Rural | 1.8 | 1.4 | 8.9 | 18.0 | 39.4 | 46.0 | 49.1 | 24.8 |
| Region |  |  |  |  |  |  |  |  |
| Western | * | * | (22.9) | (21.5) | * | * | * | 35.5 |
| Central | * | ** | (10.5) | (41.7) | * | * | * | 30.7 |
| Greater Accra |  | (0.0) | (18.7) | 48.1 | (57.4) | * | * | 34.2 |
| Volta | * | * | (28.7) | (36.0) | * | * | * | 37.0 |
| Eastern | * | * | (6.7) | * | * | * | (84.0) | 42.7 |
| Ashanti | * | (3.8) | (6.5) | (43.0) | (60.1) | * |  | 34.7 |
| Western North | * | (9.1) | (17.7) | * | * | * | (63.5) | 36.7 |
| Ahafo | * | (0.0) | (3.0) | (20.8) | * | * | (59.7) | 24.1 |
| Bono | * | * | (11.7) | (14.3) | * | * | * | 23.7 |
| Bono East | * | (0.0) | (13.1) | (18.6) | (27.9) | * | (46.3) | 20.1 |
| Oti | * | (0.0) | (7.7) | (10.3) | (30.2) | * | (48.4) | 23.4 |
| Northern | * | (0.0) | 1.8 | (0.0) | (13.5) | (0.0) | 15.6 | 5.5 |
| Savannah |  | (2.5) | (1.4) | (2.7) | (5.9) |  | 15.5 | 7.2 |
| North East |  | (0.0) | (8.2) | (4.1) | (22.3) | * | 25.0 | 11.8 |
| Upper East |  | (0.0) | (5.9) | (8.5) | * | * | * | 16.4 |
| Upper West | * | (2.6) | (6.7) | (13.6) | * | * | (35.9) | 17.7 |
| Education |  |  |  |  |  |  |  |  |
| No education | * | 0.9 | 2.9 | 16.7 | 37.0 | 20.9 | 25.7 | 19.7 |
| Primary | * | 0.0 | 6.7 | 18.4 | 40.8 | (48.7) | 64.9 | 28.5 |
| Secondary | 1.1 | 3.3 | 11.4 | 29.8 | 51.4 | 60.3 | 65.6 | 28.8 |
| More than secondary | (0.0) | 1.0 | 17.9 | 48.7 | 56.9 |  | (64.0) | 31.1 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | (2.7) | 0.6 | 6.3 | 3.3 | 27.0 | 29.4 | 36.3 | 18.5 |
| Second | (0.0) | 2.1 | 3.8 | 19.7 | 39.3 | 49.5 | 59.2 | 27.7 |
| Middle | (2.8) | 2.7 | 10.7 | 26.0 | 49.4 | 50.3 | 60.3 | 27.6 |
| Fourth | (0.0) | 4.3 | 14.8 | 31.5 | 60.8 | (74.9) | 61.3 | 30.6 |
| Highest | (0.0) | 1.3 | 16.6 | 52.1 | 56.0 | (52.3) | (62.0) | 32.1 |
| Total 15-49 | 0.7 | 2.2 | 11.4 | 30.6 | 48.4 | 48.3 | 51.8 | 27.6 |
| 50-59 | * | * | (56.7) | 81.5 | 79.5 | 69.8 | 71.7 | 72.1 |
| Total 15-59 | 3.0 | 3.2 | 14.4 | 37.9 | 54.8 | 54.5 | 60.2 | 36.0 |

Note: Men who have been sterilised or who state in response to the question about desire for children that their wife has been sterilised are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.3 Ideal number of children according to number of living children
Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to number of living children, Ghana DHS 2022

| Ideal number of children | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 0 | 0.8 | 0.5 | 0.8 | 0.6 | 0.7 | 0.7 | 1.2 | 0.7 |
| 1 | 0.7 | 0.8 | 0.7 | 0.4 | 0.4 | 0.1 | 0.1 | 0.6 |
| 2 | 11.5 | 8.2 | 8.1 | 4.5 | 3.8 | 2.2 | 0.8 | 7.3 |
| 3 | 28.8 | 30.5 | 18.4 | 12.3 | 8.0 | 7.7 | 4.8 | 20.0 |
| 4 | 35.0 | 33.5 | 42.1 | 37.4 | 27.2 | 19.1 | 18.6 | 32.9 |
| 5 | 13.2 | 13.9 | 12.6 | 20.1 | 17.4 | 19.7 | 11.7 | 14.9 |
| 6+ | 9.4 | 11.2 | 16.2 | 22.6 | 41.1 | 47.5 | 59.4 | 22.2 |
| Non-numeric responses | 0.6 | 1.4 | 1.0 | 2.0 | 1.4 | 3.0 | 3.2 | 1.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 4,714 | 2,453 | 2,140 | 1,928 | 1,572 | 1,078 | 1,128 | 15,014 |
| Mean ideal number of childre for women 15-49: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All women | 3.9 | 4.0 | 4.3 | 4.7 | 5.2 | 5.7 | 6.5 | 4.5 |
| Number of women | 4,685 | 2,420 | 2,118 | 1,889 | 1,550 | 1,045 | 1,092 | 14,798 |
| Currently married women | 4.3 | 4.2 | 4.3 | 4.7 | 5.2 | 5.8 | 6.5 | 4.9 |
| Number of currently married women | 447 | 1,337 | 1,598 | 1,541 | 1,299 | 898 | 944 | 8,064 |
| MEN ${ }^{3}$ |  |  |  |  |  |  |  |  |
| 0 | 0.9 | 0.1 | 0.8 | 1.6 | 1.7 | 0.9 | 0.8 | 0.9 |
| 1 | 0.8 | 0.9 | 0.4 | 0.7 | 0.1 | 0.3 | 0.1 | 0.6 |
| 2 | 10.5 | 6.1 | 6.8 | 5.6 | 1.4 | 1.9 | 2.2 | 7.6 |
| 3 | 27.1 | 29.0 | 20.2 | 19.6 | 10.9 | 6.4 | 6.5 | 22.4 |
| 4 | 25.4 | 27.7 | 28.2 | 27.1 | 29.2 | 16.7 | 8.8 | 24.9 |
| 5 | 16.4 | 15.7 | 15.4 | 19.1 | 13.6 | 21.1 | 7.6 | 15.9 |
| 6+ | 17.3 | 18.8 | 26.7 | 24.7 | 39.5 | 50.3 | 70.1 | 25.7 |
| Non-numeric responses | 1.7 | 1.6 | 1.5 | 1.6 | 3.5 | 2.3 | 4.0 | 2.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 3,199 | 684 | 672 | 567 | 472 | 274 | 408 | 6,277 |
| Mean ideal number of children for men 15-49: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All men | 4.3 | 4.6 | 4.8 | 4.9 | 5.7 | 6.4 | 9.2 | 5.0 |
| Number of men | 3,145 | 673 | 662 | 558 | 455 | 268 | 392 | 6,153 |
| Currently married men | 4.3 | 4.7 | 4.8 | 4.9 | 5.8 | 6.4 | 9.2 | 5.7 |
| Number of currently married men | 178 | 444 | 575 | 503 | 425 | 258 | 378 | 2,761 |
| Mean ideal number of children for men 15-59: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All men | 4.3 | 4.6 | 4.8 | 4.8 | 5.6 | 6.3 | 9.0 | 5.1 |
| Number of men | 3,173 | 700 | 715 | 659 | 587 | 386 | 672 | 6,892 |
| Currently married men | 4.3 | 4.7 | 4.8 | 4.8 | 5.6 | 6.3 | 9.1 | 5.9 |
| Number of currently married men | 182 | 461 | 616 | 588 | 533 | 365 | 647 | 3,391 |

[^18]${ }^{2}$ Means are calculated excluding respondents who gave non-numeric responses.
${ }^{3}$ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.4 Mean ideal number of children according to background characteristics
Mean ideal number of children for all women age 1549, according to background characteristics, Ghana DHS 2022

| Background characteristic | Mean | Number of women ${ }^{1}$ |
| :---: | :---: | :---: |
| Age |  |  |
| 15-19 | 4.0 | 2,668 |
| 20-24 | 4.1 | 2,676 |
| 25-29 | 4.3 | 2,314 |
| 30-34 | 4.5 | 2,210 |
| 35-39 | 4.9 | 2,039 |
| 40-44 | 5.1 | 1,615 |
| 45-49 | 5.4 | 1,275 |
| Residence |  |  |
| Urban | 4.2 | 8,441 |
| Rural | 4.9 | 6,357 |
| Region |  |  |
| Western | 4.1 | 951 |
| Central | 4.0 | 1,690 |
| Greater Accra | 3.8 | 2,306 |
| Volta | 3.8 | 705 |
| Eastern | 4.1 | 1,201 |
| Ashanti | 4.4 | 2,835 |
| Western North | 4.4 | 408 |
| Ahafo | 4.5 | 317 |
| Bono | 4.2 | 566 |
| Bono East | 4.9 | 671 |
| Oti | 5.2 | 386 |
| Northern | 6.2 | 1,138 |
| Savannah | 6.3 | 316 |
| North East | 6.5 | 288 |
| Upper East | 5.2 | 624 |
| Upper West | 5.2 | 398 |
| Education |  |  |
| No education | 6.2 | 2,351 |
| Primary | 4.8 | 2,030 |
| Secondary | 4.1 | 8,899 |
| More than secondary | 3.6 | 1,519 |
| Wealth quintile |  |  |
| Lowest | 5.7 | 2,418 |
| Second | 5.0 | 2,653 |
| Middle | 4.4 | 3,085 |
| Fourth | 4.1 | 3,320 |
| Highest | 3.8 | 3,323 |
| Total | 4.5 | 14,798 |

${ }^{1}$ Number of women who gave a numeric response

## Table 6.5 Fertility planning status

Percent distribution of live births and current pregnancies among women age 15-49 in the 3 years preceding the survey by planning status of the pregnancy, according to birth order and mother's age at birth, Ghana DHS 2022

|  | Planning status of pregnancy outcome |  |  |  | Number of <br> pregnancy <br> outcomes ${ }^{1}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Characteristic | Wanted <br> then | Wanted <br> later | Wanted <br> no more |  | Total |

${ }^{1}$ For pregnancies that resulted in multiple outcomes (for example, twins), each outcome is counted individually.
${ }^{2}$ For current pregnancies, the maternal age at birth is estimated as the mother's expected age at the time of the birth.

## Table 6.6 Wanted fertility rates

Total wanted fertility rates and total fertility rates for the 3 years preceding the survey, according to background characteristics, Ghana DHS 2022

| Background <br> characteristic | Total wanted <br> fertility rate | Total fertility <br> rate |
| :--- | :---: | :---: |
| Residence |  |  |
| $\quad$ Urban | 2.8 | 3.2 |
| Rural | 4.2 | 4.8 |
| Region |  |  |
| Western | 3.0 | 3.6 |
| Central | 2.8 | 3.6 |
| Greater Accra | 2.6 | 2.9 |
| Volta | 2.7 | 3.2 |
| Eastern | 3.0 | 3.5 |
| Ashanti | 3.0 | 3.5 |
| Western North | 3.3 | 3.8 |
| Ahafo | 3.7 | 4.3 |
| Bono | 3.4 | 3.7 |
| Bono East | 4.3 | 4.7 |
| Oti | 4.6 | 5.2 |
| Northern | 5.1 | 5.6 |
| Savannah | 5.4 | 5.8 |
| North East | 6.5 | 6.6 |
| Upper East | 4.5 | 4.6 |
| Upper West | 4.2 | 4.5 |
| Education |  |  |
| No education | 5.3 | 5.8 |
| Primary | 3.9 | 4.7 |
| Secondary | 3.1 | 3.5 |
| More than secondary | 2.3 | 2.5 |
| Wealth quintile |  |  |
| Lowest | 5.2 | 5.9 |
| Second | 4.3 | 4.9 |
| Middle | 3.1 | 3.7 |
| Fourth | 2.7 | 3.1 |
| Highest | 2.4 | 2.7 |
| Total | 3.4 | 3.9 |
|  |  |  |

Note: Rates are calculated based on births to women age
15-49 in the period 1-36 months preceding the survey The total fertility rates are the same as those presented in Table 5.2.

## Key Findings

- Contraceptive knowledge: Knowledge of at least one method (traditional or modern) of contraception is nearly universal among both women and men.
- Contraceptive use: $32 \%$ of women overall are using a method of contraception; $23 \%$ are using a modern method and $8 \%$ are using a traditional method. Twentyeight percent of currently married women and $45 \%$ of sexually active unmarried women are using a modern method.
- Source of modern contraceptives: The government sector remains the major source of contraceptive methods in Ghana, providing methods to 59\% of users. The private sector (nongovernmental organisation [NGO] and non-NGO sources) provides contraceptives to $39 \%$ of users.
- Discontinuation of contraceptives: The primary reasons for discontinuing a contraceptive method are desire to become pregnant ( $21 \%$ ), side effects/health concerns (17\%), and infrequent sex or the husband being away (17\%).
- Need and demand for family planning: $23 \%$ of currently married women and $25 \%$ of sexually active unmarried women have an unmet need for family planning. The total demand for family planning that is satisfied with modern methods is 47\% among currently married women and $52 \%$ among sexually active unmarried women.

Family planning remains a priority for the government of Ghana and is a key factor in several policy and strategic documents such as the National Population Policy, the National Reproductive Health Service Policy and Standards (2014), the Ghana Family Planning Costed Implementation Plan (2016-2020), and the Reproductive, Maternal, Newborn, Child, and Adolescent Health and Nutrition Strategic Plan (2020-2025).

The goal of the national family planning programme in Ghana is to assist couples and individuals in achieving their reproductive goals and improving their general reproductive health. The programme's objectives include provision of information, education, and counselling to individuals and couples on starting, spacing, and limiting childbearing; provision of a wide range of affordable, safe, and effective contraceptives; and provision of information on how to manage reproductive tract infections and sexually transmitted infections (STIs), including HIV and AIDS.

### 7.1 Contraceptive Knowledge and Use

### 7.1.1 Contraceptive Knowledge

Acquiring knowledge about contraceptive methods is an important step towards gaining access to family planning services and adopting a suitable contraceptive method. The ability to recognise a family planning method when it is described is a simple test of respondents' knowledge of the method but not necessarily an indication of the extent of their knowledge.

Knowledge of at least one method (traditional or modern) among women and men age 15-49 is nearly universal in Ghana (Table 7.1 and Table 7.2).

Modern methods are more widely known ( $99 \%$ of women and men) than traditional methods ( $88 \%$ of women and men). Overall, knowledge of contraceptive methods is slightly higher among women than men; women know on average 9.5 contraceptive methods, as compared with 8.4 among men.

Knowledge of modern methods is similar among currently married and sexually active unmarried women. Knowledge of traditional methods is higher among sexually active unmarried women (96\%) than among their currently married counterparts ( $89 \%$ ).

Among men, the most widely known traditional method is withdrawal ( $84 \%$ ), while the most widely known modern method is the male condom ( $99 \%$ ).

## Contraceptive prevalence

Percentage of women who use any contraceptive method.
Sample: All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

## Modern methods

Include male and female sterilisation, intrauterine devices (IUDs), injectables, implants, contraceptive pills, male and female condoms, emergency contraception, the standard days method, and the lactational amenorrhoea method.

### 7.1.2 Contraceptive Prevalence

More than a third of currently married women (36\%) and more than 6 in $10(63 \%)$ sexually active unmarried women are using a method of
contraception (Figure 7.1 and Tables 7.3.1 and 7.4). Women in both groups are more likely to use modern methods than traditional methods; $28 \%$ and $8 \%$ of married women use modern and traditional methods, respectively, as compared with $46 \%$ and $17 \%$ of their sexually active unmarried counterparts.
Contraceptive use varies considerably by region, from $17 \%$ in North East to $51 \%$ in Central for any method and from $15 \%$ in North East to $36 \%$ in Adafo and Western for modern methods (Maps 7.1a and 7.1.b). Table 7.3.2 presents data on condom use by age among all men and among currently married men. Condom use is less common among currently married men than among all men ( $5 \%$ versus $9 \%$ ).

Figure 7.1 Contraceptive use


Use of condoms decreases with age among all men as well as currently married men.

## Maps 7.1a and 7.1b Contraceptive use by region

Percentage of currently married women age 15-49 using any contraceptive method and percentage using modern methods


Among currently married women, injectables and implants are the most used modern contraceptives ( $8 \%$ each), while IUDs and the standard days method are least commonly used (less than $1 \%$ each).

Emergency contraceptives are the most used method (12\%) among sexually active unmarried women, followed by implants and injectables ( $10 \%$ each). Less than $1 \%$ of sexually active unmarried women use female sterilisation, IUDs, the standard days method, or the lactational amenorrhoea method. Among all men, $9 \%$ use condoms, as compared with $5 \%$ among those who are currently married (Table 7.3.2).

Trends: Data from seven DHS surveys conducted in Ghana since 1988 show that contraceptive use among all women, currently married women, and sexually active unmarried women has been increasing over time (Figure 7.2).

Figure 7.2 Trends in contraceptive use


Percentage of sexually active unmarried women currently using a contraceptive method


Use of any method of contraception among currently married women increased from $27 \%$ in 2014 to $36 \%$ in 2022. Similarly, use of modern methods increased from $22 \%$ in 2014 to $28 \%$ in 2022. After having fluctuated since 1988, use of traditional methods increased from 5\% in 2014 to $9 \%$ in 2022.

Among sexually active unmarried women, contraceptive use also increased between the 2014 and 2022 surveys, from $45 \%$ to $63 \%$. Both modern and traditional contraceptive use increased within this period, with a higher increase for modern contraception ( $32 \%$ in 2014 and $46 \%$ in 2022) than traditional methods (13\% in 2014 and 17\% in 2022).

### 7.1.3 Timing of Sterilisation

Use of female sterilisation as a method of contraception among women age 15-49 is very low in Ghana ( $3 \%$ among currently married women and less than $1 \%$ among sexually active unmarried women) (Table 7.3.1).

Women are most likely to undergo female sterilisation at age 35-39 (40\%) and age 30-34 (29\%) (Table 7.5).

### 7.1.4 Use of DMPA-SC/Sayana Press

Subcutaneous depot medroxyprogesterone acetate (DMPA-SC) was introduced in Ghana in 2019 (for both provider-administered injections and self-injections) through a two-phase national introduction and scaleup plan. Phase 1 provides DMPA-SC through public and private sector health facilities across the country and Phase 2 through social marketing. The country has been implementing Phase 1 since 2019 and is piloting Phase 2 in selected regions.

Nearly 7 in 10 current users of injectables are using DMPA-SC (68\%) (Table 7.6).

### 7.1.5 Use of Emergency Contraception

Emergency contraception is defined as use of any medicine or device after unprotected sexual intercourse to prevent an unintended pregnancy. Per national policies and service protocols, emergency contraception should be used only in "emergencies" and not as a regular family planning method. Indications for use include unprotected sexual intercourse within the previous 120 hours, sexual assault when the victim is not regularly taking effective contraceptives, and contraceptive failure such as condom breakage, missed oral contraceptive pills, and lateness for scheduled injectables.

One in 10 women age 15-49 used emergency contraception in the 12 months preceding the survey (Table 7.7). Emergency contraceptive use was most common among women age 20-24 (19\%) and least common among women age 45-49 (2\%).

### 7.1.6 Knowledge of the Fertile Period

Basic knowledge of reproductive physiology provides a useful background for the successful practice of methods based on fertility awareness (for example, the rhythm method and the standard days method). Knowledge of the fertile period among women using family planning is also important with respect to emergency contraceptive use in the event of unprotected sexual intercourse and method failure.

Overall, $44 \%$ of women age $15-49$ correctly report that the fertile period during the ovulatory cycle is halfway between two menstrual periods (Table 7.8 and Table 7.9).

Effective use of the rhythm method requires accurate knowledge of the fertile method. While more than half of rhythm users (59\%) were able to correctly identify a woman's fertile period, $27 \%$ incorrectly reported that a woman's most fertile period is directly after menstruation has ended (Table 7.8)

These results indicate a sustained need for education about women's reproductive physiology and its importance for the effective use of contraceptive methods.

### 7.2 Source of Modern Contraceptive Methods

## Source of modern contraceptives

The place where the modern method currently being used was obtained the last time it was acquired.
Sample: Women age 15-49 currently using a modern contraceptive method

Information on the main sources of contraception is important for programme managers and implementers who design service delivery strategies, as well as for monitoring, evaluation, and demographic forecasting.

The public sector remains the major source of contraceptive methods in Ghana, providing methods to $59 \%$ of current contraceptive users (Table 7.10). Within the public sector, the main sources are government hospitals or polyclinics ( $26 \%$ ) and government health centres and clinics ( $19 \%$ ).

Almost 4 in 10 users (39\%) obtain their methods from the private medical sector (both nongovernmental organisation [NGO] and non-NGO sources), with drug stores ( $18 \%$ ) and pharmacies ( $16 \%$ ) being the most common sources.

More than 8 in 10 long-acting reversible and permanent methods (implants, $94 \%$; IUDs, $94 \%$; injectables, $89 \%$; female sterilisation, $86 \%$ ) are obtained at or provided by public sector facilities in conformity with the standards outlined in the National Reproductive Health Service Policy and Standards (Figure 7.3).

Figure 7.3 Source of modern contraceptive methods


On the other hand, 8 in 10 pill users ( $81 \%$ ), 9 in 10 male condom users ( $92 \%$ ), and almost all emergency contraceptive pill users ( $98 \%$ ) obtain their contraceptives from private medical sector non-NGO sources (Figure 7.3).

## Use of Social Marketing Brand Pills and Condoms

Information about use of social marketing brands of pills and condoms in Ghana is used to monitor social marketing programmes within the comprehensive family planning programme.

Among pill users, the most common brands used are Secure (60\%) and Microgynon (10\%), and the least common brands used are Duofem (less than $1 \%$ ) and Microlut (1\%) (Table 7.11).

The most used brands of male condoms among condom users are Kiss (68\%), Fiesta (21\%), and Durex ( $6 \%$ ). Gold Circle ( $1 \%$ ) and Be Safe/no label (less than $1 \%$ ) are the least commonly used brands.

### 7.3 Informed Choice

## Informed choice

Informed choice indicates that women were informed about their method's side effects, about what to do if they experience side effects, and about other methods they could use.
Sample: Women age 15-49 who are currently using selected modern contraceptive methods and who started the last episode of use within the 5 years before the survey

Informed choice is an important metric of the quality of family planning services. Family planning clients have a right to information about their choice of contraceptive method. Being informed assists users in coping with side effects and decreases unnecessary discontinuations.

About 6 in 10 modern contraceptive users were informed by a health or family planning worker about potential side effects of the method they use ( $60 \%$ ) and about what to do if they experienced side effects ( $64 \%$ ), and almost 7 in $10(66 \%)$ were informed of other available methods of contraception (Table 7.12). Overall, half of users ( $50 \%$ ) received all three types of information. This information was most likely to be received by IUD users ( $75 \%$ ) and least likely to be received by pill users ( $23 \%$ ).

Users were less likely to receive information about side effects or problems of the method used from a private sector non-NGO facility than from a public medical facility ( $31 \%$ versus $69 \%$ ). Similarly, they were less likely to receive information about what to do if they experienced side effects ( $34 \%$ versus $73 \%$ ) and information about other methods that could be used ( $37 \%$ versus $76 \%$ ) from a private facility than from a public facility.

Sixty-five percent of users received information about switching to another method if they wanted to or needed to. Users were less likely to receive information about switching to another method from a private facility than a public medical facility ( $36 \%$ versus $74 \%$ ).

### 7.4 Discontinuation of Contraceptives

## Contraceptive discontinuation rate

Percentage of contraceptive use episodes discontinued within 12 months.
Sample: Episodes of contraceptive use in the 5 years before the survey experienced by women who are currently age 15-49 (one woman may contribute more than one episode)

Couples can fulfil their reproductive goals only when they consistently and correctly use contraceptive methods. A prominent concern for family planning programmes is the rate at which contraceptive users discontinue using their methods, particularly while they are still in need.

Overall, $45 \%$ of all episodes of contraceptive use were discontinued within 12 months (Table 7.13). Apart from emergency contraceptive pills ( $65 \%$ ), the discontinuation rate was highest for injectables ( $60 \%$ ); the rate was lowest for implants ( $25 \%$ ).

The primary reasons for discontinuing a method (Table 7.14 and Figure 7.4) were desire to become pregnant ( $21 \%$ ), side effects/health concerns (17\%), and infrequent sex or the husband being away (17\%).

Side effects/health concerns were most often reported as the reason for discontinuing use of injectables ( $28 \%$ ) and implants ( $39 \%$ ), while the main reason cited for discontinuing pill use was desire to become pregnant ( $26 \%$ ).

Figure 7.4 Contraceptive discontinuation rates
Percentage of contraceptive episodes discontinued within 12 months

### 7.5 Demand for Family Planning

## Unmet need for family planning

Proportion of women who (1) are not pregnant and not postpartum amenorrheic and are considered fecund and want to postpone their next birth for 2 or more years or stop childbearing altogether but are not using a contraceptive method, or (2) have a mistimed or unwanted current pregnancy, or (3) are postpartum amenorrheic and their last birth in the last 2 years was mistimed or unwanted.
Sample: All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

Demand for family planning:

Proportion of demand satisfied:

## Proportion of demand satisfied by modern methods:

Unmet need for family planning

+ current contraceptive use (any method)

Current contraceptive use (any method)
Unmet need + current contraceptive use (any method)

Current contraceptive use (any modern method)
Unmet need + current contraceptive use (any method)

Twenty-three percent of currently married women have an unmet need for family planning ( $14 \%$ for spacing and $9 \%$ for limiting) (Table 7.15.1). Twenty-five percent of sexually active unmarried women have an unmet need ( $21 \%$ for spacing and $4 \%$ for limiting) (Table 7.15.2). By region, the percentage of married women who have an unmet need for family planning ranges from $18 \%$ in Upper East and Upper West to $30 \%$ in Bono East (Map 7.2).

Thirty-six percent of currently married women and $63 \%$ of sexually active unmarried women are using a method and have a met need for family planning. The total demand for family planning that is satisfied with modern methods is lower among currently married women (47\%) than among sexually active unmarried women (52\%).

Among sexually active unmarried women, the total demand for spacing is $79 \%$ and the total demand for limiting is $9 \%$.

Trends: Unmet need for family planning among currently married women fluctuated from 1993 to $2008(35 \%-37 \%)$ before decreasing to $30 \%$ in 2014 and $23 \%$ in 2022 (Figure 7.5). This trend is reversed for the demand for family planning satisfied by modern methods. The demand satisfied by modern methods increased from $18 \%$ in 1993 to $39 \%$ in 2014 and $47 \%$ in 2022. Among sexually active unmarried women age 15-49, total demand for family planning increased from $81 \%$ in 1998 to $90 \%$ in 2008 and then decreased slightly to $88 \%$ in 2022.

Map 7.2 Unmet need by region
Percentage of currently married women age 15-49 with unmet need for family planning


Figure 7.5 Trends in demand for family planning among currently married women and sexually active unmarried women


The decision to use or not use family planning is often not made only by the user, rather, in many cases the opinions of other family members are considered. Tables $\mathbf{7 . 1 6}$ and $\mathbf{7 . 1 7}$ present data on decision making about family planning.

The majority of the time, the decision to use or not use family planning is made either solely by the wife or by the wife and husband/partner jointly ( $42 \%$ each). Women more often report that the opinions of both parties are equally important ( $33 \%$ ) than that their opinion is less or more important ( $5 \%$ and $4 \%$, respectively) (Table 7.16).

Forty-nine percent of women currently using contraception reported that they made the decision to use family planning methods jointly with their husband/partner, and $39 \%$ reported that they made their own
decision. Conversely, the decision to not use contraception was more often made solely by the wife (43\%) than jointly by the wife and her husband/partner (39\%).

### 7.7 Pressure to Become Pregnant and Future Use of Contraception

Cultural and religious values as well as societal influences may lead to women being pressured to become pregnant when they do not want to. In many cases, the pressure comes from women's husband/partner or other family members such as parents, in-laws, and siblings.

About 1 in 10 women ( $11 \%$ ) have ever been pressured to become pregnant by a partner or other family member. Older women and women with no living children are more likely to be pressured to become pregnant than younger women and women with three or more children. Pressure to become pregnant is similar among women who are using and not using contraception ( $11 \%$ and $10 \%$, respectively) (Table 7.18).

An important indicator of changes in demand for family planning is the extent to which nonusers plan to use contraceptive methods in the future. In the 2022 GDHS, women age 15-49 who were not using any contraceptive method at the time of the survey were asked about their intention to use family planning in the future.

Sixty-five percent of women who are not currently using a contraceptive method do not intend to use contraception in the future, $33 \%$ intend to use contraception in the future, and $2 \%$ are unsure about future use (Table 7.19). The proportion of nonusers who intend to use contraception in the future is highest among those with one or two children ( $34 \%-35 \%$ ), whereas the proportion of nonusers who do not intend to use contraception in the future is highest among those with no children ( $68 \%$ ) and those with 4 or more children (66\%).

### 7.8 Exposure to Family Planning Messages

Exposure to family planning messages is more common among men than women; roughly one in three women ( $30 \%$ ) and one in five men ( $20 \%$ ) were not exposed to family planning messages in the 12 months before the survey (Table 7.20.1 and Table 7.20.2).

Radio is the most common source of family planning messages among men (50\%), while television is the most common source among women ( $46 \%$ ). Newspapers/magazines and mobile phones are the least common source of family planning messages among both women ( $5 \%$ and $7 \%$, respectively) and men ( $9 \%$ and $11 \%$, respectively).

### 7.9 Contact of Nonusers with Family Planning Providers

## Contact of nonusers with family planning providers

Respondent discussed family planning in the 12 months before the survey with a fieldworker or during a visit to a health facility.
Sample: Women age 15-49 who are not currently using any contraceptive methods

When family planning providers visit women in the field or when women visit health facilities, service providers are expected to discuss reproductive health needs and the contraceptive options available and to counsel women to adopt a method of family planning. Table 7.21 shows that, in the 12 months before the survey, $3 \%$ of women not using contraception were visited by a fieldworker who discussed family planning with them; $13 \%$ of women visited a health facility and discussed family planning, while $37 \%$ visited a health facility but did not discuss family planning. More than 8 in 10 women did not discuss family planning either with a fieldworker or at a health facility.

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Table 7.1 Knowledge of contraceptive methods
Percentage of all respondents, currently married respondents, and sexually active unmarried respondents age 15-49 who have heard of any contraceptive method, according to specific method, Ghana DHS 2022

| Method | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All women | Currently married women | Sexually active unmarried women ${ }^{1}$ | All men | Currently married men | Sexually active unmarried men ${ }^{1}$ |
| Any method | 99.0 | 99.1 | 99.9 | 99.0 | 99.8 | 99.4 |
| Any modern method | 99.0 | 99.0 | 99.9 | 99.0 | 99.6 | 99.4 |
| Female sterilisation | 80.0 | 81.1 | 85.8 | 65.2 | 70.9 | 64.8 |
| Male sterilisation | 40.2 | 41.6 | 41.8 | 43.0 | 47.6 | 43.3 |
| IUD | 54.7 | 59.8 | 56.5 | 37.1 | 42.3 | 42.1 |
| Injectables | 92.9 | 96.7 | 94.5 | 81.5 | 90.2 | 84.8 |
| Implants | 91.5 | 95.9 | 94.3 | 78.7 | 87.7 | 84.9 |
| Pill | 89.2 | 94.4 | 89.8 | 83.3 | 89.0 | 89.0 |
| Male condom | 96.8 | 96.2 | 99.5 | 98.6 | 99.3 | 99.4 |
| Female condom | 79.3 | 79.8 | 84.4 | 83.7 | 89.5 | 89.5 |
| Emergency contraception | 75.5 | 74.7 | 86.4 | 70.6 | 73.8 | 81.7 |
| Standard days method (SDM) | 32.6 | 34.8 | 32.8 | 23.1 | 27.7 | 22.0 |
| Lactational amenorrhoea method (LAM) | 55.3 | 65.5 | 52.6 | 24.8 | 34.3 | 19.5 |
| Other modern method | 1.3 | 1.2 | 2.5 | 0.9 | 0.4 | 2.2 |
| Any traditional method | 88.0 | 89.0 | 96.0 | 87.6 | 93.1 | 95.2 |
| Rhythm | 77.5 | 78.8 | 84.5 | 61.9 | 69.2 | 66.7 |
| Withdrawal | 78.9 | 81.5 | 90.5 | 83.5 | 90.1 | 93.2 |
| Other traditional method | 9.1 | 10.6 | 11.1 | 3.8 | 4.7 | 5.5 |
| Mean number of methods known by respondents 15-49 | 9.5 | 9.9 | 10.1 | 8.4 | 9.2 | 8.9 |
| Number of respondents | 15,014 | 8,205 | 1,323 | 6,277 | 2,828 | 663 |
| Mean number of methods known by respondents 15-59 | na | na | na | 8.5 | 9.2 | 8.9 |
| Number of respondents | na | na | na | 7,044 | 3,485 | 686 |

na = not applicable
${ }^{1}$ Had last sexual intercourse within 30 days preceding the survey

Table 7.2 Knowledge of contraceptive methods according to background characteristics
Percentage of currently married women and currently married men age 15-49 who have heard of at least one contraceptive method and who have heard of at least one modern method, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Heard of any method | Heard of any modern method ${ }^{1}$ | Number | Heard of any method | Heard of any modern method ${ }^{1}$ | Number |
| Age |  |  |  |  |  |  |
| 15-19 | 95.5 | 95.5 | 194 | * | * | 13 |
| 20-24 | 98.9 | 98.9 | 1,013 | 99.0 | 99.0 | 126 |
| 25-29 | 99.2 | 99.2 | 1,457 | 99.7 | 99.7 | 383 |
| 30-34 | 99.2 | 99.2 | 1,719 | 100.0 | 99.4 | 568 |
| 35-39 | 99.0 | 99.0 | 1,641 | 99.9 | 99.9 | 665 |
| 40-44 | 99.2 | 99.0 | 1,239 | 99.8 | 99.8 | 597 |
| 45-49 | 99.5 | 99.5 | 941 | 99.7 | 99.5 | 475 |
| Residence |  |  |  |  |  |  |
| Urban | 99.6 | 99.6 | 4,248 | 100.0 | 100.0 | 1,479 |
| Rural | 98.5 | 98.5 | 3,956 | 99.6 | 99.3 | 1,349 |
| Region |  |  |  |  |  |  |
| Western | 100.0 | 100.0 | 487 | 100.0 | 100.0 | 190 |
| Central | 100.0 | 100.0 | 816 | 100.0 | 100.0 | 256 |
| Greater Accra | 100.0 | 100.0 | 1,144 | 100.0 | 100.0 | 509 |
| Volta | 100.0 | 100.0 | 375 | 100.0 | 100.0 | 113 |
| Eastern | 100.0 | 100.0 | 633 | 100.0 | 100.0 | 192 |
| Ashanti | 99.8 | 99.8 | 1,426 | 100.0 | 99.2 | 442 |
| Western North | 99.3 | 99.3 | 231 | 98.5 | 98.5 | 82 |
| Ahafo | 100.0 | 100.0 | 183 | 100.0 | 100.0 | 69 |
| Bono | 100.0 | 100.0 | 284 | 100.0 | 100.0 | 87 |
| Bono East | 99.2 | 99.2 | 376 | 99.8 | 99.8 | 143 |
| Oti | 98.9 | 98.9 | 248 | 100.0 | 100.0 | 87 |
| Northern | 94.2 | 94.0 | 870 | 99.5 | 99.1 | 276 |
| Savannah | 96.9 | 96.9 | 218 | 98.2 | 97.9 | 86 |
| North East | 97.6 | 97.6 | 229 | 99.4 | 99.4 | 74 |
| Upper East | 99.7 | 99.7 | 426 | 100.0 | 100.0 | 137 |
| Upper West | 99.4 | 99.4 | 258 | 99.2 | 99.2 | 86 |
| Education |  |  |  |  |  |  |
| No education | 96.5 | 96.4 | 2,015 | 98.8 | 97.8 | 469 |
| Primary | 99.8 | 99.8 | 1,233 | 100.0 | 99.9 | 335 |
| Secondary | 99.9 | 99.9 | 4,174 | 100.0 | 100.0 | 1,580 |
| More than secondary | 99.9 | 99.9 | 783 | 100.0 | 100.0 | 444 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 96.7 | 96.5 | 1,662 | 99.3 | 98.4 | 548 |
| Second | 99.1 | 99.1 | 1,513 | 99.8 | 99.8 | 491 |
| Middle | 99.7 | 99.7 | 1,545 | 99.9 | 99.9 | 447 |
| Fourth | 99.9 | 99.9 | 1,743 | 100.0 | 100.0 | 684 |
| Highest | 100.0 | 100.0 | 1,742 | 100.0 | 100.0 | 657 |
| Total 15-49 | 99.1 | 99.0 | 8,205 | 99.8 | 99.6 | 2,828 |
| 50-59 | na | na | na | 99.1 | 99.1 | 658 |
| Total 15-59 | na | na | na | 99.7 | 99.5 | 3,485 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable
${ }^{1}$ Female sterilisation, male sterilisation, IUD, injectables, implants, pill, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods

Table 7.3.1 Current use of contraception according to age
Percent distribution of all women, currently married women, and sexually active unmarried women age 15-49 by contraceptive method currently used, according to age, Ghana DHS 2022

|  |  |  | Modern method |  |  |  |  |  |  |  |  |  | Traditional method |  |  |  |  | Not currently using | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Any method | Any <br> modern method | Fe- <br> male <br> sterili- <br> sation | Male sterilisation | IUD | Injectables | $\begin{gathered} \text { Im- } \\ \text { plants } \end{gathered}$ | Pill | Male condom | Emergency con-tra-ception | SDM | LAM | Other | Any traditional method | Rhythm | With-drawal | Other |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 16.3 | 11.2 | 0.0 | 0.0 | 0.0 | 1.3 | 2.4 | 0.8 | 3.3 | 2.9 | 0.0 | 0.4 | 0.0 | 5.1 | 2.5 | 2.2 | 0.4 | 83.7 | 100.0 | 2,682 |
| 20-24 | 37.3 | 27.7 | 0.0 | 0.0 | 0.2 | 7.2 | 6.4 | 2.8 | 3.9 | 6.5 | 0.0 | 0.6 | 0.1 | 9.6 | 4.8 | 3.4 | 1.3 | 62.7 | 100.0 | 2,695 |
| 25-29 | 37.0 | 27.5 | 0.3 | 0.0 | 0.1 | 9.3 | 6.4 | 3.8 | 3.0 | 2.9 | 0.4 | 1.3 | 0.1 | 9.4 | 6.0 | 2.5 | 0.9 | 63.0 | 100.0 | 2,340 |
| 30-34 | 37.9 | 30.0 | 1.4 | 0.0 | 0.5 | 8.2 | 9.1 | 4.8 | 2.3 | 2.3 | 0.6 | 1.0 | 0.0 | 7.9 | 5.2 | 1.6 | 1.1 | 62.1 | 100.0 | 2,252 |
| 35-39 | 36.7 | 26.4 | 2.6 | 0.0 | 1.3 | 5.6 | 7.3 | 5.0 | 1.4 | 1.3 | 0.6 | 1.3 | 0.0 | 10.3 | 6.3 | 2.3 | 1.6 | 63.3 | 100.0 | 2,059 |
| 40-44 | 31.5 | 23.8 | 6.1 | 0.0 | 0.5 | 5.2 | 6.1 | 3.6 | 0.8 | 0.7 | 0.2 | 0.5 | 0.0 | 7.7 | 5.8 | 1.2 | 0.7 | 68.5 | 100.0 | 1,675 |
| 45-49 | 21.4 | 15.9 | 6.2 | 0.0 | 0.9 | 2.7 | 3.2 | 1.6 | 0.5 | 0.6 | 0.1 | 0.1 | 0.1 | 5.6 | 3.1 | 0.6 | 1.8 | 78.6 | 100.0 | 1,312 |
| Total | 31.5 | 23.4 | 1.8 | 0.0 | 0.4 | 5.8 | 5.9 | 3.2 | 2.4 | 2.8 | 0.3 | 0.8 | 0.0 | 8.0 | 4.8 | 2.1 | 1.1 | 68.5 | 100.0 | 15,014 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 34.3 | 27.0 | 0.0 | 0.0 | 0.0 | 4.1 | 12.0 | 2.1 | 4.3 | 0.7 | 0.4 | 3.4 | 0.0 | 7.3 | 3.0 | 3.3 | 1.0 | 65.7 | 100.0 | 194 |
| 20-24 | 37.5 | 29.8 | 0.1 | 0.1 | 0.4 | 11.7 | 10.0 | 2.2 | 1.7 | 2.2 | 0.0 | 1.2 | 0.2 | 7.7 | 4.1 | 2.5 | 1.1 | 62.5 | 100.0 | 1,013 |
| 25-29 | 37.1 | 29.0 | 0.3 | 0.0 | 0.2 | 11.8 | 7.7 | 4.4 | 1.5 | 1.1 | 0.1 | 2.0 | 0.1 | 8.1 | 5.0 | 2.1 | 1.0 | 62.9 | 100.0 | 1,457 |
| 30-34 | 38.5 | 30.4 | 1.6 | 0.0 | 0.5 | 8.8 | 9.7 | 4.9 | 1.8 | 1.2 | 0.5 | 1.4 | 0.0 | 8.1 | 5.4 | 1.5 | 1.2 | 61.5 | 100.0 | 1,719 |
| 35-39 | 39.4 | 28.4 | 2.8 | 0.0 | 1.4 | 6.2 | 7.4 | 5.9 | 1.3 | 1.2 | 0.7 | 1.6 | 0.0 | 11.0 | 6.5 | 2.8 | 1.7 | 60.6 | 100.0 | 1,641 |
| 40-44 | 35.2 | 26.9 | 7.6 | 0.0 | 0.3 | 5.8 | 7.1 | 4.0 | 0.9 | 0.4 | 0.2 | 0.5 | 0.0 | 8.4 | 6.5 | 1.1 | 0.8 | 64.8 | 100.0 | 1,239 |
| 45-49 | 26.5 | 19.4 | 8.1 | 0.0 | 0.9 | 3.0 | 4.0 | 2.0 | 0.7 | 0.5 | 0.1 | 0.1 | 0.1 | 7.1 | 4.0 | 0.7 | 2.5 | 73.5 | 100.0 | 941 |
| Total | 36.3 | 27.8 | 3.0 | 0.0 | 0.6 | 7.9 | 7.9 | 4.1 | 1.4 | 1.1 | 0.3 | 1.3 | 0.1 | 8.5 | 5.3 | 1.9 | 1.3 | 63.7 | 100.0 | 8,205 |
| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 63.3 | 44.4 | 0.0 | 0.0 | 0.1 | 6.3 | 10.5 | 3.2 | 13.6 | 10.8 | 0.0 | 0.0 | 0.0 | 18.9 | 9.3 | 9.1 | 0.4 | 36.7 | 100.0 | 317 |
| 20-24 | 70.8 | 52.5 | 0.0 | 0.0 | 0.1 | 12.1 | 9.6 | 5.2 | 9.1 | 16.0 | 0.0 | 0.5 | 0.0 | 18.3 | 7.4 | 7.8 | 3.0 | 29.2 | 100.0 | 423 |
| 25+ | 57.0 | 41.4 | 0.7 | 0.0 | 0.8 | 9.8 | 9.8 | 5.4 | 5.3 | 8.7 | 0.6 | 0.0 | 0.2 | 15.6 | 10.7 | 4.7 | 0.2 | 43.0 | 100.0 | 583 |
| Total | 62.9 | 45.7 | 0.3 | 0.0 | 0.4 | 9.7 | 9.9 | 4.8 | 8.5 | 11.5 | 0.3 | 0.2 | 0.1 | 17.2 | 9.3 | 6.7 | 1.2 | 37.1 | 100.0 | 1,323 |

Note: If more than one method is used, only the most effective method is considered in this tabulation.
SDM = standard days method
LAM = lactational amenorrhoea method
${ }^{1}$ Women who have had sexual intercourse within 30 days preceding the survey

Table 7.3.2 Current use of male condoms among men according to age
Percent distribution of all men and currently married men age $15-49$ by current use of male condoms, according to age, Ghana DHS 2022

| Age | Percentage <br> using male <br> condoms | Number <br> of men |  |  |
| :--- | :---: | :---: | :---: | :---: |
| ALL MEN |  |  |  |  |
| $15-19$ | 4.2 | 1,424 |  |  |
| $20-24$ | 17.5 | 1,033 |  |  |
| $25-29$ | 17.2 | 888 |  |  |
| $30-34$ | 10.1 | 853 |  |  |
| $35-39$ | 7.6 | 809 |  |  |
| $40-44$ | 5.6 | 713 |  |  |
| $45-49$ | 5.8 | 557 |  |  |
| Total | 9.2 | 7,044 |  |  |
|  |  |  |  | CURRENTLY MARRIED MEN |
| $15-19$ | $*$ |  |  |  |
| $20-24$ | 9.1 | 13 |  |  |
| $25-29$ | 6.2 | 126 |  |  |
| $30-34$ | 4.8 | 383 |  |  |
| $35-39$ | 5.1 | 568 |  |  |
| $40-44$ | 4.7 | 665 |  |  |
| 45-49 | 4.0 | 597 |  |  |
| Total | 4.9 | 475 |  |  |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 7.4 Current use of contraception according to background characteristics
Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to background characteristics, Ghana DHS 2022

|  |  |  | Modern method |  |  |  |  |  |  |  |  |  | Traditional method |  |  |  | Notcur-rentlyOtherusing |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Any method | Any modern method | Fe- <br> male <br> sterili- <br> sation | Male sterilisation | IUD | Injectables | $\begin{gathered} \text { Im- } \\ \text { plants } \end{gathered}$ | Pill | Male condom | Emergency con-tra-ception | SDM | LAM | Other | Any traditional method | Rhythm | With-drawal |  |  |  |  |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 19.8 | 12.0 | 0.2 | 0.1 | 0.3 | 2.6 | 1.9 | 1.7 | 3.4 | 1.6 | 0.1 | 0.0 | 0.0 | 7.8 | 5.8 | 2.0 | 0.0 | 80.2 | 100.0 | 593 |
| 1-2 | 33.1 | 23.9 | 0.2 | 0.0 | 0.3 | 8.4 | 6.8 | 3.6 | 1.7 | 1.2 | 0.3 | 1.1 | 0.1 | 9.2 | 5.7 | 2.4 | 1.1 | 66.9 | 100.0 | 3,018 |
| 3-4 | 41.5 | 32.4 | 4.6 | 0.0 | 1.0 | 8.5 | 8.6 | 5.1 | 1.3 | 0.9 | 0.6 | 1.8 | 0.0 | 9.1 | 5.9 | 1.6 | 1.5 | 58.5 | 100.0 | 2,792 |
| $5+$ | 39.1 | 32.3 | 6.2 | 0.0 | 0.5 | 8.0 | 10.8 | 4.2 | 0.4 | 0.9 | 0.1 | 1.2 | 0.1 | 6.7 | 3.6 | 1.3 | 1.8 | 60.9 | 100.0 | 1,801 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 37.1 | 26.6 | 3.8 | 0.0 | 0.8 | 6.6 | 6.5 | 4.0 | 2.0 | 1.0 | 0.5 | 1.2 | 0.1 | 10.4 | 6.6 | 2.5 | 1.4 | 62.9 | 100.0 | 4,248 |
| Rural | 35.5 | 29.1 | 2.2 | 0.0 | 0.3 | 9.4 | 9.4 | 4.3 | 0.8 | 1.1 | 0.1 | 1.3 | 0.0 | 6.5 | 4.0 | 1.2 | 1.2 | 64.5 | 100.0 | 3,956 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 44.8 | 35.5 | 3.2 | 0.0 | 0.4 | 9.8 | 11.3 | 3.6 | 2.6 | 2.2 | 0.0 | 1.9 | 0.5 | 9.3 | 5.2 | 2.1 | 2.0 | 55.2 | 100.0 | 487 |
| Central | 50.8 | 34.5 | 4.5 | 0.0 | 0.1 | 9.7 | 8.2 | 3.8 | 1.5 | 2.2 | 0.0 | 4.5 | 0.0 | 16.3 | 7.6 | 5.7 | 3.0 | 49.2 | 100.0 | 816 |
| Greater Accra | 32.0 | 23.8 | 4.2 | 0.0 | 1.6 | 4.5 | 5.0 | 2.4 | 2.0 | 0.4 | 1.6 | 2.0 | 0.0 | 8.3 | 5.4 | 2.0 | 0.8 | 68.0 | 100.0 | 1,144 |
| Volta | 35.6 | 29.3 | 2.0 | 0.0 | 0.5 | 8.0 | 11.0 | 3.3 | 1.9 | 1.0 | 0.0 | 1.3 | 0.3 | 6.3 | 4.8 | 1.0 | 0.5 | 64.4 | 100.0 | 375 |
| Eastern | 35.3 | 28.6 | 4.3 | 0.0 | 0.6 | 5.4 | 9.2 | 5.0 | 2.3 | 1.2 | 0.0 | 0.6 | 0.0 | 6.7 | 5.0 | 0.7 | 1.0 | 64.7 | 100.0 | 633 |
| Ashanti | 44.4 | 32.1 | 4.2 | 0.0 | 0.5 | 9.9 | 7.0 | 6.3 | 1.4 | 2.1 | 0.0 | 0.8 | 0.0 | 12.3 | 10.0 | 1.1 | 1.1 | 55.6 | 100.0 | 1,426 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North | 39.2 | 29.1 | 4.6 | 0.0 | 0.0 | 10.2 | 6.1 | 4.5 | 1.0 | 1.6 | 0.9 | 0.0 | 0.0 | 10.2 | 5.3 | 3.0 | 1.8 | 60.8 | 100.0 | 231 |
| Ahafo | 42.8 | 35.8 | 3.3 | 0.0 | 1.3 | 11.3 | 8.8 | 5.0 | 0.5 | 1.6 | 0.2 | 4.0 | 0.0 | 7.0 | 3.0 | 2.5 | 1.5 | 57.2 | 100.0 | 183 |
| Bono | 38.5 | 28.3 | 4.1 | 0.0 | 0.2 | 7.0 | 8.9 | 5.3 | 1.1 | 1.3 | 0.2 | 0.2 | 0.0 | 10.3 | 9.5 | 0.4 | 0.3 | 61.5 | 100.0 | 284 |
| Bono East | 22.1 | 20.7 | 1.0 | 0.2 | 0.4 | 7.0 | 6.2 | 4.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.0 | 1.4 | 0.9 | 0.4 | 0.1 | 77.9 | 100.0 | 376 |
| Oti | 32.0 | 28.5 | 3.5 | 0.0 | 1.3 | 7.3 | 7.0 | 6.8 | 0.8 | 0.4 | 0.4 | 1.0 | 0.0 | 3.5 | 2.5 | 0.5 | 0.4 | 68.0 | 100.0 | 248 |
| Northern | 24.6 | 17.2 | 0.5 | 0.0 | 0.2 | 6.7 | 4.4 | 3.4 | 1.3 | 0.0 | 0.2 | 0.4 | 0.1 | 7.4 | 0.6 | 3.2 | 3.6 | 75.4 | 100.0 | 870 |
| Savannah | 23.4 | 19.1 | 0.8 | 0.0 | 0.1 | 5.7 | 7.9 | 3.8 | 0.4 | 0.3 | 0.0 | 0.3 | 0.0 | 4.3 | 4.0 | 0.1 | 0.2 | 76.6 | 100.0 | 218 |
| North East | 17.1 | 14.9 | 0.5 | 0.2 | 0.1 | 5.6 | 5.2 | 2.8 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 2.2 | 1.5 | 0.6 | 0.0 | 82.9 | 100.0 | 229 |
| Upper East | 35.5 | 30.9 | 0.7 | 0.0 | 0.7 | 9.0 | 16.6 | 2.3 | 1.0 | 0.0 | 0.3 | 0.1 | 0.1 | 4.6 | 4.0 | 0.6 | 0.0 | 64.5 | 100.0 | 426 |
| Upper West | 36.8 | 33.8 | 1.4 | 0.0 | 0.3 | 14.6 | 14.4 | 2.2 | 0.5 | 0.2 | 0.0 | 0.1 | 0.0 | 3.0 | 2.4 | 0.6 | 0.0 | 63.2 | 100.0 | 258 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 26.7 | 22.6 | 2.5 | 0.0 | 0.3 | 7.2 | 8.9 | 2.7 | 0.3 | 0.2 | 0.0 | 0.5 | 0.1 | 4.1 | 1.7 | 1.0 | 1.4 | 73.3 | 100.0 | 2,015 |
| Primary | 35.8 | 29.6 | 2.6 | 0.0 | 0.3 | 8.7 | 11.3 | 4.1 | 0.5 | 0.7 | 0.1 | 1.2 | 0.0 | 6.2 | 2.7 | 1.4 | 2.1 | 64.2 | 100.0 | 1,233 |
| Secondary | 40.7 | 30.3 | 3.1 | 0.0 | 0.7 | 9.1 | 7.2 | 4.8 | 1.8 | 1.7 | 0.4 | 1.5 | 0.1 | 10.4 | 7.1 | 2.1 | 1.3 | 59.3 | 100.0 | 4,174 |
| More than secondary | 38.6 | 25.0 | 4.9 | 0.0 | 1.4 | 2.4 | 4.2 | 4.1 | 4.0 | 1.0 | 1.0 | 2.1 | 0.1 | 13.6 | 9.5 | 3.8 | 0.4 | 61.4 | 100.0 | 783 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 27.6 | 24.4 | 1.6 | 0.0 | 0.3 | 8.9 | 9.2 | 2.9 | 0.3 | 0.5 | 0.1 | 0.6 | 0.0 | 3.2 | 1.5 | 0.5 | 1.2 | 72.4 | 100.0 | 1,662 |
| Second | 36.1 | 30.8 | 2.8 | 0.0 | 0.5 | 9.9 | 10.2 | 4.1 | 0.8 | 0.7 | 0.1 | 1.7 | 0.0 | 5.4 | 2.6 | 1.2 | 1.6 | 63.9 | 100.0 | 1,513 |
| Middle | 41.5 | 31.2 | 1.9 | 0.0 | 0.1 | 8.9 | 9.6 | 6.0 | 1.0 | 1.2 | 0.6 | 1.7 | 0.2 | 10.3 | 5.9 | 2.6 | 1.8 | 58.5 | 100.0 | 1,545 |
| Fourth | 39.1 | 28.0 | 3.6 | 0.0 | 0.4 | 7.6 | 7.0 | 4.2 | 1.9 | 1.8 | 0.2 | 1.3 | 0.1 | 11.1 | 7.4 | 2.3 | 1.4 | 60.9 | 100.0 | 1,743 |
| Highest | 37.5 | 25.3 | 5.0 | 0.0 | 1.6 | 4.7 | 4.3 | 3.5 | 3.0 | 1.2 | 0.7 | 1.3 | 0.0 | 12.2 | 8.7 | 2.7 | 0.8 | 62.5 | 100.0 | 1,742 |
| Total | 36.3 | 27.8 | 3.0 | 0.0 | 0.6 | 7.9 | 7.9 | 4.1 | 1.4 | 1.1 | 0.3 | 1.3 | 0.1 | 8.5 | 5.3 | 1.9 | 1.3 | 63.7 | 100.0 | 8,205 |

Note: If more than one method is used, only the most effective method is considered in this tabulation.
SDM = standard days method
LAM = lactational amenorrhoea method
${ }^{1}$ Women who have had sexual intercourse within 30 days preceding the survey

## Table 7.5 Timing of sterilisation

Percent distribution of sterilised women age 15-49 by age at the time of sterilisation and median age at sterilisation, according to the number of years since the operation, Ghana DHS 2022

| Years since operation | Age at time of sterilisation |  |  |  |  |  | Total | Number of women | Median age ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <25 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |  |  |  |
| <2 | (1.5) | (10.8) | (27.4) | (21.6) | (23.7) | (14.9) | 100.0 | 57 | (33.1) |
| 2-3 | 0.0 | 12.6 | 23.0 | 40.2 | 18.2 | 6.1 | 100.0 | 65 | 35.5 |
| 4-5 | 2.4 | 0.8 | 20.6 | 46.0 | 28.7 | 1.5 | 100.0 | 71 | 35.9 |
| 6-7 | (0.0) | (1.4) | (28.4) | (63.3) | (6.9) | (0.0) | 100.0 | 30 | (37.0) |
| 8-9 | * |  | * | * |  |  | 100.0 | 19 | * |
| 10+ | (9.8) | (9.0) | (59.2) | (22.0) | (0.0) | (0.0) | 100.0 | 33 | (32.9) |
| Total | 2.3 | 7.0 | 28.5 | 39.5 | 17.8 | 4.9 | 100.0 | 276 | 35.1 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than
25 unweighted cases and has been suppressed.
${ }^{1}$ Median age at sterilisation is calculated only for women sterilised before age 40 to avoid problems of censoring.

Table 7.6 Use of DMPA-SC/Sayana Press
Percentage of current injectable users age 15-49 using DMPA-SC/Sayana Press, and among women using DMPA-SC/Sayana Press, percent distribution by the person administering the injection the last time, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage using <br> DMPA-SC/ <br> Sayana Press | Number of women using injectables | Among DMPA-SC/Sayana Press users, person administering injection the last time: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Self-injection | Injection given by health care provider | Don't know | Total | Number of women |
| Age |  |  |  |  |  |  |  |
| 15-19 | (76.1) | 35 | (0.0) | (100.0) | (0.0) | 100.0 | 26 |
| 20-24 | 66.1 | 194 | 5.0 | 95.0 | 0.0 | 100.0 | 129 |
| 25-29 | 69.1 | 217 | 1.8 | 98.2 | 0.0 | 100.0 | 150 |
| 30-34 | 72.9 | 184 | 0.7 | 99.3 | 0.0 | 100.0 | 134 |
| 35-39 | 64.9 | 114 | 2.2 | 97.8 | 0.0 | 100.0 | 74 |
| 40-44 | 60.5 | 88 | 1.0 | 99.0 | 0.0 | 100.0 | 53 |
| 45-49 | (68.2) | 35 | (0.0) | (100.0) | (0.0) | 100.0 | 24 |
| Residence |  |  |  |  |  |  |  |
| Urban | 65.1 | 395 | 0.4 | 99.6 | 0.0 | 100.0 | 257 |
| Rural | 70.5 | 472 | 3.3 | 96.7 | 0.0 | 100.0 | 333 |
| Region |  |  |  |  |  |  |  |
| Western | 93.8 | 68 | 0.0 | 100.0 | 0.0 | 100.0 | 64 |
| Central | 75.4 | 109 | (2.0) | (98.0) | (0.0) | 100.0 | 82 |
| Greater Accra | (54.9) | 67 | * |  |  | 100.0 | 37 |
| Volta | (82.2) | 40 | (0.0) | (100.0) | (0.0) | 100.0 | 33 |
| Eastern | (63.3) | 64 | (0.0) | (100.0) | (0.0) | 100.0 | 40 |
| Ashanti | 71.8 | 195 | 3.2 | 96.8 | 0.0 | 100.0 | 140 |
| Western North | 81.1 | 29 | (7.1) | (92.9) | (0.0) | 100.0 | 24 |
| Ahafo | 82.5 | 27 | 2.4 | 97.6 | 0.0 | 100.0 | 22 |
| Bono | (45.5) | 30 | * | * | * | 100.0 | 14 |
| Bono East | 53.6 | 35 | (0.0) | (100.0) | (0.0) | 100.0 | 19 |
| Oti | 75.6 | 24 | (2.5) | (97.5) | (0.0) | 100.0 | 18 |
| Northern | 57.3 | 63 | (0.0) | (100.0) | (0.0) | 100.0 | 36 |
| Savannah | (66.7) | 14 | (0.0) | (100.0) | (0.0) | 100.0 | 9 |
| North East | 47.6 | 14 | (3.4) | (96.6) | (0.0) | 100.0 | 7 |
| Upper East | 25.3 | 44 | * |  |  | 100.0 | 11 |
| Upper West | 78.6 | 42 | 2.6 | 97.4 | 0.0 | 100.0 | 33 |
| Education |  |  |  |  |  |  |  |
| No education | 67.7 | 157 | 0.9 | 99.1 | 0.0 | 100.0 | 106 |
| Primary | 70.7 | 153 | 2.2 | 97.8 | 0.0 | 100.0 | 108 |
| Secondary | 67.9 | 529 | 2.0 | 98.0 | 0.0 | 100.0 | 359 |
| More than secondary | (58.4) | 28 | * | * | * | 100.0 | 16 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 63.2 | 174 | 2.1 | 97.9 | 0.0 | 100.0 | 110 |
| Second | 70.4 | 209 | 3.0 | 97.0 | 0.0 | 100.0 | 147 |
| Middle | 70.7 | 211 | 2.6 | 97.4 | 0.0 | 100.0 | 149 |
| Fourth | 70.9 | 175 | 1.3 | 98.7 | 0.0 | 100.0 | 124 |
| Highest | 61.0 | 98 | (0.0) | (100.0) | (0.0) | 100.0 | 60 |
| Total | 68.1 | 867 | 2.1 | 97.9 | 0.0 | 100.0 | 590 |

Note: Subcutaneous (SC) depot medroxyprogesterone acetate (DMPA) is a self-injectable contraceptive; its brand name is Sayana Press. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 7.7 Use of emergency contraception
Percentage of women age 15-49 who used emergency contraception in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who used emergency contraception | Number of women |
| :---: | :---: | :---: |
| Age |  |  |
| 15-19 | 7.1 | 2,682 |
| 20-24 | 19.1 | 2,695 |
| 25-29 | 14.1 | 2,340 |
| 30-34 | 10.8 | 2,252 |
| 35-39 | 7.8 | 2,059 |
| 40-44 | 6.0 | 1,675 |
| 45-49 | 2.2 | 1,312 |
| Residence |  |  |
| Urban | 12.0 | 8,557 |
| Rural | 8.3 | 6,457 |
| Region |  |  |
| Western | 12.3 | 955 |
| Central | 11.1 | 1,703 |
| Greater Accra | 7.5 | 2,327 |
| Volta | 8.0 | 713 |
| Eastern | 14.4 | 1,220 |
| Ashanti | 16.7 | 2,928 |
| Western North | 11.5 | 411 |
| Ahafo | 15.3 | 317 |
| Bono | 7.9 | 567 |
| Bono East | 5.2 | 676 |
| Oti | 6.0 | 403 |
| Northern | 9.7 | 1,149 |
| Savannah | 2.1 | 319 |
| North East | 3.2 | 290 |
| Upper East | 4.0 | 640 |
| Upper West | 3.4 | 398 |
| Education |  |  |
| No education | 4.2 | 2,411 |
| Primary | 5.2 | 2,071 |
| Secondary | 12.4 | 8,999 |
| More than secondary | 16.0 | 1,533 |
| Wealth quintile |  |  |
| Lowest | 4.8 | 2,447 |
| Second | 8.6 | 2,712 |
| Middle | 10.8 | 3,121 |
| Fourth | 13.6 | 3,379 |
| Highest | 12.5 | 3,355 |
| Total | 10.4 | 15,014 |

Table 7.8 Knowledge of fertile period
Percent distribution of rhythm users, SDM users, and all women age 15-49 by knowledge of the fertile period during the ovulatory cycle, Ghana DHS 2022

|  | Users of <br> rhythm <br> method | Users of <br> SDM | All women |
| :--- | :---: | ---: | :---: |
| Perceived fertile period | 7.6 | $(3.7)$ | 9.6 |
| Just before her menstrual period begins | 2.3 | $(0.0)$ | 3.3 |
| During her menstrual period |  |  |  |
| Right after her menstrual period has | 27.3 | $(8.3)$ | 30.7 |
| ended | 59.3 | $(83.4)$ | 43.7 |
| Halfway between two menstrual periods | 0.6 | $(0.0)$ | 0.2 |
| Other | 1.3 | $(4.7)$ | 6.0 |
| No specific time | 1.7 | $(0.0)$ | 6.4 |
| Don't know | 0.0 | $(0.0)$ | 0.0 |
| Missing | 100.0 | 100.0 | 100.0 |
| Total | 724 | 39 | 15,014 |
| Number of women |  |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases
SDM = standard days method

Table 7.9 Knowledge of fertile period by age
Percentage of women age 15-49 with correct knowledge of the fertile period during the ovulatory cycle, according to age, Ghana DHS 2022

|  | Percentage with <br> correct <br> knowledge of the <br> fertile period | Number of <br> women |
| :--- | :---: | :---: |
| Age | 26.5 | 2,682 |
| $20-19$ | 42.7 | 2,695 |
| $25-29$ | 47.6 | 2,340 |
| $30-34$ | 48.4 | 2,252 |
| $35-39$ | 49.9 | 2,059 |
| $40-44$ | 48.1 | 1,675 |
| $45-49$ | 51.0 | 1,312 |
| Total | 43.7 | 15,014 |

Note: Correct knowledge of the fertile period is defined as "halfway between two menstrual periods."

## Table 7.10 Source of modern contraceptive methods

Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of the method, according to method, Ghana DHS 2022

| Source | Female sterilisation | IUD | Injectables | Implants | Pill | Male condom | Emergency contraception | SDM | Other modern method | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Public sector | 86.2 | 93.6 | 89.1 | 94.2 | 16.3 | 2.6 | 1.6 | (35.1) | * | 59.3 |
| Government hospital | 80.6 | 67.3 | 28.7 | 34.3 | 7.2 | 1.5 | 0.5 | (18.5) | * | 25.6 |
| Government polyclinic | 1.3 | 8.6 | 3.4 | 7.1 | 1.5 | 0.3 | 0.0 | (12.4) | * | 3.4 |
| Government health centre | 2.7 | 6.3 | 20.3 | 21.2 | 3.3 | 0.5 | 0.5 | (0.8) | * | 11.6 |
| Government clinic | 0.2 | 9.8 | 13.4 | 13.8 | 1.5 | 0.0 | 0.6 | (1.8) | * | 7.5 |
| CHPS centre/government health post | 1.4 | 1.5 | 19.2 | 16.1 | 2.5 | 0.4 | 0.0 | (1.5) | * | 9.6 |
| Community health service (outreach) | 0.0 | 0.0 | 4.0 | 1.7 | 0.3 | 0.0 | 0.0 | (0.0) | * | 1.5 |
| Other public sector | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Private medical sector (non-NGO) | 13.5 | 6.4 | 10.7 | 5.8 | 80.8 | 91.6 | 98.0 | (7.0) | * | 38.8 |
| Private hospital | 13.4 | 4.0 | 4.8 | 3.3 | 0.1 | 0.0 | 0.0 | (2.2) | * | 3.3 |
| Private clinic | 0.1 | 2.4 | 3.2 | 1.7 | 0.8 | 0.5 | 0.0 | (0.0) | * | 1.5 |
| Pharmacy | 0.0 | 0.0 | 0.7 | 0.0 | 36.4 | 50.3 | 41.3 | (0.0) | * | 15.8 |
| Drug store | 0.0 | 0.0 | 1.3 | 0.0 | 43.3 | 40.5 | 56.7 | (0.4) | * | 17.8 |
| Community health service (mobile clinic) | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 0.1 | 0.0 | (4.4) | * | 0.2 |
| Maternity home | 0.0 | 0.0 | 0.3 | 0.4 | 0.0 | 0.3 | 0.0 | (0.0) | * | 0.2 |
| Other private medical sector | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Private medical sector (NGO) | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.1 |
| NGO hospital/clinic | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.1 |
| Other NGO medical sector | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Other source | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 5.8 | 0.4 | (57.9) | * | 1.7 |
| Shop | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.6 | 0.0 | (0.0) | * | 0.1 |
| Church | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Friend/relative | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 4.2 | 0.4 | (15.1) | * | 0.8 |
| Drug peddler | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.2 | 0.0 | (0.0) | * | 0.3 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | (42.8) | * | 0.6 |
| Don't know | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Missing | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) | * | 0.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.5 | 100.0 |
| Number of women | 276 | 67 | 867 | 887 | 478 | 363 | 419 | 39 | 7 | 3,402 |

Note: Total includes other modern methods but excludes lactational amenorrhoea method (LAM). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed
SDM = standard days method
CHPS = community-based health planning and services
NGO = nongovernmental organisation

Table 7.11 Use of social marketing brand pills and condoms
Percentage of pill and condom users age 15-49 using a specific social marketing brand, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among pill users |  |  |  |  |  | Among condom users ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Secure | Microgynon | Duofem | $\mathrm{N} / \mathrm{M}$ tablets | Microlut | Number of women | Fiesta | Kiss | Durex | Gold Circle | Be Safe/ no label | Number of women |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | (20.2) | (13.3) | (2.3) | (15.9) | (0.0) | 20 | 9.3 | 85.1 | 5.6 | 0.0 | 0.0 | 77 |
| 20-24 | 47.2 | 6.1 | 1.2 | 5.1 | 2.0 | 75 | 19.9 | 72.1 | 3.4 | 0.0 | 0.0 | 98 |
| 25-29 | 64.1 | 5.6 | 0.0 | 6.4 | 0.0 | 86 | 32.2 | 56.5 | 5.8 | 0.0 | 0.4 | 64 |
| 30-34 | 65.0 | 9.2 | 0.9 | 0.9 | 1.1 | 106 | (21.5) | (63.9) | (6.4) | (1.9) | (0.0) | 47 |
| 35-39 | 58.9 | 16.8 | 0.0 | 15.2 | 0.6 | 101 | * | * | * | * |  | 18 |
| 40-44 | 65.2 | 12.4 | 0.0 | 12.2 | 0.0 | 59 | * | * | * | * | * | 13 |
| 45-49 |  |  |  |  | * | 18 | * | * | * | * | * | 4 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 55.2 | 10.4 | 0.5 | 5.4 | 0.7 | 260 | 21.3 | 64.7 | 8.3 | 1.6 | 0.1 | 228 |
| Rural | 65.0 | 10.2 | 0.5 | 11.1 | 0.7 | 205 | 21.5 | 75.6 | 0.3 | 0.6 | 0.0 | 93 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | * | * | * | * | * | 19 | (17.8) | (75.8) | (3.8) | (2.7) | (0.0) | 33 |
| Central | * | * | * | * | * | 42 | (11.8) | (88.2) | (0.0) | (0.0) | (0.0) | 44 |
| Greater Accra | (24.1) | (6.7) | (0.0) | (4.8) | (0.0) | 59 | * | * | * | * |  | 56 |
| Volta |  | * | * | * | * | 20 | * | * | * | * | * | 16 |
| Eastern | (66.5) | (8.8) | (0.0) | (4.1) | (0.0) | 41 | * | * | * | * | * | 27 |
| Ashanti | (69.9) | (7.8) | (0.0) | (15.4) | (0.0) | 124 | (16.5) | (80.2) | (3.3) | (0.0) | (0.0) | 68 |
| Western North | (55.1) | (7.7) | (0.0) | (5.4) | (5.4) | 18 | * | * | * | * | * | 6 |
| Ahafo | (64.1) | (1.6) | (0.0) | (10.0) | (0.0) | 16 | * | * | * | * | * | 3 |
| Bono | (60.2) | (19.8) | (2.4) | (8.0) | (3.0) | 19 | * | * | * | * | * | 11 |
| Bono East | (69.0) | (6.4) | (0.0) | (5.1) | (0.0) | 25 | * | * | * | * | * | 6 |
| Oti | (81.6) | (7.8) | (0.0) | (10.6) | (0.0) | 21 | * | * | * | * | * | 6 |
| Northern | (38.9) | (37.8) | (3.0) | (4.1) | (2.4) | 30 | * | * | * | * | * | 23 |
| Savannah | (32.8) | (32.3) | (0.0) | (4.5) | (0.0) | 9 | * | * | * | * | * | 2 |
| North East |  |  | * |  |  | 6 | ** | *** | ** | ** | ** | 3 |
| Upper East | * | * | * | * | * | 9 | (20.0) | (80.0) | (0.0) | (0.0) | (0.0) | 13 |
| Upper West | * | * | * | * | * | 8 | * | * | * | * | * | 4 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 47.3 | 21.7 | 1.9 | 22.0 | 0.0 | 54 | * | * | * | * | * | 8 |
| Primary | 66.9 | 9.9 | 0.0 | 9.7 | 0.4 | 58 | * | ${ }^{*}$ | * | * | * | 15 |
| Secondary | 62.2 | 7.4 | 0.4 | 6.1 | 0.8 | 304 | 20.5 | 69.7 | 5.3 | 0.4 | 0.1 | 214 |
| More than secondary | 47.2 | 16.6 | 0.0 | 1.6 | 1.5 | 49 | 26.5 | 58.0 | 9.4 | 3.4 | 0.0 | 84 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 70.5 | 11.3 | 0.0 | 7.1 | 1.6 | 51 | (36.8) | (63.2) | (0.0) | (0.0) | (0.0) | 19 |
| Second | 67.5 | 7.2 | 1.5 | 11.3 | 0.7 | 91 | (21.7) | (77.4) | (0.0) | (0.0) | (0.9) | 26 |
| Middle | 71.7 | 4.1 | 0.9 | 12.1 | 0.2 | 109 | 14.9 | 77.7 | 3.4 | 1.0 | 0.0 | 58 |
| Fourth | 45.3 | 13.5 | 0.0 | 5.7 | 0.9 | 128 | 15.8 | 72.4 | 6.5 | 0.9 | 0.0 | 98 |
| Highest | 49.8 | 16.1 | 0.0 | 2.6 | 0.5 | 85 | 26.5 | 58.0 | 9.1 | 2.4 | 0.0 | 119 |
| Total | 59.5 | 10.3 | 0.5 | 7.9 | 0.7 | 465 | 21.4 | 67.9 | 6.0 | 1.3 | 0.1 | 321 |

Note: Table excludes pill and condom users who do not know the brand name. Condom use is based on women's reports. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ${ }^{1}$ Among condom users not also using the pill

Among current users of selected modern methods age 15-49 who started the last episode of use within the 5 years preceding the survey, percentage who were informed about possible side effects or problems of that method, percentage who were informed about what to do if they experienced side effects, percentage who were informed about other methods they could use, percentage who received all three types of information, and percentage who were informed that they could switch to another method if they wanted to or needed to, according to method and initial source, Ghana DHS 2022

| Method/source | Among women who started last episode of modern contraceptive method within 5 years preceding the survey: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who were informed about side effects or problems of method used | Percentage who were informed about what to do if they experienced side effects | Percentage who were informed of other methods that could be used | Percentage who received all three types of information (method information index) ${ }^{1}$ | Percentage who were informed that they could switch to another method if they wanted to or needed to | Number of women |
| Method |  |  |  |  |  |  |
| Female sterilisation | 52.0 | 50.9 | 45.4 | 34.8 | na | 160 |
| IUD | (80.8) | (89.9) | (89.1) | (74.5) | (84.5) | 52 |
| Injectables | 63.7 | 70.7 | 75.8 | 56.1 | 78.8 | 815 |
| Implants | 72.4 | 76.0 | 77.7 | 60.7 | 79.9 | 797 |
| Pill | 29.1 | 29.3 | 32.1 | 23.4 | 34.1 | 429 |
| Initial source of method ${ }^{2}$ |  |  |  |  |  |  |
| Public sector | 68.7 | 73.0 | 75.5 | 58.5 | 74.4 | 1,708 |
| Government hospital | 71.3 | 75.6 | 76.8 | 61.2 | 69.2 | 659 |
| Government polyclinic | 75.2 | 76.6 | 78.0 | 62.1 | 81.9 | 100 |
| Government health centre | 68.6 | 75.4 | 77.6 | 63.4 | 78.1 | 364 |
| Government clinic | 63.5 | 64.5 | 73.2 | 52.3 | 79.2 | 230 |
| CHPS centre/government health post | 65.5 | 71.6 | 71.6 | 51.9 | 75.8 | 309 |
| Community health service (outreach) | (65.1) | (61.9) | (74.3) | (50.5) | (70.9) | 47 |
| Private medical sector (non- |  |  |  |  |  |  |
| NGO) | 31.2 | 34.2 | 36.7 | 24.4 | 35.9 | 529 |
| Private hospital | 61.3 | 70.9 | 70.1 | 48.3 | 53.1 | 98 |
| Private clinic | (66.5) | (70.9) | (79.0) | (60.8) | (83.8) | 47 |
| Pharmacy | 23.6 | 21.1 | 30.4 | 18.8 | 34.0 | 164 |
| Drug store | 12.7 | 16.2 | 13.2 | 6.7 | 15.3 | 208 |
| Community health service (mobile clinic) | * | * | * | * | * | 3 |
| Maternity home | * | * | * | * | * | 7 |
| Other private medical sector | * | * | * | * | * | 3 |
| Private medical sector (NGO) | * | * | * | * | * | 4 |
| NGO hospital/clinic | * | * | * | * | * | 4 |
| Other source | * | * | * | * | * | 10 |
| Shop | * | * | * | * | * | 1 |
| Friend/relative | * | * | * | * | * | 2 |
| Drug peddler | * | * | * | * | * | 7 |
| Other | * | * | * | * | * | 1 |
| Total | 59.8 | 63.7 | 66.3 | 50.4 | 65.2 | 2,252 |

Note: Table includes users of only the methods listed individually. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable
CHPS = community-based health planning and services
NGO = nongovernmental organisation
${ }^{1}$ The method information index is the percentage of women who were informed about (1) side effects or problems of the method used, (2) what to do if they experienced side effects, and (3) other methods that could be used.
${ }^{2}$ Source at start of current episode of use

Table 7.13 Twelve-month contraceptive discontinuation rates
Among episodes of contraceptive use experienced within the 5 years preceding the survey, percentage of episodes discontinued within 12 months, according to reason for discontinuation and specific method, Ghana DHS 2022

| Method | Method failure | Desire to become pregnant | Other fertilityrelated reasons ${ }^{1}$ | Changes in menstrual bleeding | Other side effects/ health concerns | Wanted more effective method | Other methodrelated reasons ${ }^{2}$ | Husband/ partner disapproved | $\begin{aligned} & \text { Other } \\ & \text { reasons }{ }^{3} \end{aligned}$ | Any reason ${ }^{4}$ | Switched to another method ${ }^{5}$ | Number of episodes of use ${ }^{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Female |  |  |  |  |  |  |  |  |  |  |  |  |
| sterilisation | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | 186 |
| Injectables | 0.7 | 8.6 | 6.9 | 15.5 | 17.1 | 2.2 | 4.4 | 1.5 | 2.7 | 59.6 | 4.8 | 2,021 |
| Implants | 0.1 | 3.1 | 1.2 | 5.0 | 11.6 | 0.7 | 1.0 | 1.2 | 1.0 | 24.9 | 2.2 | 1,428 |
| Pill | 3.2 | 10.0 | 8.8 | 6.4 | 11.4 | 1.9 | 3.6 | 1.1 | 3.2 | 49.7 | 6.8 | 1,086 |
| Male condom | 3.0 | 5.4 | 23.0 | 0.9 | 0.8 | 4.8 | 6.8 | 3.0 | 2.3 | 50.0 | 8.7 | 604 |
| Emergency |  |  |  |  |  |  |  |  |  |  |  |  |
| Rhythm | 6.7 | 6.7 | 7.4 | 0.4 | 0.1 | 4.8 | 0.8 | 0.0 | 2.5 | 29.4 | 4.9 | 1,190 |
| Withdrawal | 6.7 | 4.4 | 17.0 | 0.0 | 0.0 | 6.9 | 2.4 | 3.1 | 1.5 | 42.0 | 7.4 | 621 |
| Other ${ }^{7}$ | 5.4 | 7.0 | 7.1 | 1.8 | 2.1 | 16.1 | 5.4 | 1.6 | 3.6 | 50.0 | 17.8 | 539 |
| All methods | 3.1 | 6.5 | 10.0 | 6.4 | 8.6 | 3.7 | 3.2 | 1.3 | 2.7 | 45.4 | 6.1 | 9,089 |

Note: Figures are based on life table calculations using information on episodes of use that occurred 3-62 months preceding the survey.
${ }^{1}$ Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation
${ }^{2}$ Includes lack of access/too far, costs too much, and inconvenient to use
${ }^{3}$ Includes up to God/fatalistic and other reasons
${ }^{4}$ Reasons for discontinuation are mutually exclusive and add to the total given in this column.
${ }^{5}$ A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within 2 months of discontinuation.
${ }^{6}$ All episodes of use that occurred within the 5 years preceding the survey are included. Episodes of use include both episodes that were discontinued during the period of observation and episodes that were not discontinued during the period of observation
${ }^{7}$ Includes lactational amenorrhoea method (LAM).

## Table 7.14 Reasons for discontinuation

Percent distribution of discontinuations of contraceptive methods in the 5 years preceding the survey by main reason stated for discontinuation, according to specific method, Ghana DHS 2022

| Reason | IUD | Injectables | Implants | Pill | Male condom | Emergency contraception | SDM | Rhythm | Withdrawal | Other ${ }^{1}$ | $\begin{gathered} \text { All } \\ \text { methods } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Became pregnant while using | (10.1) | 2.4 | 1.1 | 10.4 | 6.8 | 10.5 | (14.0) | 27.2 | 19.7 | 15.7 | 10.0 |
| Wanted to become pregnant | (34.2) | 21.7 | 25.0 | 25.5 | 12.8 | 8.5 | (54.9) | 28.7 | 14.0 | 15.8 | 20.5 |
| Husband/partner disapproved | (0.5) | 2.3 | 4.2 | 2.0 | 7.6 | 1.6 | (0.0) | 1.8 | 6.5 | 6.9 | 3.2 |
| Wanted a more effective method | (2.4) | 3.1 | 2.2 | 4.8 | 15.3 | 7.2 | (0.0) | 16.4 | 19.1 | 23.2 | 8.4 |
| Changes in menstrual bleeding | (8.0) | 22.2 | 13.6 | 11.4 | 1.0 | 10.8 | (8.1) | 0.9 | 0.0 | 3.0 | 11.0 |
| Other side effects/ health concerns | (35.5) | 27.6 | 38.7 | 19.0 | 1.0 | 13.9 | (0.0) | 0.2 | 0.0 | 2.2 | 17.4 |
| Lack of access/too far | (0.0) | 3.0 | 0.0 | 2.5 | 2.6 | 1.8 | (0.0) | 0.0 | 0.0 | 2.1 | 1.6 |
| Cost too much | (0.0) | 0.5 | 0.0 | 1.5 | 0.2 | 2.1 | (1.0) | 0.0 | 0.0 | 0.0 | 0.7 |
| Inconvenient to use | (0.9) | 2.6 | 2.5 | 2.9 | 10.3 | 2.7 | (14.9) | 3.1 | 4.7 | 6.6 | 3.6 |
| Up to God/fatalistic | (0.0) | 0.2 | 0.0 | 0.0 | 0.1 | 0.2 | (0.0) | 0.0 | 0.4 | 1.2 | 0.2 |
| Difficult to get pregnant/ menopausal | (0.0) | 0.0 | 0.6 | 0.1 | 0.0 | 0.0 | (0.0) | 0.4 | 0.0 | 0.0 | 0.2 |
| Infrequent sex/ husband away | (1.7) | 9.7 | 4.2 | 14.2 | 34.2 | 32.6 | (7.1) | 16.2 | 28.6 | 16.4 | 16.9 |
| Marital dissolution/ separation | (0.0) | 0.8 | 0.1 | 0.2 | 2.9 | 0.8 | (0.0) | 0.7 | 3.7 | 0.1 | 0.9 |
| Other | (4.4) | 3.1 | 7.2 | 3.7 | 4.6 | 6.6 | (0.0) | 1.8 | 1.6 | 6.4 | 4.3 |
| Don't know | (2.3) | 0.3 | 0.2 | 0.7 | 0.2 | 0.2 | (0.0) | 0.8 | 0.5 | 0.5 | 0.4 |
| Missing | (0.0) | 0.7 | 0.3 | 1.1 | 0.5 | 0.4 | (0.0) | 1.9 | 1.1 | 0.0 | 0.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of discontinuations | 44 | 1,575 | 938 | 860 | 386 | 1,025 | 42 | 841 | 407 | 375 | 6,494 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
SDM = standard days method
Lactational amenorrhoea method (LAM), male sterilisation, and female condom

Table 7.15.1 Need and demand for family planning among currently married women
Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, percentage of the demand for family planning that is satisfied, and percentage of the demand for family planning that is satisfied by modern methods, according to background characteristics, Ghana DHS 2022

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number <br> of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 28.7 | 2.3 | 31.0 | 32.3 | 2.0 | 34.3 | 61.0 | 4.3 | 65.3 | 194 | 52.6 | 41.4 |
| 20-24 | 26.1 | 1.4 | 27.5 | 34.9 | 2.6 | 37.5 | 61.0 | 4.0 | 65.0 | 1,013 | 57.7 | 45.8 |
| 25-29 | 20.7 | 2.5 | 23.2 | 32.2 | 4.9 | 37.1 | 52.9 | 7.4 | 60.3 | 1,457 | 61.5 | 48.1 |
| 30-34 | 17.1 | 5.7 | 22.8 | 26.9 | 11.6 | 38.5 | 44.0 | 17.3 | 61.3 | 1,719 | 62.8 | 49.6 |
| 35-39 | 9.8 | 14.9 | 24.7 | 19.5 | 19.9 | 39.4 | 29.3 | 34.8 | 64.1 | 1,641 | 61.5 | 44.3 |
| 40-44 | 5.9 | 16.9 | 22.9 | 6.8 | 28.5 | 35.2 | 12.7 | 45.4 | 58.1 | 1,239 | 60.7 | 46.2 |
| 45-49 | 1.9 | 15.5 | 17.4 | 3.0 | 23.5 | 26.5 | 4.9 | 39.0 | 43.9 | 941 | 60.3 | 44.1 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 12.8 | 9.6 | 22.3 | 21.4 | 15.7 | 37.1 | 34.2 | 25.2 | 59.4 | 4,248 | 62.4 | 44.8 |
| Rural | 15.8 | 8.8 | 24.6 | 22.0 | 13.5 | 35.5 | 37.8 | 22.3 | 60.1 | 3,956 | 59.1 | 48.3 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 8.4 | 10.2 | 18.5 | 24.1 | 20.7 | 44.8 | 32.5 | 30.9 | 63.4 | 487 | 70.8 | 56.1 |
| Central | 11.7 | 9.6 | 21.3 | 28.1 | 22.7 | 50.8 | 39.8 | 32.3 | 72.1 | 816 | 70.4 | 47.9 |
| Greater Accra | 12.9 | 13.1 | 26.0 | 14.0 | 18.0 | 32.0 | 27.0 | 31.1 | 58.1 | 1,144 | 55.2 | 41.0 |
| Volta | 16.7 | 11.4 | 28.1 | 21.0 | 14.6 | 35.6 | 37.7 | 26.0 | 63.7 | 375 | 55.9 | 46.0 |
| Eastern | 14.3 | 13.1 | 27.3 | 21.7 | 13.7 | 35.3 | 35.9 | 26.7 | 62.7 | 633 | 56.4 | 45.6 |
| Ashanti | 14.8 | 8.2 | 23.0 | 25.8 | 18.6 | 44.4 | 40.5 | 26.8 | 67.4 | 1,426 | 65.9 | 47.7 |
| Western North | 14.9 | 7.8 | 22.7 | 19.5 | 19.7 | 39.2 | 34.5 | 27.5 | 62.0 | 231 | 63.3 | 46.9 |
| Ahafo | 14.6 | 9.6 | 24.1 | 25.8 | 17.0 | 42.8 | 40.4 | 26.5 | 66.9 | 183 | 64.0 | 53.5 |
| Bono | 14.7 | 9.0 | 23.7 | 22.1 | 16.4 | 38.5 | 36.9 | 25.4 | 62.2 | 284 | 61.9 | 45.4 |
| Bono East | 18.2 | 11.4 | 29.6 | 14.8 | 7.3 | 22.1 | 33.0 | 18.7 | 51.7 | 376 | 42.8 | 40.0 |
| Oti | 18.6 | 7.1 | 25.7 | 19.5 | 12.5 | 32.0 | 38.2 | 19.6 | 57.8 | 248 | 55.5 | 49.4 |
| Northern | 16.0 | 6.3 | 22.3 | 21.1 | 3.5 | 24.6 | 37.0 | 9.8 | 46.8 | 870 | 52.4 | 36.6 |
| Savannah | 17.0 | 4.4 | 21.4 | 18.1 | 5.3 | 23.4 | 35.1 | 9.7 | 44.8 | 218 | 52.2 | 42.7 |
| North East | 17.5 | 5.0 | 22.5 | 13.7 | 3.4 | 17.1 | 31.2 | 8.4 | 39.6 | 229 | 43.1 | 37.7 |
| Upper East | 13.3 | 4.6 | 17.9 | 25.9 | 9.6 | 35.5 | 39.2 | 14.2 | 53.4 | 426 | 66.5 | 57.9 |
| Upper West | 11.4 | 6.4 | 17.8 | 25.3 | 11.5 | 36.8 | 36.8 | 17.8 | 54.6 | 258 | 67.4 | 61.9 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 12.6 | 10.8 | 23.4 | 14.6 | 12.1 | 26.7 | 27.2 | 22.8 | 50.0 | 2,015 | 53.3 | 45.1 |
| Primary | 14.8 | 10.9 | 25.7 | 20.3 | 15.5 | 35.8 | 35.1 | 26.4 | 61.4 | 1,233 | 58.2 | 48.1 |
| Secondary | 15.8 | 8.1 | 23.8 | 25.2 | 15.5 | 40.7 | 41.0 | 23.6 | 64.6 | 4,174 | 63.1 | 47.0 |
| More than secondary | 9.3 | 8.4 | 17.7 | 23.5 | 15.0 | 38.6 | 32.8 | 23.5 | 56.3 | 783 | 68.5 | 44.4 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 16.6 | 9.3 | 25.9 | 18.3 | 9.3 | 27.6 | 35.0 | 18.5 | 53.5 | 1,662 | 51.5 | 45.6 |
| Second | 16.3 | 8.6 | 24.9 | 21.1 | 15.0 | 36.1 | 37.5 | 23.6 | 61.1 | 1,513 | 59.2 | 50.4 |
| Middle | 14.5 | 10.8 | 25.2 | 26.4 | 15.1 | 41.5 | 40.9 | 25.9 | 66.7 | 1,545 | 62.2 | 46.8 |
| Fourth | 14.2 | 8.0 | 22.2 | 24.3 | 14.8 | 39.1 | 38.5 | 22.8 | 61.3 | 1,743 | 63.8 | 45.6 |
| Highest | 9.9 | 9.4 | 19.3 | 18.7 | 18.8 | 37.5 | 28.6 | 28.2 | 56.8 | 1,742 | 66.0 | 44.5 |
| Total | 14.2 | 9.2 | 23.4 | 21.7 | 14.6 | 36.3 | 35.9 | 23.8 | 59.7 | 8,205 | 60.8 | 46.5 |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012.
${ }^{1}$ Total demand is the sum of unmet need and met need.
${ }^{2}$ Percentage of demand satisfied is met need divided by total demand.
${ }^{3}$ Modern methods include female sterilisation, male sterilisation, IUD, injectables, implants, pill, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.

Percentage of all women and sexually active unmarried women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, percentage of the demand for family planning that is satisfied, and percentage of the demand for family planning that is satisfied by modern methods, according to background characteristics, Ghana DHS 2022

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods $^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 7.4 | 0.3 | 7.7 | 16.0 | 0.2 | 16.3 | 23.4 | 0.5 | 23.9 | 2,682 | 67.9 | 46.7 |
| 20-24 | 14.6 | 0.8 | 15.4 | 35.9 | 1.4 | 37.3 | 50.5 | 2.2 | 52.7 | 2,695 | 70.8 | 52.6 |
| 25-29 | 16.0 | 2.0 | 18.0 | 33.4 | 3.6 | 37.0 | 49.4 | 5.6 | 55.0 | 2,340 | 67.3 | 50.1 |
| 30-34 | 14.2 | 4.7 | 18.9 | 27.8 | 10.1 | 37.9 | 42.0 | 14.8 | 56.9 | 2,252 | 66.7 | 52.9 |
| 35-39 | 8.4 | 12.2 | 20.6 | 19.3 | 17.4 | 36.7 | 27.7 | 29.6 | 57.3 | 2,059 | 64.0 | 46.1 |
| 40-44 | 4.8 | 13.9 | 18.7 | 6.5 | 25.0 | 31.5 | 11.3 | 38.9 | 50.3 | 1,675 | 62.7 | 47.3 |
| 45-49 | 1.5 | 12.2 | 13.7 | 2.4 | 19.1 | 21.4 | 3.9 | 31.3 | 35.1 | 1,312 | 61.0 | 45.2 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 8.8 | 5.3 | 14.1 | 22.2 | 9.0 | 31.2 | 31.0 | 14.3 | 45.3 | 8,557 | 68.9 | 49.0 |
| Rural | 12.5 | 5.7 | 18.3 | 22.4 | 9.5 | 31.8 | 34.9 | 15.2 | 50.1 | 6,457 | 63.5 | 50.0 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 7.2 | 5.3 | 12.5 | 26.5 | 11.7 | 38.2 | 33.7 | 17.0 | 50.7 | 955 | 75.3 | 55.4 |
| Central | 8.8 | 5.1 | 13.9 | 27.8 | 12.4 | 40.2 | 36.5 | 17.6 | 54.1 | 1,703 | 74.3 | 50.2 |
| Greater Accra | 7.8 | 7.3 | 15.2 | 15.8 | 9.7 | 25.5 | 23.6 | 17.0 | 40.6 | 2,327 | 62.7 | 46.8 |
| Volta | 11.8 | 6.4 | 18.3 | 20.4 | 8.8 | 29.2 | 32.3 | 15.2 | 47.5 | 713 | 61.6 | 49.9 |
| Eastern | 10.2 | 8.0 | 18.2 | 21.6 | 9.7 | 31.3 | 31.8 | 17.7 | 49.5 | 1,220 | 63.2 | 49.8 |
| Ashanti | 9.9 | 4.3 | 14.2 | 26.4 | 10.7 | 37.1 | 36.3 | 15.0 | 51.3 | 2,928 | 72.3 | 52.4 |
| Western North | 11.7 | 4.9 | 16.6 | 22.4 | 12.1 | 34.5 | 34.1 | 17.0 | 51.1 | 411 | 67.5 | 49.3 |
| Ahafo | 11.4 | 6.4 | 17.8 | 27.4 | 11.2 | 38.6 | 38.8 | 17.6 | 56.4 | 317 | 68.4 | 52.9 |
| Bono | 10.9 | 4.9 | 15.8 | 22.2 | 9.5 | 31.7 | 33.1 | 14.3 | 47.5 | 567 | 66.7 | 46.7 |
| Bono East | 14.8 | 6.9 | 21.8 | 15.2 | 4.8 | 20.0 | 30.1 | 11.7 | 41.8 | 676 | 47.9 | 42.3 |
| Oti | 14.3 | 4.8 | 19.2 | 19.6 | 8.9 | 28.5 | 34.0 | 13.7 | 47.7 | 403 | 59.8 | 49.6 |
| Northern | 13.4 | 5.0 | 18.4 | 22.4 | 3.1 | 25.4 | 35.8 | 8.0 | 43.8 | 1,149 | 58.1 | 37.9 |
| Savannah | 14.5 | 3.0 | 17.5 | 16.7 | 3.8 | 20.5 | 31.2 | 6.8 | 38.0 | 319 | 54.0 | 43.7 |
| North East | 15.4 | 4.0 | 19.4 | 14.0 | 2.9 | 16.9 | 29.4 | 6.8 | 36.3 | 290 | 46.6 | 40.7 |
| Upper East | 11.7 | 3.1 | 14.8 | 22.6 | 6.9 | 29.5 | 34.3 | 10.0 | 44.3 | 640 | 66.6 | 55.8 |
| Upper West | 9.6 | 4.1 | 13.7 | 21.6 | 8.0 | 29.7 | 31.2 | 12.1 | 43.4 | 398 | 68.4 | 61.7 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 11.3 | 9.4 | 20.7 | 13.7 | 11.3 | 24.9 | 25.0 | 20.7 | 45.6 | 2,411 | 54.6 | 45.8 |
| Primary | 11.7 | 7.3 | 19.1 | 19.2 | 11.2 | 30.3 | 30.9 | 18.5 | 49.4 | 2,071 | 61.4 | 50.7 |
| Secondary | 10.6 | 4.2 | 14.9 | 24.5 | 8.4 | 32.9 | 35.1 | 12.7 | 47.8 | 8,999 | 68.9 | 50.0 |
| More than secondary | 5.8 | 4.3 | 10.1 | 26.9 | 7.9 | 34.8 | 32.7 | 12.2 | 44.9 | 1,533 | 77.6 | 50.4 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 14.4 | 6.7 | 21.1 | 18.4 | 6.9 | 25.3 | 32.8 | 13.6 | 46.4 | 2,447 | 54.5 | 46.0 |
| Second | 12.5 | 5.4 | 18.0 | 21.0 | 10.4 | 31.5 | 33.6 | 15.9 | 49.5 | 2,712 | 63.7 | 51.5 |
| Middle | 10.4 | 6.3 | 16.7 | 25.1 | 8.7 | 33.8 | 35.5 | 14.9 | 50.5 | 3,121 | 67.0 | 50.3 |
| Fourth | 10.0 | 4.4 | 14.4 | 25.6 | 9.2 | 34.7 | 35.6 | 13.5 | 49.2 | 3,379 | 70.7 | 50.2 |
| Highest | 6.1 | 5.1 | 11.2 | 20.1 | 10.4 | 30.5 | 26.1 | 15.6 | 41.7 | 3,355 | 73.1 | 48.6 |
| Total | 10.4 | 5.5 | 15.9 | 22.3 | 9.2 | 31.5 | 32.7 | 14.7 | 47.4 | 15,014 | 66.4 | 49.5 |

Continued...

Table 7.15.2—Continued

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods $^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 33.6 | 0.2 | 33.8 | 63.3 | 0.0 | 63.3 | 96.9 | 0.2 | 97.1 | 317 | 65.2 | 45.8 |
| 20-24 | 19.1 | 0.4 | 19.5 | 68.8 | 2.0 | 70.8 | 87.9 | 2.4 | 90.3 | 423 | 78.4 | 58.2 |
| 25-29 | 22.3 | 1.6 | 23.9 | 62.9 | 2.5 | 65.5 | 85.3 | 4.1 | 89.4 | 234 | 73.3 | 49.7 |
| 30-34 | 13.0 | 3.0 | 16.0 | 50.6 | 4.5 | 55.1 | 63.6 | 7.6 | 71.2 | 147 | 77.5 | 68.1 |
| 35-39 | 9.7 | 7.2 | 16.9 | 41.8 | 13.3 | 55.1 | 51.6 | 20.4 | 72.0 | 85 | 76.5 | 53.8 |
| 40-44 | 5.8 | 23.6 | 29.4 | 16.2 | 35.0 | 51.2 | 22.0 | 58.6 | 80.6 | 96 | 63.5 | 40.7 |
| 45-49 | * | * | * | * | * | * | * | * | * | 21 | * | * |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 19.0 | 4.6 | 23.6 | 57.7 | 5.0 | 62.7 | 76.7 | 9.6 | 86.3 | 812 | 72.7 | 52.8 |
| Rural | 23.3 | 3.0 | 26.3 | 58.0 | 5.3 | 63.3 | 81.3 | 8.3 | 89.6 | 511 | 70.6 | 51.2 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 17.0 | 0.9 | 17.9 | 66.4 | 3.0 | 69.4 | 83.4 | 3.9 | 87.3 | 104 | 79.5 | 43.9 |
| Central | 12.2 | 4.3 | 16.5 | 65.4 | 7.6 | 73.0 | 77.6 | 12.0 | 89.5 | 170 | 81.5 | 52.4 |
| Greater Accra | 16.0 | 7.5 | 23.5 | 53.7 | 2.8 | 56.5 | 69.7 | 10.3 | 80.0 | 187 | 70.6 | 57.0 |
| Volta | 25.0 | 4.7 | 29.7 | 56.7 | 3.4 | 60.1 | 81.7 | 8.1 | 89.8 | 65 | 66.9 | 54.4 |
| Eastern | 18.7 | 8.3 | 27.0 | 52.2 | 11.2 | 63.4 | 70.9 | 19.6 | 90.4 | 136 | 70.1 | 53.5 |
| Ashanti | 16.1 | 2.2 | 18.3 | 63.5 | 6.5 | 70.0 | 79.6 | 8.7 | 88.3 | 314 | 79.2 | 59.7 |
| Western North | 28.2 | 1.5 | 29.7 | 57.2 | 1.4 | 58.6 | 85.4 | 2.9 | 88.3 | 35 | 66.3 | 50.3 |
| Ahafo | 24.8 | 6.1 | 31.0 | 62.3 | 2.2 | 64.5 | 87.1 | 8.4 | 95.4 | 29 | 67.6 | 55.2 |
| Bono | 25.3 | 2.1 | 27.4 | 50.4 | 3.7 | 54.1 | 75.6 | 5.9 | 81.5 | 71 | 66.4 | 47.3 |
| Bono East | 42.7 | 5.4 | 48.1 | 36.5 | 2.0 | 38.5 | 79.2 | 7.4 | 86.6 | 66 | 44.5 | 33.0 |
| Oti | 27.4 | 3.4 | 30.8 | 50.4 | 5.6 | 56.0 | 77.8 | 9.0 | 86.8 | 29 | 64.6 | 43.7 |
| Northern | (25.5) | (0.0) | (25.5) | (70.4) | (1.9) | (72.4) | (96.0) | (1.9) | (97.9) | 39 | (73.9) | (42.1) |
| Savannah | 33.7 | 0.0 | 33.7 | 39.0 | 2.2 | 41.2 | 72.7 | 2.2 | 74.9 | 15 | 55.1 | 43.6 |
| North East | (42.5) | (0.0) | (42.5) | (55.5) | (0.0) | (55.5) | (98.0) | (0.0) | (98.0) | 9 | (56.6) | (54.3) |
| Upper East | 51.6 | 0.0 | 51.6 | 43.2 | 0.0 | 43.2 | 94.8 | 0.0 | 94.8 | 33 | 45.6 | 37.7 |
| Upper West | 30.4 | 0.0 | 30.4 | 54.6 | 3.3 | 57.8 | 85.0 | 3.3 | 88.3 | 21 | 65.5 | 57.0 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 20.9 | 15.0 | 35.8 | 28.2 | 12.2 | 40.4 | 49.0 | 27.2 | 76.2 | 54 | 53.0 | 39.9 |
| Primary | 20.9 | 7.3 | 28.2 | 53.2 | 7.8 | 61.0 | 74.1 | 15.1 | 89.2 | 181 | 68.4 | 54.7 |
| Secondary | 21.7 | 3.1 | 24.8 | 58.0 | 4.6 | 62.7 | 79.7 | 7.8 | 87.5 | 984 | 71.6 | 51.0 |
| More than secondary | 11.0 | 0.0 | 11.0 | 78.9 | 1.2 | 80.1 | 89.8 | 1.2 | 91.1 | 104 | 88.0 | 64.3 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 36.0 | 2.0 | 38.0 | 50.6 | 3.4 | 54.0 | 86.5 | 5.5 | 92.0 | 137 | 58.7 | 46.5 |
| Second | 21.8 | 5.5 | 27.3 | 55.4 | 7.8 | 63.1 | 77.2 | 13.2 | 90.4 | 248 | 69.8 | 45.8 |
| Middle | 21.6 | 5.3 | 27.0 | 54.7 | 3.7 | 58.4 | 76.4 | 9.0 | 85.4 | 366 | 68.4 | 52.1 |
| Fourth | 20.0 | 2.2 | 22.2 | 57.7 | 6.5 | 64.2 | 77.7 | 8.7 | 86.4 | 342 | 74.3 | 54.0 |
| Highest | 10.0 | 3.7 | 13.7 | 69.7 | 3.5 | 73.2 | 79.6 | 7.3 | 86.9 | 230 | 84.2 | 60.2 |
| Total | 20.7 | 3.9 | 24.6 | 57.8 | 5.1 | 62.9 | 78.5 | 9.1 | 87.5 | 1,323 | 71.9 | 52.2 |

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Total demand is the sum of unmet need and met need.
${ }^{2}$ Percentage of demand satisfied is met need divided by total demand
${ }^{3}$ Modern methods include female sterilisation, male sterilisation, IUD, injectables, implants, pill, male condom, female condom, emergency
contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.
${ }^{4}$ Women who have had sexual intercourse within 30 days preceding the survey

Table 7.16 Decision making about family planning
Percent distribution of currently married women by person who usually makes the decision to use or not use family planning, Ghana DHS 2022

| Decision maker | Percentage |
| :--- | :---: |
| Mainly wife | 41.7 |
| Wife and husband/partner jointly | 42.4 |
| Wife's opinion more important | 4.1 |
| Wife's and husband's/partner's opinion |  |
| equally important | 33.3 |
| Wife's opinion less important than |  |
| $\quad$ husband's/partner's | 4.9 |
| Mainly husband | 13.7 |
| Someone else/other | 2.1 |
| Missing | 0.1 |
| Total | 100.0 |
| Number of currently married women | 8,205 |

Table 7.17 Decision making about family planning by background characteristics
Percent distribution of currently married women age 15-49 by person who usually makes the decision to use or not use family planning and percentage who participate in the decision to use or not use family planning, according to background characteristics, Ghana DHS 2022

| Background characteristic | Mainly wife | Wife and husband/ partner jointly | Mainly husband/ partner | Someone else/ other | Total | Percentage who participate in decision making about family planning | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |
| 15-19 | 38.5 | 30.5 | 23.9 | 7.1 | 100.0 | 68.9 | 194 |
| 20-24 | 39.5 | 40.2 | 17.8 | 2.5 | 100.0 | 79.7 | 1,013 |
| 25-29 | 37.4 | 44.1 | 16.2 | 2.3 | 100.0 | 81.5 | 1,457 |
| 30-34 | 39.9 | 44.7 | 14.0 | 1.4 | 100.0 | 84.6 | 1,719 |
| 35-39 | 41.7 | 44.6 | 12.0 | 1.8 | 100.0 | 86.2 | 1,641 |
| 40-44 | 45.6 | 40.4 | 11.9 | 2.1 | 100.0 | 86.0 | 1,239 |
| 45-49 | 49.7 | 39.8 | 8.1 | 2.4 | 100.0 | 89.5 | 941 |
| Family planning use |  |  |  |  |  |  |  |
| Currently using | 39.1 | 49.3 | 10.8 | 0.8 | 100.0 | 88.4 | 2,981 |
| Not currently using ${ }^{1}$ | 43.2 | 38.5 | 15.4 | 2.9 | 100.0 | 81.8 | 5,224 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 36.1 | 46.9 | 13.1 | 3.9 | 100.0 | 83.0 | 593 |
| 1-2 | 41.4 | 42.2 | 14.1 | 2.2 | 100.0 | 83.7 | 3,018 |
| 3-4 | 42.3 | 42.6 | 13.4 | 1.7 | 100.0 | 84.9 | 2,792 |
| $5+$ | 43.3 | 41.1 | 13.7 | 2.0 | 100.0 | 84.4 | 1,801 |
| Residence |  |  |  |  |  |  |  |
| Urban | 42.7 | 44.1 | 11.5 | 1.7 | 100.0 | 86.8 | 4,248 |
| Rural | 40.7 | 40.7 | 16.1 | 2.6 | 100.0 | 81.3 | 3,956 |
| Region |  |  |  |  |  |  |  |
| Western | 29.7 | 61.0 | 8.9 | 0.3 | 100.0 | 90.7 | 487 |
| Central | 39.3 | 51.1 | 9.1 | 0.6 | 100.0 | 90.4 | 816 |
| Greater Accra | 45.7 | 45.4 | 8.7 | 0.3 | 100.0 | 91.0 | 1,144 |
| Volta | 50.6 | 32.1 | 10.2 | 7.1 | 100.0 | 82.7 | 375 |
| Eastern | 41.6 | 33.5 | 22.6 | 2.4 | 100.0 | 75.1 | 633 |
| Ashanti | 39.7 | 50.7 | 8.3 | 1.2 | 100.0 | 90.5 | 1,426 |
| Western North | 40.2 | 47.2 | 10.1 | 2.6 | 100.0 | 87.4 | 231 |
| Ahafo | 40.0 | 35.8 | 23.8 | 0.4 | 100.0 | 75.9 | 183 |
| Bono | 46.8 | 44.9 | 6.2 | 2.1 | 100.0 | 91.7 | 284 |
| Bono East | 46.5 | 30.6 | 22.6 | 0.2 | 100.0 | 77.1 | 376 |
| Oti | 50.8 | 31.0 | 12.1 | 6.1 | 100.0 | 81.8 | 248 |
| Northern | 32.8 | 37.4 | 25.7 | 4.2 | 100.0 | 70.1 | 870 |
| Savannah | 43.1 | 32.5 | 22.2 | 2.3 | 100.0 | 75.6 | 218 |
| North East | 40.6 | 25.4 | 26.0 | 8.0 | 100.0 | 66.0 | 229 |
| Upper East | 51.1 | 38.9 | 8.0 | 2.0 | 100.0 | 90.0 | 426 |
| Upper West | 49.3 | 31.0 | 16.2 | 3.5 | 100.0 | 80.3 | 258 |
| Education |  |  |  |  |  |  |  |
| No education | 41.0 | 33.8 | 21.0 | 4.1 | 100.0 | 74.9 | 2,015 |
| Primary | 45.4 | 38.1 | 15.0 | 1.4 | 100.0 | 83.5 | 1,233 |
| Secondary | 42.0 | 45.6 | 11.0 | 1.4 | 100.0 | 87.6 | 4,174 |
| More than secondary | 36.6 | 54.4 | 7.2 | 1.8 | 100.0 | 91.0 | 783 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 42.5 | 33.9 | 20.3 | 3.4 | 100.0 | 76.3 | 1,662 |
| Second | 42.9 | 37.7 | 16.5 | 2.9 | 100.0 | 80.6 | 1,513 |
| Middle | 41.6 | 43.9 | 11.8 | 2.7 | 100.0 | 85.5 | 1,545 |
| Fourth | 42.4 | 46.1 | 10.4 | 1.1 | 100.0 | 88.5 | 1,743 |
| Highest | 39.4 | 49.9 | 9.9 | 0.7 | 100.0 | 89.3 | 1,742 |
| Total | 41.7 | 42.5 | 13.7 | 2.1 | 100.0 | 84.2 | 8,205 |

${ }^{1}$ Nonusers include pregnant women.

Table 7.18 Pressure to become pregnant
Percentage of currently married women who were ever pressured by their husbands/partners or any other family member to become pregnant when they did not want to, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of women pressured to become pregnant by their husband/partner or other family member | Number of women |
| :---: | :---: | :---: |
| Age |  |  |
| 15-19 | 7.7 | 194 |
| 20-24 | 8.4 | 1,013 |
| 25-29 | 10.4 | 1,457 |
| 30-34 | 10.9 | 1,719 |
| 35-39 | 9.8 | 1,641 |
| 40-44 | 10.6 | 1,239 |
| 45-49 | 13.4 | 941 |
| Number of living children |  |  |
| 0 | 18.4 | 593 |
| 1-2 | 11.7 | 3,018 |
| 3-4 | 9.0 | 2,792 |
| $5+$ | 8.1 | 1,801 |
| Family planning use |  |  |
| Currently using | 10.9 | 2,981 |
| Not currently using ${ }^{1}$ | 10.3 | 5,224 |
| Residence |  |  |
| Urban | 11.2 | 4,248 |
| Rural | 9.7 | 3,956 |
| Region |  |  |
| Western | 8.3 | 487 |
| Central | 21.2 | 816 |
| Greater Accra | 7.3 | 1,144 |
| Volta | 13.0 | 375 |
| Eastern | 7.3 | 633 |
| Ashanti | 11.0 | 1,426 |
| Western North | 8.1 | 231 |
| Ahafo | 12.2 | 183 |
| Bono | 5.4 | 284 |
| Bono East | 7.5 | 376 |
| Oti | 12.4 | 248 |
| Northern | 13.2 | 870 |
| Savannah | 7.0 | 218 |
| North East | 4.2 | 229 |
| Upper East | 6.8 | 426 |
| Upper West | 10.2 | 258 |
| Education |  |  |
| No education | 9.2 | 2,015 |
| Primary | 13.2 | 1,233 |
| Secondary | 10.6 | 4,174 |
| More than secondary | 8.9 | 783 |
| Wealth quintile |  |  |
| Lowest | 8.5 | 1,662 |
| Second | 9.3 | 1,513 |
| Middle | 10.8 | 1,545 |
| Fourth | 12.6 | 1,743 |
| Highest | 11.0 | 1,742 |
| Total | 10.5 | 8,205 |

${ }^{1}$ Nonusers include pregnant women.

Table 7.19 Future use of contraception
Percent distribution of currently married women age 15-49 who are not using a contraceptive method by intention to use in the future, according to number of living children, Ghana DHS 2022

|  | Number of living children ${ }^{1}$ |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intention to use in the future | 0 | 1 | 2 | 3 | $4+$ | Total |
| Intends to use | 30.2 | 34.3 | 35.0 | 32.7 | 32.0 | 33.0 |
| Unsure | 2.2 | 2.1 | 1.9 | 2.3 | 1.8 | 2.0 |
| Does not intend to use | 67.6 | 63.6 | 63.1 | 65.0 | 66.2 | 65.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 332 | 889 | 1,071 | 959 | 1,973 | 5,224 |
| ${ }^{1}$ Includes current pregnancy |  |  |  |  |  |  |

Table 7.20.1 Exposure to family planning messages: Women
Percentage of women age 15-49 who heard or saw specific family planning messages in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Radio | Television | Newspaper/ magazine | Mobile phone | Social media ${ }^{1}$ | Poster/ leaflet/ brochure | Outdoor sign or billboard | Community meeting or event | None of these eight sources | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 28.6 | 33.5 | 3.8 | 4.7 | 11.8 | 12.6 | 11.3 | 22.1 | 41.6 | 2,682 |
| 20-24 | 37.1 | 44.4 | 4.6 | 9.4 | 25.3 | 19.6 | 18.3 | 28.2 | 27.4 | 2,695 |
| 25-29 | 40.4 | 49.7 | 4.7 | 8.4 | 20.6 | 22.3 | 22.8 | 31.5 | 24.4 | 2,340 |
| 30-34 | 45.5 | 52.1 | 6.3 | 7.1 | 20.4 | 23.3 | 24.0 | 35.0 | 24.5 | 2,252 |
| 35-39 | 44.3 | 50.6 | 4.2 | 6.2 | 12.5 | 19.2 | 18.8 | 30.8 | 27.0 | 2,059 |
| 40-44 | 48.7 | 48.9 | 4.1 | 4.1 | 8.1 | 17.3 | 18.0 | 31.1 | 27.3 | 1,675 |
| 45-49 | 43.5 | 43.8 | 2.7 | 2.9 | 4.6 | 13.1 | 15.2 | 26.1 | 34.5 | 1,312 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 44.1 | 55.4 | 5.9 | 8.0 | 21.7 | 20.0 | 22.1 | 27.7 | 24.1 | 8,557 |
| Rural | 35.1 | 33.0 | 2.5 | 4.4 | 8.2 | 16.4 | 13.3 | 31.1 | 36.8 | 6,457 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 58.8 | 59.3 | 6.1 | 6.0 | 19.9 | 11.5 | 20.0 | 32.0 | 14.0 | 955 |
| Central | 43.6 | 51.6 | 4.8 | 8.5 | 17.7 | 27.3 | 22.1 | 43.4 | 19.0 | 1,703 |
| Greater Accra | 48.4 | 62.8 | 6.8 | 7.9 | 26.2 | 15.8 | 21.8 | 23.7 | 19.3 | 2,327 |
| Volta | 36.5 | 35.7 | 4.4 | 5.8 | 13.3 | 19.5 | 13.4 | 38.4 | 33.0 | 713 |
| Eastern | 43.2 | 56.0 | 3.2 | 5.9 | 15.0 | 30.2 | 21.6 | 21.2 | 21.0 | 1,220 |
| Ashanti | 33.9 | 42.1 | 3.8 | 6.3 | 16.9 | 16.9 | 19.4 | 18.4 | 38.6 | 2,928 |
| Western North | 47.9 | 48.1 | 5.3 | 7.2 | 11.6 | 19.6 | 14.2 | 44.5 | 26.1 | 411 |
| Ahafo | 51.6 | 46.2 | 1.8 | 6.3 | 11.5 | 22.1 | 17.6 | 51.6 | 15.1 | 317 |
| Bono | 40.2 | 45.8 | 3.0 | 5.7 | 12.9 | 19.7 | 15.6 | 29.5 | 29.5 | 567 |
| Bono East | 28.2 | 35.1 | 3.5 | 4.8 | 9.8 | 14.2 | 11.6 | 20.1 | 45.5 | 676 |
| Oti | 29.9 | 25.0 | 2.3 | 3.8 | 5.7 | 12.5 | 10.4 | 47.8 | 36.6 | 403 |
| Northern | 37.0 | 39.5 | 5.1 | 5.8 | 8.9 | 16.2 | 19.7 | 30.4 | 39.9 | 1,149 |
| Savannah | 23.2 | 22.8 | 1.4 | 2.3 | 6.5 | 7.2 | 3.3 | 19.0 | 49.6 | 319 |
| North East | 21.6 | 20.1 | 1.3 | 2.4 | 3.8 | 5.8 | 5.4 | 23.4 | 52.0 | 290 |
| Upper East | 37.3 | 30.7 | 5.3 | 9.3 | 16.2 | 21.8 | 21.2 | 33.9 | 35.0 | 640 |
| Upper West | 31.2 | 17.0 | 2.6 | 4.9 | 8.6 | 12.1 | 11.2 | 42.6 | 35.6 | 398 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 30.0 | 24.8 | 1.1 | 0.9 | 1.0 | 9.0 | 9.5 | 29.2 | 46.0 | 2,411 |
| Primary | 34.5 | 37.0 | 1.1 | 1.4 | 2.5 | 12.9 | 12.1 | 27.0 | 37.5 | 2,071 |
| Secondary | 42.3 | 49.5 | 3.8 | 7.0 | 16.2 | 18.3 | 18.1 | 28.6 | 26.6 | 8,999 |
| More than secondary | 51.5 | 68.1 | 18.5 | 19.2 | 56.0 | 41.3 | 42.4 | 34.9 | 10.6 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 30.1 | 15.3 | 0.9 | 2.1 | 3.3 | 10.9 | 8.7 | 28.9 | 47.7 | 2,447 |
| Second | 34.4 | 33.2 | 2.0 | 2.5 | 4.6 | 15.0 | 14.1 | 32.6 | 36.7 | 2,712 |
| Middle | 38.9 | 47.2 | 3.2 | 6.1 | 10.0 | 17.5 | 16.1 | 29.6 | 29.5 | 3,121 |
| Fourth | 42.9 | 56.1 | 4.4 | 7.9 | 19.8 | 20.5 | 20.6 | 29.1 | 23.2 | 3,379 |
| Highest | 50.7 | 66.3 | 10.2 | 11.8 | 35.9 | 25.4 | 28.6 | 26.1 | 17.0 | 3,355 |
| Total | 40.2 | 45.7 | 4.5 | 6.5 | 15.9 | 18.4 | 18.3 | 29.1 | 29.6 | 15,014 |

[^19]Table 7.20.2 Exposure to family planning messages: Men
Percentage of men age 15-49 who heard or saw specific family planning messages in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Radio | Television | Newspaper/ magazine | Mobile phone | Social media ${ }^{1}$ | Poster/ leaflet/ brochure | Outdoor sign or billboard | Community meeting or events | None of these eight sources | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 27.8 | 34.4 | 4.3 | 6.2 | 24.1 | 18.9 | 20.5 | 23.4 | 34.7 | 1,424 |
| 20-24 | 48.4 | 47.2 | 11.1 | 14.4 | 44.5 | 27.2 | 33.0 | 31.6 | 17.6 | 1,033 |
| 25-29 | 49.5 | 51.5 | 8.6 | 15.1 | 44.6 | 28.3 | 31.0 | 27.4 | 17.5 | 888 |
| 30-34 | 55.5 | 56.9 | 11.0 | 12.3 | 37.4 | 28.8 | 34.3 | 30.6 | 15.4 | 853 |
| 35-39 | 60.5 | 59.2 | 8.7 | 10.3 | 32.2 | 26.9 | 35.0 | 32.0 | 12.5 | 809 |
| 40-44 | 62.8 | 57.7 | 8.6 | 10.6 | 24.2 | 28.2 | 40.9 | 31.9 | 16.5 | 713 |
| 45-49 | 66.2 | 56.0 | 12.3 | 9.3 | 20.3 | 31.0 | 37.2 | 34.4 | 14.6 | 557 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 51.1 | 57.7 | 10.8 | 12.0 | 41.1 | 27.9 | 36.8 | 26.8 | 15.7 | 3,442 |
| Rural | 47.8 | 40.0 | 6.2 | 9.6 | 22.9 | 23.9 | 25.3 | 32.5 | 25.5 | 2,835 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 81.0 | 83.9 | 29.3 | 20.4 | 53.1 | 58.9 | 58.5 | 20.9 | 5.8 | 414 |
| Central | 39.7 | 48.9 | 7.3 | 19.1 | 26.4 | 21.2 | 26.5 | 44.2 | 15.9 | 686 |
| Greater Accra | 60.9 | 61.9 | 9.5 | 8.1 | 46.9 | 14.2 | 32.6 | 17.5 | 11.0 | 1,076 |
| Volta | 48.0 | 40.8 | 9.1 | 9.3 | 21.9 | 24.7 | 26.4 | 33.7 | 22.2 | 235 |
| Eastern | 50.7 | 53.2 | 6.8 | 10.4 | 32.7 | 31.0 | 31.1 | 50.0 | 14.9 | 466 |
| Ashanti | 38.2 | 42.3 | 5.6 | 5.5 | 33.8 | 23.4 | 30.4 | 29.6 | 25.4 | 1,179 |
| Western North | 52.1 | 45.1 | 5.5 | 13.2 | 23.9 | 23.8 | 15.6 | 31.6 | 22.4 | 181 |
| Ahafo | 51.6 | 41.1 | 3.1 | 12.7 | 24.8 | 26.5 | 23.9 | 31.7 | 24.3 | 133 |
| Bono | 53.5 | 51.5 | 7.6 | 14.7 | 30.8 | 25.0 | 43.0 | 24.9 | 21.2 | 222 |
| Bono East | 63.8 | 63.8 | 10.2 | 11.3 | 41.8 | 52.7 | 57.9 | 20.5 | 9.0 | 316 |
| Oti | 44.3 | 37.7 | 4.8 | 11.5 | 17.5 | 15.6 | 20.5 | 23.6 | 33.0 | 187 |
| Northern | 43.3 | 39.1 | 7.2 | 12.4 | 24.7 | 32.4 | 22.6 | 32.0 | 26.0 | 484 |
| Savannah | 37.9 | 35.1 | 6.7 | 11.3 | 18.4 | 17.8 | 19.5 | 32.0 | 28.7 | 155 |
| North East | 49.6 | 34.6 | 7.0 | 11.7 | 18.8 | 34.5 | 29.5 | 43.4 | 27.2 | 119 |
| Upper East | 40.7 | 31.5 | 7.0 | 6.6 | 20.6 | 16.1 | 26.9 | 19.1 | 36.5 | 267 |
| Upper West | 30.4 | 24.6 | 5.2 | 6.8 | 13.0 | 12.7 | 12.5 | 20.7 | 51.6 | 155 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 44.2 | 29.0 | 2.3 | 2.1 | 6.4 | 17.6 | 16.6 | 21.8 | 35.2 | 628 |
| Primary | 43.7 | 35.6 | 1.2 | 3.2 | 10.1 | 13.9 | 18.9 | 23.7 | 32.2 | 725 |
| Secondary | 49.9 | 51.4 | 7.4 | 10.9 | 32.3 | 25.2 | 30.7 | 30.5 | 18.9 | 3,990 |
| More than secondary | 56.5 | 67.3 | 24.3 | 23.1 | 70.8 | 45.2 | 55.6 | 34.2 | 5.9 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 45.1 | 22.5 | 2.1 | 5.4 | 12.0 | 18.7 | 20.0 | 25.7 | 35.9 | 1,089 |
| Second | 42.6 | 40.8 | 5.8 | 9.3 | 19.1 | 21.4 | 23.7 | 31.0 | 26.6 | 1,133 |
| Middle | 51.2 | 52.8 | 7.6 | 11.4 | 28.3 | 28.4 | 28.4 | 33.1 | 19.7 | 1,137 |
| Fourth | 54.1 | 61.3 | 10.0 | 12.1 | 39.1 | 28.9 | 35.1 | 29.7 | 13.2 | 1,466 |
| Highest | 52.7 | 63.1 | 15.5 | 14.9 | 56.6 | 30.7 | 45.4 | 27.4 | 10.6 | 1,453 |
| Total 15-49 | 49.6 | 49.7 | 8.7 | 11.0 | 32.9 | 26.1 | 31.6 | 29.4 | 20.1 | 6,277 |
| 50-59 | 62.6 | 53.3 | 8.9 | 8.4 | 12.5 | 26.3 | 34.7 | 42.0 | 16.0 | 767 |
| Total 15-59 | 51.0 | 50.1 | 8.7 | 10.7 | 30.7 | 26.1 | 31.9 | 30.7 | 19.7 | 7,044 |

${ }^{1}$ Social media includes platforms such as Facebook, Twitter, and Instagram.

Table 7.21 Contact of nonusers with family planning providers
Among women age 15-49 who are not using contraception, percentage who during the last 12 months were visited by a fieldworker who discussed family planning, percentage who visited a health facility and discussed family planning, percentage who visited a health facility but did not discuss family planning, and percentage who did not discuss family planning either with a fieldworker or at a health facility, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of women who were visited by a fieldworker who discussed family planning | Percentage of women who visited a health facility in the last 12 months and who: |  | Percentage of women who did not discuss family planning either with a fieldworker or at a health facility | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Discussed family planning | Did not discuss family planning |  |  |
| Age |  |  |  |  |  |
| 15-19 | 2.3 | 4.3 | 25.4 | 94.3 | 2,246 |
| 20-24 | 2.7 | 13.1 | 38.0 | 85.5 | 1,689 |
| 25-29 | 4.2 | 20.4 | 43.7 | 78.0 | 1,474 |
| 30-34 | 4.8 | 23.5 | 40.3 | 74.4 | 1,399 |
| 35-39 | 3.0 | 17.5 | 38.3 | 81.0 | 1,303 |
| 40-44 | 3.4 | 10.0 | 40.1 | 87.9 | 1,147 |
| 45-49 | 3.7 | 6.8 | 42.6 | 90.7 | 1,031 |
| Residence |  |  |  |  |  |
| Urban | 2.7 | 12.5 | 37.5 | 86.1 | 5,888 |
| Rural | 4.1 | 14.2 | 36.5 | 83.6 | 4,401 |
| Region |  |  |  |  |  |
| Western | 3.9 | 13.8 | 36.7 | 84.5 | 590 |
| Central | 2.1 | 13.3 | 37.4 | 85.0 | 1,018 |
| Greater Accra | 1.1 | 11.5 | 36.8 | 88.1 | 1,735 |
| Volta | 4.5 | 15.8 | 34.4 | 81.2 | 504 |
| Eastern | 4.5 | 13.4 | 40.2 | 84.0 | 838 |
| Ashanti | 1.7 | 10.1 | 41.8 | 88.9 | 1,841 |
| Western North | 4.5 | 13.9 | 43.3 | 82.7 | 269 |
| Ahafo | 8.5 | 18.9 | 35.3 | 78.9 | 195 |
| Bono | 1.7 | 15.5 | 31.4 | 83.1 | 387 |
| Bono East | 3.6 | 17.7 | 36.3 | 80.0 | 541 |
| Oti | 8.9 | 12.6 | 32.0 | 80.9 | 288 |
| Northern | 7.5 | 13.8 | 34.7 | 84.0 | 856 |
| Savannah | 3.2 | 16.7 | 35.0 | 81.7 | 254 |
| North East | 5.6 | 18.2 | 32.7 | 79.5 | 241 |
| Upper East | 3.6 | 14.1 | 34.4 | 85.0 | 451 |
| Upper West | 1.1 | 11.7 | 30.7 | 87.6 | 280 |
| Education |  |  |  |  |  |
| No education | 4.3 | 14.4 | 35.6 | 83.4 | 1,810 |
| Primary | 3.6 | 12.0 | 33.7 | 86.0 | 1,442 |
| Secondary | 3.0 | 12.4 | 36.2 | 86.0 | 6,036 |
| More than secondary | 3.1 | 17.6 | 50.4 | 80.8 | 1,000 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 3.6 | 15.4 | 31.9 | 82.9 | 1,828 |
| Second | 4.5 | 14.6 | 32.4 | 83.0 | 1,858 |
| Middle | 3.2 | 12.0 | 35.8 | 86.4 | 2,066 |
| Fourth | 3.1 | 12.1 | 39.0 | 86.1 | 2,205 |
| Highest | 2.5 | 12.7 | 44.4 | 86.2 | 2,331 |
| Total | 3.3 | 13.2 | 37.1 | 85.1 | 10,289 |

## Key Findings

- Under-5 mortality: In the 5 years before the survey, the under- 5 mortality rate was 40 deaths per 1,000 live births.
- Neonatal mortality: In the 5 years before the survey, the neonatal mortality rate was 17 deaths per 1,000 live births.
- Infant mortality: The infant mortality rate was 28 deaths per 1,000 live births in the 5 years before the survey.
- Trends: Under-5 mortality declined from 155 deaths per 1,000 live births in 1988 to 40 deaths per 1,000 live births in 2022. Over the same period, infant mortality declined from 77 deaths per 1,000 live births to 28 deaths per 1,000 live births.
- High-risk fertility behaviour: $30 \%$ of births in the 5 years preceding the survey were not in any high-risk category, $23 \%$ were in an unavoidable risk category, and $48 \%$ were in any avoidable high-risk category. Seventyfour percent of currently married women age 15-49 would have been in an avoidable high-risk category if they had conceived at the time of the survey; $28 \%$ would have been in a single high-risk category, and $46 \%$ would have been in a multiple high-risk category.

Information on infant and child mortality is relevant to a demographic assessment of a country's population and is an important indicator of the country's socioeconomic development and people's quality of life. It can also help identify children who may be at higher risk of death and lead to strategies to reduce this risk, such as promoting birth spacing.

This chapter presents information on levels, trends, and differentials in perinatal, neonatal, infant, and under-5 mortality rates. It also examines biodemographic factors and fertility behaviours that increase mortality risks for infants and children. The information was collected as part of a retrospective pregnancy history in which female respondents listed all of the children to whom they have given birth, along with each child's date of birth, survivorship status, and current age or age at death.

The quality of mortality estimates calculated from pregnancy histories depends on the mother's ability to recall all of the children she has given birth to, as well as their birth dates and ages at death. Potential data quality problems include:

- The selective omission from pregnancy histories of those births that did not survive, which can result in underestimation of childhood mortality.
- The displacement of birth dates, which could distort mortality trends. This can occur if an interviewer knowingly records a birth as occurring in a different year than the one in which it occurred. This could happen if an interviewer is trying to cut down on his or her overall workload, because live births occurring during the 3 years before the interview are the subject of a lengthy set of additional questions.
- The quality of reporting of age at death. Misreporting the child's age at death may distort the age pattern of mortality, especially if the net effect of the age misreporting is to transfer deaths from one age bracket to another.
- Any method of measuring childhood mortality that relies on mothers' reports (for example, birth histories) assumes that female adult mortality is not high or, if it is high, that there is little or no correlation between the mortality risks of mothers and those of their children.

Selected indicators of the quality of the mortality data on which the estimates of mortality in this chapter are based are presented in Appendix C, Tables C. 5 and C.6.

### 8.1 Infant and Child Mortality

Neonatal mortality: The probability of dying within the first month of life.
Postneonatal mortality: The probability of dying between the first month of life and the first birthday (computed as the difference between infant and neonatal mortality).
Infant mortality: The probability of dying between birth and the first birthday.
Child mortality: The probability of dying between the first and the fifth birthday.
Under-5 mortality: The probability of dying between birth and the fifth birthday.

During the 5 years immediately preceding the survey, the neonatal mortality rate was 17 deaths per 1,000 live births, the infant mortality rate was 28 deaths per 1,000 live births, and the under- 5 mortality rate was 40 deaths per 1,000 live births (Table 8.1). Neonatal deaths account for $45 \%$ of under- 5 mortality.

Trends: The under-5 mortality rate decreased from 111 deaths per 1,000 live births in the 2003 GDHS to 40 deaths per 1,000 live births in the 2022 GDHS (Figure 8.1).

Table 8.2 presents data on childhood mortality by background characteristics. Table 8.3 presents data on the relationship between additional characteristics and childhood mortality for the 10-year period preceding the survey. A 10-year period was used to increase the reliability of the estimates calculated.

Figure 8.1 Trends in early childhood mortality rates
Deaths per 1,000 live births in the 5-year
period before the survey


Under- 5 mortality is 52 deaths per 1,000 live births among children whose mothers have no education, as compared with 19 deaths per 1,000 live births among children whose mothers have more than a secondary education (Figure 8.2). By region, under5 mortality ranges from 20 deaths per 1,000 live births in Greater Accra to 72 deaths per 1,000 live births in Oti (Map 8.1).

Figure 8.2 Under-5 mortality by mother's education

Deaths per 1,000 live births for the 10-year period before the survey


Note: Figures in parentheses are based on 250-499 unweighted children.

## Map 8.1 Under-5 mortality by region

Deaths per 1,000 live births for the 10-year period before the survey


### 8.2 Perinatal Mortality

## Perinatal mortality rate

Perinatal deaths comprise stillbirths (pregnancy losses occurring after 28 weeks of gestation) and early neonatal deaths (deaths of live births within the first 7 days of life). The perinatal mortality rate is calculated as the number of perinatal deaths per 1,000 pregnancies of 28 or more weeks' duration.
Sample: Number of pregnancies of 28 or more weeks' duration among women age 15-49 in the 5 years before the survey

In 2014 the Every Newborn Action Plan, a global multipartner movement to end preventable maternal and newborn deaths and stillbirths, set a target for national stillbirth rates of 12 or fewer stillbirths per 1,000 births in all countries by 2030 (WHO and UNICEF 2014).

In the 2022 GDHS, 132 stillbirths were recorded, which is equivalent to 15 stillbirths per 1,000 pregnancies of 28 or more weeks' duration. Similarly, there were 114 early neonatal deaths during the 5 -year period preceding the survey, with a nearly equivalent rate of 13 early neonatal deaths per 1,000 live births. This leads to a perinatal mortality rate of 28 deaths per 1,000 pregnancies of 28 or more weeks' duration (Table 8.4). Perinatal mortality is highest for mothers with a primary education ( 36 deaths per 1,000 pregnancies) and lowest for mothers with a secondary education (26 deaths per 1,000 pregnancies) (Figure 8.3).

### 8.3 High-risk Fertility Behaviour

Figure 8.3 Perinatal mortality by mother's education
Deaths per 1,000 pregnancies of 7 or more months' duration in the 5 -year period before the survey

The survival of infants and children depends in part on the demographic and biological characteristics of their mothers. Typically, the probability of dying in infancy is much greater among children born to mothers who are too young (under age 18) or too old (over age 34), children born after a short birth interval (less than 24 months after the preceding birth), and children born to mothers of high parity (more than three children). Table 8.5 gives the percent distribution of children born in the 5 years preceding the survey by category of elevated risk of mortality (along with risk ratios) and the percent distribution of currently married women by their category of risk if they were to conceive a child at the time of the survey.

Thirty percent of births in the 5 years preceding the survey were not in any high-risk category. Twentythree percent of births were in an unavoidable risk category. Forty-eight percent of births were in any avoidable high-risk category, $28 \%$ were in a single high-risk category (mother's age less than 18 years, mother's age more than 34 years, birth interval less than 24 months, and birth order greater than three), and $19 \%$ were in multiple high-risk categories (Table 8.5).

The risk ratio denotes the relationship between risk factors and mortality. For example, the risk of dying for a child who falls into any of the avoidable high-risk categories is 1.68 times that for a child not in any high-risk category. Among births in a single high-risk category, the risk ratio is highest for births to mothers less than age 18 ; children born to mothers less than age 18 have a 1.92 times greater risk of death than those not in any risk category.

Among births in multiple high-risk categories, the risk of dying is highest for births with a birth interval of less than 24 months and a birth order greater than three. Children born to mothers in both categories have a 4.02 times greater risk of death than those born to mothers who are not in any high-risk category.

Seventy-four percent of currently married women age 15-49 would have been in an avoidable high-risk category if they had conceived at the time of the survey; $28 \%$ would have been in a single high-risk category, and $46 \%$ would have been in a multiple high-risk category (Table 8.5).

## List of Tables

For more information on infant and child mortality, see the following tables:

- Table 8.1 Early childhood mortality rates
- Table 8.2 Five-year early childhood mortality rates according to background characteristics
- Table 8.3 Ten-year early childhood mortality rates according to additional characteristics
- Table 8.4 Perinatal mortality
- Table 8.5 High-risk fertility behaviour

Table 8.1 Early childhood mortality rates
Neonatal, postneonatal, infant, child, and under-5 mortality rates for 5-year periods preceding the survey, Ghana DHS 2022

| Years preceding the survey | Neonatal mortality (NN) | 95\% CI | Postneonatal mortality (PNN) ${ }^{1}$ | 95\% CI | Infant mortality ( 190 ) | 95\% CI | Child mortality (491) | 95\% CI | Under-5 mortality (5q0) | 95\% CI |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-4 | 17 | [14, 21] | 11 | [8, 13] | 28 | [24, 32] | 12 | [9, 15] | 40 | [35, 44] |
| 5-9 | 20 | [16, 24] | 11 | [9, 14] | 32 | [27, 36] | 16 | [13, 20] | 47 | [42, 53] |
| 10-14 | 27 | [22, 32] | 11 | [8, 14] | 38 | [32, 44] | 16 | [12, 20] | 53 | [46, 60] |

${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates

Table 8.2 Five-year early childhood mortality rates according to background characteristics
Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 5 -year period preceding the survey, according to background characteristics, Ghana DHS 2022

| Background <br> characteristic | Neonatal <br> mortality <br> $(\mathrm{NN})$ | Postneonatal <br> mortality <br> $(\mathrm{PNN})^{1}$ | Infant <br> mortality <br> $\left(1 \mathrm{q}_{0}\right)$ | Child <br> mortality <br> $\left(4 \mathrm{q}_{1}\right)$ | Under-5 <br> mortality <br> $\left(5 q_{0}\right)$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Child's sex | 20 | 11 | 31 |  |  |
| Male | 10 | 24 | 12 | 43 |  |
| Female | 14 | 10 | 12 | 36 |  |
| Residence | 17 | 10 | 27 | 10 | 37 |
| Urban | 17 | 11 | 29 | 14 | 42 |
| Rural | 17 | 11 | 28 | 12 | 40 |
| Total |  |  |  |  |  |

${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates

Table 8.3 Ten-year early childhood mortality rates according to additional characteristics
Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 10-year period preceding the survey, according to additional characteristics, Ghana DHS 2022

| Characteristic | Neonatal mortality (NN) | Post-neonatal mortality (PNN) ${ }^{1}$ | Infant mortality ( 190 ) | Child mortality (491) | Under-5 mortality (5qo) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |  |  |
| <20 | 27 | 21 | 48 | 18 | 65 |
| 20-29 | 16 | 10 | 26 | 15 | 40 |
| 30-39 | 19 | 10 | 29 | 12 | 40 |
| 40-49 | 30 | 11 | 41 | (11) | (52) |
| Birth order |  |  |  |  |  |
| 1 | 20 | 14 | 34 | 12 | 46 |
| 2-3 | 13 | 9 | 23 | 15 | 37 |
| 4-6 | 23 | 11 | 34 | 14 | 48 |
| 7+ | 26 | 11 | 37 | 15 | 51 |
| Previous birth interval ${ }^{2}$ |  |  |  |  |  |
| <2 years | 29 | 20 | 49 | 29 | 77 |
| 2 years | 16 | 8 | 24 | 13 | 37 |
| 3 years | 15 | 8 | 22 | 10 | 32 |
| $4+$ years | 18 | 9 | 26 | 12 | 38 |
| Region |  |  |  |  |  |
| Western | 25 | 11 | 36 | 12 | 48 |
| Central | 14 | 20 | 34 | 13 | 46 |
| Greater Accra | 10 | 6 | 16 | 4 | 20 |
| Volta | 29 | 9 | 38 | 10 | 47 |
| Eastern | 15 | 11 | 26 | 16 | 42 |
| Ashanti | 23 | 12 | 34 | 11 | 45 |
| Western North | 13 | 9 | 22 | 15 | 37 |
| Ahafo | 13 | 5 | 17 | 12 | 29 |
| Bono | 13 | 11 | 24 | 13 | 36 |
| Bono East | 24 | 12 | 36 | 12 | 48 |
| Oti | 32 | 12 | 44 | 29 | 72 |
| Northern | 15 | 10 | 25 | 27 | 52 |
| Savannah | 32 | 14 | 46 | 18 | 63 |
| North East | 11 | 10 | 20 | 21 | 41 |
| Upper East | 27 | 9 | 36 | 13 | 49 |
| Upper West | 16 | 10 | 25 | 17 | 42 |
| Mother's education |  |  |  |  |  |
| No education | 19 | 13 | 32 | 21 | 52 |
| Primary | 19 | 17 | 36 | 17 | 52 |
| Secondary | 20 | 9 | 29 | 10 | 39 |
| More than secondary | 8 | 6 | 15 | 4 | 19 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 22 | 13 | 35 | 22 | 56 |
| Second | 22 | 7 | 29 | 18 | 46 |
| Middle | 20 | 15 | 36 | 13 | 48 |
| Fourth | 15 | 12 | 26 | 10 | 36 |
| Highest | 12 | 8 | 21 | 5 | 25 |

[^20]Table 8.4 Perinatal mortality
Number of stillbirths, number of early neonatal deaths, stillbirth rate, early neonatal rate, perinatal mortality rate, and the ratio of stillbirths to early neonatal deaths for the 5 -year period preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Number of stillbirths ${ }^{1}$ | Number of early neonatal deaths ${ }^{2}$ | Stillbirth rate ${ }^{3}$ | Early neonatal mortality rate ${ }^{4}$ | Perinatal mortality rate ${ }^{5}$ | Number of pregnancies of 28+ weeks' duration ${ }^{6}$ | Ratio of stillbirths to early neonatal deaths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 22 | 14 | 25 | 16 | 41 | 868 | 1.6 |
| 20-29 | 50 | 49 | 12 | 12 | 24 | 4,174 | 1.0 |
| 30-39 | 52 | 42 | 16 | 13 | 30 | 3,181 | 1.2 |
| 40-49 | 8 | 10 | 17 | 21 | 38 | 489 | 0.8 |
| Previous pregnancy interval in months ${ }^{7}$ |  |  |  |  |  |  |  |
| First pregnancy | 42 | 32 | 21 | 17 | 37 | 1,995 | 1.3 |
| <15 | 21 | 19 | 15 | 14 | 29 | 1,383 | 1.1 |
| 15-26 | 22 | 10 | 12 | 5 | 17 | 1,837 | 2.3 |
| 27-38 | 13 | 15 | 10 | 11 | 21 | 1,328 | 0.9 |
| 39+ | 34 | 38 | 16 | 18 | 33 | 2,169 | 0.9 |
| Residence |  |  |  |  |  |  |  |
| Urban | 56 | 60 | 13 | 14 | 28 | 4,229 | 0.9 |
| Rural | 76 | 54 | 17 | 12 | 29 | 4,484 | 1.4 |
| Region |  |  |  |  |  |  |  |
| Western | (9) | (10) | (16) | (18) | (34) | 543 | 0.9 |
| Central | 18 | 11 | 20 | 13 | 33 | 894 | 1.6 |
| Greater Accra | (20) | (7) | (18) | (7) | (25) | 1,100 | 2.7 |
| Volta | (7) | (2) | (21) | (6) | (27) | 324 | 3.8 |
| Eastern | (7) | (8) | (10) | (13) | (23) | 638 | 0.8 |
| Ashanti | 22 | 27 | 14 | 18 | 31 | 1,572 | 0.8 |
| Western North | (1) | (2) | (6) | (10) | (17) | 228 | 0.6 |
| Ahafo | 2 | 2 | (10) | (10) | (20) | 192 | 1.0 |
| Bono | (4) | (3) | 14 | 11 | 26 | 290 | 1.3 |
| Bono East | 4 | 7 | 8 | 15 | 23 | 456 | 0.5 |
| Oti | 5 | 7 | 16 | 24 | 39 | 294 | 0.7 |
| Northern | 21 | 11 | 22 | 12 | 33 | 969 | 1.9 |
| Savannah | 4 | 6 | 14 | 23 | 37 | 262 | 0.6 |
| North East | 3 | 2 | 12 | 8 | 20 | 276 | 1.6 |
| Upper East | 3 | 5 | 8 | 12 | 20 | 420 | 0.7 |
| Upper West | 3 | 4 | 10 | 16 | 26 | 255 | 0.6 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 36 | 28 | 18 | 14 | 32 | 2,026 | 1.3 |
| Primary | 33 | 15 | 25 | 11 | 36 | 1,336 | 2.3 |
| Secondary | 51 | 67 | 11 | 15 | 26 | 4,530 | 0.7 |
| More than secondary | 12 | 4 | 15 | 5 | 20 | 820 | 3.0 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 34 | 25 | 16 | 12 | 28 | 2,070 | 1.3 |
| Second | 27 | 33 | 15 | 19 | 34 | 1,778 | 0.8 |
| Middle | 26 | 30 | 15 | 18 | 33 | 1,703 | 0.9 |
| Fourth | 14 | 17 | 9 | 10 | 19 | 1,641 | 0.8 |
| Highest | 31 | 10 | 20 | 7 | 27 | 1,520 | 3.1 |
| Total | 132 | 114 | 15 | 13 | 28 | 8,713 | 1.2 |

Note: Respondents may choose to report the duration of their pregnancy in either weeks or months. Figures in parentheses are based on 250499 children.
${ }^{1}$ Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months.
${ }^{2}$ Early neonatal deaths are deaths at age 0-6 days among live-born children.
${ }^{3}$ The number of stillbirths divided by the number of pregnancies lasting 28 or more weeks, expressed per 1,000
${ }^{4}$ The number of early neonatal deaths divided by the number of live births, expressed per 1,000
${ }^{5}$ The sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies lasting 28 or more weeks, expressed per 1,000
${ }^{6}$ Includes pregnancies lasting 7 or more months when duration of pregnancy is reported in months
${ }^{7}$ Pregnancy interval categories correspond to birth interval categories of <24 months, 24-35 months, 36-47 months, and 48+ months assuming a pregnancy duration of 9 months.

Table 8.5 High-risk fertility behaviour
Percent distribution of children born in the 5 years preceding the survey by category of elevated risk of mortality and the risk ratio, and percent distribution of currently married women by category of risk if they were to conceive a child at the time of the survey, Ghana DHS 2022

| Risk category | Births in the 5 years preceding the survey |  | Percentage of currently married women ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
|  | Percentage of births | Risk ratio |  |
| Not in any high-risk category | 29.5 | 1.00 | $20.8{ }^{\text {a }}$ |
| Unavoidable risk category |  |  |  |
| First-order births between age 18 and age 34 | 22.8 | 1.56 | 5.7 |
| In any avoidable high-risk category | 47.7 | 1.68 | 73.5 |
| Single high-risk category |  |  |  |
| Mother's age <18 only | 3.8 | 1.92 | 0.2 |
| Mother's age >34 only | 3.6 | 1.02 | 8.3 |
| Birth interval <24 months only | 5.2 | 1.62 | 9.2 |
| Birth order > 3 only | 15.8 | 1.33 | 10.3 |
| Subtotal | 28.4 | 1.43 | 27.9 |
| Multiple high-risk category |  |  |  |
| Age <18 and birth interval <24 months ${ }^{2}$ | 0.0 | * | 0.1 |
| Age >34 and birth interval <24 months | 0.3 | * | 0.6 |
| Age $>34$ and birth order $>3$ | 14.4 | 1.67 | 33.0 |
| Age >34 and birth interval <24 months and birth order >3 | 1.5 | 2.34 | 5.3 |
| Birth interval <24 months and birth order >3 | 2.9 | 4.02 | 6.6 |
| Subtotal | 19.3 | 2.06 | 45.6 |
| Total | 100.0 | na | 100.0 |
| Subtotals by individual avoidable high-risk category |  |  |  |
| Mother's age $<18$ | 3.9 | 1.94 | 0.3 |
| Mother's age >34 | 19.8 | 1.58 | 47.2 |
| Birth interval <24 months | 10.1 | 2.39 | 21.7 |
| Birth order >3 | 34.7 | 1.75 | 55.2 |
| Number of births/women | 8,581 | na | 8,205 |

Note: Risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category. An asterisk indicates that a ratio is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable
${ }^{1}$ Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.
${ }^{2}$ Includes the category age <18 and birth order >3
${ }^{\text {a }}$ Includes sterilised women

## maternal and newborn health care

## Key Findings

- Antenatal care coverage: $98 \%$ of women age 15-49 received antenatal care (ANC) from a skilled provider, and $88 \%$ had at least four ANC visits. Midwives and nurses were the most common service providers ( $80 \%$ ).
- Institutional deliveries: $86 \%$ of live births occurred in health facilities and $13 \%$ at home. A majority of births were delivered by midwives and nurses ( $69 \%$ ).
- Caesarean section deliveries: $21 \%$ of live births were delivered via caesarean section.
- Postnatal care: $87 \%$ of mothers and newborns had postnatal checks during the first 2 days after birth.

Health care services during pregnancy, childbirth, and after delivery are important for the survival and well-being of both the mother and the infant. Antenatal care (ANC) can reduce health risks for mothers and infants through monitoring of pregnancies and screening for complications. Delivery at a health facility, with skilled medical attention under hygienic conditions, reduces the risk of complications and infections during labour and delivery. Timely postnatal care provides an opportunity to treat complications arising from delivery and teach the mother how to care for herself and her newborn.

The first part of this chapter presents information on ANC providers, number and timing of ANC visits, and various components of care. The second focuses on childbirth and provides information on place of delivery, assistance during delivery, and caesarean deliveries. The third section focuses on postnatal care and presents information on postnatal health checks for mothers and newborns and men's involvement in maternal health care. The final section covers issues that affect women's health regardless of their maternal status: whether women have been examined for breast or cervical cancer, problems they experience accessing health care, and the distance from their home to the nearest health facility.

The reproductive, maternal, newborn, child, and adolescent health and nutrition strategic plan for 20202025 has the specific objectives of improving maternal and newborn health, strengthening the availability of emergency obstetric and newborn care services, and improving accountability for the lives of mothers and newborns ( MoH 2020 ).

### 9.1 Antenatal Care Coverage and Content

### 9.1.1 Skilled Providers

Antenatal care (ANC) from a skilled provider
Pregnancy care received from skilled providers, such as doctors, midwives, and nurses.
Sample: Women age 15-49 who had a live birth or stillbirth in the 2 years before the survey

Overall, $98 \%$ of women age 15-49 received ANC from a skilled provider for their most recent birth. Midwives and nurses were the most common service providers ( $80 \%$ ), followed by doctors ( $18 \%$ ). Only $2 \%$ of women did not receive any ANC (Table 9.1).

Trends: As shown in Figure 9.1, the percentage of women with a live birth in the 2 years preceding the survey who received antenatal care from a skilled provider increased from $85 \%$ in 1993 to $97 \%$ in 2014 and $98 \%$ in 2022.

### 9.1.2 Timing and Number of Antenatal Care Visits

Eighty-eight percent of women had four or more ANC visits during their most recent pregnancy resulting in a live birth in the 2 years preceding the survey, and $39 \%$ had eight or more ANC visits (Table 9.2).

Trends: The percentage of women who had four or more ANC visits increased from $58 \%$ in 1993 to $86 \%$

Figure 9.1 Trends in antenatal care coverage

Percentage of women age 15-49 who had a live birth in the 2 years before the survey (for the most recent birth)


199319982003200820142022
GDHS GDHS GDHS GDHS GDHS GDHS in 2014 and $88 \%$ in 2022 (Figure 9.1).

### 9.2 Components of Antenatal Care

## Components of antenatal care

Specific antenatal care services performed by a health care provider include measuring blood pressure, taking a urine sample, taking a blood sample, listening for the baby's heartbeat, counselling about the mother's diet, counselling about breastfeeding, and asking about vaginal bleeding.
Sample—quality of care indicator: Women age 15-49 who had a live birth or stillbirth in the 2 years before the survey and had at least one ANC visit
Sample-population-based indicator: All women age 15-49 who had a live birth or stillbirth in the 2 years before the survey

The ability for ANC to act as an effective intervention for identifying issues occurring during pregnancy that could adversely affect pregnancy outcomes is dictated in large part by the components of ANC services offered by the health care provider.

As a part of ANC, certain interventions and tests are recommended at each ANC contact. These include the following:

- Measuring blood pressure. Taking a woman's blood pressure at each antenatal care visit is essential to monitor for gestational hypertension or preeclampsia.
- Conducting urine and blood tests. These tests assess signs of infection or other diseases and conditions that could negatively affect a woman or her baby during or after pregnancy.
- Listening to the baby's heartbeat. This can confirm that the foetus is alive as well as reassure the mother.
- Counselling on maternal nutrition, specifically on healthy eating during pregnancy and breastfeeding. These counselling messages promote healthy weight gain during pregnancy and can help the pregnant woman breastfeed her newborn early.
- Asking about vaginal bleeding. Light bleeding or spotting is common, especially during the first few months of a pregnancy. Heavy bleeding may be a sign of something more serious; a pregnant woman experiencing heavy bleeding should visit a health care provider.

Table 9.3.1 shows the percentage of women with a live birth or stillbirth in the 2 years before the survey who reported that they had at least one ANC visit and received specified ANC services. The results in this table measure the quality of the ANC services these women received. Table 9.3.2 shows the percentage of all women with a live birth or stillbirth in the last 2 years who received specified ANC services, regardless of whether they reported an ANC visit. The results in this table measure coverage of these key ANC interventions among the population of women in need of them.

Among women age 15-49 who received ANC for their most recent live birth, $98 \%$ had their blood pressure measured, $99 \%$ each had urine and blood samples taken, $99 \%$ reported that the provider listened to the baby's heartbeat, $94 \%$ were counselled on their diet and $89 \%$ on breastfeeding, and $81 \%$ were asked if they had experienced vaginal bleeding (Table 9.3.1 and Figure 9.2).

Trends: The percentage of women who had their blood pressure measured increased from $95 \%$ in 2003 to $99 \%$ in 2014 before decreasing slightly to $98 \%$ in 2022.

Between 2003 and 2022, the percentage of women who had a urine sample taken increased from $83 \%$ to $99 \%$ and the percentage who had a blood sample taken rose from 85\% to 99\% (Figure 9.3).

### 9.2.1 Deworming and Iron-containing Supplementation during Pregnancy

During pregnancy, women have higher micronutrient needs and are at risk of micronutrient deficiencies, including iron deficiency, which is a primary cause of anaemia. Severe anaemia can place the mother and the baby in danger through increased risk of blood loss during labour and increased risk of preterm delivery, low birth weight, and perinatal

Figure 9.2 Components of antenatal care
Among women had a live birth in the 2 years before the survey, the percentage with selected services


Figure 9.3 Trends in antenatal care coverage

Percentage of women age 15-49 who had a live birth in the 2 years before the survey (for the most recent birth)
 mortality (Haider et al. 2013). To help address maternal anaemia, interventions provide iron tablets or syrup and/or iron-containing multiple micronutrient supplements to pregnant women (WHO 2016c).

Women with a live birth or stillbirth in the 2 years preceding the survey were asked if they took iron supplementation and deworming medication during their most recent pregnancy. Table 9.4 shows that $92 \%$ of women took some form of iron supplementation. Overall, $60 \%$ of women took iron supplements for 90 days or more and $29 \%$ took them for more than 6 months.

### 9.2.2 Source of Iron-containing Supplements

Information on sources of iron-containing supplements can increase understanding of the distribution patterns of supplements.

Among women age 15-49 who took some form of iron supplementation during the pregnancy of their most recent live birth, $85 \%$ obtained supplements from public sector sources, $11 \%$ from non-NGO (nongovernmental organisation) private medical sector sources, and 5\% from other private sector sources including shops and markets (Table 9.5). Within the public sector, hospitals were the predominant source ( $39 \%$ ), followed by government health centres ( $17 \%$ ) and community-based health planning and services (CHPS)/government health posts ( $13 \%$ ).

### 9.3 Protection against Neonatal Tetanus

## Protection against neonatal tetanus

The number of tetanus toxoid injections needed to protect a baby from neonatal tetanus depends on the mother's vaccinations. A birth is protected against neonatal tetanus if the mother has received any of the following:

- Two tetanus toxoid injections during the pregnancy
- Two or more injections, the last one within 3 years of the birth
- Three or more injections, the last one within 5 years of the birth
- Four or more injections, the last one within 10 years of the birth
- Five or more injections at any time prior to the birth

Sample: Women age 15-49 with a live birth in the 2 years before the survey

Tetanus toxoid injections are given during pregnancy to prevent neonatal tetanus, one of the major causes of early infant death in many low-income countries. Neonatal tetanus is often caused by lack of access to hygienic procedures during delivery.

Forty-eight percent of women age 15-49 received two or more tetanus toxoid injections for their most recent live birth. Overall, $74 \%$ of women had their most recent live births protected against neonatal tetanus (Table 9.6).

Trends: The percentage of women whose most recent live births were protected against neonatal tetanus increased from $69 \%$ in 2008 to $77 \%$ in 2014 and then decreased to $74 \%$ in 2022.

### 9.4 Delivery Services

### 9.4.1 Institutional Deliveries

## Institutional deliveries

Deliveries that occur in a health facility.
Sample: All live births and/or stillbirths in the 2 years before the survey

Eighty-six percent of live births in the 2 years preceding the survey were delivered in a health facility. Seventy-six percent of births occurred in a public facility, $10 \%$ in a private facility, $13 \%$ at home, and $1 \%$ at other locations (Table 9.7). Almost all births to women with at least a primary education are delivered in a health facility $(98 \%-100 \%)$, as compared with $92 \%$ of births to women with no education (Figure 9.4).

Trends: Institutional deliveries increased from $42 \%$ in 1993 to $75 \%$ in 2014 and $86 \%$ in 2022. Over the same period, home deliveries declined from $57 \%$ to $25 \%$ and then to 13\% (Figure 9.5).

### 9.4.2 Delivery by Caesarean

Caesarean sections (C-sections) may be required when vaginal delivery poses a risk to the mother or baby. Although this procedure can save lives, it can put women and babies at risk of medical problems if performed without medical need.

Figure 9.4 Health facility births by education


Figure 9.5 Trends in place of birth
Percentage of live births in the 2 years before the survey


Slightly more than one in every five ( $21 \%$ ) live births in the 2 years preceding the survey were delivered via caesarean section (Table 9.8 and Figure 9.6).

Trends: The percentage of live births in the 2 years preceding the survey delivered via caesarean section has increased steadily over time, from $5 \%$ in 1993 to $13 \%$ in 2014 and $21 \%$ in 2022.

Figure 9.6 Caesarean section by birth outcome

Percentage of live births in the 2 years before the survey that were delivered by caesarean section


### 9.4.3 Skilled Assistance during Delivery

## Skilled assistance during delivery

Births delivered with the assistance of doctors, midwives/nurses, and community health workers.
Sample: All live births and/or stillbirths in the 2 years before the survey

During pregnancy, counselling should be provided to pregnant women and their families about the benefits of giving birth in a health facility with assistance from a skilled health professional. Evidence suggests that even if all precautions are taken during pregnancy, complications can still occur before, during, or after childbirth (WHO 2017c). Giving birth at a hospital with skilled assistance increases the chances of resolving all ensuing complications to improve the health of the mother and newborn (GHS 2016).

Sixty-nine percent of live births in the 2 years preceding the survey were delivered by midwives or nurses, $19 \%$ by doctors, $7 \%$ by traditional birth attendants (TBAs), $2 \%$ by relatives, and $1 \%$ by community health workers; $2 \%$ of deliveries were not assisted by anyone (Table 9.9 and Figure 9.7). Eighty-eight percent of live births in the 2 years preceding the survey were delivered by a skilled provider. The percentage of deliveries attended by a skilled provider decreases with increasing birth order, from $93 \%$ among first-order births to $73 \%$ among sixth- or higher-order births (Figure 9.8).

Figure 9.8 Skilled assistance at delivery by birth order
Percentage of live births in the 2 years before the survey that were delivered by a skilled provider


Trends: The percentage of live births delivered by a skilled provider increased from $43 \%$ in 1993 to $76 \%$ in 2014 and $88 \%$ in 2022. During the same period, the percentage of live births delivered by traditional birth attendants decreased from $16 \%$ to $15 \%$ and then to 7\% (Figure 9.9).

## Duration of Stay at the Health Facility

Among women who delivered via caesarean section for their most recent live birth, $83 \%$ stayed in the health facility for 3 or more days. One in every two women with vaginal births stayed in the health facility for less than 24 hours and $39 \%$ stayed in the health facility for 1 to 2 days (Table 9.10).

Figure 9.7 Assistance during delivery
Percent distribution of births in the 2 years before the survey


Figure 9.9 Trends in assistance during delivery
Percentage of live births in the 2 years


### 9.5 Postnatal Care

### 9.5.1 Postnatal Health Check for Mothers

Among women age 15-49 with a live birth and/or stillbirth in the 2 years preceding the survey, $87 \%$ had a postnatal check during the first 2 days after their most recent live birth, with most checks occurring within 4 hours of delivery (73\%) (Table 9.11).

Women who deliver in a health facility are more likely to receive their first postnatal check within 2 days of delivery ( $94 \%$ ) than those who deliver elsewhere (47\%) (Figure 9.10).

Trends: The percentage of women with a live birth who had a postnatal check during the first 2 days after birth increased from $55 \%$ in 2008 to $81 \%$ in 2014 and then to $87 \%$ in 2022.

## Type of Provider

Eighty-three percent of women with a live birth in the 2 years preceding the survey received a postnatal check during the first 2 days after delivery from a doctor, a midwife, or a nurse. Traditional birth attendants provided the first postnatal check for $4 \%$ of women (Table 9.12).

## Content of Care

Seventy-four percent of women with a live birth in the 2 years preceding the survey had their blood pressure checked, $65 \%$ were informed about vaginal bleeding, and $50 \%$ were counselled about family planning during the first 2 days after birth by a health care provider. Overall, $45 \%$ of women had all three checks performed by a health care provider in the first 2 days after birth (Table 9.13).

### 9.5.2 Postnatal Health Check for Newborns

Eighty-seven percent of newborns had a postnatal check during the first 2 days after birth, with most checks taking place less than 4 hours after delivery ( $74 \%$ ). One in 10 newborns had no postnatal check (Table 9.14).

## Type of Provider

Eighty-three percent of newborns received a postnatal check during the first 2 days after birth from a doctor, a midwife, or a nurse. Traditional birth attendants provided the first postnatal check for $4 \%$ of newborns (Table 9.15).

## Content of Care

Postnatal breastfeeding counselling supports exclusive breastfeeding. Face-to-face breastfeeding counselling facilitates observation of positioning and the latch of the infant and allows for tailored breastfeeding counselling and support (WHO 2018).

Seventy-eight percent of newborns had their umbilical cord examined, $76 \%$ had their temperature measured, and $82 \%$ had their weight measured. Seventy-one percent of mothers of newborns were counseled on newborn danger signs, and another $71 \%$ were counselled on breastfeeding and observed
breastfeeding. Overall, $60 \%$ of newborns had all five signal functions performed during the first 2 days after birth (Table 9.16).

### 9.5.3 Postnatal Health Checks for Mothers and Newborns

Overall, $83 \%$ of both mothers and newborns received a postnatal check during the first 2 days after delivery, while $9 \%$ of both mothers and newborns did not receive any postnatal check (Table 9.17).

### 9.6 Men’s Involvement in Maternal Health Care

Among men age 15-49 with a youngest child age 0-2, $95 \%$ reported that the child's mother had an antenatal check-up during the pregnancy, and $52 \%$ were present during an antenatal check-up. Eighty-six percent of men reported that their child was born in a health facility, and $66 \%$ of these men went with the child's mother to the health facility (Table 9.18).

### 9.7 Breast and Cervical Cancer Examinations

## Breast cancer examination

Women were asked if a doctor or other health care provider examined their breasts to check for cancer. The examination could include either a clinical breast exam, in which health care providers use their hands to feel for lumps or other changes, or use of medical equipment to make an image of the breast tissue, such as a mammogram.

## Cervical cancer examination

To be checked for cervical cancer, a woman is asked to lie on her back with her legs apart. Then the health care worker will use a brush or swab to collect a sample from inside her. The sample is sent to a laboratory for testing. This test is called a Pap smear or human papillomavirus (HPV) test. Another method is visual inspection with acetic acid (VIA). In this test, the health care worker puts vinegar on the cervix to see if there is a reaction. Women were asked if a doctor or other health care provider ever tested them for cervical cancer. Information on the type of screening test was not collected.
Sample: Women age 15-49

Overall, among women age 15-49, 5\% have been tested for cervical cancer and $18 \%$ have been examined for breast cancer by a doctor or a health care worker (Table 9.19). The percentage of women who have received breast and cervical cancer examinations increases with increasing household wealth (Figure 9.11).

Figure 9.11 Breast and cervical cancer exams by household wealth
Percentage of women age 15-49 who were ever examined by a healthcare worker for:

- Breast cancer Cervical cancer



### 9.8 Problems in Accessing Health Care

## Problems in accessing health care

Women were asked whether each of the following factors is a big problem in seeking medical advice or treatment for themselves when they are sick:

- Getting permission to go to the doctor
- Getting money for advice or treatment
- Distance to a health facility
- Not wanting to go alone

Sample: Women age 15-49

Many factors can prevent women from obtaining medical advice or treatment for themselves when they are sick. Information on such factors is particularly important in understanding and addressing the barriers women may face in seeking care during pregnancy and at the time of delivery.

More than half of women (54\%) reported that they have at least one problem in accessing health care. The most common problem is getting money for treatment (45\%), followed by distance to a health facility ( $22 \%$ ). Sixteen percent of women mentioned not wanting to go alone, and $10 \%$ mentioned getting permission to go for treatment (Table 9.20).

### 9.9 Distance and Means of Transport to the Nearest Health Facility

Distance to the nearest health facility is one of the major factors influencing the health-seeking practices of women in Ghana. In the 2022 GDHS, women were asked to provide details on travel time to the nearest health facility and the means of transport by which they reached the facility.

The majority ( $88 \%$ ) of women reported traveling less than 1 hour to the nearest health facility; $58 \%$ travel less than 30 minutes, and $30 \%$ travel between 30 minutes and 59 minutes. Only $3 \%$ of women travel 2 hours or more to the nearest health facility.

Traveling via nonmotorised means is more common among the women interviewed (61\%) than traveling via motorised means (39\%) (Table 9.21).

## List of Tables

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## Table 9.1 Antenatal care

Percent distribution of women age 15-49 who had a live birth and/or stillbirth in the 2 years preceding the survey by antenatal care (ANC) provider during the pregnancy for the most recent live birth or stillbirth and percentage receiving antenatal care from a skilled provider for the most recent live birth or stillbirth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Antenatal care provider |  |  |  |  | No ANC | Total | Percentage receiving antenatal care from a skilled provider ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor | Nurse/ midwife | Traditional birth attendant | Community health worker/ fieldworker | Other |  |  |  |  |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 6.5 | 91.2 | 0.0 | 0.5 | 0.0 | 1.8 | 100.0 | 97.6 | 351 |
| 20-34 | 17.0 | 80.9 | 0.0 | 0.3 | 0.0 | 1.7 | 100.0 | 97.9 | 2,449 |
| 35-49 | 26.0 | 71.4 | 0.0 | 0.5 | 0.2 | 1.9 | 100.0 | 97.5 | 692 |
| Birth order ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| 1 | 17.8 | 81.1 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 | 98.9 | 1,016 |
| 2-3 | 18.8 | 79.1 | 0.1 | 0.5 | 0.0 | 1.5 | 100.0 | 97.9 | 1,287 |
| 4-5 | 18.2 | 78.3 | 0.0 | 0.9 | 0.0 | 2.6 | 100.0 | 96.5 | 760 |
| 6+ | 13.1 | 83.6 | 0.0 | 0.0 | 0.2 | 3.0 | 100.0 | 96.8 | 428 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 25.3 | 73.2 | 0.0 | 0.1 | 0.0 | 1.3 | 100.0 | 98.6 | 1,623 |
| Rural | 11.1 | 86.0 | 0.0 | 0.7 | 0.1 | 2.2 | 100.0 | 97.1 | 1,868 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 11.9 | 81.0 | 0.0 | 3.3 | 0.0 | 3.8 | 100.0 | 92.9 | 208 |
| Central | 8.1 | 90.1 | 0.0 | 0.6 | 0.0 | 1.2 | 100.0 | 98.2 | 357 |
| Greater Accra | 45.6 | 50.1 | 0.0 | 0.0 | 0.0 | 4.3 | 100.0 | 95.7 | 410 |
| Volta | 12.1 | 87.2 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 | 99.2 | 130 |
| Eastern | 26.8 | 72.8 | 0.0 | 0.5 | 0.0 | 0.0 | 100.0 | 99.5 | 246 |
| Ashanti | 23.9 | 76.1 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | 631 |
| Western North | 16.5 | 83.1 | 0.0 | 0.0 | 0.0 | 0.4 | 100.0 | 99.6 | 96 |
| Ahafo | 24.5 | 73.2 | 0.0 | 0.0 | 0.4 | 1.9 | 100.0 | 97.7 | 77 |
| Bono | 7.2 | 91.6 | 0.0 | 0.7 | 0.0 | 0.5 | 100.0 | 98.8 | 113 |
| Bono East | 9.5 | 89.7 | 0.0 | 0.0 | 0.0 | 0.8 | 100.0 | 99.2 | 191 |
| Oti | 6.0 | 91.5 | 0.3 | 0.0 | 0.9 | 1.4 | 100.0 | 97.4 | 123 |
| Northern | 10.0 | 86.4 | 0.0 | 0.3 | 0.0 | 3.4 | 100.0 | 96.4 | 395 |
| Savannah | 10.6 | 84.5 | 0.0 | 0.0 | 0.0 | 4.9 | 100.0 | 95.1 | 105 |
| North East | 8.2 | 87.3 | 0.2 | 0.0 | 0.0 | 4.3 | 100.0 | 95.5 | 112 |
| Upper East | 4.5 | 94.5 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 | 99.0 | 191 |
| Upper West | 8.2 | 89.9 | 0.0 | 1.2 | 0.0 | 0.6 | 100.0 | 98.2 | 105 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 8.1 | 88.2 | 0.1 | 0.2 | 0.1 | 3.4 | 100.0 | 96.2 | 728 |
| Primary | 19.3 | 77.6 | 0.0 | 0.7 | 0.0 | 2.3 | 100.0 | 96.9 | 542 |
| Secondary | 17.4 | 81.0 | 0.0 | 0.4 | 0.0 | 1.2 | 100.0 | 98.4 | 1,898 |
| More than secondary | 38.9 | 60.3 | 0.0 | 0.1 | 0.0 | 0.7 | 100.0 | 99.2 | 323 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 8.2 | 87.4 | 0.0 | 0.5 | 0.2 | 3.7 | 100.0 | 95.6 | 853 |
| Second | 10.7 | 87.0 | 0.0 | 0.5 | 0.0 | 1.7 | 100.0 | 97.7 | 723 |
| Middle | 15.2 | 83.2 | 0.0 | 0.4 | 0.0 | 1.1 | 100.0 | 98.4 | 705 |
| Fourth | 22.6 | 75.6 | 0.0 | 0.2 | 0.0 | 1.6 | 100.0 | 98.2 | 631 |
| Highest | 38.1 | 61.7 | 0.0 | 0.2 | 0.0 | 0.0 | 100.0 | 99.8 | 579 |
| Total | 17.7 | 80.1 | 0.0 | 0.4 | 0.0 | 1.8 | 100.0 | 97.8 | 3,491 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |  |
| Total | 7.7 | 83.5 | 0.0 | 0.0 | 0.0 | 8.9 | 100.0 | 91.1 | 57 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| Total | 17.5 | 80.1 | 0.0 | 0.4 | 0.0 | 1.9 | 100.0 | 97.7 | 3,534 |

Note: If more than one source of ANC was mentioned, only the provider with the highest qualifications is considered in this tabulation. Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months.
${ }^{1}$ Skilled provider includes doctor and nurse/midwife (community health nurse, community health officer, enrolled nurse, public health nurse, or general nurse).
${ }^{2}$ Birth order refers to the order of the birth among the respondent's live births.
${ }^{3}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

| Background characteristic | Number of ANC visits |  |  |  |  |  |  | Number of months pregnant at time of first ANC visit |  |  |  |  |  |  | Total | Number of women | Median months pregnant at first visit (for those with ANC) | Number of women with ANC |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | 1 | 2 | 3 | 4-7 | 8+ | Don't know | Total | 4+ ANC visits | $\begin{gathered} \text { No } \\ \text { antenatal } \\ \text { care } \\ \hline \end{gathered}$ | $<4$ | 4-6 | 7+ | Don't know |  |  |  |  |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <20 | 1.8 | 3.5 | 5.6 | 5.9 | 55.8 | 27.3 | 0.0 | 100.0 | 83.1 | 1.8 | 51.0 | 40.3 | 6.8 | 0.0 | 100.0 | 351 | 3.9 | 344 |
| 20-34 | 1.7 | 1.3 | 3.0 | 5.5 | 48.7 | 39.7 | 0.1 | 100.0 | 88.4 | 1.7 | 64.1 | 30.6 | 3.5 | 0.1 | 100.0 | 2,449 | 3.4 | 2,406 |
| 35-49 | 1.9 | 2.1 | 3.6 | 4.4 | 47.4 | 40.5 | 0.0 | 100.0 | 87.9 | 1.9 | 62.6 | 31.4 | 4.0 | 0.1 | 100.0 | 692 | 3.5 | 679 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1.0 | 1.4 | 2.6 | 4.3 | 50.3 | 40.2 | 0.0 | 100.0 | 90.5 | 1.0 | 64.4 | 31.1 | 3.5 | 0.0 | 100.0 | 1,016 | 3.4 | 1,006 |
| 2-3 | 1.5 | 1.6 | 3.2 | 5.1 | 46.7 | 41.7 | 0.1 | 100.0 | 88.4 | 1.5 | 66.5 | 27.6 | 4.3 | 0.2 | 100.0 | 1,287 | 3.3 | 1,268 |
| 4-5 | 2.6 | 1.7 | 3.0 | 4.9 | 50.2 | 37.6 | 0.1 | 100.0 | 87.8 | 2.6 | 60.6 | 34.3 | 2.4 | 0.1 | 100.0 | 760 | 3.5 | 740 |
| $6+$ | 3.0 | 2.7 | 6.1 | 8.9 | 52.2 | 27.2 | 0.0 | 100.0 | 79.4 | 3.0 | 49.5 | 41.2 | 6.3 | 0.0 | 100.0 | 428 | 4.0 | 415 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.3 | 1.0 | 2.6 | 3.7 | 45.0 | 46.2 | 0.0 | 100.0 | 91.2 | 1.3 | 66.2 | 28.4 | 4.0 | 0.0 | 100.0 | 1,623 | 3.4 | 1,602 |
| Rural | 2.2 | 2.3 | 4.0 | 6.7 | 52.8 | 32.0 | 0.1 | 100.0 | 84.8 | 2.2 | 59.2 | 34.6 | 3.8 | 0.2 | 100.0 | 1,868 | 3.6 | 1,827 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 3.8 | 2.0 | 1.2 | 3.6 | 42.8 | 46.5 | 0.0 | 100.0 | 89.4 | 3.8 | 67.0 | 26.9 | 2.3 | 0.0 | 100.0 | 208 | 3.3 | 200 |
| Central | 1.2 | 1.0 | 5.2 | 4.6 | 43.3 | 44.7 | 0.0 | 100.0 | 88.0 | 1.2 | 63.3 | 28.3 | 7.2 | 0.0 | 100.0 | 357 | 3.5 | 353 |
| Greater Accra | 4.3 | 1.8 | 1.7 | 2.2 | 40.8 | 49.3 | 0.0 | 100.0 | 90.1 | 4.3 | 61.0 | 28.6 | 6.1 | 0.0 | 100.0 | 410 | 3.6 | 392 |
| Volta | 0.8 | 0.8 | 1.8 | 2.7 | 48.6 | 45.3 | 0.0 | 100.0 | 94.0 | 0.8 | 70.5 | 25.8 | 2.5 | 0.5 | 100.0 | 130 | 3.3 | 129 |
| Eastern | 0.0 | 1.4 | 3.1 | 6.9 | 43.9 | 44.8 | 0.0 | 100.0 | 88.7 | 0.0 | 61.5 | 32.1 | 6.4 | 0.0 | 100.0 | 246 | 3.5 | 246 |
| Ashanti | 0.0 | 0.4 | 3.8 | 6.1 | 50.8 | 38.8 | 0.0 | 100.0 | 89.7 | 0.0 | 64.4 | 33.4 | 2.2 | 0.0 | 100.0 | 631 | 3.5 | 631 |
| Western North | 0.4 | 2.7 | 4.9 | 5.2 | 56.7 | 30.1 | 0.0 | 100.0 | 86.8 | 0.4 | 66.4 | 31.1 | 2.1 | 0.0 | 100.0 | 96 | 3.4 | 96 |
| Ahafo | 1.9 | 1.2 | 2.1 | 6.2 | 46.2 | 42.4 | 0.0 | 100.0 | 88.6 | 1.9 | 65.8 | 29.5 | 2.8 | 0.0 | 100.0 | 77 | 3.5 | 76 |
| Bono | 0.5 | 0.6 | 3.8 | 3.9 | 54.4 | 36.8 | 0.0 | 100.0 | 91.2 | 0.5 | 67.1 | 29.7 | 2.8 | 0.0 | 100.0 | 113 | 3.4 | 112 |
| Bono East | 0.8 | 3.6 | 4.3 | 5.7 | 51.8 | 33.7 | 0.0 | 100.0 | 85.6 | 0.8 | 64.1 | 33.4 | 1.7 | 0.0 | 100.0 | 191 | 3.5 | 189 |
| Oti | 1.4 | 4.2 | 5.2 | 13.3 | 50.7 | 24.9 | 0.3 | 100.0 | 75.7 | 1.4 | 62.6 | 32.1 | 3.9 | 0.0 | 100.0 | 123 | 3.4 | 121 |
| Northern | 3.4 | 4.1 | 3.8 | 7.9 | 53.1 | 27.7 | 0.0 | 100.0 | 80.8 | 3.4 | 49.3 | 42.7 | 4.4 | 0.2 | 100.0 | 395 | 3.9 | 382 |
| Savannah | 4.9 | 2.9 | 3.3 | 8.7 | 60.1 | 19.4 | 0.8 | 100.0 | 79.5 | 4.9 | 54.7 | 35.8 | 4.0 | 0.6 | 100.0 | 105 | 3.6 | 100 |
| North East | 4.3 | 1.5 | 4.9 | 5.0 | 54.9 | 28.7 | 0.6 | 100.0 | 83.5 | 4.3 | 60.2 | 33.3 | 2.2 | 0.0 | 100.0 | 112 | 3.4 | 108 |
| Upper East | 1.0 | 0.3 | 1.7 | 1.9 | 52.8 | 42.0 | 0.3 | 100.0 | 94.8 | 1.0 | 69.9 | 25.7 | 3.1 | 0.3 | 100.0 | 191 | 3.1 | 189 |
| Upper West | 0.6 | 0.0 | 2.3 | 2.1 | 62.0 | 32.9 | 0.2 | 100.0 | 94.8 | 0.6 | 70.3 | 26.9 | 2.0 | 0.2 | 100.0 | 105 | 3.2 | 104 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 3.4 | 4.0 | 4.2 | 7.5 | 53.8 | 27.0 | 0.2 | 100.0 | 80.8 | 3.4 | 55.4 | 36.8 | 4.2 | 0.2 | 100.0 | 728 | 3.7 | 704 |
| Primary | 2.3 | 2.7 | 4.2 | 5.9 | 53.3 | 31.5 | 0.2 | 100.0 | 84.8 | 2.3 | 56.1 | 36.5 | 5.1 | 0.0 | 100.0 | 542 | 3.7 | 529 |
| Secondary | 1.2 | 0.7 | 3.1 | 5.2 | 47.9 | 41.9 | 0.0 | 100.0 | 89.8 | 1.2 | 63.0 | 31.9 | 3.9 | 0.1 | 100.0 | 1,898 | 3.5 | 1,875 |
| More than secondary | 0.7 | 0.8 | 1.5 | 0.1 | 39.3 | 57.5 | 0.0 | 100.0 | 96.9 | 0.7 | 86.3 | 11.5 | 1.5 | 0.0 | 100.0 | 323 | 2.9 | 321 |


| Table 9.2-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Number of ANC visits |  |  |  |  |  |  | Total | $\begin{gathered} 4+\text { ANC } \\ \text { visits } \end{gathered}$ | Number of months pregnant at time of first ANC visit |  |  |  |  | Total | Number of women | Median months pregnant at first visit (for those with ANC) | Number of women with ANC |
|  | None | 1 | 2 | 3 | 4-7 | 8+ | Don't know |  |  | $\begin{aligned} & \text { No } \\ & \text { antenalal } \\ & \text { care } \end{aligned}$ | <4 | 4-6 | 7+ | Don't know |  |  |  |  |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 3.7 | 4.4 | 5.3 | 8.7 | 54.3 | 23.5 | 0.1 | 100.0 | 77.8 | 3.7 | 55.1 | 35.2 | 5.7 | 0.2 | 100.0 | 853 | 3.7 | 821 |
| Second | 1.7 | 1.8 | 3.6 | 5.1 | 54.0 | 33.7 | 0.2 | 100.0 | 87.6 | 1.7 | 58.3 | 36.5 | 3.3 | 0.2 | 100.0 | 723 | 3.6 | 711 |
| Middle | 1.1 | 0.6 | 4.3 | 7.6 | 50.7 | 35.7 | 0.1 | 100.0 | 86.4 | 1.1 | 59.5 | 34.3 | 5.1 | 0.0 | 100.0 | 705 | 3.6 | 698 |
| Fourth | 1.6 | 0.5 | 0.6 | 2.9 | 47.7 | 46.9 | 0.0 | 100.0 | 94.5 | 1.6 | 66.8 | 28.6 | 3.0 | 0.0 | 100.0 | 631 | 3.3 | 621 |
| Highest | 0.0 | 0.5 | 2.2 | 0.4 | 35.5 | 61.6 | 0.0 | 100.0 | 97.0 | 0.0 | 77.5 | 20.9 | 1.5 | 0.0 | 100.0 | 579 | 3.2 | 579 |
| Total | 1.8 | 1.7 | 3.4 | 5.3 | 49.2 | 38.6 | 0.1 | 100.0 | 87.8 | 1.8 | 62.5 | 31.7 | 3.9 | 0.1 | 100.0 | 3,491 | 3.5 | 3,429 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 8.9 | 0.0 | 8.2 | 5.8 | 57.7 | 19.5 | 0.0 | 100.0 | 77.1 | 8.9 | 52.5 | 37.4 | 1.2 | 0.0 | 100.0 | 57 | 3.5 | 52 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1.9 | 1.7 | 3.4 | 5.3 | 49.2 | 38.4 | 0.1 | 100.0 | 87.6 | 1.9 | 62.4 | 31.8 | 3.9 | 0.1 | 100.0 | 3,534 | 3.5 | 3,466 |
| Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. ${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births. <br> ${ }^{2}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Among women age 15-49 receiving antenatal care (ANC) for the most recent live birth and/or stillbirth in the 2 years preceding the survey, percentage receiving specific antenatal services from a health care provider, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among women who received antenatal care for their most recent live birth or stillbirth in the last 2 years, percentage who received specific services during ANC from a health care provider: |  |  |  |  |  |  | Number of women with ANC for their most recent live birth and/or stillbirth in the last 2 years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Blood pressure measured | Urine sample taken | Blood sample taken | Baby's heartbeat checked | Counselled about maternal diet | Counselled about breastfeeding | Asked about vaginal bleeding |  |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |
| <20 | 97.8 | 97.4 | 96.6 | 99.1 | 92.4 | 85.1 | 70.9 | 344 |
| 20-34 | 97.9 | 99.2 | 99.1 | 99.3 | 93.9 | 89.3 | 80.9 | 2,406 |
| 35-49 | 98.1 | 98.4 | 98.3 | 98.9 | 95.2 | 90.4 | 86.8 | 679 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |  |  |
| 1 | 97.9 | 98.6 | 98.7 | 99.3 | 93.5 | 85.6 | 73.8 | 1,006 |
| 2-3 | 97.2 | 99.2 | 99.2 | 99.5 | 94.1 | 91.0 | 82.8 | 1,268 |
| 4-5 | 98.7 | 99.0 | 98.7 | 98.9 | 95.3 | 90.7 | 86.9 | 740 |
| $6+$ | 98.7 | 97.7 | 97.4 | 98.6 | 92.7 | 89.0 | 83.1 | 415 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 98.4 | 99.2 | 99.4 | 99.4 | 95.2 | 92.3 | 82.6 | 1,602 |
| Rural | 97.5 | 98.5 | 98.1 | 99.0 | 93.0 | 86.3 | 79.8 | 1,827 |
| Region |  |  |  |  |  |  |  |  |
| Western | 98.5 | 99.5 | 99.5 | 98.6 | 95.2 | 94.3 | 89.6 | 200 |
| Central | 96.9 | 99.5 | 99.5 | 100.0 | 92.6 | 84.1 | 79.3 | 353 |
| Greater Accra | 97.9 | 99.1 | 99.3 | 99.8 | 98.8 | 94.9 | 87.8 | 392 |
| Volta | 100.0 | 100.0 | 99.4 | 99.5 | 95.6 | 97.3 | 81.2 | 129 |
| Eastern | 97.6 | 100.0 | 100.0 | 98.8 | 98.3 | 96.1 | 86.8 | 246 |
| Ashanti | 96.9 | 99.3 | 99.3 | 99.4 | 91.5 | 80.9 | 65.8 | 631 |
| Western North | 98.6 | 99.6 | 96.1 | 98.4 | 94.9 | 91.2 | 85.0 | 96 |
| Ahafo | 100.0 | 99.5 | 100.0 | 100.0 | 93.4 | 95.4 | 89.8 | 76 |
| Bono | 99.2 | 100.0 | 100.0 | 99.5 | 96.2 | 94.6 | 90.3 | 112 |
| Bono East | 100.0 | 100.0 | 100.0 | 100.0 | 92.2 | 91.3 | 86.2 | 189 |
| Oti | 99.2 | 99.3 | 99.3 | 99.4 | 95.4 | 92.6 | 82.7 | 121 |
| Northern | 95.8 | 95.6 | 95.3 | 97.7 | 90.4 | 86.5 | 80.3 | 382 |
| Savannah | 97.7 | 98.0 | 95.7 | 98.2 | 85.6 | 83.3 | 77.7 | 100 |
| North East | 98.4 | 94.9 | 96.9 | 97.8 | 90.9 | 72.1 | 72.5 | 108 |
| Upper East | 99.8 | 98.3 | 98.5 | 99.8 | 97.7 | 97.1 | 91.3 | 189 |
| Upper West | 100.0 | 100.0 | 99.4 | 100.0 | 98.1 | 94.0 | 90.1 | 104 |
| Education |  |  |  |  |  |  |  |  |
| No education | 97.9 | 97.4 | 97.0 | 98.0 | 92.0 | 86.0 | 82.1 | 704 |
| Primary | 97.5 | 98.6 | 98.7 | 99.1 | 94.7 | 89.0 | 79.6 | 529 |
| Secondary | 97.7 | 99.3 | 99.4 | 99.5 | 94.3 | 89.3 | 80.2 | 1,875 |
| More than secondary | 99.9 | 99.9 | 98.5 | 100.0 | 95.8 | 94.7 | 86.6 | 321 |

Table 9.3.2 Components of antenatal care among all women
Among all women age 15-49 with a live birth and/or stillbirth in the 2 years preceding the survey, percentage receiving specific antenatal services from a health care provider for their most recent live birth and/or Among wom

| Background characteristic | Among women who received antenatal care for their most recent live birth or stillbirth in the last 2 years, percentage who received specific services during ANC from a health care provider: |  |  |  |  |  |  | Number of women with a live birth and/or stillbirth in the last 2 years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Blood pressure measured | Urine sample taken | Blood sample taken | Baby's heartbeat checked | Counselled about maternal diet | Counselled about breastfeeding | Asked about vaginal bleeding |  |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |
| <20 | 96.0 | 95.6 | 94.9 | 97.2 | 90.7 | 83.6 | 69.6 | 351 |
| 20-34 | 96.2 | 97.4 | 97.4 | 97.6 | 92.3 | 87.7 | 79.5 | 2,449 |
| 35-49 | 96.2 | 96.5 | 96.5 | 97.0 | 93.4 | 88.7 | 85.1 | 692 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |  |  |
| 1 | 96.9 | 97.6 | 97.7 | 98.3 | 92.6 | 84.7 | 73.1 | 1,016 |
| 2-3 | 95.8 | 97.7 | 97.7 | 98.0 | 92.7 | 89.6 | 81.6 | 1,287 |
| 4-5 | 96.2 | 96.5 | 96.1 | 96.3 | 92.8 | 88.3 | 84.7 | 760 |
| $6+$ | 95.7 | 94.8 | 94.5 | 95.6 | 89.9 | 86.3 | 80.7 | 428 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 97.1 | 97.9 | 98.1 | 98.1 | 93.9 | 91.0 | 81.5 | 1,623 |
| Rural | 95.4 | 96.3 | 96.0 | 96.8 | 91.0 | 84.4 | 78.0 | 1,868 |
| Region |  |  |  |  |  |  |  |  |
| Western | 94.8 | 95.7 | 95.7 | 94.8 | 91.6 | 90.7 | 86.2 | 208 |
| Central | 95.8 | 98.3 | 98.3 | 98.8 | 91.5 | 83.1 | 78.3 | 357 |
| Greater Accra | 93.7 | 94.8 | 95.1 | 95.5 | 94.6 | 90.8 | 84.1 | 410 |
| Volta | 99.2 | 99.2 | 98.7 | 98.7 | 94.9 | 96.5 | 80.6 | 130 |
| Eastern | 97.6 | 100.0 | 100.0 | 98.8 | 98.3 | 96.1 | 86.8 | 246 |
| Ashanti | 96.9 | 99.3 | 99.3 | 99.4 | 91.5 | 80.9 | 65.8 | 631 |
| Western North | 98.2 | 99.3 | 95.7 | 98.0 | 94.5 | 90.8 | 84.7 | 96 |
| Ahafo | 98.1 | 97.7 | 98.1 | 98.1 | 91.7 | 93.6 | 88.2 | 77 |
| Bono | 98.7 | 99.5 | 99.5 | 99.0 | 95.7 | 94.2 | 89.8 | 113 |
| Bono East | 99.2 | 99.2 | 99.2 | 99.2 | 91.5 | 90.5 | 85.4 | 191 |
| Oti | 97.9 | 98.0 | 98.0 | 98.1 | 94.1 | 91.4 | 81.6 | 123 |
| Northern | 92.6 | 92.4 | 92.1 | 94.4 | 87.3 | 83.6 | 77.6 | 395 |
| Savannah | 93.0 | 93.2 | 91.0 | 93.4 | 81.5 | 79.2 | 73.9 | 105 |
| North East | 94.2 | 90.8 | 92.7 | 93.6 | 87.0 | 68.9 | 69.4 | 112 |
| Upper East | 98.8 | 97.3 | 97.5 | 98.8 | 96.7 | 96.2 | 90.4 | 191 |
| Upper West | 99.4 | 99.4 | 98.8 | 99.4 | 97.5 | 93.4 | 89.5 | 105 |
| Education |  |  |  |  |  |  |  |  |
| No education | 94.6 | 94.1 | 93.7 | 94.7 | 88.9 | 83.1 | 79.4 | 728 |
| Primary | 95.3 | 96.4 | 96.4 | 96.8 | 92.5 | 87.0 | 77.8 | 542 |
| Secondary | 96.5 | 98.1 | 98.2 | 98.3 | 93.2 | 88.2 | 79.2 | 1,898 |
| More than secondary | 99.2 | 99.2 | 97.8 | 99.3 | 95.1 | 94.0 | 86.0 | 323 |

Table 9.4 Deworming and iron-containing supplementation during pregnancy
 or stillbirth, and percent distribution of the number of days during which women age 15-
recent live birth or stillbirth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among women with a live birth and/or stillbirth in the last 2 years, percentage who during the pregnancy for the most recent live birth or stillbirth: |  | Number of days during which women with a live birth and/or stillbirth in the last 2 years took iron-containing supplements ${ }^{1}$ during the pregnancy for the most recent live birth or stillbirth: |  |  |  |  |  | Total | Number of women with a live birth and/or stillbirth in the last 2 years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Took deworming medication | Took any ironcontaining supplements ${ }^{1}$ | None | <60 | 60-89 | 90-179 | 180+ | Don't know |  |  |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 56.9 | 91.4 | 8.6 | 20.8 | 8.1 | 38.4 | 22.5 | 1.7 | 100.0 | 351 |
| 20-34 | 59.5 | 92.7 | 7.3 | 22.6 | 8.4 | 30.7 | 29.4 | 1.6 | 100.0 | 2,449 |
| 35-49 | 57.5 | 91.2 | 8.8 | 20.0 | 8.8 | 29.0 | 31.4 | 2.0 | 100.0 | 692 |
| Birth order ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| 1 | 59.3 | 93.8 | 6.2 | 21.3 | 6.8 | 32.6 | 31.7 | 1.5 | 100.0 | 1,016 |
| 2-3 | 58.6 | 92.9 | 7.1 | 23.1 | 7.5 | 29.3 | 31.5 | 1.5 | 100.0 | 1,287 |
| 4-5 | 60.9 | 90.9 | 9.1 | 19.1 | 10.2 | 32.5 | 27.1 | 2.0 | 100.0 | 760 |
| $6+$ | 55.1 | 89.2 | 10.8 | 24.9 | 12.2 | 30.5 | 19.6 | 2.1 | 100.0 | 428 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 60.8 | 94.4 | 5.6 | 19.8 | 8.4 | 29.8 | 34.2 | 2.2 | 100.0 | 1,623 |
| Rural | 57.2 | 90.5 | 9.5 | 23.7 | 8.5 | 32.3 | 24.7 | 1.2 | 100.0 | 1,868 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 58.9 | 91.2 | 8.8 | 19.6 | 13.1 | 27.0 | 30.9 | 0.7 | 100.0 | 208 |
| Central | 74.1 | 95.9 | 4.1 | 10.9 | 10.5 | 37.3 | 35.6 | 1.6 | 100.0 | 357 |
| Greater Accra | 56.7 | 96.4 | 3.6 | 15.1 | 7.7 | 29.3 | 40.8 | 3.4 | 100.0 | 410 |
| Volta | 73.5 | 97.3 | 2.7 | 9.0 | 3.2 | 34.1 | 44.5 | 6.5 | 100.0 | 130 |
| Eastern | 81.4 | 95.9 | 4.1 | 25.9 | 11.3 | 31.3 | 24.8 | 2.6 | 100.0 | 246 |
| Ashanti | 55.1 | 94.2 | 5.8 | 23.3 | 10.0 | 34.2 | 26.2 | 0.5 | 100.0 | 631 |
| Western North | 69.0 | 88.7 | 11.3 | 42.8 | 8.5 | 24.6 | 12.4 | 0.4 | 100.0 | 96 |
| Ahafo | 62.3 | 95.8 | 4.2 | 29.6 | 8.0 | 28.3 | 29.5 | 0.4 | 100.0 | 77 |
| Bono | 53.9 | 98.3 | 1.7 | 23.7 | 5.0 | 33.5 | 34.7 | 1.4 | 100.0 | 113 |
| Bono East | 52.0 | 86.6 | 13.4 | 17.6 | 5.4 | 32.6 | 31.1 | 0.0 | 100.0 | 191 |
| Oti | 61.9 | 95.4 | 4.6 | 15.7 | 6.4 | 35.8 | 32.9 | 4.6 | 100.0 | 123 |
| Northern | 56.2 | 83.0 | 17.0 | 25.1 | 9.8 | 28.9 | 18.3 | 0.8 | 100.0 | 395 |
| Savannah | 43.2 | 81.2 | 18.8 | 37.4 | 9.5 | 15.2 | 16.1 | 3.0 | 100.0 | 105 |
| North East | 30.4 | 89.2 | 10.8 | 22.1 | 6.9 | 45.8 | 12.6 | 1.7 | 100.0 | 112 |
| Upper East | 41.4 | 88.1 | 11.9 | 44.9 | 1.8 | 11.9 | 28.9 | 0.6 | 100.0 | 191 |
| Upper West | 58.5 | 97.8 | 2.2 | 8.8 | 5.4 | 42.6 | 38.9 | 2.1 | 100.0 | 105 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 52.2 | 85.5 | 14.5 | 24.1 | 10.8 | 29.9 | 18.8 | 1.8 | 100.0 | 728 |
| Primary | 53.8 | 89.9 | 10.1 | 25.0 | 7.3 | 31.1 | 25.0 | 1.5 | 100.0 | 542 |
| Secondary | 61.5 | 94.8 | 5.2 | 20.7 | 8.1 | 33.7 | 30.6 | 1.8 | 100.0 | 1,898 |
| More than secondary | 67.0 | 96.4 | 3.6 | 19.2 | 6.7 | 18.8 | 50.6 | 1.1 | 100.0 | 323 |

Table 9.5 Source of iron-containing supplements
Among women age 15-49 who had a live birth and/or stillbirth in the 2 years preceding the survey and were given or bought iron-containing supplements during the pregnancy of the most recent live birth or stillbirth, percentage who obtained supplements, according to source, Ghana DHS 2022

| Source | Percentage who obtained iron-containing supplements ${ }^{1}$ from each source: |  |  |
| :---: | :---: | :---: | :---: |
|  | Live births | Stillbirths | Live births and stillbirths ${ }^{2}$ |
| Public sector | 85.3 | 91.7 | 85.5 |
| Government hospital | 39.3 | 26.8 | 39.2 |
| Government polyclinic | 6.0 | 14.9 | 6.1 |
| Government health centre | 17.0 | 37.1 | 17.3 |
| Government clinic | 10.7 | 13.0 | 10.7 |
| CHPS centre/government health post | 13.3 | 7.0 | 13.2 |
| Community health service (outreach) | 1.1 | 0.6 | 1.1 |
| Private medical sector (non-NGO) | 10.5 | 7.1 | 10.4 |
| Private hospital/clinic | 6.9 | 7.1 | 6.9 |
| Private clinic | 2.6 | 0.0 | 2.6 |
| Maternity home | 0.8 | 5.6 | 0.8 |
| Community health service (mobile clinic) | 0.2 | 0.0 | 0.2 |
| Other private medical sector | 0.1 | 0.0 | 0.1 |
| Private medical sector (NGO) NGO hospital/clinic | $\begin{aligned} & 0.1 \\ & 0.1 \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0.0 \end{aligned}$ | 0.1 0.1 |
| Other private sector | 4.6 | 1.2 | 4.5 |
| Shop | 4.3 | 1.2 | 4.2 |
| Market | 0.3 | 0.0 | 0.3 |
| Number of women | 3,230 | 47 | 3,268 |

Note: Supplements may have been obtained from more than one source. Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months.
CHPS = community-based health planning and services
NGO = nongovernmental organisation
${ }^{1}$ Iron tablets and iron syrup
${ }^{2}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

Table 9.6 Tetanus toxoid injections
Among women age 15-49 with a live birth in the 2 years preceding the survey, percentage receiving two or more tetanus toxoid injections during the pregnancy for the most recent live birth and percentage whose most recent live birth was protected against neonatal tetanus, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage receiving two or more injections during the pregnancy for the most recent live birth | Percentage whose most recent live birth was protected against neonatal tetanus ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: |
| Age at birth |  |  |  |
| <20 | 55.0 | 63.6 | 351 |
| 20-34 | 49.0 | 74.5 | 2,449 |
| 35-49 | 39.0 | 76.5 | 692 |
| Birth order ${ }^{2}$ |  |  |  |
| 1 | 62.1 | 68.5 | 1,016 |
| 2-3 | 48.1 | 78.1 | 1,287 |
| 4-5 | 37.4 | 75.8 | 760 |
| 6+ | 30.4 | 70.3 | 428 |
| Residence |  |  |  |
| Urban | 54.7 | 79.2 | 1,623 |
| Rural | 41.5 | 69.2 | 1,868 |
| Region |  |  |  |
| Western | 49.6 | 72.9 | 208 |
| Central | 51.2 | 80.0 | 357 |
| Greater Accra | 51.3 | 78.4 | 410 |
| Volta | 48.4 | 83.3 | 130 |
| Eastern | 57.1 | 81.9 | 246 |
| Ashanti | 57.0 | 80.8 | 631 |
| Western North | 58.3 | 76.5 | 96 |
| Ahafo | 55.4 | 77.8 | 77 |
| Bono | 41.1 | 69.2 | 113 |
| Bono East | 46.7 | 63.1 | 191 |
| Oti | 33.9 | 71.3 | 123 |
| Northern | 37.7 | 66.7 | 395 |
| Savannah | 30.1 | 43.1 | 105 |
| North East | 26.6 | 45.7 | 112 |
| Upper East | 31.6 | 75.1 | 191 |
| Upper West | 54.7 | 70.8 | 105 |
| Education |  |  |  |
| No education | 30.6 | 60.4 | 728 |
| Primary | 45.0 | 72.2 | 542 |
| Secondary | 52.5 | 76.6 | 1,898 |
| More than secondary | 61.8 | 90.5 | 323 |
| Wealth quintile |  |  |  |
| Lowest | 32.2 | 60.2 | 853 |
| Second | 47.5 | 71.0 | 723 |
| Middle | 47.8 | 75.0 | 705 |
| Fourth | 56.5 | 81.0 | 631 |
| Highest | 60.8 | 88.0 | 579 |
| Total | 47.7 | 73.8 | 3,491 |

${ }^{1}$ Includes women with two injections during the pregnancy for the most recent live birth, or two or more injections (the last within 3 years of the most recent live birth), or three or more injections (the last within 5 years of the most recent live birth), or four or more injections (the last within 10 years of the most recent live birth), or five or more injections at any time prior to the most recent birth
${ }^{2}$ Birth order refers to the order of the birth among the respondent's live births.

## Table 9.7 Place of delivery

Percent distribution of live births and/or stillbirths in the 2 years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Ghana DHS 2022

| Background characteristic |  | Health facility |  |  |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public sector | Private medical sector | NGO medical sector | Home | Other | Total | delivered in a health facility | Number of births |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |
| <20 | 83.0 | 5.0 | 0.3 | 11.1 | 0.7 | 100.0 | 88.2 | 358 |
| 20-34 | 76.1 | 10.4 | 0.3 | 12.4 | 0.8 | 100.0 | 86.8 | 2,561 |
| 35-49 | 71.0 | 12.2 | 0.2 | 15.6 | 1.0 | 100.0 | 83.4 | 718 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |  |  |
| 1 | 80.8 | 11.1 | 0.4 | 7.2 | 0.5 | 100.0 | 92.3 | 1,054 |
| 2-3 | 77.9 | 9.9 | 0.3 | 10.6 | 1.3 | 100.0 | 88.1 | 1,338 |
| 4-5 | 71.5 | 11.8 | 0.1 | 16.3 | 0.3 | 100.0 | 83.4 | 798 |
| $6+$ | 65.2 | 6.3 | 0.1 | 27.1 | 1.3 | 100.0 | 71.6 | 447 |
| Antenatal care visits ${ }^{2}$ |  |  |  |  |  |  |  |  |
| None | 37.0 | 2.5 | 0.0 | 59.1 | 1.5 | 100.0 | 39.5 | 62 |
| 1-3 | 56.9 | 4.0 | 0.1 | 37.4 | 1.7 | 100.0 | 60.9 | 362 |
| $4+$ | 78.7 | 11.0 | 0.3 | 9.3 | 0.8 | 100.0 | 90.0 | 3,065 |
| Don't know/missing | * | * | * | * | * | 100.0 | * | 3 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 78.2 | 15.8 | 0.3 | 5.1 | 0.5 | 100.0 | 94.3 | 1,700 |
| Rural | 73.6 | 5.3 | 0.2 | 19.7 | 1.2 | 100.0 | 79.1 | 1,938 |
| Region |  |  |  |  |  |  |  |  |
| Western | 76.5 | 8.5 | 0.0 | 14.6 | 0.4 | 100.0 | 85.0 | 212 |
| Central | 73.4 | 8.9 | 0.6 | 16.0 | 1.1 | 100.0 | 82.9 | 380 |
| Greater Accra | 72.5 | 19.8 | 0.0 | 7.7 | 0.0 | 100.0 | 92.3 | 427 |
| Volta | 84.9 | 3.8 | 2.2 | 7.8 | 1.3 | 100.0 | 90.9 | 135 |
| Eastern | 83.0 | 6.5 | 0.0 | 10.5 | 0.0 | 100.0 | 89.5 | 252 |
| Ashanti | 76.5 | 15.9 | 0.0 | 5.8 | 1.7 | 100.0 | 92.4 | 666 |
| Western North | 74.7 | 13.6 | 0.6 | 10.2 | 0.9 | 100.0 | 88.9 | 101 |
| Ahafo | 80.8 | 11.5 | 0.0 | 6.1 | 1.7 | 100.0 | 92.2 | 81 |
| Bono | 75.9 | 14.8 | 0.0 | 8.2 | 1.1 | 100.0 | 90.7 | 117 |
| Bono East | 80.6 | 5.6 | 0.0 | 13.5 | 0.3 | 100.0 | 86.2 | 202 |
| Oti | 59.2 | 7.6 | 0.3 | 30.8 | 2.1 | 100.0 | 67.1 | 128 |
| Northern | 67.4 | 2.9 | 0.0 | 29.0 | 0.7 | 100.0 | 70.3 | 406 |
| Savannah | 69.2 | 1.1 | 0.3 | 28.6 | 0.8 | 100.0 | 70.6 | 111 |
| North East | 81.3 | 0.9 | 2.3 | 14.7 | 0.9 | 100.0 | 84.4 | 116 |
| Upper East | 81.3 | 16.1 | 0.0 | 2.2 | 0.4 | 100.0 | 97.4 | 196 |
| Upper West | 93.2 | 0.8 | 0.0 | 5.6 | 0.4 | 100.0 | 94.0 | 109 |
| Mother's education |  |  |  |  |  |  |  |  |
| No education | 70.3 | 2.4 | 0.1 | 26.5 | 0.7 | 100.0 | 72.8 | 761 |
| Primary | 73.7 | 8.5 | 0.5 | 16.1 | 1.2 | 100.0 | 82.7 | 562 |
| Secondary | 79.0 | 11.2 | 0.2 | 8.7 | 0.9 | 100.0 | 90.4 | 1,979 |
| More than secondary | 72.9 | 24.8 | 0.7 | 1.5 | 0.1 | 100.0 | 98.3 | 336 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 66.7 | 4.5 | 0.2 | 27.9 | 0.7 | 100.0 | 71.4 | 896 |
| Second | 79.7 | 6.4 | 0.2 | 12.6 | 1.0 | 100.0 | 86.3 | 749 |
| Middle | 79.4 | 7.5 | 0.1 | 11.3 | 1.7 | 100.0 | 87.0 | 730 |
| Fourth | 85.3 | 10.0 | 0.2 | 3.9 | 0.7 | 100.0 | 95.5 | 668 |
| Highest | 69.3 | 27.2 | 0.7 | 2.8 | 0.0 | 100.0 | 97.2 | 595 |
| Total | 75.8 | 10.2 | 0.3 | 12.9 | 0.9 | 100.0 | 86.2 | 3,638 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |
| Total | 79.2 | 13.9 | 0.0 | 6.9 | 0.0 | 100.0 | 93.1 | 57 |
| LIVE BIRTHS AND STILLBIRTHS |  |  |  |  |  |  |  |  |
| Total | 75.8 | 10.3 | 0.3 | 12.8 | 0.8 | 100.0 | 86.4 | 3,695 |

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
NGO = nongovernmental organisation
${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.
${ }^{2}$ Includes only the most recent birth in the 2 years preceding the survey

Table 9.8 Caesarean section
Percentage of live births and/or stillbirths in the 2 years preceding the survey delivered via caesarean section (C-section), according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage delivered via Csection | Number of births |
| :---: | :---: | :---: |
| LIVE BIRTHS |  |  |
| Mother's age at birth |  |  |
| <20 | 14.6 | 358 |
| 20-34 | 20.7 | 2,561 |
| 35-49 | 24.2 | 718 |
| Birth order ${ }^{1}$ |  |  |
| 1 | 24.3 | 1,054 |
| 2-3 | 21.1 | 1,338 |
| 4-5 | 19.3 | 798 |
| $6+$ | 14.1 | 447 |
| Antenatal care visits ${ }^{2}$ |  |  |
| None | 3.5 | 62 |
| 1-3 | 9.4 | 362 |
| 4+ | 21.5 | 3,065 |
| Don't know/missing | * | 3 |
| Place of delivery |  |  |
| Health facility | 24.1 | 3,137 |
| Public sector | 22.2 | 2,757 |
| Private medical sector (non-NGO) | 37.8 | 371 |
| Private medical sector (NGO) | * | 9 |
| Residence |  |  |
| Urban | 27.0 | 1,700 |
| Rural | 15.3 | 1,938 |
| Region |  |  |
| Western | 19.6 | 212 |
| Central | 18.9 | 380 |
| Greater Accra | 34.2 | 427 |
| Volta | 28.4 | 135 |
| Eastern | 25.5 | 252 |
| Ashanti | 23.1 | 666 |
| Western North | 18.1 | 101 |
| Ahafo | 19.4 | 81 |
| Bono | 21.2 | 117 |
| Bono East | 22.8 | 202 |
| Oti | 12.1 | 128 |
| Northern | 10.3 | 406 |
| Savannah | 7.0 | 111 |
| North East | 8.8 | 116 |
| Upper East | 20.7 | 196 |
| Upper West | 17.8 | 109 |
| Mother's education |  |  |
| No education | 10.0 | 761 |
| Primary | 19.3 | 562 |
| Secondary | 21.7 | 1,979 |
| More than secondary | 41.9 | 336 |
| Wealth quintile |  |  |
| Lowest | 11.8 | 896 |
| Second | 16.1 | 749 |
| Middle | 16.7 | 730 |
| Fourth | 27.1 | 668 |
| Highest | 38.0 | 595 |
| Total | 20.8 | 3,638 |
| STILLBIRTHS |  |  |
| Total | 20.2 | 57 |
| LIVE BIRTHS AND STILLBIRTHS |  |  |
| Total | 20.8 | 3,695 |

Note: The question on C-section is asked only of women who delivered in a health facility. In this table, it is assumed that women who did not give birth in a health facility did not receive a C-section. Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.
${ }^{2}$ Includes only the most recent birth in the 2 years preceding the survey
Table 9.9 Assistance during delivery
 preceding the survey, percentage with skin-to-skin contact immediately after birth, according to background characteristics, Ghana DHS 2022

| Percent distribution of live births and/or stillbirths in the 2 years preceding the survey by person providing assistance during delivery and percentage assisted by a skilled provider, and among preceding the survey, percentage with skin-to-skin contact immediately after birth, according to background characteristics, Ghana DHS 2022 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Person providing assistance during delivery |  |  |  |  |  |  | Percentage delivered by a skilled provider ${ }^{1}$ | Number of live births and/or stillbirths | Among most recent live births |  |
| Background characteristic | Doctor | Nurse/midwife | Traditional birth attendant | Community health worker/ volunteer | Relative/other | No one | Total |  |  | Percentage with skin-to-skin contact immediately after birth | Number of live births |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |  |
| <20 | 11.3 | 77.1 | 7.6 | 0.7 | 2.0 | 1.4 | 100.0 | 88.3 | 358 | 60.6 | 351 |
| 20-34 | 18.7 | 69.7 | 6.6 | 0.4 | 2.1 | 2.4 | 100.0 | 88.4 | 2,561 | 61.1 | 2,449 |
| 35-49 | 23.0 | 61.2 | 8.8 | 0.6 | 3.7 | 2.7 | 100.0 | 84.2 | 718 | 54.6 | 692 |
| Birth order ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 21.1 | 71.9 | 4.2 | 0.4 | 1.5 | 1.0 | 100.0 | 93.0 | 1,054 | 57.6 | 1,016 |
| 2-3 | 19.0 | 70.5 | 5.7 | 0.5 | 1.9 | 2.4 | 100.0 | 89.5 | 1,338 | 61.9 | 1,287 |
| 4-5 | 18.9 | 66.2 | 8.6 | 0.4 | 2.9 | 2.9 | 100.0 | 85.1 | 798 | 62.8 | 760 |
| $6+$ | 12.8 | 60.5 | 15.9 | 0.8 | 5.2 | 4.8 | 100.0 | 73.3 | 447 | 53.1 | 428 |
| Antenatal care visits ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
| None | 11.9 | 27.5 | 38.4 | 0.0 | 12.2 | 10.0 | 100.0 | 39.4 | 62 | 39.4 | 62 |
| 1-3 | 8.2 | 54.4 | 21.1 | 0.9 | 7.5 | 7.9 | 100.0 | 62.6 | 362 | 44.3 | 362 |
| $4+$ | 19.2 | 72.2 | 4.9 | 0.5 | 1.7 | 1.6 | 100.0 | 91.3 | 3,065 | 62.0 | 3,065 |
| Don't know/missing | * | * | * | * | * | * | 100.0 | * | 3 | * | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Health facility | 21.8 | 77.8 | 0.1 | 0.2 | 0.1 | 0.1 | 100.0 | 99.6 | 3,137 | 65.9 | 3,004 |
| Public sector | 19.8 | 79.7 | 0.1 | 0.2 | 0.1 | 0.1 | 100.0 | 99.5 | 2,757 | 67.2 | 2,642 |
| Private medical sector (non-NGO) | 35.8 | 64.2 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | 371 | 56.5 | 353 |
| Private medical sector (NGO) | * | * | * | * | * | * | 100.0 | * | 9 | * | 9 |
| Elsewhere | 0.5 | 11.6 | 51.7 | 2.1 | 17.2 | 16.9 | 100.0 | 12.1 | 500 | 22.1 | 487 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 25.2 | 70.1 | 2.0 | 0.3 | 1.1 | 1.3 | 100.0 | 95.3 | 1,700 | 60.6 | 1,623 |
| Rural | 13.2 | 67.5 | 11.7 | 0.6 | 3.6 | 3.3 | 100.0 | 80.8 | 1,938 | 59.0 | 1,868 |


| Table 9.9-Continued |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Person providing assistance during delivery |  |  |  |  |  | Total | Percentage delivered by a skilled provider ${ }^{1}$ | Number of live births and/or stillbirths | Among most recent live births |  |
| Background characteristic | Doctor | Nurse/midwife | Traditional birth attendant | Community health worker/ volunteer | Relative/other | No one |  |  |  | Percentage with skin-to-skin contact immediately after birth | Number of live births |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| Western | 12.8 | 74.0 | 7.4 | 0.5 | 2.2 | 3.1 | 100.0 | 86.8 | 212 | 63.3 | 208 |
| Central | 15.9 | 69.0 | 11.0 | 0.4 | 0.9 | 2.7 | 100.0 | 85.0 | 380 | 55.2 | 357 |
| Greater Accra | 36.2 | 57.8 | 3.4 | 1.0 | 1.6 | 0.0 | 100.0 | 94.0 | 427 | 60.5 | 410 |
| Volta | 25.5 | 68.0 | 4.1 | 0.0 | 0.0 | 2.3 | 100.0 | 93.5 | 135 | 60.6 | 130 |
| Eastern | 26.8 | 63.6 | 6.3 | 0.9 | 0.5 | 1.9 | 100.0 | 90.3 | 252 | 67.0 | 246 |
| Ashanti | 21.8 | 71.8 | 3.0 | 0.0 | 1.6 | 1.8 | 100.0 | 93.6 | 666 | 54.9 | 631 |
| Western North | 14.0 | 75.3 | 4.1 | 0.0 | 1.3 | 5.4 | 100.0 | 89.3 | 101 | 73.3 | 96 |
| Ahafo | 19.9 | 73.5 | 1.2 | 0.4 | 3.0 | 1.9 | 100.0 | 93.4 | 81 | 57.2 | 77 |
| Bono | 18.7 | 72.6 | 4.5 | 0.0 | 1.1 | 3.2 | 100.0 | 91.3 | 117 | 67.0 | 113 |
| Bono East | 15.1 | 72.4 | 3.6 | 0.0 | 5.8 | 3.0 | 100.0 | 87.6 | 202 | 63.2 | 191 |
| Oti | 10.1 | 60.1 | 8.7 | 1.2 | 10.9 | 9.0 | 100.0 | 70.3 | 128 | 53.4 | 123 |
| Northern | 9.5 | 62.1 | 19.3 | 0.7 | 5.5 | 2.9 | 100.0 | 71.6 | 406 | 45.7 | 395 |
| Savannah | 12.2 | 59.8 | 18.1 | 0.1 | 3.7 | 6.0 | 100.0 | 72.0 | 111 | 68.8 | 105 |
| North East | 7.8 | 77.3 | 11.8 | 0.0 | 2.1 | 1.0 | 100.0 | 85.2 | 116 | 78.7 | 112 |
| Upper East | 11.2 | 86.8 | 0.9 | 0.0 | 0.9 | 0.2 | 100.0 | 98.0 | 196 | 63.7 | 191 |
| Upper West | 16.1 | 75.6 | 3.7 | 3.1 | 0.2 | 1.3 | 100.0 | 91.7 | 109 | 76.7 | 105 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 8.7 | 65.5 | 15.0 | 0.4 | 5.4 | 5.1 | 100.0 | 74.2 | 761 | 54.9 | 728 |
| Primary | 16.0 | 67.9 | 9.0 | 1.1 | 3.4 | 2.6 | 100.0 | 83.9 | 562 | 57.4 | 542 |
| Secondary | 20.1 | 71.7 | 4.9 | 0.4 | 1.4 | 1.6 | 100.0 | 91.7 | 1,979 | 62.9 | 1,898 |
| More than secondary | 39.3 | 60.0 | 0.0 | 0.0 | 0.3 | 0.4 | 100.0 | 99.3 | 336 | 56.4 | 323 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 9.8 | 63.0 | 17.3 | 0.4 | 5.5 | 3.9 | 100.0 | 72.9 | 896 | 53.1 | 853 |
| Second | 14.1 | 74.1 | 6.5 | 0.8 | 1.6 | 2.9 | 100.0 | 88.2 | 749 | 61.6 | 723 |
| Middle | 15.0 | 72.7 | 5.5 | 0.8 | 2.8 | 3.1 | 100.0 | 87.7 | 730 | 64.4 | 705 |
| Fourth | 23.9 | 72.9 | 1.8 | 0.2 | 0.3 | 1.1 | 100.0 | 96.8 | 668 | 59.9 | 631 |
| Highest | 37.4 | 61.1 | 0.8 | 0.0 | 0.8 | 0.0 | 100.0 | 98.4 | 595 | 61.5 | 579 |
| Total | 18.8 | 68.7 | 7.2 | 0.5 | 2.4 | 2.4 | 100.0 | 87.6 | 3,638 | 59.8 | 3,491 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |  |  |  |
| Total | 39.9 | 53.2 | 5.9 | 0.0 | 0.0 | 1.0 | 100.0 | 93.1 | 57 | na | na |
| LIVE BIRTHS AND STILLBIRTHS |  |  |  |  |  |  |  |  |  |  |  |
| Total | 19.2 | 68.5 | 7.1 | 0.5 | 2.4 | 2.4 | 100.0 | 87.6 | 3,695 | na | na |
|  |  |  |  |  |  |  |  |  |  |  |  |

Table 9.10 Duration of stay in health facility after birth
Among women with a live birth and/or stillbirth in the 2 years preceding the survey who delivered their most recent birth in a health facility, percent distribution by duration of stay in the health facility following their most recent birth, according to type of delivery, Ghana DHS 2022

| Type of delivery | <6 hours | 6-11 hours | 12-23 hours | 1-2 days | $3+$ days | Don't know/ missing | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |
| Vaginal birth | 18.8 | 19.2 | 12.3 | 39.1 | 10.5 | 0.2 | 100.0 | 2,308 |
| Caesarean section | 3.3 | 1.6 | 1.0 | 11.6 | 82.5 | 0.0 | 100.0 | 696 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |
| Vaginal birth | (18.1) | (4.4) | (5.6) | (36.8) | (35.1) | (0.0) | 100.0 | 42 |
| Caesarean section |  | * |  |  | * |  | 100.0 | 12 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Vaginal birth | 18.9 | 19.0 | 12.2 | 39.0 | 10.8 | 0.2 | 100.0 | 2,338 |
| Caesarean section | 3.3 | 1.5 | 1.0 | 11.5 | 82.7 | 0.0 | 100.0 | 705 |

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

| Table 9.11-Continued |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Time after delivery of mother's first postnatal check ${ }^{1}$ |  |  |  |  |  | No postnatal check ${ }^{2}$ | Total | Percentage of women with a postnatal check during the first 2 days after birth ${ }^{1}$ | Number of women |
|  | Less than 4 hours | 4-23 hours | 1-2 days | 3-6 days | 7-41 days | Don't know/ missing |  |  |  |  |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 64.0 | 8.2 | 5.8 | 1.5 | 2.6 | 1.2 | 16.7 | 100.0 | 78.0 | 853 |
| Second | 72.1 | 9.4 | 5.2 | 1.3 | 1.5 | 1.5 | 8.9 | 100.0 | 86.7 | 723 |
| Middle | 74.5 | 9.6 | 4.9 | 1.6 | 0.9 | 1.3 | 7.3 | 100.0 | 88.9 | 705 |
| Fourth | 78.1 | 10.1 | 2.6 | 0.9 | 1.9 | 2.5 | 3.9 | 100.0 | 90.8 | 631 |
| Highest | 79.6 | 12.0 | 4.1 | 0.9 | 0.5 | 0.7 | 2.2 | 100.0 | 95.7 | 579 |
| Total | 72.9 | 9.7 | 4.6 | 1.3 | 1.5 | 1.4 | 8.5 | 100.0 | 87.3 | 3,491 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |  |  |
| Total | 68.7 | 6.1 | 3.8 | 0.0 | 2.2 | 2.1 | 17.1 | 100.0 | 78.6 | 57 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |
| Total | 72.8 | 9.7 | 4.6 | 1.3 | 1.6 | 1.5 | 8.7 | 100.0 | 87.1 | 3,534 |
| Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. ${ }^{1}$ Includes women who received a check from a doctor, nurse/midwife, auxiliary midwife, community health worker/fieldworker, or traditional birth attendant <br> ${ }^{2}$ Includes women who received a check after 41 days <br> ${ }^{3}$ Birth order refers to the order of the birth among the respondent's live births. <br> ${ }^{4}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only. |  |  |  |  |  |  |  |  |  |  |

Table 9.12 Type of provider of first postnatal check for the mother
Among women age 15-49 with a live birth and/or stillbirth in the 2 years preceding the survey, percent distribution by type of provider of the mother's first postnatal health check during the 2 days after the last birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Type of health provider of mother's first postnatal check |  |  | No postnatal check during the first 2 days after birth | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor/nurse/ midwife | Traditional birth attendant | Community health worker/volunteer |  |  |  |
| LIVE BIRTHS |  |  |  |  |  |  |
| Age at birth |  |  |  |  |  |  |
| <20 | 82.5 | 2.6 | 0.2 | 14.6 | 100.0 | 351 |
| 20-34 | 84.1 | 3.5 | 0.3 | 12.0 | 100.0 | 2,449 |
| 35-49 | 81.3 | 4.2 | 0.3 | 14.2 | 100.0 | 692 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |
| 1 | 86.9 | 1.7 | 0.1 | 11.4 | 100.0 | 1,016 |
| 2-3 | 86.4 | 3.2 | 0.5 | 9.9 | 100.0 | 1,287 |
| 4-5 | 80.8 | 4.0 | 0.2 | 15.0 | 100.0 | 760 |
| 6+ | 70.8 | 8.5 | 0.5 | 20.2 | 100.0 | 428 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 93.6 | 0.0 | 0.1 | 6.2 | 100.0 | 3,004 |
| Elsewhere | 20.5 | 25.4 | 1.2 | 52.8 | 100.0 | 487 |
| Residence |  |  |  |  |  |  |
| Urban | 90.8 | 1.3 | 0.3 | 7.6 | 100.0 | 1,623 |
| Rural | 77.0 | 5.6 | 0.3 | 17.1 | 100.0 | 1,868 |
| Region |  |  |  |  |  |  |
| Western | 80.1 | 7.2 | 0.0 | 12.7 | 100.0 | 208 |
| Central | 81.4 | 3.5 | 0.9 | 14.2 | 100.0 | 357 |
| Greater Accra | 92.3 | 2.3 | 0.8 | 4.6 | 100.0 | 410 |
| Volta | 87.7 | 1.8 | 0.0 | 10.5 | 100.0 | 130 |
| Eastern | 89.6 | 5.3 | 0.0 | 5.0 | 100.0 | 246 |
| Ashanti | 87.0 | 0.8 | 0.0 | 12.1 | 100.0 | 631 |
| Western North | 84.5 | 2.9 | 0.0 | 12.6 | 100.0 | 96 |
| Ahafo | 87.8 | 0.4 | 0.0 | 11.8 | 100.0 | 77 |
| Bono | 93.0 | 1.1 | 0.0 | 5.9 | 100.0 | 113 |
| Bono East | 83.5 | 2.1 | 0.0 | 14.4 | 100.0 | 191 |
| Oti | 68.1 | 8.3 | 0.4 | 23.2 | 100.0 | 123 |
| Northern | 66.0 | 6.4 | 0.3 | 27.3 | 100.0 | 395 |
| Savannah | 66.2 | 15.1 | 0.1 | 18.5 | 100.0 | 105 |
| North East | 79.8 | 3.5 | 0.0 | 16.8 | 100.0 | 112 |
| Upper East | 96.1 | 0.7 | 0.0 | 3.3 | 100.0 | 191 |
| Upper West | 87.0 | 1.9 | 2.1 | 9.0 | 100.0 | 105 |
| Education |  |  |  |  |  |  |
| No education | 71.2 | 6.9 | 0.2 | 21.7 | 100.0 | 728 |
| Primary | 79.9 | 5.7 | 0.8 | 13.6 | 100.0 | 542 |
| Secondary | 87.2 | 2.3 | 0.1 | 10.3 | 100.0 | 1,898 |
| More than secondary | 94.4 | 0.0 | 0.5 | 5.1 | 100.0 | 323 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 69.8 | 8.0 | 0.2 | 22.0 | 100.0 | 853 |
| Second | 82.6 | 3.8 | 0.3 | 13.3 | 100.0 | 723 |
| Middle | 84.8 | 3.5 | 0.6 | 11.1 | 100.0 | 705 |
| Fourth | 90.4 | 0.4 | 0.0 | 9.2 | 100.0 | 631 |
| Highest | 95.2 | 0.2 | 0.3 | 4.3 | 100.0 | 579 |
| Total | 83.4 | 3.6 | 0.3 | 12.7 | 100.0 | 3,491 |
| STILLBIRTHS |  |  |  |  |  |  |
| Total | 77.6 | 0.9 | 0.0 | 21.4 | 100.0 | 57 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{2}$ |  |  |  |  |  |  |
| Total | 83.3 | 3.5 | 0.3 | 12.9 | 100.0 | 3,534 |

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months.
${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.
${ }^{2}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

Table 9.13 Content of postnatal care for the mother
Among women age 15-49 with a live birth and/or stillbirth in the 2 years preceding the survey, percentage for whom selected checks were performed during the first 2 days after the most recent birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage for whom during the first 2 days after the most recent birth, any health care provider: |  |  | Percentage with all three checks performed in the first 2 days after birth | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Measured blood pressure | Discussed vaginal bleeding | Discussed family planning |  |  |
| LIVE BIRTHS |  |  |  |  |  |
| Age at birth |  |  |  |  |  |
| <20 | 72.7 | 62.8 | 49.0 | 42.6 | 351 |
| 20-34 | 74.3 | 64.8 | 48.8 | 43.9 | 2,449 |
| 35-49 | 74.0 | 66.5 | 52.5 | 47.6 | 692 |
| Birth order ${ }^{1}$ |  |  |  |  |  |
| 1 | 77.2 | 64.4 | 47.4 | 41.7 | 1,016 |
| 2-3 | 75.7 | 67.0 | 51.4 | 46.6 | 1,287 |
| 4-5 | 72.2 | 65.2 | 51.7 | 47.1 | 760 |
| 6+ | 65.2 | 59.5 | 45.4 | 40.3 | 428 |
| Place of delivery |  |  |  |  |  |
| Health facility | 80.6 | 70.1 | 54.7 | 49.2 | 3,004 |
| Public sector | 80.2 | 69.8 | 55.1 | 49.5 | 2,642 |
| Private medical sector (non-NGO) | 83.3 | 71.4 | 52.0 | 46.0 | 353 |
| Private medical sector (NGO) | * | * | * | * | 9 |
| Elsewhere | 33.7 | 33.2 | 17.7 | 15.9 | 487 |
| Residence |  |  |  |  |  |
| Urban | 80.1 | 69.7 | 54.3 | 49.1 | 1,623 |
| Rural | 68.9 | 60.8 | 45.5 | 40.5 | 1,868 |
| Region |  |  |  |  |  |
| Western | 80.3 | 80.9 | 61.2 | 59.9 | 208 |
| Central | 72.9 | 59.4 | 37.3 | 29.4 | 357 |
| Greater Accra | 81.8 | 74.1 | 56.2 | 52.0 | 410 |
| Volta | 89.8 | 82.1 | 61.9 | 59.7 | 130 |
| Eastern | 83.9 | 75.7 | 57.6 | 51.0 | 246 |
| Ashanti | 75.5 | 55.3 | 38.1 | 30.9 | 631 |
| Western North | 63.3 | 61.1 | 48.4 | 43.7 | 96 |
| Ahafo | 83.1 | 81.8 | 62.6 | 59.7 | 77 |
| Bono | 77.7 | 77.1 | 59.8 | 57.1 | 113 |
| Bono East | 78.4 | 65.4 | 59.8 | 52.5 | 191 |
| Oti | 70.6 | 69.4 | 41.0 | 39.6 | 123 |
| Northern | 56.7 | 51.8 | 45.2 | 40.3 | 395 |
| Savannah | 64.9 | 61.2 | 44.5 | 39.9 | 105 |
| North East | 65.3 | 51.5 | 45.1 | 41.2 | 112 |
| Upper East | 75.4 | 73.7 | 65.0 | 62.7 | 191 |
| Upper West | 61.2 | 51.6 | 48.0 | 42.8 | 105 |
| Mother's education |  |  |  |  |  |
| No education | 60.6 | 55.3 | 42.5 | 38.9 | 728 |
| Primary | 71.0 | 61.4 | 46.5 | 39.7 | 542 |
| Secondary | 77.9 | 67.4 | 51.7 | 46.3 | 1,898 |
| More than secondary | 87.4 | 78.0 | 58.4 | 54.6 | 323 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 61.6 | 54.4 | 44.3 | 40.1 | 853 |
| Second | 71.2 | 62.7 | 47.4 | 41.8 | 723 |
| Middle | 76.3 | 68.5 | 51.2 | 46.0 | 705 |
| Fourth | 80.9 | 68.2 | 51.7 | 45.1 | 631 |
| Highest | 85.8 | 75.3 | 55.8 | 52.0 | 579 |
| Total | 74.1 | 64.9 | 49.6 | 44.5 | 3,491 |
| STILLBIRTHS |  |  |  |  |  |
| Total | 66.0 | 59.7 | 41.6 | 37.4 | 57 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{2}$ |  |  |  |  |  |
| Total | 73.9 | 64.8 | 49.4 | 44.3 | 3,534 |

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Birth order refers to the order of the birth among the respondent's live births.
${ }^{2}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

Table 9.14 Timing of first postnatal check for the newborn
Percent distribution of most recent live births in the 2 years preceding the survey by time after birth of first postnatal check, and percentage of births with a postnatal check during the first 2 days after birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Time after delivery of newborn's first postnatal check ${ }^{1}$ |  |  |  |  |  | No postnatal check ${ }^{2}$ | Total | Percentage of births with a postnatal check during the first 2 days after birth ${ }^{1}$ | $\begin{gathered} \text { Number of } \\ \text { births } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 1 hour | 1-3 hours | 4-23 hours | 1-2 days | 3-6 days | Don't know |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 29.5 | 43.2 | 8.4 | 5.2 | 0.8 | 1.3 | 11.6 | 100.0 | 86.2 | 351 |
| 20-34 | 29.3 | 44.4 | 8.2 | 5.1 | 0.9 | 1.8 | 10.3 | 100.0 | 87.0 | 2,449 |
| 35-49 | 32.0 | 41.7 | 8.0 | 5.2 | 2.1 | 1.0 | 9.9 | 100.0 | 86.9 | 692 |
| Birth order ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 1 | 27.7 | 46.5 | 8.5 | 4.5 | 0.6 | 2.4 | 9.9 | 100.0 | 87.1 | 1,016 |
| 2-3 | 30.8 | 44.3 | 8.0 | 5.7 | 1.0 | 1.5 | 8.7 | 100.0 | 88.8 | 1,287 |
| 4-5 | 31.4 | 41.2 | 9.1 | 4.2 | 1.5 | 0.9 | 11.6 | 100.0 | 85.9 | 760 |
| 6+ | 29.4 | 39.7 | 6.6 | 6.5 | 2.4 | 1.3 | 14.1 | 100.0 | 82.2 | 428 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 32.4 | 47.3 | 8.9 | 3.9 | 0.9 | 1.8 | 4.8 | 100.0 | 92.5 | 3,004 |
| Elsewhere | 14.4 | 21.3 | 4.1 | 12.5 | 2.8 | 0.1 | 44.8 | 100.0 | 52.3 | 487 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 31.5 | 46.0 | 8.6 | 4.3 | 1.1 | 1.8 | 6.6 | 100.0 | 90.5 | 1,623 |
| Rural | 28.4 | 41.7 | 7.8 | 5.8 | 1.2 | 1.5 | 13.6 | 100.0 | 83.7 | 1,868 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 25.0 | 50.7 | 10.5 | 2.9 | 0.0 | 5.2 | 5.7 | 100.0 | 89.1 | 208 |
| Central | 38.5 | 38.0 | 6.9 | 5.9 | 0.5 | 1.5 | 8.8 | 100.0 | 89.2 | 357 |
| Greater Accra | 21.3 | 58.2 | 6.9 | 6.9 | 1.0 | 1.4 | 4.4 | 100.0 | 93.2 | 410 |
| Volta | 27.3 | 45.4 | 9.7 | 6.1 | 1.1 | 0.6 | 9.8 | 100.0 | 88.5 | 130 |
| Eastern | 46.0 | 38.5 | 6.1 | 3.7 | 0.0 | 0.5 | 5.2 | 100.0 | 94.3 | 246 |
| Ashanti | 44.2 | 30.9 | 7.2 | 3.5 | 1.1 | 2.4 | 10.7 | 100.0 | 85.8 | 631 |
| Western North | 33.5 | 36.9 | 11.0 | 3.5 | 1.6 | 1.8 | 11.7 | 100.0 | 84.9 | 96 |
| Ahafo | 6.3 | 52.0 | 9.3 | 16.3 | 6.7 | 1.8 | 7.7 | 100.0 | 83.8 | 77 |
| Bono | 40.2 | 46.8 | 5.6 | 3.1 | 2.1 | 0.7 | 1.5 | 100.0 | 95.7 | 113 |
| Bono East | 38.0 | 32.1 | 9.5 | 7.4 | 0.3 | 0.8 | 12.0 | 100.0 | 86.9 | 191 |
| Oti | 33.2 | 30.1 | 9.7 | 2.7 | 2.4 | 1.1 | 20.8 | 100.0 | 75.6 | 123 |
| Northern | 6.0 | 47.2 | 12.2 | 7.6 | 2.7 | 0.0 | 24.3 | 100.0 | 73.0 | 395 |
| Savannah | 29.1 | 40.6 | 4.2 | 7.6 | 2.1 | 4.4 | 12.0 | 100.0 | 81.5 | 105 |
| North East | 29.2 | 41.0 | 10.6 | 3.3 | 1.2 | 1.4 | 13.3 | 100.0 | 84.1 | 112 |
| Upper East | 8.8 | 79.4 | 6.4 | 0.9 | 0.0 | 1.8 | 2.7 | 100.0 | 95.5 | 191 |
| Upper West | 36.2 | 42.0 | 8.3 | 3.1 | 0.0 | 0.7 | 9.7 | 100.0 | 89.6 | 105 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 21.0 | 44.3 | 7.7 | 6.1 | 1.7 | 1.2 | 18.0 | 100.0 | 79.0 | 728 |
| Primary | 29.3 | 43.7 | 8.1 | 5.2 | 1.7 | 1.6 | 10.4 | 100.0 | 86.3 | 542 |
| Secondary | 33.2 | 42.5 | 8.4 | 4.9 | 0.7 | 1.9 | 8.4 | 100.0 | 88.9 | 1,898 |
| More than secondary | 31.3 | 49.5 | 8.8 | 4.0 | 1.5 | 0.6 | 4.3 | 100.0 | 93.6 | 323 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 20.8 | 42.7 | 8.6 | 6.8 | 1.7 | 1.2 | 18.3 | 100.0 | 78.9 | 853 |
| Second | 28.8 | 43.8 | 8.9 | 5.2 | 1.4 | 1.5 | 10.4 | 100.0 | 86.7 | 723 |
| Middle | 35.1 | 42.3 | 8.2 | 3.7 | 1.0 | 1.0 | 8.7 | 100.0 | 89.2 | 705 |
| Fourth | 36.8 | 41.4 | 6.9 | 4.9 | 0.3 | 2.9 | 6.9 | 100.0 | 90.0 | 631 |
| Highest | 30.7 | 49.4 | 8.2 | 4.5 | 1.3 | 1.6 | 4.3 | 100.0 | 92.8 | 579 |
| Total | 29.9 | 43.7 | 8.2 | 5.1 | 1.2 | 1.6 | 10.3 | 100.0 | 86.9 | 3,491 |

[^21]Table 9.15 Type of provider of first postnatal check for the newborn
Percent distribution of most recent live births in the 2 years preceding the survey by type of provider of the newborn's first postnatal health check during the 2 days after the birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Type of health provider of newborn's first postnatal check |  |  | No postnatal check during the first 2 days after birth | Total | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor/nurse/ midwife | Traditional birth attendant | Community health worker/volunteer |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |
| <20 | 82.6 | 3.4 | 0.2 | 13.8 | 100.0 | 351 |
| 20-34 | 82.8 | 4.0 | 0.2 | 13.0 | 100.0 | 2,449 |
| 35-49 | 81.3 | 5.4 | 0.3 | 13.1 | 100.0 | 692 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |
| 1 | 85.2 | 1.9 | 0.1 | 12.9 | 100.0 | 1,016 |
| 2-3 | 84.8 | 3.7 | 0.4 | 11.2 | 100.0 | 1,287 |
| 4-5 | 81.3 | 4.6 | 0.1 | 14.1 | 100.0 | 760 |
| $6+$ | 71.4 | 10.3 | 0.5 | 17.8 | 100.0 | 428 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 92.4 | 0.0 | 0.1 | 7.5 | 100.0 | 3,004 |
| Elsewhere | 21.6 | 29.7 | 1.0 | 47.7 | 100.0 | 487 |
| Residence |  |  |  |  |  |  |
| Urban | 88.9 | 1.4 | 0.2 | 9.5 | 100.0 | 1,623 |
| Rural | 76.9 | 6.6 | 0.2 | 16.3 | 100.0 | 1,868 |
| Region |  |  |  |  |  |  |
| Western | 80.1 | 9.0 | 0.0 | 10.9 | 100.0 | 208 |
| Central | 83.5 | 5.3 | 0.4 | 10.8 | 100.0 | 357 |
| Greater Accra | 89.8 | 2.6 | 0.8 | 6.8 | 100.0 | 410 |
| Volta | 85.6 | 2.9 | 0.0 | 11.5 | 100.0 | 130 |
| Eastern | 86.5 | 7.8 | 0.0 | 5.7 | 100.0 | 246 |
| Ashanti | 84.7 | 1.1 | 0.0 | 14.2 | 100.0 | 631 |
| Western North | 83.8 | 1.2 | 0.0 | 15.1 | 100.0 | 96 |
| Ahafo | 83.0 | 0.9 | 0.0 | 16.2 | 100.0 | 77 |
| Bono | 94.1 | 1.6 | 0.0 | 4.3 | 100.0 | 113 |
| Bono East | 85.1 | 1.8 | 0.0 | 13.1 | 100.0 | 191 |
| Oti | 68.6 | 6.7 | 0.4 | 24.4 | 100.0 | 123 |
| Northern | 65.8 | 7.2 | 0.0 | 27.0 | 100.0 | 395 |
| Savannah | 65.4 | 16.0 | 0.1 | 18.5 | 100.0 | 105 |
| North East | 80.2 | 3.9 | 0.0 | 15.9 | 100.0 | 112 |
| Upper East | 94.9 | 0.6 | 0.0 | 4.5 | 100.0 | 191 |
| Upper West | 85.8 | 1.6 | 2.1 | 10.4 | 100.0 | 105 |
| Mother's education |  |  |  |  |  |  |
| No education | 71.5 | 7.4 | 0.1 | 21.0 | 100.0 | 728 |
| Primary | 78.1 | 7.4 | 0.8 | 13.7 | 100.0 | 542 |
| Secondary | 86.1 | 2.7 | 0.1 | 11.1 | 100.0 | 1,898 |
| More than secondary | 93.6 | 0.0 | 0.0 | 6.4 | 100.0 | 323 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 69.4 | 9.2 | 0.2 | 21.1 | 100.0 | 853 |
| Second | 81.9 | 4.4 | 0.3 | 13.3 | 100.0 | 723 |
| Middle | 84.5 | 4.3 | 0.5 | 10.8 | 100.0 | 705 |
| Fourth | 89.3 | 0.7 | 0.0 | 10.0 | 100.0 | 631 |
| Highest | 92.6 | 0.2 | 0.0 | 7.2 | 100.0 | 579 |
| Total | 82.5 | 4.2 | 0.2 | 13.1 | 100.0 | 3,491 |

[^22]Table 9.16 Content of postnatal care for newborns
Among most recent live births in the 2 years preceding the survey, percentage for whom selected functions were performed during the first 2 days after the birth and percentage with five signal functions performed during the first 2 days after the birth, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of most recent live births for whom a health care provider performed the selected functions during the first 2 days after the birth: |  |  |  |  |  |  | $\begin{gathered} \text { Percentage } \\ \text { with five }{ }^{2} \text { signal } \\ \text { functions } \\ \text { performed } \\ \text { during the first } \\ 2 \text { days after } \\ \text { birth } \\ \hline \end{gathered}$ | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cord examined | Temperature measured | $\begin{aligned} & \text { Mother told } \\ & \text { how to } \\ & \text { recognise if the } \\ & \text { baby needs } \\ & \text { immediate } \\ & \text { medical } \\ & \text { attention } \end{aligned}$ | Mother counselled on breastfeeding | Mother observed breastfeeding | Mother both counselled on breastfeeding and observed breastfeeding | Weighed ${ }^{1}$ |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 77.5 | 74.7 | 71.6 | 74.8 | 68.7 | 66.0 | 80.7 | 61.0 | 351 |
| 20-34 | 77.8 | 76.3 | 70.2 | 76.5 | 72.8 | 71.9 | 82.9 | 59.3 | 2,449 |
| 35-49 | 77.5 | 75.0 | 71.2 | 74.1 | 69.8 | 68.9 | 80.3 | 61.4 | 692 |
| Birth order ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| 1 | 79.0 | 78.4 | 72.0 | 78.5 | 75.1 | 73.2 | 86.8 | 63.4 | 1,016 |
| 2-3 | 79.3 | 78.1 | 72.4 | 78.8 | 75.2 | 74.5 | 85.1 | 61.8 | 1,287 |
| 4-5 | 75.3 | 73.6 | 68.9 | 72.6 | 67.5 | 66.8 | 78.0 | 56.2 | 760 |
| $6+$ | 74.2 | 67.2 | 64.3 | 66.5 | 61.1 | 60.3 | 70.1 | 52.7 | 428 |
| Place of delivery |  |  |  |  |  |  |  |  |  |
| Health facility | 81.1 | 81.7 | 75.6 | 81.1 | 76.9 | 76.1 | 92.8 | 67.6 | 3,004 |
| Elsewhere | 57.1 | 39.7 | 39.1 | 43.5 | 40.0 | 37.3 | 17.0 | 12.6 | 487 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 80.5 | 80.7 | 74.6 | 81.0 | 77.5 | 76.8 | 90.4 | 66.1 | 1,623 |
| Rural | 75.3 | 71.6 | 67.0 | 71.4 | 66.8 | 65.4 | 75.1 | 54.6 | 1,868 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 88.5 | 81.5 | 82.6 | 82.5 | 79.2 | 78.5 | 81.3 | 71.6 | 208 |
| Central | 80.4 | 76.2 | 60.9 | 75.4 | 74.1 | 70.7 | 79.0 | 50.0 | 357 |
| Greater Accra | 82.2 | 83.2 | 73.0 | 82.8 | 78.4 | 78.4 | 90.5 | 66.0 | 410 |
| Volta | 88.9 | 87.6 | 85.9 | 89.9 | 84.7 | 84.1 | 86.7 | 72.4 | 130 |
| Eastern | 88.8 | 81.7 | 78.5 | 85.8 | 83.2 | 82.6 | 89.3 | 71.4 | 246 |
| Ashanti | 75.8 | 76.3 | 70.6 | 76.9 | 68.8 | 67.5 | 89.3 | 62.9 | 631 |
| Western North | 69.1 | 67.3 | 65.5 | 70.5 | 68.3 | 67.8 | 83.0 | 56.0 | 96 |
| Ahafo | 87.3 | 87.4 | 83.7 | 86.3 | 86.8 | 84.7 | 90.3 | 74.8 | 77 |
| Bono | 85.3 | 83.0 | 75.7 | 79.2 | 77.8 | 76.3 | 89.5 | 67.3 | 113 |
| Bono East | 79.8 | 79.5 | 76.9 | 76.9 | 70.4 | 69.8 | 82.8 | 67.7 | 191 |
| Oti | 76.3 | 72.4 | 74.6 | 76.8 | 74.2 | 74.2 | 63.3 | 54.7 | 123 |
| Northern | 59.8 | 58.9 | 57.0 | 56.4 | 52.8 | 51.8 | 64.7 | 42.0 | 395 |
| Savannah | 80.8 | 74.4 | 71.7 | 72.8 | 69.4 | 67.4 | 57.7 | 43.4 | 105 |
| North East | 73.9 | 69.3 | 59.8 | 65.5 | 61.9 | 59.6 | 77.9 | 49.1 | 112 |
| Upper East | 76.9 | 77.5 | 75.7 | 79.1 | 76.9 | 76.9 | 88.9 | 65.1 | 191 |
| Upper West | 61.8 | 62.8 | 55.6 | 61.9 | 58.5 | 58.5 | 86.4 | 48.8 | 105 |
| Mother's education |  |  |  |  |  |  |  |  |  |
| No education | 68.0 | 64.6 | 60.0 | 61.3 | 55.3 | 54.2 | 66.6 | 46.1 | 728 |
| Primary | 76.5 | 72.5 | 67.4 | 74.8 | 68.9 | 68.3 | 75.3 | 53.7 | 542 |
| Secondary | 80.9 | 79.4 | 73.6 | 79.8 | 76.5 | 75.1 | 87.3 | 64.4 | 1,898 |
| More than secondary | 83.0 | 86.0 | 81.2 | 87.0 | 85.7 | 85.7 | 98.9 | 74.9 | 323 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 69.6 | 64.8 | 59.3 | 63.4 | 59.9 | 57.9 | 64.8 | 43.6 | 853 |
| Second | 76.1 | 73.0 | 69.8 | 73.4 | 68.1 | 67.2 | 80.6 | 59.5 | 723 |
| Middle | 81.3 | 79.1 | 72.9 | 78.9 | 75.8 | 74.1 | 83.1 | 62.1 | 705 |
| Fourth | 83.1 | 83.1 | 78.2 | 83.2 | 78.0 | 77.7 | 92.6 | 68.8 | 631 |
| Highest | 81.5 | 83.9 | 76.6 | 85.4 | 82.1 | 82.1 | 97.4 | 72.1 | 579 |
| Total | 77.7 | 75.9 | 70.5 | 75.8 | 71.8 | 70.7 | 82.2 | 59.9 | 3,491 |

${ }^{1}$ Captures newborns who were weighed at birth. May exclude some newborns who were weighed during the 2 days after birth.
${ }^{2}$ The functions are (1) examining the umbilical cord, (2) measuring temperature, (3) observing and/or counselling on breastfeeding, (4) telling the mother about danger signs/how to recognise if the baby needs immediate attention, and (5) weighing. Corresponds to the definition of the five signal functions to assess the content of postnatal care for newborns described in Moran et al. 2013.
${ }^{3}$ Birth order refers to the order of the birth among the respondent's live births.

Table 9.17 Postnatal checks for mothers and newborns
Among most recent live births in the 2 years preceding the survey, percentage for whom mothers age 15-49 received a postnatal check during the first 2 days after birth, percentage for whom newborns received a postnatal check during the first 2 days after birth, percentage for whom both mothers and newborns received a postnatal check, and percentage for whom neither mothers nor newborns received a postnatal check, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who received a postnatal check ${ }^{1}$ during the first 2 days after birth |  |  |  | $\begin{gathered} \text { Number of } \\ \text { births } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mother | Newborn | Both mother and newborn | Neither mother nor newborn received a postnatal check ${ }^{2}$ |  |
| Mother's age at birth |  |  |  |  |  |
| <20 | 85.4 | 86.1 | 81.4 | 9.9 | 351 |
| 20-34 | 88.0 | 87.0 | 83.9 | 8.9 | 2,449 |
| 35-49 | 85.8 | 86.9 | 82.6 | 9.9 | 692 |
| Birth order ${ }^{3}$ |  |  |  |  |  |
| 1 | 88.6 | 87.1 | 84.0 | 8.4 | 1,016 |
| 2-3 | 90.1 | 88.8 | 85.5 | 6.6 | 1,287 |
| 4-5 | 85.0 | 85.9 | 81.9 | 11.0 | 760 |
| $6+$ | 79.8 | 82.2 | 77.9 | 15.9 | 428 |
| Place of delivery |  |  |  |  |  |
| Health facility | 93.8 | 92.5 | 89.8 | 3.5 | 3,004 |
| Public sector | 93.7 | 92.5 | 89.8 | 3.5 | 2,642 |
| Private medical sector (non-NGO) | 93.8 | 91.8 | 89.0 | 3.4 | 353 |
| Private medical sector (NGO) |  | * | * | * | 9 |
| Elsewhere | 47.2 | 52.3 | 44.1 | 44.6 | 487 |
| Residence |  |  |  |  |  |
| Urban | 92.4 | 90.5 | 87.5 | 4.7 | 1,623 |
| Rural | 82.9 | 83.7 | 79.8 | 13.2 | 1,868 |
| Region |  |  |  |  |  |
| Western | 87.3 | 89.1 | 84.4 | 8.0 | 208 |
| Central | 85.8 | 89.2 | 84.6 | 9.6 | 357 |
| Greater Accra | 95.4 | 93.2 | 91.5 | 2.9 | 410 |
| Volta | 89.5 | 88.5 | 84.4 | 6.4 | 130 |
| Eastern | 95.0 | 94.3 | 91.8 | 2.6 | 246 |
| Ashanti | 87.9 | 85.8 | 81.8 | 8.1 | 631 |
| Western North | 87.4 | 84.9 | 82.5 | 10.1 | 96 |
| Ahafo | 88.2 | 83.8 | 82.4 | 10.4 | 77 |
| Bono | 94.1 | 95.7 | 92.2 | 2.4 | 113 |
| Bono East | 85.6 | 86.9 | 83.6 | 11.1 | 191 |
| Oti | 76.8 | 75.6 | 73.3 | 20.8 | 123 |
| Northern | 72.7 | 73.0 | 68.0 | 22.3 | 395 |
| Savannah | 81.5 | 81.5 | 77.6 | 14.7 | 105 |
| North East | 83.2 | 84.1 | 80.6 | 13.3 | 112 |
| Upper East | 96.7 | 95.2 | 92.6 | 0.7 | 191 |
| Upper West | 91.0 | 89.6 | 86.9 | 6.4 | 105 |
| Mother's education |  |  |  |  |  |
| No education | 78.3 | 79.0 | 75.8 | 18.5 | 728 |
| Primary | 86.4 | 86.3 | 82.3 | 9.5 | 542 |
| Secondary | 89.7 | 88.9 | 85.4 | 6.8 | 1,898 |
| More than secondary | 94.9 | 93.6 | 90.8 | 2.3 | 323 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 78.0 | 78.8 | 74.7 | 17.9 | 853 |
| Second | 86.7 | 86.7 | 82.5 | 9.2 | 723 |
| Middle | 88.9 | 89.2 | 84.8 | 6.6 | 705 |
| Fourth | 90.8 | 90.0 | 87.3 | 6.5 | 631 |
| Highest | 95.7 | 92.8 | 91.3 | 2.7 | 579 |
| Total | 87.3 | 86.9 | 83.4 | 9.2 | 3,491 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
NGO = nongovernmental organisation
${ }^{1}$ Includes checks from a doctor, nurse/midwife, auxiliary midwife, traditional birth attendant, or community health worker/
volunteer
${ }^{2}$ Includes checks after the first 2 days or by other persons
${ }^{3}$ Birth order refers to the order of the birth among the respondent's live births.

Table 9.18 Men's involvement in maternal health care
Among men age 15-49 with a youngest child age 0-2, percentage who report that the child's mother had any antenatal check-ups during the pregnancy with the child; among men for whom the mother of the youngest child age 0-2 had any antenatal check-ups during the pregnancy with the child, percentage who were present for any antenatal check-up; among men with a child age 0-2, percentage who report that their child was born in a health facility; and among men whose youngest child age 0-2 was born in a health facility, percentage who went to the health facility with the mother, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among men age 15-49 with a youngest child age 0-2 |  | Among men age 15-49 with a youngest child age 0-2 for whom the mother had any antenatal check-ups |  | Among men age 15-49 with a youngest child age 0-2 |  | Among men age 15-49 whose youngest child age $0-2$ was born in a health facility |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who report the child's mother had any antenatal check-ups during pregnancy with the child | Number of men | Percentage ever present during any antenatal check-up | Number of men | Percentage who report their child was born in a health facility | Number of men | Percentage who went with the child's mother to health facility | Number of men |
| Father's age at interview |  |  |  |  |  |  |  |  |
| <20 | * | 13 | * | 11 | * | 13 | * | 12 |
| 20-34 | 94.0 | 697 | 52.5 | 655 | 87.6 | 697 | 61.8 | 610 |
| 35-49 | 96.3 | 822 | 51.5 | 792 | 84.2 | 822 | 70.9 | 693 |
| Number of children ever fathered |  |  |  |  |  |  |  |  |
| 1 | 94.4 | 330 | 54.3 | 311 | 92.2 | 330 | 59.7 | 304 |
| 2-3 | 94.7 | 588 | 52.4 | 557 | 88.3 | 588 | 63.8 | 519 |
| 4-5 | 97.0 | 358 | 48.3 | 347 | 84.4 | 358 | 74.5 | 302 |
| 6+ | 94.1 | 257 | 52.5 | 242 | 73.9 | 257 | 69.8 | 190 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 95.1 | 759 | 53.9 | 722 | 95.2 | 759 | 68.0 | 723 |
| Rural | 95.1 | 774 | 49.8 | 736 | 76.5 | 774 | 63.9 | 592 |
| Region |  |  |  |  |  |  |  |  |
| Western | 98.4 | 97 | 40.5 | 96 | 87.8 | 97 | 53.2 | 85 |
| Central | 94.2 | 129 | 32.5 | 121 | 87.5 | 129 | 58.6 | 113 |
| Greater Accra | 95.4 | 236 | 61.4 | 225 | 94.8 | 236 | 64.4 | 224 |
| Volta | 97.8 | 50 | 55.2 | 49 | 80.4 | 50 | (75.1) | 40 |
| Eastern | 92.1 | 109 | 51.7 | 100 | 88.6 | 109 | 52.2 | 96 |
| Ashanti | 100.0 | 196 | 29.7 | 196 | 87.7 | 196 | 63.3 | 172 |
| Western North | 90.9 | 42 | 26.3 | 39 | 85.8 | 42 | 58.2 | 36 |
| Ahafo | 72.9 | 35 | 27.9 | 25 | 91.7 | 35 | 51.0 | 32 |
| Bono | 96.2 | 48 | 46.8 | 46 | 90.7 | 48 | 63.0 | 43 |
| Bono East | 89.3 | 93 | 63.5 | 83 | 85.3 | 93 | 70.9 | 79 |
| Oti | 98.5 | 53 | 56.2 | 52 | 73.3 | 53 | 65.0 | 39 |
| Northern | 96.1 | 199 | 75.6 | 192 | 72.0 | 199 | 82.7 | 143 |
| Savannah | 96.2 | 52 | 54.1 | 50 | 73.5 | 52 | 59.6 | 38 |
| North East | 97.2 | 55 | 69.8 | 54 | 75.7 | 55 | 85.5 | 42 |
| Upper East | 93.5 | 80 | 50.1 | 75 | 96.3 | 80 | 81.0 | 77 |
| Upper West | 94.1 | 58 | 62.7 | 54 | 93.5 | 58 | 72.3 | 54 |
| Father's education |  |  |  |  |  |  |  |  |
| No education | 94.1 | 286 | 58.7 | 269 | 69.7 | 286 | 69.6 | 199 |
| Primary | 94.1 | 210 | 46.0 | 198 | 82.3 | 210 | 69.2 | 173 |
| Secondary | 95.3 | 804 | 47.3 | 766 | 88.9 | 804 | 62.7 | 715 |
| More than secondary | 96.3 | 233 | 64.2 | 224 | 97.9 | 233 | 71.6 | 228 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 93.8 | 343 | 59.2 | 321 | 68.0 | 343 | 72.0 | 233 |
| Second | 96.0 | 289 | 51.0 | 277 | 80.4 | 289 | 63.2 | 232 |
| Middle | 92.5 | 261 | 45.9 | 241 | 87.0 | 261 | 68.3 | 227 |
| Fourth | 94.4 | 318 | 43.3 | 301 | 95.4 | 318 | 59.0 | 304 |
| Highest | 98.5 | 322 | 57.7 | 317 | 99.1 | 322 | 69.3 | 319 |
| Total 15-49 | 95.1 | 1,533 | 51.8 | 1,458 | 85.8 | 1,533 | 66.2 | 1,315 |
| 50-59 | 96.8 | 101 | 50.3 | 98 | 86.8 | 101 | 66.1 | 88 |
| Total 15-59 | 95.2 | 1,634 | 51.7 | 1,556 | 85.9 | 1,634 | 66.2 | 1,403 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 9.19 Examinations for breast and cervical cancer
Percentage of women age 15-49 ever examined by a doctor or health care worker for breast cancer and percentage ever tested by a doctor or health care worker for cervical cancer, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage examined for breast cancer | Percentage tested for cervical cancer | Number of women |
| :---: | :---: | :---: | :---: |
| Age |  |  |  |
| 15-29 | 13.7 | 2.8 | 7,716 |
| 30-49 | 23.3 | 7.3 | 7,298 |
| 30-34 | 23.6 | 6.9 | 2,252 |
| 35-39 | 24.5 | 7.1 | 2,059 |
| 40-44 | 21.1 | 7.1 | 1,675 |
| 45-49 | 23.9 | 8.5 | 1,312 |
| 30-44 | 23.2 | 7.0 | 5,986 |
| 40-49 | 22.3 | 7.7 | 2,987 |
| Number of living children |  |  |  |
| 0 | 14.0 | 2.9 | 4,925 |
| 1-2 | 22.2 | 6.5 | 4,598 |
| 3-4 | 21.9 | 6.3 | 3,391 |
| $5+$ | 14.6 | 4.2 | 2,100 |
| Marital status |  |  |  |
| Never married | 13.9 | 2.2 | 5,268 |
| Married or living together | 20.9 | 6.4 | 8,205 |
| Divorced/separated/widowed | 20.1 | 6.7 | 1,542 |
| Employment (last 12 months) |  |  |  |
| Not employed | 11.4 | 2.2 | 3,273 |
| Employed for cash | 22.8 | 6.4 | 9,055 |
| Employed not for cash | 12.1 | 3.5 | 2,686 |
| Residence |  |  |  |
| Urban | 23.0 | 6.5 | 8,557 |
| Rural | 12.3 | 2.9 | 6,457 |
| Region |  |  |  |
| Western | 22.5 | 2.9 | 955 |
| Central | 17.8 | 3.9 | 1,703 |
| Greater Accra | 24.4 | 5.8 | 2,327 |
| Volta | 18.4 | 6.4 | 713 |
| Eastern | 22.2 | 6.3 | 1,220 |
| Ashanti | 18.8 | 5.7 | 2,928 |
| Western North | 13.9 | 3.7 | 411 |
| Ahafo | 17.4 | 5.0 | 317 |
| Bono | 19.1 | 4.3 | 567 |
| Bono East | 13.7 | 3.8 | 676 |
| Oti | 8.6 | 3.1 | 403 |
| Northern | 15.4 | 6.7 | 1,149 |
| Savannah | 6.9 | 1.6 | 319 |
| North East | 17.7 | 4.0 | 290 |
| Upper East | 13.3 | 3.9 | 640 |
| Upper West | 10.0 | 3.7 | 398 |
| Education |  |  |  |
| No education | 9.1 | 3.1 | 2,411 |
| Primary | 11.4 | 3.3 | 2,071 |
| Secondary | 17.6 | 3.8 | 8,999 |
| More than secondary | 47.3 | 16.6 | 1,533 |
| Wealth quintile |  |  |  |
| Lowest | 7.7 | 1.5 | 2,447 |
| Second | 11.2 | 2.5 | 2,712 |
| Middle | 15.4 | 4.3 | 3,121 |
| Fourth | 19.4 | 5.3 | 3,379 |
| Highest | 33.8 | 9.6 | 3,355 |
| Total | 18.4 | 5.0 | 15,014 |

Table 9.20 Problems in accessing health care
Percentage of women age 15-49 who reported that they have serious problems in accessing health care for themselves when they are sick, by type of problem, according to background characteristics, Ghana DHS 2022

| Background characteristic | Problems in accessing health care |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Getting permission to go for treatment | Getting money for treatment | Distance to health facility | Not wanting to go alone | At least one problem accessing health care | Number of women |
| Age |  |  |  |  |  |  |
| 15-19 | 12.2 | 42.6 | 22.1 | 22.1 | 54.5 | 2,682 |
| 20-34 | 9.5 | 42.7 | 21.5 | 15.2 | 52.3 | 7,286 |
| 35-49 | 9.2 | 48.5 | 23.7 | 14.6 | 55.1 | 5,046 |
| Number of living children |  |  |  |  |  |  |
| 0 | 10.6 | 38.9 | 19.2 | 19.1 | 50.1 | 4,925 |
| 1-2 | 8.8 | 41.8 | 20.8 | 13.7 | 50.9 | 4,598 |
| 3-4 | 9.2 | 48.5 | 22.9 | 14.5 | 55.6 | 3,391 |
| $5+$ | 12.0 | 58.1 | 32.2 | 17.7 | 64.6 | 2,100 |
| Marital status |  |  |  |  |  |  |
| Never married | 10.0 | 42.2 | 19.5 | 18.5 | 52.8 | 5,268 |
| Married or living together | 10.2 | 43.0 | 23.8 | 14.7 | 51.7 | 8,205 |
| Divorced/separated/widowed | 7.8 | 61.9 | 23.9 | 16.6 | 66.6 | 1,542 |
| Employment (last 12 months) |  |  |  |  |  |  |
| Not employed | 10.6 | 41.9 | 21.2 | 18.8 | 52.0 | 3,273 |
| Employed for cash | 8.8 | 44.9 | 20.9 | 14.1 | 53.1 | 9,055 |
| Employed not for cash | 12.8 | 47.3 | 28.6 | 20.2 | 57.4 | 2,686 |
| Residence |  |  |  |  |  |  |
| Urban | 8.0 | 39.1 | 14.9 | 13.2 | 46.7 | 8,557 |
| Rural | 12.4 | 52.0 | 32.2 | 20.2 | 62.8 | 6,457 |
| Region |  |  |  |  |  |  |
| Western | 3.1 | 46.4 | 17.3 | 10.1 | 52.9 | 955 |
| Central | 7.5 | 47.7 | 17.4 | 21.3 | 56.9 | 1,703 |
| Greater Accra | 3.2 | 35.1 | 11.7 | 10.9 | 42.7 | 2,327 |
| Volta | 5.4 | 39.9 | 15.1 | 13.6 | 46.6 | 713 |
| Eastern | 14.0 | 41.1 | 13.4 | 13.3 | 51.8 | 1,220 |
| Ashanti | 11.0 | 44.2 | 23.1 | 13.9 | 52.7 | 2,928 |
| Western North | 8.5 | 39.7 | 28.8 | 17.3 | 53.6 | 411 |
| Ahafo | 12.8 | 46.0 | 36.8 | 22.6 | 64.1 | 317 |
| Bono | 4.7 | 30.8 | 23.0 | 11.8 | 41.5 | 567 |
| Bono East | 4.5 | 52.2 | 26.5 | 9.9 | 59.0 | 676 |
| Oti | 15.9 | 52.5 | 41.4 | 26.4 | 64.2 | 403 |
| Northern | 31.8 | 56.2 | 40.2 | 34.7 | 65.4 | 1,149 |
| Savannah | 9.0 | 60.1 | 37.4 | 22.3 | 72.4 | 319 |
| North East | 7.2 | 60.7 | 35.5 | 20.8 | 65.7 | 290 |
| Upper East | 11.4 | 42.3 | 24.6 | 14.4 | 50.5 | 640 |
| Upper West | 9.1 | 55.3 | 30.3 | 12.6 | 66.6 | 398 |
| Education |  |  |  |  |  |  |
| No education | 17.0 | 60.4 | 36.8 | 22.9 | 68.5 | 2,411 |
| Primary | 10.9 | 55.7 | 27.9 | 18.2 | 62.9 | 2,071 |
| Secondary | 8.3 | 41.9 | 19.1 | 15.1 | 51.1 | 8,999 |
| More than secondary | 6.5 | 21.3 | 11.2 | 9.8 | 32.2 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 16.7 | 62.6 | 48.9 | 25.7 | 75.3 | 2,447 |
| Second | 13.2 | 57.1 | 29.7 | 19.6 | 65.5 | 2,712 |
| Middle | 9.1 | 47.3 | 18.0 | 14.7 | 54.5 | 3,121 |
| Fourth | 7.3 | 39.2 | 13.0 | 14.8 | 47.1 | 3,379 |
| Highest | 5.7 | 24.6 | 10.5 | 9.4 | 34.0 | 3,355 |
| Total | 9.9 | 44.7 | 22.3 | 16.2 | 53.6 | 15,014 |

Table 9.21 Distance from health care
Percent distributions of women age 15-49 by travel time to nearest health facility and by means of transport to nearest health facility, according to background characteristics, Ghana DHS 2022

| Background characteristic | Travel time to nearest health facility |  |  |  | Total | Means of transport to nearest health facility |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} <30 \\ \text { minutes } \end{gathered}$ | $\begin{gathered} 30-59 \\ \text { minutes } \end{gathered}$ | 60-119 minutes | $\geq 2$ hours |  | Motorised ${ }^{1}$ | Not motorised $^{2}$ | Other |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 54.7 | 32.3 | 10.0 | 3.0 | 100.0 | 35.7 | 64.3 | 0.0 | 100.0 | 2,682 |
| 20-34 | 60.0 | 28.6 | 8.2 | 3.1 | 100.0 | 39.6 | 60.3 | 0.1 | 100.0 | 7,286 |
| 35-49 | 57.2 | 29.3 | 9.9 | 3.7 | 100.0 | 40.4 | 59.6 | 0.0 | 100.0 | 5,046 |
| Accessing health care |  |  |  |  |  |  |  |  |  |  |
| Distance to health facility is a problem | 29.3 | 37.5 | 23.3 | 10.0 | 100.0 | 48.1 | 51.9 | 0.0 | 100.0 | 3,354 |
| Distance to health facility is not a problem | 66.4 | 27.2 | 5.0 | 1.4 | 100.0 | 36.6 | 63.3 | 0.1 | 100.0 | 11,660 |
| Means of transport to nearest health facility |  |  |  |  |  |  |  |  |  |  |
| Motorised ${ }^{1}$ | 50.4 | 33.9 | 11.2 | 4.5 | 100.0 | na | na | na | na | 5,882 |
| Not motorised ${ }^{2}$ | 63.0 | 26.7 | 7.8 | 2.5 | 100.0 | na | na | na | na | 9,126 |
| Other | * | * | * | * | 100.0 | na | na | na | na | 6 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 63.4 | 29.5 | 5.6 | 1.4 | 100.0 | 43.9 | 56.1 | 0.1 | 100.0 | 8,557 |
| Rural | 51.0 | 29.5 | 13.7 | 5.8 | 100.0 | 33.0 | 67.0 | 0.0 | 100.0 | 6,457 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 64.7 | 29.5 | 4.7 | 1.1 | 100.0 | 44.8 | 55.2 | 0.0 | 100.0 | 955 |
| Central | 67.4 | 24.5 | 6.6 | 1.6 | 100.0 | 33.2 | 66.8 | 0.0 | 100.0 | 1,703 |
| Greater Accra | 62.7 | 28.7 | 5.5 | 3.1 | 100.0 | 54.4 | 45.5 | 0.1 | 100.0 | 2,327 |
| Volta | 66.7 | 25.6 | 5.7 | 2.0 | 100.0 | 46.2 | 53.8 | 0.0 | 100.0 | 713 |
| Eastern | 70.9 | 24.4 | 3.9 | 0.8 | 100.0 | 30.2 | 69.8 | 0.0 | 100.0 | 1,220 |
| Ashanti | 53.9 | 33.7 | 10.8 | 1.6 | 100.0 | 42.2 | 57.8 | 0.0 | 100.0 | 2,928 |
| Western North | 57.9 | 26.5 | 11.4 | 4.1 | 100.0 | 34.1 | 65.7 | 0.1 | 100.0 | 411 |
| Ahafo | 42.1 | 34.1 | 18.2 | 5.7 | 100.0 | 52.6 | 47.4 | 0.0 | 100.0 | 317 |
| Bono | 61.5 | 28.6 | 7.7 | 2.3 | 100.0 | 34.4 | 65.6 | 0.0 | 100.0 | 567 |
| Bono East | 50.4 | 28.5 | 11.9 | 9.1 | 100.0 | 30.8 | 69.2 | 0.0 | 100.0 | 676 |
| Oti | 51.6 | 24.5 | 12.3 | 11.6 | 100.0 | 42.2 | 57.6 | 0.1 | 100.0 | 403 |
| Northern | 45.1 | 31.7 | 14.1 | 9.2 | 100.0 | 38.9 | 61.0 | 0.1 | 100.0 | 1,149 |
| Savannah | 60.3 | 24.7 | 12.8 | 2.2 | 100.0 | 28.6 | 71.3 | 0.1 | 100.0 | 319 |
| North East | 45.8 | 30.5 | 17.2 | 6.5 | 100.0 | 31.1 | 68.9 | 0.0 | 100.0 | 290 |
| Upper East | 40.8 | 44.7 | 13.2 | 1.4 | 100.0 | 18.2 | 81.8 | 0.0 | 100.0 | 640 |
| Upper West | 52.7 | 27.8 | 15.5 | 4.1 | 100.0 | 16.5 | 83.5 | 0.0 | 100.0 | 398 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 47.0 | 31.0 | 15.0 | 7.1 | 100.0 | 33.1 | 66.8 | 0.1 | 100.0 | 2,411 |
| Primary | 55.4 | 28.4 | 11.0 | 5.1 | 100.0 | 36.0 | 63.9 | 0.0 | 100.0 | 2,071 |
| Secondary | 58.9 | 30.7 | 8.1 | 2.2 | 100.0 | 39.2 | 60.8 | 0.0 | 100.0 | 8,999 |
| More than secondary | 74.4 | 21.7 | 2.8 | 1.0 | 100.0 | 53.0 | 47.0 | 0.0 | 100.0 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 32.5 | 35.1 | 20.5 | 11.9 | 100.0 | 32.7 | 67.3 | 0.0 | 100.0 | 2,447 |
| Second | 54.1 | 29.8 | 13.3 | 2.8 | 100.0 | 31.2 | 68.7 | 0.0 | 100.0 | 2,712 |
| Middle | 63.2 | 28.5 | 6.6 | 1.8 | 100.0 | 32.5 | 67.4 | 0.1 | 100.0 | 3,121 |
| Fourth | 64.7 | 29.4 | 4.6 | 1.3 | 100.0 | 39.8 | 60.2 | 0.0 | 100.0 | 3,379 |
| Highest | 68.7 | 26.2 | 4.3 | 0.8 | 100.0 | 55.9 | 44.1 | 0.0 | 100.0 | 3,355 |
| Total | 58.1 | 29.5 | 9.1 | 3.3 | 100.0 | 39.2 | 60.8 | 0.0 | 100.0 | 15,014 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na = not applicable
${ }^{1}$ Includes car/truck, public bus, motorcycle/scooter, and boat with motor
${ }^{2}$ Includes animal-drawn cart, bicycle, boat without motor, and walking

## CHILD HEALTH

## Key Findings

- Birth weight: Among infants born in the last 2 years who had their birth weight reported, $11 \%$ had a low birth weight (less than 2.5 kg ).
- Vaccinations: By the time of the survey, $75 \%$ of children age 12-23 months were fully vaccinated against all basic antigens, and $56 \%$ were fully vaccinated according to the national schedule.
- Symptoms of acute respiratory infection: Advice or treatment was sought for $54 \%$ of children under age 5 who had symptoms of acute respiratory infection (ARI) in the 2 weeks before the survey.
- Fever: Advice or treatment was sought for $57 \%$ of children under age 5 who had a fever in the 2 weeks before the survey.
- Diarrhoea: Advice or treatment was sought for $51 \%$ of children under age 5 who had diarrhoea in the 2 weeks before the survey. Fifty-seven percent of children with diarrhoea received oral rehydration therapy (ORT), while $22 \%$ received no treatment.

Information on child health and survival can help policymakers and programme managers assess the efficacy of current strategies, formulate appropriate interventions to prevent deaths from childhood illnesses, and improve the health of children in Ghana.

This chapter presents information on birth weight and vaccination status for young children. It also looks at the prevalence of, and care-seeking behaviours for three common childhood illnesses: symptoms of acute respiratory infection (ARI), fever, and diarrhoea.

### 10.1 Child's Size and Birth Weight

## Low birth weight

Percentage of births with a reported birth weight below 2.5 kilograms regardless of gestational age.
Sample: Live births in the 2 years before the survey that have a reported birth weight from either a written record or the mother's report

Birth weight is a reliable and sensitive indicator for predicting the immediate and long-term outcome of a newborn. Low birth weight is a challenging, multifaceted public health problem because it is associated with an increased risk of morbidity and mortality in infants. Low birth weight newborns are more likely to die from common childhood diseases in the first year of life than their normal-weight counterparts. The public health significance of low birth weight is accentuated by its association with mental retardation, specialised institutional care, and intensive care unit care.

For births in the 2 years preceding the survey, birth weight was recorded in the questionnaire if available from either a written record or the mother's recall. Overall, information on birth weight was available for
$67 \%$ of babies through written records and $15 \%$ through the mother's recall (Table 10.1). Eleven percent of infants with a reported birth weight had a low birth weight (less than 2.5 kg ). The percentage of children with a low birth weight has increased since 1998, from $9 \%$ to $11 \%$.

### 10.2 Vaccination of Children

Universal immunisation of children against common vaccine-preventable diseases is crucial in reducing infant and child morbidity and mortality. In Ghana, routine childhood vaccines include bacille CalmetteGuérin (BCG) (tuberculosis), HepB (hepatitis B), oral polio vaccine (OPV) or inactivated polio vaccine (IPV), pentavalent or DPT-HepB-Hib (diphtheria, pertussis, tetanus, hepatitis B, and Haemophilus influenzae type b ), pneumococcal conjugate vaccine ( PCV ), rotavirus vaccine (RV), measles-rubella vaccine (MR), yellow fever vaccine, and meningitis A vaccine.

Information on vaccination coverage was obtained in two ways: from written vaccination records, including vaccination or health cards, and from verbal reports. For each child born in the 3 years before the survey, mothers were asked to show the interviewers the vaccination card or other document used for recording the child's immunisations. If the vaccination card or other document was available, the interviewer copied the dates of each vaccination received. If the mother was not able to present the vaccination card or other document for a child, she was asked to recall whether the child had received particular vaccines. If she indicated that the child had received any of the multidose vaccines, she was asked the number of doses the child received.

### 10.2.1 Vaccination Card Ownership and Availability

Vaccination cards are a critical tool in ensuring that a child receives all recommended vaccinations on schedule. Ninety-eight percent each of children age 12-23 months and age 24-35 months ever had a vaccination card or other document on which their vaccinations were recorded. However, only $88 \%$ of children age 12-23 months and $79 \%$ of children age 24-35 months had vaccination cards available at the time of the interview (Table 10.2).

### 10.2.2 Basic Antigen Coverage

## Fully vaccinated: basic antigens

Percentage of children who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report). To have received all basic antigens, a child must receive at least:

- One dose of BCG vaccine, which protects against tuberculosis
- Three doses of polio vaccine given as oral polio vaccine (OPV), inactivated polio vaccine (IPV), or a combination of OPV and IPV
- Three doses of DPT-containing vaccine, which protects against diphtheria, pertussis (whooping cough), and tetanus
- One dose of measles-rubella vaccine (MR)

Sample: Children age 12-23 months and age 24-35 months

Historically, an important measure of vaccination coverage has been the proportion of children receiving all "basic" antigens. Children are considered fully vaccinated against all basic antigens if they have received the BCG vaccine, three doses each of polio vaccine and DPT-containing vaccine, and a single dose of measles-containing vaccine. In Ghana, the BCG and polio 0 vaccines are given at birth or at first clinic contact, while the polio and DPT-containing vaccines are given at approximately age 6 , 10, and 14 weeks. A first measlescontaining vaccination should be given at or soon after age 9 months.

Among children age 12-23 months, $95 \%$ received the BCG vaccine, $89 \%$ received the third dose of DPT-HepB-Hib, 84\% received the third dose of OPV, $88 \%$ received the third dose of the pneumococcal vaccine, $93 \%$ received the second dose of the rotavirus vaccine, $84 \%$ received the yellow fever vaccine, and $87 \%$ received the first dose of the measles-rubella vaccine (Table 10.3 and Figure 10.1).

Figure 10.1 Childhood vaccinations


Seventy-five percent of children age 12-23 months were fully vaccinated with all basic antigens at any time before the survey. Two percent of children age 12-23 months did not receive any vaccinations (Table 10.3). By region, full vaccination coverage among children age 12-23 months ranges from $56 \%$ in Northern to $88 \%$ in Western North (Map 10.1).

## Map 10.1 Vaccination coverage by region

Percentage of children age 12-23 months who were fully vaccinated (basic antigens) at any time before the survey


Trends: The percentage of children age 12-23 months who received all basic antigens increased from 55\% in 1993 to $79 \%$ in 2008 before decreasing to $77 \%$ in 2014 and $75 \%$ in 2022 (Figure 10.2).

Figure 10.2 Trends in childhood vaccinations
Percentage of children age 12-23 months who received all basic antigens at any time before the survey


### 10.2.3 National Schedule Coverage

Fully vaccinated according to national schedule: age 12-23 months
Percentage of children who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report). To be fully vaccinated according to the national schedule, a child must receive the following:

- One dose of BCG vaccine
- OPV (birth dose)
- Hepatitis B vaccine (birth dose)
- Three doses of OPV and one dose of IPV
- Three doses of DPT-HepB-Hib
- Three doses of PCV
- Two doses of RV
- One dose of MR
- Yellow fever vaccine

Sample: Children age 12-23 months

Fully vaccinated according to national schedule: age 24-35 months
Percentage of children who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report). To be fully vaccinated according to the national schedule, a child must receive all of the vaccinations listed above along with the following:

- A second dose of MR
- One dose of meningitis A vaccine

Sample: Children age 24-35 months

A second measure of vaccination coverage is the percentage of children age 12-23 months and 24-35 months who are fully vaccinated according to the national schedule. In this report, a child age 12-23 months is considered to be fully vaccinated according to the national schedule if the child has received all basic antigens as well as a birth dose of OPV, a birth dose of HepB vaccine, a dose of IPV, three doses of the pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of yellow fever vaccine. Children age 24-35 months have received all vaccinations according to the national schedule if they have received a second dose of the measles-rubella vaccine and a dose of the meningitis A vaccine in addition to all of the vaccinations relevant for a child age 12-23 months.

Among children age 12-23 months, $56 \%$ are fully vaccinated according to the national schedule. Children age 24-35 months are fully vaccinated according to the national schedule if they have received a second dose of the MMR vaccine in addition to all of the vaccinations relevant for a child age 12-23 months. Seventy-three percent of children age 24-25 months received a second dose of MMR. Overall, $42 \%$ of children age 24-35 months are fully vaccinated according to the national schedule (Table 10.4).

## Source of Vaccinations

Most children age 12-23 months and 24-35 months ( $93 \%$ and $94 \%$, respectively) received vaccinations from public sector sources (Table 10.5).

### 10.3 Symptoms of Acute Respiratory Infection and Care-seeking Behaviour

## Care seeking for symptoms of acute respiratory infection (ARI)

Children with symptoms of ARI for whom advice or treatment was sought. ARI symptoms consist of short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.
Sample: Children under age 5 with symptoms of ARI in the 2 weeks before the survey

Table 10.6 shows that $2 \%$ of children under age 5 had symptoms of ARI in the 2 weeks preceding the survey. Fifty-four percent of those children were taken to a health facility or provider for advice or treatment, and $21 \%$ were taken for advice and treatment the same or the next day. The public sector (64\%) is the most common source of advice or treatment for children with symptoms of ARI. Among public sector facilities, the most prominent sources are government hospitals ( $26 \%$ ), community-based health planning and services (CHPS) centres/government health posts (13\%), and government health centres (12\%). Drug peddlers are the most common private sector source (11\%) (Table 10.7).

### 10.4 Diarrhoeal Disease

Diarrhoeal disease remains an important cause of morbidity and mortality among young children in Ghana. Oral rehydration therapy (ORT) and supplemental zinc, combined with continued feeding, are the recommended interventions for treating diarrhoea. ORT can be provided as increased fluids (especially increased breastfeeding), as fluid prepared from a packet of oral rehydration salts (ORS), or as government-recommended homemade fluids (RHF). Zinc has been shown to reduce the severity and duration of diarrhoea, and it is recommended that all children with diarrhoea receive a 5-day course of zinc.

### 10.4.1 Diarrhoea and Care-seeking Behaviour

## Care seeking for diarrhoea

Children with diarrhoea for whom advice or treatment was sought.
Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

Thirteen percent of children under age 5 were reported to have had diarrhoea in the 2 weeks preceding the survey (Table 10.9 and Figure 10.3). Treatment or advice was sought for $51 \%$ of children who had diarrhoea.

Figure 10.3 Diarrhoea prevalence by age
Percentage of children under age 5 who had diarrhoea in the 2 weeks before the survey


### 10.4.2 Feeding Practices

## Appropriate feeding practices

Children with diarrhoea are given more liquids than usual and as much food or more than usual.
Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

Only $23 \%$ of children under age 5 with diarrhoea in the 2 weeks before the survey were given more liquids than usual, while $38 \%$ received the same amount of liquids. It is alarming that $20 \%$ of children were given somewhat less liquid than usual, $17 \%$ were given much less liquid than usual, and $2 \%$ were given no liquid at all. Thirty-two percent of children with diarrhoea were given the same amount of food and $6 \%$ were given more food than usual (as recommended). Twenty-eight percent of children were given somewhat less food than usual, $25 \%$ were given much less food than usual, and $3 \%$ were given no food at all (Figure 10.4 and Table 10.10).

### 10.4.3 Oral Rehydration Therapy, Zinc, Continued Feeding, and Other Treatments

## Oral rehydration therapy

Children with diarrhoea are given increased fluids, a fluid made from a special packet of oral rehydration salts (ORS), or government-recommended homemade fluids (RHF).
Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

It is very important that all children with diarrhoea receive increased fluids, continued feeding, and oral zinc. However, only $57 \%$ of children under age 5 with diarrhoea in the 2 weeks preceding the survey received ORT (ORS, RHF, or increased fluids). Fifty-two percent of children received ORT in the form of increased fluids, $40 \%$ in ORS packets or as prepackaged ORS liquid, and $15 \%$ as recommended home fluids. Thirtysix percent of children were given ORT and continued feeding, and $35 \%$ received zinc. Twenty-two percent of children received no treatment (Figure 10.5 and Table 10.11).

Trends: The percentage of children under age 5 with diarrhoea in the 2 weeks before the survey who received ORT increased from $32 \%$ in 1998 to $67 \%$ in 2008 before decreasing to $62 \%$ in 2014 and $57 \%$ in 2022. The percentage of children with diarrhoea who received zinc supplements increased from $2 \%$ in 2008 to $35 \%$ in 2022.

## Source of Advice or Treatment for Diarrhoea

Children with diarrhoea for whom advice or treatment was sought were most likely to be taken to public sector facilities ( $51 \%$ ). "Other" private sector suppliers ( $29 \%$ ), including shops/markets ( $16 \%$ ) and drug peddlers (13\%), were the next most common source of advice and treatment for diarrhoea (Table 10.12).

### 10.5 Treatment of Childhood Illness

Fever (15\%) was the most common illness reported among children under age 5 during the 2 weeks before the survey, followed by diarrhoea ( $13 \%$ ) and symptoms of ARI ( $2 \%$ ), and children with fever were most likely to be taken for advice or treatment. Advice or treatment was sought for $57 \%$ of children with fever, $54 \%$ of children with symptoms of ARI, and $51 \%$ of children with diarrhoea (Figure 10.6).

Figure 10.6 Symptoms of childhood illness and care seeking

Percentage of children under age 5 with symptoms in the 2 weeks before the survey


## List of Tables

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- Table 10.11 Oral rehydration salts, zinc, continued feeding, and other treatments for diarrhoea
- Table 10.12 Source of advice or treatment for children with diarrhoea
Table 10.1 Child's size and weight at birth
 Among b

| Background characteristic | Percent distribution of births by size of baby at birth based on mother's estimate |  |  |  |  | Percentage of births that have a reported birth weight according to: |  |  | Number of births | Among births with a reported birth weight ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very small | Smaller than average | Average or larger | Don't know | Total | Written record | Mother's report | Either |  | Percentage less than 2.5 kg | Number of births |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |  |
| <20 | 7.5 | 9.5 | 82.2 | 0.7 | 100.0 | 64.6 | 15.6 | 80.2 | 358 | 13.8 | 287 |
| 20-34 | 3.5 | 8.9 | 87.4 | 0.2 | 100.0 | 67.4 | 15.3 | 82.7 | 2,561 | 10.9 | 2,117 |
| 35-49 | 4.0 | 7.5 | 88.1 | 0.4 | 100.0 | 68.1 | 12.5 | 80.6 | 718 | 10.5 | 578 |
| Birth order ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 4.6 | 9.6 | 85.4 | 0.4 | 100.0 | 68.4 | 17.8 | 86.1 | 1,054 | 12.5 | 907 |
| 2-3 | 4.1 | 8.2 | 87.4 | 0.2 | 100.0 | 69.5 | 15.8 | 85.4 | 1,338 | 9.6 | 1,142 |
| 4-5 | 3.4 | 8.1 | 88.3 | 0.2 | 100.0 | 66.4 | 11.2 | 77.7 | 798 | 11.5 | 620 |
| $6+$ | 3.3 | 8.9 | 87.3 | 0.6 | 100.0 | 59.4 | 10.7 | 70.0 | 447 | 11.9 | 313 |
| Mother's smoking status |  |  |  |  |  |  |  |  |  |  |  |
| Smokes cigarettes/tobacco | (9.6) | (4.2) | (86.2) | (0.0) | 100.0 | (63.6) | (12.0) | (75.5) | 29 | * | 22 |
| Does not smoke | 4.0 | 8.7 | 87.0 | 0.3 | 100.0 | 67.3 | 14.8 | 82.1 | 3,609 | 11.1 | 2,961 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3.6 | 7.5 | 88.7 | 0.2 | 100.0 | 70.4 | 19.5 | 89.9 | 1,700 | 10.8 | 1,528 |
| Rural | 4.4 | 9.7 | 85.5 | 0.4 | 100.0 | 64.5 | 10.6 | 75.1 | 1,938 | 11.5 | 1,455 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| Western | 2.7 | 13.3 | 82.7 | 1.3 | 100.0 | 55.9 | 25.1 | 81.0 | 212 | 8.7 | 171 |
| Central | 4.5 | 9.8 | 85.7 | 0.0 | 100.0 | 62.5 | 16.0 | 78.5 | 380 | 13.2 | 298 |
| Greater Accra | 0.6 | 2.2 | 97.2 | 0.0 | 100.0 | 74.8 | 16.1 | 90.9 | 427 | 4.7 | 388 |
| Volta | 4.0 | 6.5 | 88.8 | 0.6 | 100.0 | 73.3 | 13.8 | 87.1 | 135 | 7.0 | 117 |
| Eastern | 5.0 | 3.0 | 91.9 | 0.0 | 100.0 | 76.9 | 12.7 | 89.6 | 252 | 11.1 | 225 |
| Ashanti | 5.8 | 9.4 | 84.8 | 0.0 | 100.0 | 63.0 | 25.3 | 88.2 | 666 | 16.0 | 587 |
| Western North | 5.7 | 9.5 | 84.8 | 0.0 | 100.0 | 69.3 | 13.6 | 82.9 | 101 | 12.0 | 83 |
| Ahafo | 4.0 | 7.6 | 85.5 | 2.8 | 100.0 | 70.1 | 19.3 | 89.3 | 81 | 10.8 | 72 |
| Bono | 6.2 | 13.5 | 80.3 | 0.0 | 100.0 | 78.8 | 11.2 | 89.9 | 117 | 10.8 | 105 |
| Bono East | 1.2 | 10.3 | 88.5 | 0.0 | 100.0 | 67.9 | 15.3 | 83.1 | 202 | 10.5 | 168 |
| Oti | 3.5 | 5.8 | 90.3 | 0.4 | 100.0 | 58.8 | 4.8 | 63.6 | 128 | 11.8 | 82 |
| Northern | 1.9 | 9.0 | 88.7 | 0.4 | 100.0 | 58.8 | 6.3 | 65.1 | 406 | 12.2 | 264 |
| Savannah | 5.4 | 12.3 | 82.2 | 0.2 | 100.0 | 51.0 | 4.7 | 55.7 | 111 | 7.8 | 62 |
| North East | 3.4 | 13.2 | 83.4 | 0.0 | 100.0 | 72.7 | 5.6 | 78.2 | 116 | 10.7 | 91 |
| Upper East | 10.4 | 11.6 | 76.9 | 1.1 | 100.0 | 83.4 | 5.6 | 89.0 | 196 | 12.3 | 174 |
| Upper West | 2.0 | 13.3 | 83.9 | 0.8 | 100.0 | 78.6 | 7.4 | 86.0 | 109 | 8.0 | 94 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 3.4 | 10.5 | 85.5 | 0.6 | 100.0 | 61.7 | 5.3 | 67.0 | 761 | 10.7 | 510 |
| Primary | 5.0 | 8.0 | 86.6 | 0.4 | 100.0 | 62.7 | 13.1 | 75.7 | 562 | 10.8 | 426 |
| Secondary | 4.1 | 8.4 | 87.2 | 0.2 | 100.0 | 70.6 | 16.1 | 86.7 | 1,979 | 11.6 | 1,715 |
| More than secondary | 2.8 | 7.2 | 89.9 | 0.0 | 100.0 | 67.6 | 31.4 | 99.0 | 336 | 9.7 | 333 |

Table 10.2 Possession and observation of vaccination cards
Percentage of children age 12-23 months and children age 24-35 months who ever had a vaccination card, and percentage with a vaccination card seen, according to background characteristics, Ghana DHS 2022

| Background characteristic | Children age 12-23 months |  |  | Children age 24-35 months |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who ever had a vaccination card ${ }^{1}$ | Percentage with a vaccination card seen ${ }^{1}$ | Number of children | Percentage who ever had a vaccination card ${ }^{1}$ | Percentage with a vaccination card seen ${ }^{1}$ | Number of children |
| Sex |  |  |  |  |  |  |
| Male | 98.1 | 88.1 | 928 | 97.6 | 80.8 | 764 |
| Female | 98.1 | 87.6 | 895 | 98.5 | 76.2 | 782 |
| Birth order ${ }^{2}$ |  |  |  |  |  |  |
| 1 | 99.2 | 85.2 | 529 | 98.1 | 69.3 | 380 |
| 2-3 | 97.8 | 88.3 | 663 | 98.8 | 78.3 | 623 |
| 4-5 | 97.2 | 91.0 | 401 | 97.1 | 83.6 | 355 |
| 6+ | 98.1 | 87.3 | 230 | 97.6 | 87.8 | 187 |
| Residence |  |  |  |  |  |  |
| Urban | 99.4 | 89.0 | 858 | 98.6 | 75.3 | 786 |
| Rural | 97.0 | 86.9 | 965 | 97.5 | 81.8 | 760 |
| Region |  |  |  |  |  |  |
| Western | 94.7 | 78.2 | 112 | 100.0 | 75.9 | 102 |
| Central | 100.0 | 85.5 | 193 | 100.0 | 80.6 | 152 |
| Greater Accra | 100.0 | 94.0 | 207 | 100.0 | 81.3 | 210 |
| Volta | 97.0 | 89.3 | 75 | 98.8 | 83.2 | 60 |
| Eastern | 98.9 | 87.4 | 115 | 97.7 | 72.7 | 115 |
| Ashanti | 100.0 | 91.7 | 359 | 100.0 | 72.2 | 255 |
| Western North | 100.0 | 93.9 | 51 | 100.0 | 86.4 | 41 |
| Ahafo | 94.6 | 86.3 | 38 | 96.8 | 77.1 | 36 |
| Bono | 100.0 | 89.7 | 62 | 95.2 | 83.8 | 56 |
| Bono East | 98.7 | 88.6 | 106 | 100.0 | 87.5 | 77 |
| Oti | 99.5 | 84.1 | 56 | 96.0 | 84.4 | 48 |
| Northern | 91.6 | 81.8 | 200 | 91.5 | 73.1 | 168 |
| Savannah | 98.8 | 91.4 | 50 | 96.5 | 86.9 | 52 |
| North East | 97.8 | 90.7 | 53 | 97.9 | 90.0 | 56 |
| Upper East | 98.2 | 80.5 | 87 | 95.6 | 68.4 | 74 |
| Upper West | 98.3 | 90.5 | 58 | 99.4 | 86.2 | 44 |
| Mother's education |  |  |  |  |  |  |
| No education | 93.1 | 84.7 | 390 | 95.1 | 80.5 | 376 |
| Primary | 99.1 | 87.2 | 291 | 99.1 | 82.5 | 231 |
| Secondary | 99.5 | 89.7 | 977 | 99.0 | 77.9 | 807 |
| More than secondary | 100.0 | 85.7 | 164 | 98.7 | 69.2 | 132 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 94.0 | 84.6 | 440 | 95.1 | 79.7 | 333 |
| Second | 98.8 | 87.2 | 384 | 98.7 | 80.5 | 337 |
| Middle | 99.1 | 91.0 | 377 | 99.4 | 76.8 | 300 |
| Fourth | 100.0 | 86.8 | 310 | 98.7 | 76.5 | 308 |
| Highest | 100.0 | 90.6 | 313 | 98.7 | 78.5 | 267 |
| Total | 98.1 | 87.9 | 1,823 | 98.1 | 78.5 | 1,546 |

[^23]Table 10.3 Vaccinations by source of information
Percentage of children age 12-23 months and children age 24-35 months who received specific vaccines at any time before the survey by source of information (vaccination card or mother's report), and percentage who received specific vaccines by the appropriate age, Ghana DHS 2022

| Vaccine | Children age 12-23 months |  |  |  | Children age 24-35 months |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vaccination card ${ }^{1}$ | Mother's report | Either source (crude coverage) | Vaccinated by appropriate age ${ }^{2,3,4}$ | Vaccination card ${ }^{1}$ | Mother's report | Either source (crude coverage) | Vaccinated by appropriate age ${ }^{2,3,4}$ |
| BCG | 85.2 | 10.1 | 95.3 | 95.0 | 76.1 | 18.9 | 95.0 | 94.4 |
| HepB (birth dose) ${ }^{5}$ | 11.0 | 6.6 | 17.5 | na | 9.7 | 10.9 | 20.6 | na |
| Within 1 day of birth | 2.0 | 4.7 | 6.7 | na | 1.5 | 8.8 | 10.3 | na |
| After 1 day of birth | 8.9 | 1.9 | 10.9 | na | 8.2 | 2.1 | 10.2 | na |
| DPT-HepB-Hib |  |  |  |  |  |  |  |  |
| 1 | 87.4 | 9.7 | 97.1 | 96.9 | 78.1 | 17.5 | 95.6 | 94.8 |
| 2 | 86.8 | 7.9 | 94.6 | 94.1 | 77.8 | 13.9 | 91.7 | 90.8 |
| 3 | 84.2 | 4.8 | 89.0 | 87.9 | 76.6 | 9.4 | 85.9 | 83.4 |
| Polio |  |  |  |  |  |  |  |  |
| OPV 0 (birth dose) | 67.5 | 8.7 | 76.2 | 76.0 | 57.9 | 17.5 | 75.4 | 74.7 |
| OPV 1 | 87.3 | 8.2 | 95.5 | 95.4 | 78.1 | 15.4 | 93.5 | 92.6 |
| OPV 2 | 86.0 | 5.5 | 91.5 | 91.1 | 77.3 | 10.8 | 88.1 | 87.2 |
| OPV 3 | 82.0 | 2.1 | 84.1 | 83.1 | 72.6 | 4.5 | 77.2 | 74.8 |
| IPV | 83.2 | 9.1 | 92.4 | 91.0 | 76.0 | 17.8 | 93.7 | 90.5 |
| Pneumococcal |  |  |  |  |  |  |  |  |
| 1 | 87.2 | 9.5 | 96.7 | 96.5 | 78.0 | 17.5 | 95.6 | 94.7 |
| 2 | 86.5 | 7.5 | 94.0 | 93.6 | 77.7 | 14.1 | 91.8 | 90.4 |
| 3 | 84.0 | 4.2 | 88.2 | 87.0 | 76.5 | 9.5 | 86.0 | 83.2 |
| Rotavirus |  |  |  |  |  |  |  |  |
| 1 | 86.8 | 8.9 | 95.8 | 95.6 | 77.7 | 16.6 | 94.3 | 93.4 |
| 2 | 84.9 | 7.6 | 92.5 | 91.8 | 75.8 | 13.4 | 89.2 | 87.2 |
| Yellow fever | 77.1 | 6.9 | 84.0 | 76.1 | 74.1 | 16.1 | 90.2 | 80.5 |
| Measles-rubella |  |  |  |  |  |  |  |  |
| 1 | 79.2 | 7.8 | 87.0 | 80.4 | 74.9 | 15.8 | 90.7 | 81.6 |
| 2 | na | na | na | na | 61.4 | 11.1 | 72.5 | 69.3 |
| Meningitis | 0.0 | 0.0 | 0.0 | na | 59.3 | 15.0 | 74.3 | 70.1 |
| Fully vaccinated (basic <br> antigens) ${ }^{6}$ |  |  |  |  |  |  |  |  |
| Fully vaccinated (according to national schedule) ${ }^{7}$ | 55.5 | 1.0 | 56.4 | 51.4 | 40.3 | 2.1 | 42.4 | 36.5 |
| No vaccinations | 0.1 | 1.9 | 2.0 | na | 0.1 | 2.2 | 2.3 | na |
| Number of children | 1,602 | 221 | 1,823 | 1,823 | 1,213 | 333 | 1,546 | 1,546 |

na $=$ not applicable
$B C G=$ bacille Calmette-Guérin
DPT = diphtheria-pertussis-tetanus
HepB = hepatitis B
Hib = Haemophilus influenzae type b
IPV = inactivated polio vaccine
OPV = oral polio vaccine
${ }^{1}$ Vaccination card, booklet, or other home-based record
${ }^{2}$ Received by age 12 months
${ }^{3}$ For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.
${ }^{4}$ Received by age 12 months for all vaccines except measles-rubella 2 vaccine, which should be received by age 24 months
${ }^{5}$ Children are considered to have received HepB (birth dose) if it was recorded on their card or reported by their mother, regardless of timing.
${ }^{6}$ BCG, three doses of DPT-Hep B-Hib, three doses of polio vaccine (excluding polio vaccine given at birth), and one dose of measles-rubella vaccine
${ }^{7}$ For children age 12-23 months: BCG, three doses of DPT-Hep B-Hib, four doses of OPV (including OPV given at birth), one dose of IPV, one dose of yellow fever vaccine, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of measles-rubella vaccine. For children age $24-35$ months: all of the vaccines just listed plus a second dose of measles-rubella vaccine and a dose of meningitis A vaccine.


|  |  |  |  |  |  |  |  |  |  | Childr | en age 1 | 2-23 mo | ths: |  |  |  |  |  |  |  |  | Child | dren age | 24-35 mon | nths: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | T-HepB |  |  |  | Polio |  |  |  | eumoco |  | Rota | virus |  |  | Fully vaccinated | Fully vaccinated according to |  |  |  |  | Fully vaccinated according to |  |
| Background characteristic | BCG | HepB (birth dose) ${ }^{1}$ | 1 | 2 | 3 | OPV 0 (birth dose) | OPV 1 | OPV 2 | OPV 3 | IPV | 1 | 2 | 3 | 1 | 2 | Measlesrubella 1 | Yellow fever | (basic antigens) ${ }^{2}$ | national schedule $^{3}$ | No vaccinations | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { children } \end{aligned}$ | Measles -rubella 2 | Meningitis | national schedule ${ }^{4}$ | Number of children |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 95.5 | 17.5 | 97.4 | 95.7 | 89.8 | 74.5 | 96.2 | 92.0 | 84.9 | 92.6 | 96.8 | 94.8 | 90.0 | 95.9 | 92.5 | 86.4 | 83.7 | 74.7 | 54.8 | 2.0 | 928 | 74.6 | 74.7 | 44.4 | 764 |
| Female | 95.1 | 17.6 | 96.7 | 93.6 | 88.2 | 78.0 | 94.8 | 91.1 | 83.3 | 92.2 | 96.6 | 93.2 | 86.4 | 95.6 | 92.4 | 87.6 | 84.3 | 74.6 | 58.2 | 2.0 | 895 | 70.4 | 74.0 | 40.4 | 782 |
| Birth order ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 97.1 | 20.3 | 97.2 | 94.0 | 86.9 | 80.8 | 95.7 | 91.9 | 84.0 | 92.1 | 97.4 | 93.6 | 86.7 | 96.6 | 93.8 | 88.7 | 84.8 | 75.8 | 60.1 | 1.7 | 529 | 72.4 | 74.2 | 42.5 | 380 |
| 2-3 | 94.3 | 16.5 | 96.9 | 94.7 | 90.1 | 79.1 | 95.6 | 91.2 | 84.3 | 93.6 | 96.0 | 94.2 | 88.7 | 95.4 | 91.7 | 86.7 | 82.8 | 74.4 | 58.3 | 2.0 | 663 | 75.8 | 78.2 | 46.8 | 623 |
| 4-5 | 94.6 | 16.5 | 96.6 | 94.6 | 90.0 | 70.3 | 94.9 | 92.7 | 86.0 | 91.1 | 96.4 | 92.8 | 88.6 | 94.7 | 91.7 | 86.1 | 84.7 | 76.3 | 54.5 | 2.4 | 401 | 69.0 | 69.5 | 40.5 | 355 |
| $6+$ | 95.5 | 16.0 | 98.0 | 96.0 | 88.9 | 67.4 | 95.9 | 89.3 | 80.7 | 91.6 | 97.6 | 96.4 | 90.0 | 96.6 | 93.0 | 85.5 | 84.6 | 69.4 | 46.2 | 1.8 | 230 | 68.4 | 70.7 | 31.2 | 187 |
| Vaccination card ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seen | 97.0 | 12.5 | 99.5 | 98.7 | 95.8 | 76.8 | 99.3 | 97.8 | 93.3 | 94.7 | 99.3 | 98.5 | 95.6 | 98.8 | 96.6 | 90.2 | 87.7 | 83.1 | 63.1 | 0.1 | 1,602 | 78.2 | 75.6 | 51.4 | 1,213 |
| Not seen or no longer has | 93.0 | 60.0 | 88.7 | 74.4 | 44.5 | 79.7 | 78.1 | 53.4 | 20.2 | 84.2 | 87.0 | 69.6 | 39.6 | 83.5 | 72.2 | 71.5 | 65.0 | 15.1 | 9.0 | 6.6 | 187 | 55.2 | 74.3 | 10.8 | 303 |
| Never had | (29.2) | (22.0) | (30.3) | (14.5) | (12.6) | (26.4) | (11.9) | (3.4) | (3.4) | (26.4) | (29.5) | (17.4) | (8.7) | (21.0) | (11.6) | (23.0) | (14.7) | (3.4) | (3.4) | (65.4) | 34 | (14.1) | (23.7) | (0.0) | 30 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 97.9 | 18.2 | 98.1 | 96.0 | 91.4 | 82.6 | 97.2 | 94.0 | 86.9 | 94.3 | 97.9 | 95.6 | 88.8 | 96.9 | 93.9 | 88.0 | 85.4 | 78.5 | 63.3 | 1.0 | 858 | 69.3 | 72.2 | 43.7 | 786 |
| Rural | 93.0 | 16.9 | 96.1 | 93.5 | 86.9 | 70.5 | 94.1 | 89.3 | 81.6 | 90.6 | 95.6 | 92.6 | 87.7 | 94.7 | 91.2 | 86.1 | 82.8 | 71.2 | 50.4 | 2.9 | 965 | 75.7 | 76.6 | 41.1 | 760 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 93.2 | 13.6 | 93.5 | 91.3 | 82.8 | 61.4 | 92.5 | 86.8 | 73.6 | 87.9 | 93.0 | 93.0 | 78.9 | 91.4 | 88.9 | 77.3 | 71.8 | 62.5 | 42.4 | 4.5 | 112 | 54.9 | 56.9 | 31.5 | 102 |
| Central | 99.1 | 10.6 | 100.0 | 98.2 | 93.4 | 72.5 | 100.0 | 100.0 | 88.9 | 92.8 | 96.5 | 95.8 | 88.0 | 96.6 | 95.0 | 85.3 | 83.3 | 77.8 | 54.9 | 0.0 | 193 | 71.4 | 71.0 | 36.9 | 152 |
| Greater Accra | 98.8 | 12.0 | 97.7 | 97.2 | 94.0 | 89.2 | 97.7 | 95.0 | 88.8 | 96.9 | 98.8 | 96.8 | 93.2 | 97.7 | 95.8 | 94.7 | 92.3 | 85.6 | 72.0 | 1.2 | 207 | 85.5 | 86.5 | 59.6 | 210 |
| Volta | 99.1 | 28.7 | 100.0 | 95.2 | 87.6 | 89.9 | 97.5 | 93.1 | 86.4 | 94.3 | 100.0 | 94.3 | 89.9 | 98.8 | 91.8 | 90.7 | 86.9 | 79.6 | 70.6 | 0.0 | 75 | 88.6 | 88.6 | 73.3 | 60 |
| Eastern | 90.5 | 16.4 | 96.4 | 96.4 | 85.4 | 83.7 | 93.1 | 89.9 | 84.3 | 89.6 | 96.4 | 96.4 | 85.4 | 96.4 | 96.4 | 81.5 | 78.1 | 70.3 | 61.9 | 2.1 | 115 | 70.3 | 74.9 | 44.6 | 115 |
| Ashanti | 97.2 | 13.3 | 99.4 | 97.9 | 92.7 | 79.0 | 99.3 | 95.0 | 89.9 | 95.9 | 99.4 | 96.9 | 94.8 | 98.5 | 97.2 | 91.9 | 88.6 | 80.3 | 63.8 | 0.0 | 359 | 66.8 | 72.3 | 40.9 | 255 |
| Western North | 97.7 | 16.9 | 99.1 | 97.2 | 94.2 | 71.1 | 98.1 | 95.9 | 94.2 | 99.1 | 99.1 | 97.2 | 94.2 | 97.2 | 96.3 | 93.9 | 92.5 | 87.7 | 62.0 | 0.0 | 51 | 80.6 | 79.7 | 40.3 | 41 |
| Ahafo | 88.8 | 12.5 | 91.7 | 90.5 | 88.5 | 68.2 | 88.6 | 85.5 | 78.5 | 86.9 | 91.7 | 90.5 | 85.9 | 91.0 | 88.9 | 84.1 | 85.4 | 70.8 | 53.8 | 8.3 | 38 | 85.5 | 79.0 | 49.4 | 36 |
| Bono | 98.6 | 16.2 | 100.0 | 97.3 | 93.3 | 94.6 | 96.1 | 94.8 | 82.1 | 93.8 | 98.8 | 96.1 | 94.5 | 98.8 | 93.8 | 90.9 | 89.8 | 75.3 | 65.2 | 0.0 | 62 | 81.0 | 79.7 | 49.2 | 56 |
| Bono East | 97.7 | 10.8 | 98.9 | 96.4 | 89.7 | 73.5 | 95.8 | 91.8 | 84.6 | 97.7 | 98.9 | 96.6 | 90.4 | 98.3 | 95.2 | 91.9 | 89.0 | 77.8 | 55.5 | 0.7 | 106 | 71.1 | 77.5 | 41.7 | 77 |
| Oti | 94.9 | 28.4 | 98.2 | 96.1 | 91.5 | 73.7 | 94.5 | 91.9 | 84.2 | 94.7 | 99.5 | 94.7 | 88.4 | 98.5 | 90.8 | 87.4 | 83.6 | 73.7 | 53.3 | 0.5 | 56 | 82.0 | 84.5 | 49.2 | 48 |
| Northern | 86.1 | 22.4 | 89.1 | 83.4 | 77.3 | 59.2 | 86.6 | 78.7 | 72.8 | 81.1 | 88.7 | 83.9 | 75.7 | 87.0 | 80.4 | 72.6 | 68.5 | 55.8 | 31.2 | 9.0 | 200 | 56.5 | 54.6 | 18.5 | 168 |
| Savannah | 94.9 | 6.9 | 96.3 | 93.7 | 83.4 | 60.9 | 94.9 | 90.0 | 74.3 | 90.7 | 96.5 | 95.5 | 82.9 | 94.5 | 87.0 | 86.4 | 87.1 | 67.6 | 41.8 | 1.6 | 50 | 66.2 | 65.2 | 33.1 | 52 |
| North East | 96.3 | 32.2 | 95.4 | 93.2 | 89.9 | 68.7 | 95.7 | 90.1 | 84.7 | 90.8 | 95.0 | 91.1 | 89.2 | 94.8 | 89.3 | 87.2 | 86.4 | 78.4 | 52.3 | 2.7 | 53 | 82.5 | 79.5 | 39.3 | 56 |
| Upper East | 93.6 | 55.8 | 98.2 | 91.0 | 84.6 | 88.2 | 91.4 | 83.9 | 77.7 | 91.1 | 98.0 | 87.8 | 83.4 | 98.0 | 88.8 | 92.2 | 85.9 | 70.4 | 55.4 | 1.2 | 87 | 74.8 | 84.1 | 39.8 | 74 |
| Upper West | 95.7 | 10.0 | 97.3 | 95.2 | 93.0 | 78.9 | 97.0 | 93.6 | 85.3 | 92.3 | 96.6 | 94.6 | 92.4 | 93.2 | 91.8 | 84.6 | 82.3 | 74.7 | 56.0 | 1.7 | 58 | 86.2 | 90.2 | 58.4 | 44 |


| Table 10.4-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | BCG | $\begin{gathered} \text { HepB } \\ \text { (birth } \\ \text { dose) }{ }^{1} \end{gathered}$ | Children age 12-23 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Children age 12-23 months |  |  |  |
|  |  |  | DPT-HepB-Hib |  |  | Polio |  |  |  |  | Pneumococcal |  |  | Rotavirus |  | Measlesrubella 1 | Yellow | Fully vaccinated (basic antigens) ${ }^{2}$ | Fully vaccinated according to national schedule $^{3}$ | $\begin{gathered} \mathrm{No} \\ \text { vacci- } \\ \text { nations } \end{gathered}$ | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { children } \end{aligned}$ | Measlesrubella 2 | $\begin{gathered} \text { Menin- } \\ \text { gitis } \\ \hline \end{gathered}$ | Fully vaccinated according to national schedule ${ }^{4}$ | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { children } \end{gathered}$ |
|  |  |  | 1 | 2 | 3 | $\begin{aligned} & \text { OPV 0 } \\ & \text { (birth } \\ & \text { dose) } \\ & \hline \end{aligned}$ | OPV 1 | OPV 2 | OPV 3 | IPV | 1 | 2 | 3 | 1 | 2 |  |  |  |  |  |  |  |  |  |  |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 89.8 | 18.7 | 91.9 | 88.1 | 82.8 | 62.1 | 90.1 | 84.8 | 77.2 | 86.0 | 91.8 | 88.1 | 81.1 | 89.9 | 84.4 | 76.9 | 75.9 | 63.6 | 41.8 | 6.5 | 390 | 69.4 | 70.3 | 28.4 | 376 |
| Primary | 96.8 | 14.6 | 98.6 | 97.4 | 88.9 | 77.4 | 96.8 | 89.6 | 81.7 | 94.5 | 98.3 | 96.2 | 88.8 | 97.0 | 94.7 | 87.6 | 83.6 | 72.2 | 51.7 | 0.6 | 291 | 66.3 | 67.4 | 42.3 | 231 |
| Secondary | 96.5 | 17.4 | 98.7 | 96.4 | 91.0 | 78.6 | 97.4 | 94.3 | 86.7 | 93.7 | 98.1 | 95.7 | 90.5 | 97.9 | 94.9 | 89.6 | 85.8 | 77.7 | 59.4 | 0.7 | 977 | 74.5 | 76.3 | 46.8 | 807 |
| More than secondary | 98.5 | 20.6 | 96.6 | 94.9 | 92.2 | 93.2 | 95.1 | 94.3 | 89.2 | 95.6 | 97.1 | 94.0 | 90.7 | 94.9 | 93.2 | 94.5 | 93.1 | 86.7 | 82.0 | 1.5 | 164 | 80.0 | 86.4 | 56.1 | 132 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 90.8 | 19.4 | 93.0 | 89.5 | 83.4 | 63.8 | 90.0 | 84.1 | 77.1 | 86.0 | 92.6 | 88.9 | 82.1 | 91.5 | 86.4 | 81.0 | 80.1 | 66.2 | 42.0 | 5.8 | 440 | 73.0 | 75.2 | 29.8 | 333 |
| Second | 95.8 | 15.2 | 98.0 | 95.3 | 88.2 | 74.3 | 96.5 | 92.5 | 81.6 | 93.1 | 97.7 | 94.9 | 90.3 | 97.2 | 94.4 | 86.2 | 81.7 | 71.0 | 52.5 | 0.9 | 384 | 70.3 | 70.4 | 37.6 | 337 |
| Middle | 98.0 | 19.2 | 98.6 | 96.9 | 91.3 | 78.9 | 97.8 | 93.6 | 88.3 | 95.3 | 98.6 | 96.3 | 91.2 | 96.9 | 93.8 | 84.7 | 80.5 | 74.7 | 57.1 | 0.6 | 377 | 70.1 | 71.2 | 46.5 | 300 |
| Fourth | 97.9 | 18.5 | 98.4 | 95.2 | 89.4 | 80.9 | 96.5 | 93.0 | 88.3 | 93.2 | 97.5 | 94.1 | 86.7 | 96.5 | 92.0 | 91.0 | 89.6 | 80.6 | 64.1 | 0.3 | 310 | 72.3 | 75.3 | 45.5 | 308 |
| Highest | 95.3 | 14.9 | 98.5 | 97.9 | 94.7 | 88.1 | 98.3 | 96.7 | 88.1 | 96.0 | 98.2 | 97.4 | 92.3 | 97.9 | 97.5 | 95.4 | 90.9 | 84.8 | 73.3 | 1.3 | 313 | 77.3 | 80.5 | 56.1 | 267 |
| Total | 95.3 | 17.5 | 97.1 | 94.6 | 89.0 | 76.2 | 95.5 | 91.5 | 84.1 | 92.4 | 96.7 | 94.0 | 88.2 | 95.8 | 92.5 | 87.0 | 84.0 | 74.6 | 56.4 | 2.0 | 1,823 | 72.5 | 74.3 | 42.4 | 1,546 |
| Note: Children are considered to have received the vaccine if it was either written on the child's vaccination card or reported by the mother. For children whose vaccination information is based on The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination. Figures in parentheses are based <br> $B C G=$ bacille Calmette-Guérin <br> DPT = diphtheria-pertussis-tetanus <br> HepB = hepatitis $B$ <br> Hib = Haemophilus influenzae type b <br> OPV = oral polio vaccine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IPV = inactivated polio vaccine <br> ${ }^{1}$ Children are considered to have received HepB (birth dose) if it was recorded on their card or reported by their mother, regardless of timin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{3}$ BCG, three doses of DPT-Hep B-Hib, four doses of OPV (including OPV given at birth), one dose of IPV, one dose of yellow fever vaccine, three doses of pneumococcal vaccine, two dose vaccine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{4}$ BCG, three doses of DPT-Hep B-Hib, four doses of OPV (including OPV given at birth), one dose of IPV, one dose of yellow fever vaccine, three doses of pneumococcal vaccine, two doses of and one dose of meningitis A vaccine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 10.5 Source of vaccinations
Among children age 12-23 months and children age 24-35 months who received at least one vaccination, percent distribution by source of most vaccinations, according to background characteristics, Ghana DHS 2022

|  | Children age 12-23 months who received at least one vaccination |  |  |  |  |  | Children age 24-35 months who received at least one vaccination |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Public medical sector | Private medical sector (nonNGO) | Private medical sector (NGO) | Other | Total | Number of children | Public medical sector | Private medical sector (nonNGO) | Private medical sector (NGO) | Other | Total | Number of children |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 93.2 | 6.4 | 0.3 | 0.1 | 100.0 | 909 | 93.0 | 6.3 | 0.0 | 0.6 | 100.0 | 748 |
| Female | 93.2 | 6.7 | 0.1 | 0.0 | 100.0 | 878 | 94.4 | 5.6 | 0.0 | 0.0 | 100.0 | 762 |
| Birth order ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 91.9 | 8.0 | 0.1 | 0.0 | 100.0 | 519 | 96.2 | 3.8 | 0.0 | 0.0 | 100.0 | 368 |
| 2-3 | 92.1 | 7.3 | 0.5 | 0.2 | 100.0 | 650 | 91.4 | 8.1 | 0.0 | 0.5 | 100.0 | 615 |
| 4-5 | 95.6 | 4.4 | 0.0 | 0.0 | 100.0 | 392 | 94.1 | 5.9 | 0.0 | 0.0 | 100.0 | 346 |
| $6+$ | 95.4 | 4.6 | 0.0 | 0.0 | 100.0 | 226 | 96.0 | 3.0 | 0.0 | 1.0 | 100.0 | 182 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 90.8 | 8.7 | 0.4 | 0.1 | 100.0 | 850 | 91.2 | 8.4 | 0.0 | 0.4 | 100.0 | 772 |
| Rural | 95.4 | 4.6 | 0.0 | 0.0 | 100.0 | 937 | 96.3 | 3.4 | 0.0 | 0.2 | 100.0 | 738 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 87.5 | 12.5 | 0.0 | 0.0 | 100.0 | 107 | 97.5 | 2.5 | 0.0 | 0.0 | 100.0 | 102 |
| Central | 94.8 | 3.9 | 1.2 | 0.0 | 100.0 | 193 | 96.3 | 3.7 | 0.0 | 0.0 | 100.0 | 152 |
| Greater Accra | 92.3 | 7.7 | 0.0 | 0.0 | 100.0 | 204 | 89.6 | 10.4 | 0.0 | 0.0 | 100.0 | 210 |
| Volta | 91.4 | 7.6 | 0.0 | 1.0 | 100.0 | 75 | 97.5 | 2.5 | 0.0 | 0.0 | 100.0 | 60 |
| Eastern | 96.2 | 3.8 | 0.0 | 0.0 | 100.0 | 112 | 94.1 | 5.9 | 0.0 | 0.0 | 100.0 | 111 |
| Ashanti | 89.5 | 10.5 | 0.0 | 0.0 | 100.0 | 359 | 87.7 | 11.1 | 0.0 | 1.2 | 100.0 | 252 |
| Western North | 90.3 | 9.7 | 0.0 | 0.0 | 100.0 | 51 | 89.7 | 10.3 | 0.0 | 0.0 | 100.0 | 40 |
| Ahafo | 97.6 | 2.4 | 0.0 | 0.0 | 100.0 | 34 | 96.8 | 3.2 | 0.0 | 0.0 | 100.0 | 33 |
| Bono | 90.5 | 9.5 | 0.0 | 0.0 | 100.0 | 62 | 95.5 | 4.5 | 0.0 | 0.0 | 100.0 | 55 |
| Bono East | 94.5 | 5.5 | 0.0 | 0.0 | 100.0 | 105 | 90.1 | 9.9 | 0.0 | 0.0 | 100.0 | 76 |
| Oti | 96.3 | 3.1 | 0.6 | 0.0 | 100.0 | 55 | 96.2 | 3.8 | 0.0 | 0.0 | 100.0 | 47 |
| Northern | 98.4 | 1.6 | 0.0 | 0.0 | 100.0 | 182 | 98.2 | 0.6 | 0.0 | 1.2 | 100.0 | 150 |
| Savannah | 98.2 | 1.4 | 0.0 | 0.4 | 100.0 | 49 | 99.3 | 0.7 | 0.0 | 0.0 | 100.0 | 50 |
| North East | 96.9 | 1.9 | 1.1 | 0.0 | 100.0 | 52 | 98.4 | 1.1 | 0.5 | 0.0 | 100.0 | 55 |
| Upper East | 90.2 | 9.8 | 0.0 | 0.0 | 100.0 | 86 | 93.6 | 6.4 | 0.0 | 0.0 | 100.0 | 73 |
| Upper West | 99.5 | 0.5 | 0.0 | 0.0 | 100.0 | 57 | 98.9 | 1.1 | 0.0 | 0.0 | 100.0 | 44 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 95.6 | 4.3 | 0.0 | 0.1 | 100.0 | 364 | 97.4 | 2.1 | 0.0 | 0.5 | 100.0 | 358 |
| Primary | 93.8 | 6.1 | 0.1 | 0.0 | 100.0 | 290 | 95.4 | 4.6 | 0.0 | 0.0 | 100.0 | 228 |
| Secondary | 92.1 | 7.6 | 0.2 | 0.1 | 100.0 | 971 | 93.6 | 6.0 | 0.0 | 0.4 | 100.0 | 797 |
| More than secondary | 93.5 | 6.1 | 0.4 | 0.0 | 100.0 | 162 | 81.0 | 19.0 | 0.0 | 0.0 | 100.0 | 128 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 95.6 | 4.4 | 0.0 | 0.0 | 100.0 | 415 | 97.1 | 2.9 | 0.0 | 0.0 | 100.0 | 318 |
| Second | 96.5 | 3.4 | 0.1 | 0.0 | 100.0 | 380 | 95.8 | 3.6 | 0.0 | 0.5 | 100.0 | 329 |
| Middle | 93.5 | 6.5 | 0.0 | 0.0 | 100.0 | 375 | 95.1 | 3.8 | 0.0 | 1.0 | 100.0 | 294 |
| Fourth | 90.3 | 9.4 | 0.0 | 0.3 | 100.0 | 309 | 92.8 | 7.1 | 0.1 | 0.0 | 100.0 | 306 |
| Highest | 88.5 | 10.5 | 1.0 | 0.0 | 100.0 | 309 | 86.3 | 13.7 | 0.0 | 0.0 | 100.0 | 264 |
| Total | 93.2 | 6.5 | 0.2 | 0.1 | 100.0 | 1,787 | 93.7 | 6.0 | 0.0 | 0.3 | 100.0 | 1,510 |

${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.

Table 10.6 Children with symptoms of ARI and care seeking for symptoms of ARI
Among children under age 5 , percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey, and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among children under age 5: |  | Among children under age 5 with symptoms of ARI: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with symptoms of $A R I^{1}$ | Number of children | Percentage for whom advice or treatment was sought $^{2}$ | Percentage for whom advice or treatment was sought the same or next day ${ }^{2}$ | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 1.4 | 850 | * | * | 12 |
| 6-11 | 1.6 | 868 | * | * | 14 |
| 12-23 | 2.8 | 1,823 | 61.6 | 28.2 | 50 |
| 24-35 | 2.6 | 1,546 | 64.4 | 20.1 | 40 |
| 36-47 | 1.9 | 1,632 | (46.0) | (25.4) | 31 |
| 48-59 | 2.1 | 1,596 | (37.9) | (10.7) | 34 |
| Sex |  |  |  |  |  |
| Male | 2.4 | 4,240 | 58.2 | 20.3 | 100 |
| Female | 2.0 | 4,075 | 48.9 | 22.8 | 81 |
| Mother's smoking status |  |  |  |  |  |
| Smokes cigarettes/tobacco | 1.5 | 78 | * | * | 1 |
| Does not smoke | 2.2 | 8,237 | 53.8 | 21.5 | 180 |
| Cooking fuels and technologies |  |  |  |  |  |
| Clean fuel and technology ${ }^{3}$ | 1.4 | 1,774 | * | * | 25 |
| Solid fuel ${ }^{4}$ | 2.4 | 6,522 | 57.5 | 23.0 | 156 |
| No food cooked in household | * | 18 | * | * | 0 |
| Residence |  |  |  |  |  |
| Urban | 1.5 | 4,048 | 44.6 | 19.5 | 62 |
| Rural | 2.8 | 4,267 | 59.0 | 22.4 | 119 |
| Region |  |  |  |  |  |
| Western | 1.9 | 515 | * | * | 10 |
| Central | 3.1 | 841 | * | * | 26 |
| Greater Accra | 0.9 | 1,057 | * | * | 9 |
| Volta | 4.5 | 313 | * | * | 14 |
| Eastern | 1.0 | 611 | * | * | 6 |
| Ashanti | 1.4 | 1,495 | * | * | 21 |
| Western North | 2.0 | 222 | * | * | 5 |
| Ahafo | 3.4 | 186 | * | * | 6 |
| Bono | 1.0 | 277 | * | * | 3 |
| Bono East | 2.7 | 437 | * | * | 12 |
| Oti | 1.7 | 276 | * | * | 5 |
| Northern | 4.1 | 923 | (70.8) | (22.4) | 38 |
| Savannah | 2.4 | 247 | * | * | 6 |
| North East | 5.3 | 267 | (54.7) | (15.9) | 14 |
| Upper East | 1.3 | 406 | * | * | 5 |
| Upper West | 0.7 | 242 | * | * | 2 |
| Mother's education |  |  |  |  |  |
| No education | 3.6 | 1,922 | 60.2 | 22.5 | 69 |
| Primary | 2.6 | 1,250 | (56.5) | (30.3) | 33 |
| Secondary | 1.7 | 4,348 | 44.6 | 16.0 | 74 |
| More than secondary | 0.7 | 794 | * | * | 5 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 3.1 | 1,966 | 60.8 | 20.1 | 62 |
| Second | 3.0 | 1,690 | 66.8 | 30.7 | 50 |
| Middle | 1.2 | 1,614 | * | * | 19 |
| Fourth | 2.1 | 1,584 | (38.7) | (15.9) | 33 |
| Highest | 1.2 | 1,460 |  | * | 17 |
| Total | 2.2 | 8,315 | 54.1 | 21.4 | 181 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
NGO = nongovernmental organisation
${ }^{1}$ Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.
${ }^{2}$ Includes advice or treatment from the following sources: public sector, private medical sector, NGO medical sector, shop, market, and medicines peddler. Excludes advice or treatment from a traditional practitioner.
${ }^{3}$ Includes stoves/cookers using electricity, liquefied petroleum gas (LPG)/natural gas/biogas, solar, and alcohol/ethanol
${ }^{4}$ Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, animal dung/waste, processed biomass (pellets) or woodchips, garbage/plastic, and sawdust

Table 10.7 Source of advice or treatment for children with symptoms of ARI
Percentage of children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Ghana DHS 2022

|  | $\begin{array}{c}\text { Percentage for whom advice or } \\ \text { treatment was sought from } \\ \text { each source: }\end{array}$ |  |
| :--- | ---: | :---: |
|  | $\begin{array}{c}\text { Among children } \\ \text { with symptoms }\end{array}$ |  |
|  | $\begin{array}{c}\text { Among } \\ \text { children with } \\ \text { symptoms of for }\end{array}$ |  |
| whom advice |  |  |
| or treatment |  |  |
| was sought ${ }^{1}$ |  |  |$]$

Note: Advice or treatment for children with symptoms of ARI may have been sought from more than one source.
CHPS = community-based health planning and services
NGO = nongovernmental organisation
${ }^{1}$ Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

Table 10.8 Children with fever and care seeking for fever
Among children under age 5 , percentage who had a fever in the 2 weeks preceding the survey, and among children with a fever in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, percentage for whom advice or treatment was sought the same or next day following the onset of fever, and percentage who received antibiotics as treatment, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among children under age 5: |  | Among children under age 5 with fever: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with fever | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage for whom advice or treatment was sought the same or next day ${ }^{1}$ | Percentage who took antibiotics | Number of children with fever |
| Age in months |  |  |  |  |  |  |
| <6 | 5.8 | 850 | 46.9 | 29.6 | 23.6 | 49 |
| 6-11 | 14.8 | 868 | 52.8 | 29.5 | 30.5 | 129 |
| 12-23 | 17.9 | 1,823 | 55.9 | 29.9 | 26.7 | 327 |
| 24-35 | 16.8 | 1,546 | 62.7 | 33.2 | 30.8 | 260 |
| 36-47 | 16.1 | 1,632 | 49.9 | 28.2 | 29.4 | 263 |
| 48-59 | 14.0 | 1,596 | 65.8 | 43.5 | 18.3 | 224 |
| Sex |  |  |  |  |  |  |
| Male | 14.8 | 4,240 | 60.4 | 32.1 | 30.2 | 627 |
| Female | 15.3 | 4,075 | 53.9 | 33.1 | 23.5 | 625 |
| Residence |  |  |  |  |  |  |
| Urban | 12.1 | 4,048 | 49.7 | 29.2 | 25.7 | 490 |
| Rural | 17.9 | 4,267 | 61.9 | 34.8 | 27.6 | 762 |
| Region |  |  |  |  |  |  |
| Western | 12.3 | 515 | 67.0 | 43.1 | 37.9 | 63 |
| Central | 18.0 | 841 | 34.9 | 17.6 | 26.4 | 151 |
| Greater Accra | 8.7 | 1,057 | (27.0) | (11.9) | (37.1) | 92 |
| Volta | 14.6 | 313 | 71.5 | 49.2 | 25.6 | 46 |
| Eastern | 6.3 | 611 | (79.6) | (46.7) | (31.8) | 38 |
| Ashanti | 17.1 | 1,495 | 56.3 | 39.5 | 22.0 | 255 |
| Western North | 14.3 | 222 | 51.4 | 26.7 | 13.1 | 32 |
| Ahafo | 12.1 | 186 | 62.5 | 43.1 | 15.5 | 22 |
| Bono | 9.3 | 277 | (59.7) | (20.3) | (23.9) | 26 |
| Bono East | 13.6 | 437 | 56.3 | 20.2 | 49.6 | 59 |
| Oti | 27.2 | 276 | 76.1 | 49.5 | 29.4 | 75 |
| Northern | 21.6 | 923 | 61.1 | 34.5 | 18.5 | 199 |
| Savannah | 17.2 | 247 | 58.9 | 33.8 | 14.8 | 43 |
| North East | 22.1 | 267 | 70.8 | 36.8 | 28.2 | 59 |
| Upper East | 17.3 | 406 | 70.9 | 26.4 | 34.6 | 70 |
| Upper West | 8.5 | 242 | 65.6 | 29.6 | 43.6 | 21 |
| Mother's education |  |  |  |  |  |  |
| No education | 19.1 | 1,922 | 56.9 | 33.2 | 22.3 | 366 |
| Primary | 17.0 | 1,250 | 54.7 | 28.1 | 27.7 | 213 |
| Secondary | 13.7 | 4,348 | 56.4 | 32.0 | 27.0 | 596 |
| More than secondary | 9.7 | 794 | 70.7 | 46.8 | 45.2 | 77 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 20.6 | 1,966 | 59.3 | 28.4 | 27.4 | 404 |
| Second | 15.7 | 1,690 | 62.6 | 41.6 | 23.2 | 265 |
| Middle | 14.2 | 1,614 | 55.7 | 29.4 | 26.9 | 230 |
| Fourth | 13.2 | 1,584 | 46.1 | 29.9 | 27.2 | 209 |
| Highest | 9.8 | 1,460 | 59.3 | 36.7 | 31.7 | 144 |
| Total | 15.1 | 8,315 | 57.1 | 32.6 | 26.9 | 1,252 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes advice or treatment from the following sources: public sector, private medical sector, nongovernmental organisation medical sector, shop, market, and medicines peddler. Excludes advice or treatment from a traditional practitioner.

Table 10.9 Children with diarrhoea and care seeking for diarrhoea
Percentage of children under age 5 who had diarrhoea in the 2 weeks preceding the survey, and among children with diarrhoea in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage with diarrhoea | Number of children | Among children under age 5 with diarrhoea: |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Percentage for whom advice or treatment was sought ${ }^{1}$ | Number of children with diarrhoea |
| Age in months |  |  |  |  |
| <6 | 9.3 | 850 | 30.6 | 79 |
| 6-11 | 16.8 | 868 | 52.8 | 146 |
| 12-23 | 19.2 | 1,823 | 49.0 | 349 |
| 24-35 | 13.1 | 1,546 | 55.0 | 203 |
| 36-47 | 9.3 | 1,632 | 46.5 | 152 |
| 48-59 | 7.8 | 1,596 | 62.6 | 125 |
| Sex |  |  |  |  |
| Male | 13.2 | 4,240 | 51.1 | 560 |
| Female | 12.1 | 4,075 | 50.0 | 493 |
| Source of drinking water ${ }^{2}$ |  |  |  |  |
| Improved | 13.4 | 4,496 | 52.1 | 602 |
| Unimproved | 10.1 | 237 | 50.0 | 24 |
| Surface | 17.4 | 956 | 54.6 | 167 |
| Type of toilet facility ${ }^{3}$ |  |  |  |  |
| Improved sanitation facility | 11.6 | 4,864 | 46.4 | 565 |
| Unimproved facility | 10.6 | 1,037 | 54.1 | 110 |
| Open defecation | 15.7 | 2,414 | 55.8 | 379 |
| Residence |  |  |  |  |
| Urban | 10.9 | 4,048 | 47.3 | 443 |
| Rural | 14.3 | 4,267 | 52.9 | 611 |
| Region |  |  |  |  |
| Western | 4.9 | 515 | * | 25 |
| Central | 15.3 | 841 | 35.4 | 128 |
| Greater Accra | 7.0 | 1,057 | (15.6) | 74 |
| Volta | 9.1 | 313 | (74.6) | 29 |
| Eastern | 9.2 | 611 | (52.9) | 56 |
| Ashanti | 16.0 | 1,495 | 44.5 | 240 |
| Western North | 11.9 | 222 | 44.6 | 26 |
| Ahafo | 9.6 | 186 | 55.7 | 18 |
| Bono | 8.1 | 277 | (36.5) | 23 |
| Bono East | 15.3 | 437 | 48.2 | 67 |
| Oti | 14.4 | 276 | 69.1 | 40 |
| Northern | 18.8 | 923 | 68.7 | 173 |
| Savannah | 22.0 | 247 | 59.4 | 54 |
| North East | 18.0 | 267 | 59.1 | 48 |
| Upper East | 9.1 | 406 | 56.1 | 37 |
| Upper West | 6.4 | 242 | (66.7) | 16 |
| Mother's education |  |  |  |  |
| No education | 15.8 | 1,922 | 57.8 | 303 |
| Primary | 14.7 | 1,250 | 46.4 | 184 |
| Secondary | 11.8 | 4,348 | 47.1 | 512 |
| More than secondary | 6.8 | 794 | 56.6 | 54 |
| Wealth quintile |  |  |  |  |
| Lowest | 15.0 | 1,966 | 57.6 | 294 |
| Second | 14.1 | 1,690 | 53.8 | 239 |
| Middle | 13.3 | 1,614 | 39.7 | 215 |
| Fourth | 12.1 | 1,584 | 43.8 | 191 |
| Highest | 7.8 | 1,460 | 57.3 | 114 |
| Total | 12.7 | 8,315 | 50.5 | 1,054 |

Note: Advice or treatment for children with diarrhoea may have been sought from more than one source. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed
1 Includes advice or treatment from the following sources: public sector, private medical sector, nongovernmental organisation medical sector, shop, market, and medicines peddler. Excludes advice or treatment from a traditional practitioner.
${ }^{2}$ See Table 16.1 for definition of categories.
${ }^{3}$ See Table 16.6 for definition of categories.
Table 10.10 Feeding practices during diarrhoea


|  |  |  | Am | unt of liquids |  |  |  | Amount of food given |  |  |  |  |  |  |  | Number of children with diarrhoea |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | More | Same as usual | Somewhat less | Much less | None | Don't know/ missing | Total | More | Same as usual | Somewhat less | Much less | None | Never gave food | Don't know/ missing | Total |  |  |  |

Background
characteristic
Age in months
<6 6
Nペ~N
Sex
Male
Me
Breastfeeding status Breastfeeding
Not breastfeeding Residence N்


| Table 10.10-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Amount of liquids given |  |  |  |  |  |  | Amount of food given |  |  |  |  |  |  |  | Number of children with diarrhoea |
| Background characteristic | More | Same as usual | Somewhat less | Much less | None | Don't know/ missing | Total | More | Same as | Somewhat less | Much less | None | $\begin{gathered} \text { Never } \\ \text { gave food } \\ \hline \end{gathered}$ | Don't know/ missing | Total |  |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 23.8 | 22.1 | 25.5 | 26.6 | 2.0 | 0.0 | 100.0 | 7.8 | 21.8 | 28.5 | 32.9 | 1.9 | 7.3 | 0.0 | 100.0 | 294 |
| Second | 29.5 | 33.9 | 19.5 | 15.2 | 1.9 | 0.0 | 100.0 | 9.3 | 27.8 | 26.1 | 26.8 | 3.2 | 6.9 | 0.0 | 100.0 | 239 |
| Middle | 18.2 | 49.3 | 19.0 | 10.6 | 2.9 | 0.0 | 100.0 | 2.6 | 42.4 | 28.4 | 20.3 | 3.3 | 2.9 | 0.0 | 100.0 | 215 |
| Fourth | 21.3 | 51.7 | 14.3 | 8.8 | 1.7 | 2.2 | 100.0 | 5.8 | 40.0 | 28.3 | 15.2 | 2.8 | 5.6 | 2.2 | 100.0 | 191 |
| Highest | 21.5 | 41.4 | 17.2 | 18.0 | 1.6 | 0.4 | 100.0 | 1.4 | 38.0 | 33.3 | 24.8 | 1.5 | 0.6 | 0.4 | 100.0 | 114 |
| Total | 23.3 | 37.8 | 19.9 | 16.6 | 2.1 | 0.4 | 100.0 | 6.0 | 32.4 | 28.4 | 24.9 | 2.6 | 5.2 | 0.4 | 100.0 | 1,054 |
| Note: It is recommended that children be given more liquids to drink during diarrhoea and that food not be reduced. Figures in parentheses are based on 25-49 unweighted cases. An asterisk fewer than 25 unweighted cases and has been suppressed. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Background characteristic | Percentage of children with diarrhoea who were given: |  |  |  |  |  |  |  |  |  |  |  |  | Don't know | Percentage given no treatment | Number of children with diarrhoea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fluid from ORS packet or prepackaged ORS liquid | Zinc | ORS and zinc | ORS and continued feeding ${ }^{1}$ | ORS, zinc, and continued feeding ${ }^{1}$ | ORS or increased fluids | Recommended home fluids (RHF) | ORT (ORS, RHF, or increased fluids) | ORT and continued feeding ${ }^{1}$ | Antibiotic drugs | Antimotility drugs | Intravenous solution | Home remedy/ other |  |  |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 5.9 | 18.3 | 3.6 | 5.2 | 3.0 | 21.2 | 8.3 | 27.3 | 12.8 | 12.9 | 0.9 | 0.0 | 23.5 | 0.0 | 36.9 | 79 |
| 6-11 | 39.4 | 32.6 | 21.9 | 25.7 | 13.6 | 50.1 | 14.5 | 56.9 | 35.5 | 14.4 | 3.8 | 0.0 | 17.2 | 0.0 | 24.6 | 146 |
| 12-23 | 43.1 | 35.9 | 25.3 | 28.7 | 16.6 | 55.6 | 13.4 | 60.8 | 39.1 | 19.3 | 4.1 | 0.2 | 10.5 | 0.0 | 21.4 | 349 |
| 24-35 | 43.7 | 41.2 | 31.0 | 28.2 | 19.0 | 56.3 | 16.1 | 61.1 | 35.9 | 22.4 | 3.0 | 0.2 | 12.2 | 0.0 | 17.5 | 203 |
| 36-47 | 43.7 | 36.7 | 24.6 | 28.3 | 14.7 | 57.2 | 18.0 | 61.0 | 42.9 | 20.2 | 3.9 | 1.4 | 11.8 | 0.0 | 19.2 | 152 |
| 48-59 | 41.7 | 34.2 | 26.1 | 26.6 | 15.4 | 50.6 | 17.2 | 52.7 | 34.3 | 25.0 | 6.0 | 3.3 | 15.7 | 3.4 | 18.2 | 125 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 42.5 | 36.9 | 26.1 | 29.2 | 17.1 | 55.4 | 16.2 | 61.3 | 40.9 | 20.0 | 5.3 | 0.4 | 11.2 | 0.7 | 18.1 | 560 |
| Female | 36.9 | 33.0 | 22.3 | 22.6 | 13.1 | 48.2 | 13.2 | 51.9 | 30.4 | 19.1 | 2.2 | 1.1 | 16.1 | 0.0 | 25.6 | 493 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 33.2 | 34.8 | 21.3 | 19.7 | 12.0 | 47.6 | 16.2 | 53.1 | 31.2 | 20.6 | 1.6 | 0.1 | 13.0 | 0.9 | 24.5 | 443 |
| Rural | 44.6 | 35.3 | 26.5 | 30.8 | 17.5 | 55.3 | 13.8 | 59.7 | 39.4 | 18.8 | 5.4 | 1.1 | 13.9 | 0.0 | 19.4 | 611 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 25 |
| Central | 29.7 | 27.8 | 18.3 | 26.3 | 14.8 | 37.0 | 11.6 | 41.7 | 34.6 | 10.4 | 4.9 | 0.0 | 16.7 | 0.0 | 41.2 | 128 |
| Greater Accra | (16.7) | (18.9) | (12.8) | (12.1) | (8.2) | (41.1) | (6.4) | (47.5) | (28.7) | (7.3) | (0.0) | (0.0) | (8.0) | (0.0) | (46.6) | 74 |
| Volta | (52.2) | (56.9) | (45.0) | (24.7) | (22.2) | (61.9) | (31.2) | (61.9) | (29.1) | (32.3) | (8.0) | (0.0) | (0.0) | (0.0) | (14.0) | 29 |
| Eastern | (45.6) | (39.0) | (24.7) | (26.0) | (10.7) | (56.7) | (6.9) | (59.2) | (36.3) | (32.2) | (0.0) | (0.0) | (6.4) | (0.0) | (18.7) | 56 |
| Ashanti | 41.9 | 31.0 | 20.3 | 32.9 | 14.6 | 55.2 | 9.1 | 58.3 | 42.8 | 19.4 | 3.6 | 1.4 | 8.7 | 1.8 | 18.1 | 240 |
| Western North | 47.9 | 43.4 | 36.2 | 19.1 | 14.2 | 49.5 | 15.5 | 53.5 | 23.1 | 9.9 | 6.6 | 0.0 | 2.0 | 0.0 | 32.0 | 26 |
| Ahafo | 42.7 | 49.0 | 38.8 | 32.5 | 30.6 | 49.6 | 23.5 | 56.3 | 36.2 | 17.8 | 9.8 | 0.0 | 9.8 | 0.0 | 26.1 | 18 |
| Bono | (36.0) | (46.6) | (22.9) | (26.7) | (13.6) | (39.1) | (12.0) | (39.1) | (26.7) | (35.2) | (3.0) | (0.0) | (15.4) | (0.0) | (25.2) | 23 |
| Bono East | 39.9 | 44.2 | 30.8 | 17.6 | 14.6 | 63.3 | 17.6 | 66.8 | 36.1 | 16.7 | 1.1 | 0.0 | 28.3 | 0.0 | 11.0 | 67 |
| Oti | 40.0 | 37.2 | 26.8 | 21.7 | 13.8 | 44.4 | 21.8 | 49.9 | 26.6 | 28.8 | 18.0 | 2.3 | 12.6 | 0.0 | 17.9 | 40 |
| Northern | 48.1 | 37.8 | 30.8 | 34.5 | 24.1 | 57.5 | 20.4 | 65.3 | 43.6 | 16.6 | 2.0 | 0.5 | 14.7 | 0.0 | 16.7 | 173 |
| Savannah | 32.7 | 15.0 | 9.1 | 20.0 | 4.7 | 42.8 | 6.8 | 44.1 | 27.5 | 30.4 | 3.6 | 0.0 | 15.7 | 0.0 | 17.0 | 54 |
| North East | 32.4 | 42.7 | 21.4 | 16.5 | 10.6 | 60.4 | 17.7 | 65.6 | 37.1 | 27.3 | 5.6 | 0.0 | 19.0 | 0.0 | 12.3 | 48 |
| Upper East | 56.6 | 53.4 | 37.2 | 18.4 | 7.6 | 67.4 | 18.4 | 74.9 | 23.7 | 25.8 | 1.7 | 5.9 | 20.5 | 0.0 | 2.3 | 37 |
| Upper West | (47.4) | (56.2) | (34.9) | (19.5) | (19.5) | (49.2) | (9.1) | (55.4) | (27.5) | (19.8) | (5.6) | (0.0) | (10.7) | (0.0) | (16.7) | 16 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 37.5 | 31.8 | 20.5 | 23.8 | 13.8 | 48.6 | 15.2 | 54.9 | 32.7 | 21.0 | 3.0 | 1.2 | 18.2 | 0.0 | 16.9 | 303 |
| Primary | 46.5 | 30.9 | 24.5 | 30.8 | 14.8 | 60.2 | 12.8 | 62.7 | 42.2 | 17.2 | 7.7 | 0.0 | 10.7 | 0.0 | 21.5 | 184 |
| Secondary | 39.4 | 37.4 | 26.6 | 25.5 | 15.8 | 51.4 | 15.1 | 56.4 | 35.0 | 18.2 | 3.3 | 0.8 | 12.4 | 0.0 | 25.8 | 512 |
| More than secondary | 34.8 | 44.9 | 23.9 | 29.2 | 18.6 | 50.1 | 16.5 | 53.4 | 41.8 | 32.2 | 0.7 | 0.0 | 7.8 | 7.7 | 7.7 | 54 |


| Table 10.11-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage of children with diarrhoea who were given: |  |  |  |  |  |  |  |  |  |  |  |  | Don't know | Percentage given no treatment | Number of children with diarrhoea |
| Background characteristic | Fluid from ORS packet or prepackaged ORS liquid | Zinc | $\begin{aligned} & \text { ORS and } \\ & \text { zinc } \end{aligned}$ | ORS and continued feeding | ORS, zinc, and continued feeding' | ORS or increased fluids | Recommended home fluids (RHF) | ORT (ORS, RHF, or increased fluids) | ORT and continued feeding | Antibiotic drugs | Antimotility | Intravenous | Home remedy/ other |  |  |  |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 42.8 | 34.0 | 25.6 | 25.8 | 15.5 | 54.0 | 15.0 | 60.1 | 36.7 | 16.6 | 3.5 | 1.0 | 18.0 | 0.0 | 17.8 | 294 |
| Second | 40.9 | 29.9 | 22.2 | 25.2 | 13.8 | 55.3 | 14.6 | 60.0 | 35.2 | 25.5 | 3.5 | 1.6 | 9.2 | 0.0 | 16.4 | 239 |
| Middle | 36.2 | 35.8 | 22.5 | 25.1 | 13.6 | 47.1 | 14.1 | 49.8 | 32.4 | 18.4 | 3.0 | 0.0 | 13.3 | 0.0 | 28.1 | 215 |
| Fourth | 40.0 | 34.0 | 22.6 | 29.2 | 14.6 | 54.4 | 14.6 | 59.4 | 40.9 | 19.8 | 7.0 | 0.2 | 11.1 | 2.2 | 25.6 | 191 |
| Highest | 36.7 | 48.9 | 31.8 | 25.8 | 21.4 | 45.4 | 16.5 | 51.3 | 34.4 | 16.6 | 1.7 | 0.0 | 15.3 | 0.0 | 23.0 | 114 |
| Total | 39.8 | 35.0 | 24.3 | 26.1 | 15.2 | 52.0 | 14.8 | 56.9 | 36.0 | 19.6 | 3.8 | 0.7 | 13.5 | 0.4 | 21.6 | 1,054 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ORS = oral rehydration salts <br> ${ }^{1}$ Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhoea episode. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 10.12 Source of advice or treatment for children with diarrhoea
Percentage of children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources; among children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources; among children with diarrhoea who received ORS, percentage for whom advice or treatment was sought from specific sources; and among children with diarrhoea who were given zinc tablets or syrup, percentage for whom advice or treatment was sought from specific sources, Ghana DHS 2022

| Source | Percentage for whom advice or treatment was sought from each source: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Among children with diarrhoea | Among children with diarrhoea for whom advice or treatment was sought | Among children with diarrhoea who received ORS ${ }^{1}$ | Among children with diarrhoea who were given zinc |
| Public sector | 30.8 | 50.7 | 52.0 | 54.1 |
| Government hospital | 9.3 | 15.3 | 16.4 | 19.1 |
| Government polyclinic | 1.4 | 2.3 | 1.1 | 0.8 |
| Government health centre | 7.1 | 11.7 | 11.6 | 12.8 |
| Government clinic | 4.7 | 7.8 | 8.5 | 8.3 |
| CHPS centre/government health post | 8.2 | 13.5 | 14.2 | 12.8 |
| Community health service (outreach) | 0.4 | 0.6 | 0.8 | 1.0 |
| Private medical sector (non-NGO) | 2.9 | 4.8 | 3.7 | 5.7 |
| Private hospital/clinic | 1.4 | 2.3 | 1.3 | 2.5 |
| Community health service (mobile clinic) | 1.2 | 2.0 | 1.6 | 2.3 |
| Other private medical sector | 0.3 | 0.5 | 0.8 | 0.9 |
| Private medical sector (NGO) | 0.0 | 0.0 | 0.0 | 0.1 |
| NGO hospital/clinic | 0.0 | 0.0 | 0.0 | 0.1 |
| Other private sector | 17.7 | 29.2 | 21.8 | 17.5 |
| Shop/market | 9.9 | 16.4 | 12.5 | 9.9 |
| Traditional practitioner | 0.2 | 0.3 | 0.1 | 0.1 |
| Drug peddler | 7.7 | 12.6 | 9.5 | 7.8 |
| Other | 2.0 | 3.3 | 0.2 | 1.5 |
| Number of children | 1,054 | 639 | 420 | 369 |

Note: Advice or treatment for children with diarrhoea may have been sought from more than one source
ORS = oral rehydration salts
CHPS = community-based health planning and services
NGO = nongovernmental organisation
${ }^{1}$ Fluids from ORS packet or prepackaged ORS fluid

## Key Findings

- Nutritional status of children: 17\% of children under age 5 are stunted (too short for their age), 6\% are wasted (too thin for their height), $12 \%$ are underweight (too thin for their age), and $2 \%$ are overweight or obese (heavy for their height).
- Breastfeeding: Among children age 0-23 months, 58\% were put to the breast within 1 hour of birth and $81 \%$ were exclusively breastfed for the first 2 days after birth; $53 \%$ of children under age 6 months are exclusively breastfed.
- Complementary feeding: 41\% of children age 6-23 months received the minimum number of food groups during the day or night preceding the interview, $49 \%$ were fed the minimum number of times, and $23 \%$ were fed a minimum acceptable diet. 32\% of children age 6-23 months were given sweet beverages, $33 \%$ were given unhealthy foods, and $32 \%$ were not given vegetables or fruits.
- Growth monitoring: 50\% of children under age 5 had their weight measured in the 3 months prior to the survey, while 39\% had their height measured.
- Anaemia in children and women: $49 \%$ of children age $6-59$ months and $41 \%$ of women age 15-49 are anaemic. Anaemia prevalence is $51 \%$ among pregnant women and 44\% among adolescent girls age 15-19.
- Nutritional status of adults: 50\% of women age 20-49 are overweight or obese, and 5\% are thin. Among adolescent girls age 15-19, 14\% are overweight or obese and $17 \%$ are thin. $21 \%$ of men age 20-49 are overweight or obese and $6 \%$ are thin. Among adolescent boys age $15-19,3 \%$ are overweight or obese and $42 \%$ are thin.

Nutrition is the foundation for the health and development of children and adults. This chapter reports on nutritional status and anaemia among children and adults, infant and young child feeding (IYCF) practices, and women's dietary practices. In addition, the chapter presents key nutrition interventions including infant and young child feeding counselling, child growth monitoring, micronutrient supplementation, deworming for children, and the presence of iodine in household cooking salt. Chapter 9 presents information on nutritional interventions provided during the antenatal period such as maternal nutrition counselling, breastfeeding counselling, deworming, iron-containing supplementation and sources of the supplements, and postnatal breastfeeding counselling and observation. Chapter 10 presents information on child feeding practices during diarrhoea.

### 11.1 Nutritional Status of Children

Anthropometry is commonly used to measure child nutritional status. The anthropometric measurements are used to report on child growth indicators. The distribution of height and weight among children under
age 5 was compared with the WHO Child Growth Standards reference population (WHO 2006). The distribution of a well-nourished population will be similar to that of the reference population, while the distribution of a poorly nourished population will not. The indices height-for-age, weight-for-height, and weight-for-age can be expressed in standard deviation units ( $z$ scores) from the median of the reference population. Values that are greater than two standard deviations below the median of the WHO Child Growth Standards are used to define malnutrition.

Stunting, or low height-for-age, is a measure of growth faltering. Stunting is a marker of the deficient growth environment to which children have been exposed and reflects the overall well-being of a population (Perumal et al. 2018). Suboptimal nutrition can contribute to stunting, while other causes include recurrent infection, chronic diseases, and more; many of the causes of stunting are complex and unknown (WHO 2014a).

Wasting, or low weight-for-height, is a measure of acute undernutrition. It represents the failure to receive adequate nutrition in the period immediately before the survey. Wasting may result from inadequate food intake or from a recent episode of illness or infection causing weight loss.

Underweight, or low weight-for-age, is a composite index of weight-for-height and height-for-age. It reflects children who are stunted, wasted, or both.

Overweight, or high weight-for-height, results from an imbalance between energy consumed (too much) and energy expended (too little).

## Stunting (assessed via height-for-age)

Height-for-age is a measure of growth faltering. Children whose height-for-age $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are considered short for their age (stunted). Children whose $z$ score is below minus three standard deviations ( -3 SD) from the median are considered severely stunted.

## Sample: Children under age 5

## Wasting (assessed via weight-for-height)

The weight-for-height index measures body mass in relation to body height or length and describes acute undernutrition. Children whose weight-for-height $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted). Children whose z score is below minus three standard deviations (-3 SD) from the median are considered severely wasted.
Sample: Children under age 5

## Underweight (assessed via weight-for-age)

Weight-for-age is a composite index of height-for-age and weight-for-height that takes into account both wasting and stunting. Children whose weight-forage $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are classified as underweight. Children whose $z$ score is below minus three standard deviations (-3 SD) from the median are considered severely underweight.
Sample: Children under age 5

## Overweight (assessed via weight-for-height)

Children whose weight-for-height $z$ score is more than two standard deviations (+2 SD) above the median of the reference population are considered overweight.
Sample: Children under age 5

The means of the $z$ scores for height-for-age, weight-for-height, and weight-for-age are also calculated as summary statistics that represent the nutritional status of children in a population. The mean scores describe the nutritional status of the entire population of children without the use of a cutoff point. A mean $z$ score of less than 0 (a negative mean value for stunting, wasting, or underweight) suggests a downward shift in the entire sample population's nutritional status relative to the reference population. The farther away mean $z$ scores are from 0 , the higher the prevalence of malnutrition.

## Child Growth Measures of Malnutrition

Information on anthropometry training, standardisation, and data collection methodology can be found in Chapter 1. Appendix C, Table C. 7 provides the standardisation results. The 2022 GDHS identified a total of 5,045 children under age 5 who were eligible for height and weight measurements (Appendix C, Table C.8). During measurements, $1 \%$ of children had hairstyles or ornamentation that interfered with height measurement, and less than $1 \%$ of children were not minimally dressed or wore heavy permanent ornaments that interfered with weight measurement (Appendix C, Table C.10). Valid height-for-age measurements were obtained for $98 \%$ of eligible children, valid weight-for-height measurements were obtained for $98 \%$ of eligible children, and valid weight-for-age measurements were obtained for $98 \%$ of eligible children (Appendix C, Table C.8). Appendix C, Table C. 8 provides additional information on the completeness and quality of anthropometry data for children.

Data collection included remeasurement of children as described in Chapter 1. The calculation of final $z$ scores was based on the first measurement among children randomly selected for remeasurement, while the calculation of final $z$ scores was based on the second measurement among children flagged for remeasurement. The remeasurement completion rate was $99 \%$ among those selected for remeasurement. Appendix C, Table C. 9 provides additional information on remeasurement data (WHO and UNICEF 2019).

Table 11.1 shows the nutritional status of children under age 5 according to the three anthropometric indices. Seventeen percent of children under age 5 are stunted, among whom $4 \%$ are severely stunted, and $6 \%$ are wasted, including $1 \%$ who are severely wasted. Twelve percent of children are underweight, and $2 \%$ are overweight or obese.

Figure 11.1 Trends in child growth measures

Percentage of children under age 5 who are malnourished



Trends: A comparison of anthropometric measurements from previous GDHS surveys shows that there have been improvements in the nutritional status of children under age 5 in the last 30 years. The prevalence of stunting declined from $33 \%$ in 1993 to $17 \%$ in 2022 (Figures 11.1 and 11.2). The percentage of children who are wasted and underweight followed a similar trend, falling from $14 \%$ in 1993 to $6 \%$ in 2022 and $23 \%$ in 1993 to $12 \%$ in 2022, respectively. There have been only minimal changes over time in the percentage of children who are overweight.

There are large disparities in stunting across regions (Map 11.1). The prevalence of stunting is highest in the Northern and North East regions (30\% and 29\%, respectively) and lowest in the Eastern, Western North, and Greater Accra regions ( $10 \%, 11 \%$, and $11 \%$, respectively). Similarly, wasting is highest in the Northern region (8\%) and lowest in the Western North region (2\%) (Table 11.1).

### 11.2 Growth Monitoring and Promotion

Growth monitoring and promotion programmes include monitoring children's nutritional status through physical growth measurements and using this information to provide caregivers with counselling and referrals of children whose growth appears abnormal (WHO 2013; WHO 2017a). An important component of growth monitoring is regular measurement of children's weight and length/height. According to the Ghana Growth Monitoring and Promotion schedule for children 059 months, children age $0-11$ months are expected to have their weight measured every month, while their length is expected to be measured every 3 months. Children age 12-23 months and age 24-59 months are expected to have their weight and length measured every 3 months and every 6 months, respectively. Globally, MUAC measurement is conducted only for children age 6-59 months. In Ghana, MUAC measurements for children are not routinely done during growth monitoring and promotion sessions.

## Weight measured in the last 3 months

Percentage of children under age 5 who had their weight measured in the last 3 months.
Weight and height measured in the last 3 months
Percentage of children under age 5 who had their weight and height measured in the last 3 months.
Mid-upper-arm circumference (MUAC) measured in the last 3 months
Percentage of children under age 5 who had their MUAC measured in the last 3 months.
Weight, height, and MUAC measured in the last 3 months
Percentage of children under age 5 who had their weight, height, and MUAC measured in the last 3 months.
Sample: Children under age 5

Fifty percent of children age $0-59$ months had a weight measurement taken in the 3 months prior to the survey, $39 \%$ had a height measurement taken, and $22 \%$ had a MUAC measurement taken (Table 11.2).

Overall, $38 \%$ of children had height and weight measurements taken, and $21 \%$ had all three measurements taken (height, weight, and MUAC).

### 11.3 Infant and Young Child Feeding Practices

Optimal infant and young child feeding (IYCF) practices are critical to the health and survival of young children. Recommended IYCF practices include early initiation of breastfeeding (within the first hour after birth), exclusive breastfeeding for the first 2 days after birth, exclusive breastfeeding for the first 6 months of life, continued breastfeeding for 2 years or more, and introduction of safe, appropriate, and adequate complementary foods at age 6 months. This section reports on IYCF indicators for children under age 2 (WHO and UNICEF 2021).

### 11.3.1 Ever Breastfed, Early Initiation of Breastfeeding, and Exclusive Breastfeeding for the First 2 Days after Birth

Breastfeeding supports children's growth and development and also benefits mothers' health. Initiation of breastfeeding within the first hour of birth is important for both the mother and the child. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from infections. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, especially through skin-to-skin contact, which facilitates the production of breast milk. Feeding newborns anything other than breast milk in the first 2 days after birth can delay early initiation of breastfeeding and interrupt exclusive breastfeeding and is not recommended unless medically indicated (WHO and UNICEF 2021).

## Ever breastfed

Percentage of children born in the last 2 years who were ever breastfed.

## Early initiation of breastfeeding

Percentage of children born in the last 2 years who were put to the breast within 1 hour of birth.
Exclusive breastfeeding for the first 2 days after birth
Percentage of children born in the last 2 years who were fed exclusively with breast milk for the first 2 days after birth.
Sample: Children born in the last 2 years

Breastfeeding is nearly universal in Ghana, with $97 \%$ of children born in the 2 years preceding the survey ever breastfed (Table 11.3). Nearly 6 out of every 10 children ( $58 \%$ ) under age 2 were put to the breast within 1 hour of birth, and $81 \%$ were exclusively breastfed (given nothing other than breast milk to eat or drink) during the first 2 days after delivery.

Trends: The percentage of children born in the 2 years preceding the survey who have ever been breastfed has remained similar over the last three decades ( $98 \%$ in 1993 and $97 \%$ in 2022). Early initiation of breastfeeding has increased steadily over time, from $25 \%$ in 1998 to $58 \%$ in 2022.

### 11.3.2 Exclusive Breastfeeding and Mixed Milk Feeding

In the first 6 months, children should be exclusively breastfed; that is, they should be given nothing but breast milk. Exclusive breastfeeding for 6 months lowers the risk of infections that can lead to diarrhoea and respiratory illnesses and provides all of the nutrients and liquid an infant requires for optimal growth and development. Mixed milk feeding, in which children are fed both breast milk and formula or animal milk within the first 6 months, has the adverse effect of reducing breast milk output because the production of breast milk is modulated by the frequency and intensity of suckling. Mixed feeding under age 6 months also can increase children's risk of diarrhoea, alter their intestinal microflora, and lead to early cessation of breastfeeding (WHO and UNICEF 2021).

## Exclusive breastfeeding under 6 months

Percentage of children age 0-5 months who were fed exclusively with breast milk during the previous day.
Sample: Youngest children age 0-5 months living with their mother

## Mixed milk feeding under 6 months

Percentage of children age 0-5 months who were fed both breast milk and formula and/or animal milk during the previous day.
Sample: Youngest children age 0-5 months living with their mother

The 2022 GDHS results show that $53 \%$ of children age $0-5$ months are exclusively breastfed (Table 11.4).

Table 11.5 and Figure 11.3 show the pattern of how children are fed in the first 6 months. At age $0-1$ month, $74 \%$ of children are exclusively breastfed as per WHO recommendations (Table 11.5) and $25 \%$ are not fed according to the recommended guidelines, with $16 \%$ receiving breast milk and water only, $4 \%$ receiving breast milk and formula and/or animal milk, and $3 \%$ receiving breast milk and solid, semisolid, or soft foods. By age 2-3 months, there is a decline in the percentage of children exclusively

Figure 11.3 Infant feeding practices by age
 breastfed and $45 \%$ of children are receiving liquids or solid foods other than breast milk. By age 4-5 months, the percentage of children exclusively breastfed declines sharply to $25 \%$ and the majority of children are receiving liquids or foods other than breast milk, primarily breast milk and plain water only ( $32 \%$ ) and solid, semisolid, or soft foods ( $24 \%$ ).

### 11.3.3 Continued Breastfeeding and Bottle Feeding

Breastfeeding should continue for the first 2 years or beyond because breast milk lowers children's risk of illness, promotes their recovery during illness, and remains an important source of nutrients for healthy growth and development. Longer durations of breastfeeding have many health benefits for women, including reducing risks of certain breast and ovarian cancers and diabetes. The nipple on a feeding bottle is susceptible to contamination and increases the risk of disease among children (WHO and UNICEF 2021). Thus, bottle feeding is not recommended for children under age 2.

## Continued breastfeeding

Percentage of children age 12-23 months who were fed breast milk during the previous day.
Sample: Children age 12-23 months

## Bottle feeding

Percentage of children age 0-23 months who were fed from a bottle with a nipple during the previous day.
Sample: Children age 0-23 months

Among Ghanian children age 12-23 months, $67 \%$ are currently breastfeeding. About one in five children ( $21 \%$ ) age $0-23$ months are bottle fed (Table 11.4).

### 11.3.4 Introduction of Complementary Foods

After the first 6 months, breast milk alone is no longer sufficient to meet all of the nutritional needs of an infant. After 6 months, appropriate complementary foods should be introduced while breastfeeding is continued until age 2 or older. The transition from exclusive breastfeeding to complementing breastfeeding with family foods is when children are most vulnerable to becoming undernourished. During this time, it is important that children receive solid, semisolid, or soft foods (WHO 2003; WHO and UNICEF 2021).

## Introduction of solid, semisolid, or soft foods

Percentage of children age 6-8 months who were fed solid, semisolid, or soft foods during the previous day.
Sample: Youngest children age 6-8 months living with their mother

Overall, $69 \%$ of children were introduced to solid, semisolid, or soft foods at age 6-8 months (Table 11.10). There has been a small but gradual decline in timely introduction of complementary foods ( $75 \%$ in $2008,73 \%$ in 2014 , and $69 \%$ in 2022).

### 11.3.5 Minimum Dietary Diversity, Minimum Meal Frequency, Minimum Milk Feeding Frequency, Minimum Acceptable Diet, and Egg and/or Flesh Food Consumption

Infants and young children should be fed a minimum acceptable diet, which means that they are fed meals with appropriate frequency and a variety of foods to meet their energy and nutrient needs. The minimum acceptable diet indicator is a combination of minimum dietary diversity and minimum meal frequency for breastfeeding children and the same combination along with minimum milk feeding frequency for nonbreastfed children.

Minimum dietary diversity is a proxy for adequate micronutrient density of foods. Consumption of food from at least five groups means that the child has a higher likelihood of consuming at least one animal source of food and at least one fruit or vegetable in addition to a staple food such as grains, roots, or tubers. The five groups should come from a list of eight food groups: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

Minimum meal frequency is a proxy for meeting energy requirements. Breastfed children age 6-8 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least twice a day. Breastfed children age $9-23$ months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least three times a day. Nonbreastfed children age 6-23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods or milk feeds at least four times a day and if at least one of the feeds is a solid, semisolid, or soft food.

Minimum milk feeding frequency is a proxy for meeting the nutrient needs of nonbreastfed children. Milk and milk products are important sources of nutrients. Nonbreastfed children age 6-23 months are considered to be fed with a minimum milk feeding frequency if they receive at least two feeds of milk and/or milk products each day.

Egg and/or flesh food consumption by breastfed and nonbreastfed children age 6-23 months increases energy, protein, and nutrient intake. Eggs, meat, fish, poultry, and organ meats are important sources of nutrients that support healthy child growth (WHO and UNICEF 2021).

## Minimum dietary diversity

Percentage of children age 6-23 months who were fed a minimum of five out of eight defined food groups during the previous day. The eight food groups are as follows: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

## Minimum meal frequency

Percentage of children age 6-23 months who were fed solid, semisolid, or soft food (including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day.

## Minimum milk feeding frequency

Percentage of nonbreastfed children age 6-23 months who were given at least two milk feeds during the previous day.

## Minimum acceptable diet

Percentage of children age 6-23 months who were fed a minimum acceptable diet during the previous day. This indicator is a composite of children fed with a minimum dietary diversity and a minimum meal frequency, with the additional requirement that nonbreastfed children are fed with a minimum milk feeding frequency.
Sample: Youngest children age 6-23 months living with their mother

## Egg and/or flesh food consumption

Percentage of children age 6-23 months who were fed eggs and/or flesh food during the previous day.
Sample: Youngest children age 6-23 months living with their mother

Figure 11.4 and Table 11.8 show that, overall, $41 \%$ of children age 6-23 months received the minimum number of food groups during the previous day (minimum dietary diversity); the percentages were similar for breastfed (42\%) and nonbreastfed ( $41 \%$ ) children. Almost half of all children (49\%) age 6-23 months were fed the minimum number of times (minimum meal frequency) (47\% of breastfed children and $55 \%$ of nonbreastfed children). In addition,

Figure 11.4 IYCF indicators on minimum acceptable diet by breastfeeding status
Percentage of children age 6-23 months meeting feeding practice recommendations

- Breastfed $■$ Nonbreastfed $■$ All children 6-23 months
 $26 \%$ of nonbreastfed children received the minimum number of milk feeds. Twenty-three percent of children were fed a minimum acceptable diet ( $26 \%$ of breastfed children but only $15 \%$ of nonbreastfed children).

Sixty-two percent of children age 6-23 months consumed eggs and/or flesh food (such as meat, fish, poultry, and organ meats) the previous day (Table 11.9).

### 11.3.6 Sweet Beverage Consumption, Unhealthy Food Consumption, and Zero Vegetable or Fruit Consumption among Children

Unhealthy infant and young child feeding practices should be avoided because they can replace nutritious foods that provide important nutrients for children and promote unhealthy weight gain. For infants and young children, consumption of sweet foods and beverages increases the risk of dental caries and obesity in childhood. In addition, too much salt in the diet increases the risk of noncommunicable diseases, and unhealthy fats and refined carbohydrates contribute to unhealthy weight gain. Children consuming diets low in vegetables and fruits have reduced nutrient intakes, which can negatively impact healthy growth and development; low vegetable and fruit consumption is also associated with noncommunicable diseases later in life. The indicator definition below for unhealthy food consumption describes "sentinel unhealthy foods," which are foods high in sugar, salt, and/or unhealthy fats that are commonly consumed by infants and young children (WHO and UNICEF 2021).

## Sweet beverage consumption

Percentage of children age 6-23 months who were given a sweet beverage during the previous day.
Unhealthy food consumption
Percentage of children age 6-23 months who were fed sentinel unhealthy foods during the previous day.
Zero vegetable or fruit consumption
Percentage of children age 6-23 months who were not fed any vegetables or fruits during the previous day.
Sample: Youngest children age 6-23 months living with their mother

Table 11.9 shows the percentage of children age 6-23 months with unhealthy feeding practices. Thirtytwo percent of children consumed a sweet beverage, $33 \%$ consumed unhealthy foods, and $31 \%$ did not consume any vegetables or fruits during the previous day or night.
Figure 11.5. shows that sweet beverage consumption and unhealthy food consumption among children age 6-23 months are higher in urban areas ( $39 \%$ and $40 \%$, respectively) than in rural areas ( $25 \%$ and $26 \%$, respectively).

Figure 11.5 Unhealthy feeding practices among children age 6-23 months by residence

Percentage of children age 6-23 months
-Total ■Urban - Rural

Conversely, the percentage of children who consumed no vegetables or fruits is similar in urban and rural areas ( $30 \%$ and $33 \%$, respectively).

### 11.3.7 Infant and Young Child Feeding (IYCF) Indicators

Table $\mathbf{1 1 . 1 0}$ summarises all 16 WHO-UNICEF IYCF indicators.

### 11.4 Infant and Young Child Feeding Counselling

IYCF counselling helps support appropriate breastfeeding and complementary feeding practices (WHO 2003; WHO 2018). Counselling is an interactive process that helps empower mothers and caregivers to follow the recommended IYCF practices. Counselling can take place in health facilities and the community and is delivered by trained health providers, community health workers, and others in the community.

In Ghana, it is recommended that mothers of children age $0-23$ months receive IYCF counselling from a health care worker or volunteer every 3 months.

## Mothers who received IYCF counselling in the last 6 months

Percentage of mothers with children age 6-23 months who received IYCF counselling in the last 6 months from a health care provider or community health worker.
Sample: Women whose youngest child age 6-23 months is living with them

Table 11.11 shows that half ( $50 \%$ ) of mothers of children age $0-23$ months received IYCF counselling in the 6 months preceding the survey. The percentage of mothers who received IYCF counselling is higher in urban areas (53\%) than in rural areas (46\%).

### 11.5 Anaemia Prevalence in Children

Anaemia is a condition characterised by insufficient haemoglobin, a protein responsible for transporting oxygen in the blood (Chaparro and Suchdev 2019). In children, anaemia can impair cognitive development and is associated with long-term health consequences. When anaemia is severe, it can cause death (Chaparro and Suchdev 2019).

## Anaemia in children

| Anaemia status | Haemoglobin level in <br> grams/decilitre* |
| :--- | :--- |
| Anaemic | $<11.0$ |
| Mildly anaemic | $10.0-10.9$ |
| Moderately anaemic | $7.0-9.9$ |
| Severely anaemic | $<7.0$ |
| Not anaemic | $\geq 11.0$ |
| * Haemoglobin levels are adjusted for altitude in |  |
| enumeration areas above 1,000 metres. |  |

Sample: Children age 6-59 months

Overall, nearly half of children age 6-59 months (49\%) are anaemic; $1 \%$ are severely anaemic, $28 \%$ are mildly anaemic, and $20 \%$ are moderately anaemic (Table 11.12).

Trends: There has been a 36 percentage point decline in the prevalence of anaemia among children age 6-59 months since 2003 (Figure 11.6).

### 11.6 Micronutrient Supplementation and Deworming among Children

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Micronutrient deficiency can be caused by a lack of consumption

Figure 11.6 Trends in childhood anaemia

Percentage of children age 6-59 months
 of foods that supply vitamins and minerals, as well as by infections and genetic abnormalities. Strategies to prevent or address micronutrient deficiency include agricultural approaches such as biofortification, foodbased approaches that can be complemented with food fortification, and, for specific life stages and population groups, direct micronutrient supplementation (USAID 2019).

Iron is a micronutrient that plays an important role in numerous biological systems. Iron deficiency is one of the primary causes of anaemia. Interventions targeting iron deficiency and anaemia include periodically giving children iron tablets or syrup and/or iron-containing micronutrient powders (WHO 2011a; WHO 2016a; WHO 2016b).

Vitamin A is a micronutrient that supports the immune system and plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency can cause eye damage, increase the severity of infections such as those causing measles, and slow recovery from illness. Vitamin A supplementation programmes help reduce vitamin A deficiency and mortality in children (WHO 2011b).

Soil-transmitted helminth infections can cause internal bleeding, inflammation, impaired nutrient absorption, diarrhoea, vomiting, and loss of appetite. Deworming programmes help reduce the burden of helminth infections (WHO 2017b). In Ghana, deworming is recommended for children age 2 and above.

## Iron-containing supplements

Percentage of children age 6-59 months who were given iron-containing supplements in the last 12 months, including tablets, syrup, or micronutrient powders.
Sample: Children age 6-59 months

## Vitamin A supplements

Percentage of children age 6-59 months who were given vitamin A supplements in the last 6 months.
Sample: Children age 6-59 months

## Deworming medication

Percentage of children age 12-59 months who were given deworming medication in the last 6 months.
Sample: Children age 12-59 months

Table $\mathbf{1 1 . 1 3}$ shows that $51 \%$ of children age 6-59 months received iron-containing supplements in the 12 months prior to the survey. Seventy-five percent of children were given vitamin A supplements and $46 \%$ were given deworming medication in the past 6 months.

### 11.7 Adults' Nutritional Status

Chronic energy deficiency is caused by eating too little or having an unbalanced diet that lacks adequate nutrients. Women of reproductive age (age 15-49) are especially vulnerable to chronic energy deficiency and malnutrition due to low dietary intakes, inequitable distribution of food within the household, improper food storage and preparation, dietary taboos, infectious diseases, and inadequate care practices. Chronic energy deficiency leads to low productivity among adults and greater morbidity and mortality (WHO 1995). In addition, undernutrition among women is a major risk factor for adverse birth outcomes. Overweight and obesity have adverse health outcomes as well. Overweight and obesity are major risk factors for several chronic diseases, including diabetes, cardiovascular diseases, and cancer.

Body mass index (BMI) is the ratio of weight relative to height squared; it is used to measure nutritional status in adults age 20-49. BMI values are independent of age and sex. Adult women age 20-49 whose height is less than 145 centimetres are classified as being of short stature.

BMI-for-age, the ratio of weight relative to height for different age groups, is used to measure nutritional status among children and adolescents age 5-19 (WHO 2007). BMI-for-age is sex and age specific. The reason is that adolescents are still growing and the timing of peak growth velocity differs in boys and girls.

In the DHS surveys, BMI-for-age is reported among adolescents age $15-19$. Similarly, short stature among adolescent women (age 15-19) is assessed according to low height-for-age.

## Body mass index (BMI)

BMI is calculated by dividing weight in kilograms by height in metres squared ( $\mathrm{kg} / \mathrm{m}^{2}$ ).

| Adult status | BMI |
| :--- | :--- |
| Too thin for height | Less than 18.5 |
| Normal | Between 18.5 and 24.9 |
| Overweight | Between 25.0 and 29.9 |
| Obese | Greater than or equal to 30.0 |

Sample: Women age 20-49 who are not pregnant and who have not had a birth in the 2 months before the survey and men age 20-49

## BMI-for-age

BMI-for-age is measured in z score standard deviations (SD).

| Adolescent status | BMI-for-age |
| :--- | :--- |
| Too thin for height | Less than -1 SD |
| Normal | Between -1 SD and +1 SD |
| Overweight | Between +1 SD and +2 SD |
| Obese | Greater than +2 SD |

Sample: Women age 15-19 who are not pregnant and who have not had a birth in the 2 months before the survey and men age 15-19

## Short stature

Percentage of women age 20-49 with height under 145 cm .
Sample: Women age 20-49
Percentage of women age 15-19 with height-for-age $z$ score less than -2
SD.
Sample: Women age 15-19

### 11.7.1 Nutritional Status of Women

Height and weight data were collected for 7,676 eligible women age 15-49 (Appendix C, Table C.6). During measurements, $8.8 \%$ of women had hairstyles or ornamentation that interfered with height measurement, and $1.4 \%$ of women were not wearing lightweight clothing or wore heavy permanent ornaments that interfered with weight measurement (Appendix C, Table C.11).

Among women age 20-49, data on height and weight were used to calculate two measures of nutritional status: height and BMI. Table $\mathbf{1 1 . 1 4 . 1}$ shows that less than $1 \%$ of women age $20-49$ are shorter than 145 cm . In Ghana, overweight and obesity in women are of greater concern than thinness. A total of $5 \%$ of women are thin, with $4 \%$ being mildly thin and $1 \%$ being moderately or severely thin. Conversely, half of women ( $50 \%$ ) are overweight or obese, with $28 \%$ being overweight and $22 \%$ being obese (Table 11.14.1). Among adolescent women age 15-19, data on height, weight, and age were used to calculate two measures of nutritional status: height-for-age and BMI-for-age. Overall, $4 \%$ of adolescent women are short for their age (height-for-age below -2 SD), $17 \%$ are thin (with $2 \%$ being moderately or severely thin), and $14 \%$ are overweight or obese (Table 11.14.2).

### 11.7.2 Nutritional Status of Men

Height and weight data were collected for 6,166 eligible men age 15-49 (Appendix C, Table C. 6 and Table C.11). Among men age 20-49, data on height and weight were used to calculate BMI. Table
11.14.3 shows that only $6 \%$ of men are thin, with $1 \%$ being moderately or severely thin. Conversely, $21 \%$ of men are overweight or obese, with $17 \%$ being overweight and $4 \%$ being obese (Table 11.14.3).

Among adolescent men age 15-19, data on height, weight, and age were used to calculate BMI-for-age. The 2022 GDHS results show that $42 \%$ of adolescent men are thin (with $10 \%$ being moderately or severely thin) and 3\% are overweight or obese (Table 11.14.4).

### 11.8 Women's Dietary Practices

Dietary practices that support a healthy diet include eating a variety of different foods and food groups and limiting consumption of sugary beverages and unhealthy foods. Eating a variety of unprocessed foods helps women consume the appropriate amount of essential vitamins and minerals. A healthy diet also protects against overweight, obesity, and noncommunicable diseases.

Minimum dietary diversity for women is an indicator of diet diversity validated for nonpregnant women age 15-49. The indicator is based on 10 food groups: grains, white/pale starchy roots, tubers, and plantains; pulses (beans, peas, and lentils); nuts and seeds; dairy (milk and milk products); flesh foods (meat, fish, poultry, and organ meat); eggs; dark green leafy vegetables; vitamin-A rich fruits and vegetables; other vegetables; and other fruits. Women who consumed at least five of the 10 possible food groups in the 24 hours before the survey were classified as having minimally adequate dietary diversity. Deficiencies in micronutrients such as iron, iodine, vitamin A, folate, and zinc can have devastating consequences for the human body. Women, particularly those of childbearing age, are especially vulnerable due to their greater needs for essential vitamins and minerals. Having minimally adequate dietary diversity is important for micronutrient adequacy (FAO 2021).

Unhealthy foods and sweet beverages should be limited because they are associated with overweight, obesity, and noncommunicable diseases (Askari et al. 2020). Overweight and obesity among women can affect reproductive health and increase complications in pregnancy (Mitchell and Shaw 2015). The indicator for unhealthy food consumption describes "sentinel unhealthy foods," which are fried foods or foods high in sugar, salt, and/or unhealthy fats that are commonly consumed by women (FAO 2021).

## Minimum dietary diversity for women

Percentage of women who consumed foods from at least five out of 10 defined food groups during the previous day. The 10 food groups are as follows: grains, white/pale starchy roots, tubers, and plantains; pulses (beans, peas, and lentils); nuts and seeds; dairy (milk and milk products); flesh foods (meat, fish, poultry, and organ meat); eggs; dark green leafy vegetables; vitamin-A rich fruits and vegetables; other vegetables; and other fruits.
Sample: Women age 15-49

## Sweet beverage consumption

Percentage of women who consumed sweet beverages during the previous day.
Sample: Women age 15-49

## Unhealthy food consumption

Percentage of women who consumed selected sentinel unhealthy foods during the previous day.
Sample: Women age 15-49

Table 11.15 shows that commonly consumed foods are foods made from grains (93\%); meat, fish, poultry, and organ meats ( $94 \%$ ); and dark green leafy vegetables ( $81 \%$ ).

Table 11.16 shows that half of women (50\%) consumed five out of the 10 selected food groups during the previous day. Thirty-seven percent consumed sweet beverages and $28 \%$ consumed unhealthy foods within the same period.

### 11.9 Anaemia Prevalence in Adults

Anaemia in adults can cause fatigue, lethargy, reduced physical productivity, and poor work performance (Chaparro and Suchdev 2019). Anaemia is a major concern among pregnant women because it can lead to increased maternal mortality and poor birth outcomes (Haider et al. 2013).

Haemoglobin levels below which women and men are considered anaemic

| Respondents | Haemoglobin level in <br> grams/decilitre* |
| :--- | :--- |
| Nonpregnant women age 15-49 | Less than 12.0 |
| Pregnant women age 15-49 | Less than 11.0 |
| Men age 15-49 | Less than 13.0 |

* Haemoglobin levels are adjusted for cigarette smoking and for altitude in enumeration areas above 1,000 metres.
Sample: Women and men age 15-49

The 2022 GDHS results show that anaemia among women age 15-49 is of severe public health importance. Forty-one percent of women are anaemic; $23 \%$ are mildly anaemic, $17 \%$ are moderately anaemic, and $1 \%$ are severely anaemic
(Table 11.17 and Figure 11.7).

### 11.10 Presence of Iodised Salt in Households

Iodine is a micronutrient that plays an important role in thyroid function, which is critical for reproductive function, growth, and development. It is recommended that household salt be fortified with iodine. Sufficient iodine prevents goitre, brain
roue , damage, and other thyroid-related health problems (WHO 2014b). In Ghana, all salt is expected to be fortified with potassium iodate in compliance with Part Seven, Section 107 of the Public Health Act 2012 (Act 851) (FDA 2014).

## Household salt iodisation

Percentage of households with iodised salt.
Sample: Households in which salt was tested for iodine content
Table 11.18 shows that $80 \%$ of households have iodised salt. This is an increase from 2003 (42\%).

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Table 11.1 Nutritional status of children


|  | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Percentage below-3 SD | Percentage below-2 SD² | $\begin{aligned} & \text { Mean } z \text { score } \\ & \text { (SD) } \end{aligned}$ | Number of children | Percentage below-3 SD | Percentage below-2 SD ${ }^{2}$ | Percentage above +2 SD | Mean z score (SD) | Number of children | Percentage below-3 SD | Percentage below-2 SD ${ }^{2}$ | $\begin{aligned} & \text { Mean } z \text { score } \\ & \text { (SD) } \end{aligned}$ | Number of children |


| $\cdots \infty \square \infty \square \infty$ | Nos | $\infty^{\infty} \times$ | ONON | م®** | ${ }^{\infty}$ | ${ }^{\infty}$ | ${ }^{\infty}$ | $\bigcirc{ }^{\circ} \times$ | $\stackrel{+}{\square}+6$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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 | Age in months |
| :--- |
| $<6$ |
| $6-11$ |
| $12-23$ |
| $24-35$ |
| $36-47$ |
| $48-59$ |
| $0-23$ |
| $24-59$ |
| Sex |
| Male |
| Female |
| Birth interval in months ${ }^{3}$ |
| First birth |
| $<24$ |
| $24-47$ |
| $48+$ |
| Size at birth |
| Very small |
| Small |
| Average or larger |
| Don't know |
| Mother's interview status |
| Interviewed |
| Not interviewed but in |
| household |
| Not interviewed and not in the |
| household |
| Mother's age ${ }^{3}$ |
| $<20$ |
| $20-34$ |
| $35-49$ |
| Mother's nutritional status ${ }^{7}$ |
| Thin |
| Normal |
| Overweight/obese |
| Residence |
| Urban |
| Rural |

Table 11.2 Child growth monitoring
Percentage of children under age 5 who had selected measurements performed by a health care provider in the 3 months preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Weight | Height | Mid-upper-arm circumference (MUAC) | Weight and height | Weight, height, and MUAC | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age in months |  |  |  |  |  |  |
| <6 | 74.2 | 56.4 | 31.9 | 55.7 | 31.2 | 850 |
| 6-11 | 86.0 | 66.0 | 34.3 | 65.0 | 33.7 | 868 |
| 12-23 | 71.4 | 54.0 | 28.9 | 53.4 | 27.6 | 1,823 |
| 24-35 | 41.9 | 34.4 | 21.4 | 34.1 | 20.4 | 1,546 |
| 36-47 | 27.4 | 20.9 | 12.1 | 20.5 | 11.0 | 1,632 |
| 48-59 | 22.0 | 18.0 | 10.7 | 17.6 | 9.4 | 1,596 |
| 0-23 | 75.7 | 57.5 | 30.9 | 56.8 | 30.0 | 3,541 |
| 24-59 | 30.3 | 24.3 | 14.7 | 23.9 | 13.5 | 4,774 |
| Sex |  |  |  |  |  |  |
| Male | 49.6 | 38.7 | 22.2 | 38.3 | 21.1 | 4,240 |
| Female | 49.6 | 38.2 | 20.9 | 37.5 | 19.9 | 4,075 |
| Mother's age |  |  |  |  |  |  |
| 15-19 | 49.4 | 40.3 | 21.2 | 38.7 | 19.6 | 795 |
| 20-29 | 50.2 | 38.7 | 22.2 | 38.3 | 21.3 | 4,010 |
| 30-39 | 49.1 | 37.8 | 20.8 | 37.3 | 19.7 | 3,034 |
| 40-49 | 47.9 | 37.5 | 22.2 | 37.2 | 20.5 | 476 |
| Residence |  |  |  |  |  |  |
| Urban | 45.6 | 35.7 | 20.3 | 35.2 | 19.2 | 4,048 |
| Rural | 53.4 | 41.1 | 22.8 | 40.5 | 21.8 | 4,267 |
| Region |  |  |  |  |  |  |
| Western | 43.1 | 35.3 | 23.2 | 34.9 | 21.5 | 515 |
| Central | 50.3 | 33.0 | 6.8 | 32.9 | 6.1 | 841 |
| Greater Accra | 36.3 | 26.9 | 13.6 | 26.5 | 13.1 | 1,057 |
| Volta | 61.5 | 53.3 | 25.0 | 53.0 | 24.3 | 313 |
| Eastern | 48.3 | 35.1 | 21.4 | 34.6 | 20.7 | 611 |
| Ashanti | 44.0 | 30.9 | 11.8 | 29.9 | 10.9 | 1,495 |
| Western North | 58.4 | 55.3 | 33.6 | 54.7 | 32.7 | 222 |
| Ahafo | 52.4 | 42.1 | 13.5 | 41.6 | 13.2 | 186 |
| Bono | 64.3 | 44.5 | 33.3 | 43.4 | 30.7 | 277 |
| Bono East | 56.4 | 50.5 | 27.5 | 50.1 | 27.3 | 437 |
| Oti | 63.6 | 54.9 | 34.8 | 54.5 | 33.3 | 276 |
| Northern | 41.3 | 34.1 | 24.5 | 33.6 | 23.5 | 923 |
| Savannah | 51.7 | 46.5 | 32.1 | 46.2 | 31.3 | 247 |
| North East | 61.8 | 44.0 | 34.0 | 43.1 | 32.7 | 267 |
| Upper East | 75.2 | 60.6 | 54.4 | 60.3 | 50.5 | 406 |
| Upper West | 59.5 | 50.2 | 26.3 | 49.6 | 25.1 | 242 |
| Mother's education |  |  |  |  |  |  |
| No education | 46.5 | 38.2 | 24.7 | 37.8 | 23.5 | 1,922 |
| Primary | 47.4 | 35.8 | 20.6 | 35.5 | 19.4 | 1,250 |
| Secondary | 51.2 | 38.9 | 20.4 | 38.2 | 19.4 | 4,348 |
| More than secondary | 51.9 | 41.1 | 22.0 | 40.5 | 21.1 | 794 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 52.0 | 42.7 | 26.2 | 42.1 | 25.0 | 1,966 |
| Second | 53.4 | 41.4 | 24.3 | 40.8 | 23.4 | 1,690 |
| Middle | 48.8 | 35.3 | 20.6 | 34.8 | 19.3 | 1,614 |
| Fourth | 46.2 | 33.6 | 16.7 | 33.2 | 15.6 | 1,584 |
| Highest | 46.5 | 38.2 | 18.7 | 37.7 | 17.8 | 1,460 |
| Total | 49.6 | 38.5 | 21.6 | 37.9 | 20.5 | 8,315 |

Note: "Height" refers to length (recumbent measurement) or height (standing measurement).

Table 11.3 Early breastfeeding
Percentage of children born in the last 2 years who were ever breastfed, percentage who were put to the breast within 1 hour of birth, and percentage who were exclusively breastfed for the first 2 days after birth, according to background characteristics, Ghana DHS 2022


Continued...

Table 11.3-Continued

| Background characteristic | Percentage ever breastfed | Percentage put to the breast within 1 hour of birth | Percentage exclusively breastfed for the first 2 days after birth ${ }^{1}$ | Number of children born in the last 2 years |
| :---: | :---: | :---: | :---: | :---: |
| Wealth quintile |  |  |  |  |
| Lowest | 97.9 | 60.6 | 83.5 | 896 |
| Second | 95.3 | 62.4 | 84.1 | 749 |
| Middle | 95.7 | 59.1 | 83.5 | 730 |
| Fourth | 97.8 | 56.4 | 80.1 | 668 |
| Highest | 96.9 | 50.1 | 72.7 | 595 |
| Total | 96.8 | 58.2 | 81.2 | 3,638 |

Note: Table is based on children born in the 2 years preceding the survey regardless of whether the children were living or dead at the time of the interview. Figures in parentheses are based on 25-49 unweighted cases.
ANC = antenatal care
PNC = postnatal care
${ }^{1}$ Children given nothing other than breast milk to eat or drink during the first 2 days after delivery
${ }^{2}$ Information available for the most recent live birth only
${ }^{3}$ Skilled provider includes doctor and midwife/nurse (community health nurse, community health officer, enrolled nurse, public health nurse, or general nurse).
${ }^{4}$ Women were asked about counselling on breastfeeding by any health care provider in the first 2 days after their most recent live birth regardless of where they gave birth.

Table 11.4 Breastfeeding status according to age
Among youngest children age $0-5$ months living with their mother, percentage exclusively breastfeeding and percentage receiving mixed milk feeding; among all children age 12-23 months, percentage currently breastfeeding; and among all children age $0-23$ months, percentage using a bottle with a nipple, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among youngest children age $0-5$ months living with their mother: |  |  | Among all children age 12-23 months: |  | Among all children age 0-23 months: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage exclusively breastfeeding | Percentage receiving mixed milk feeding ${ }^{1}$ | Number of children | Percentage currently breastfeeding ${ }^{2}$ | Number of children | Percentage using a bottle with a nipple | Number of children |
| Age in months |  |  |  |  |  |  |  |
| 0-1 | 74.1 | 5.9 | 304 | na | na | 13.4 | 311 |
| 2-3 | 55.3 | 11.6 | 260 | na | na | 20.3 | 270 |
| 4-5 | 25.0 | 27.4 | 262 | na | na | 28.1 | 269 |
| 6-11 | Na | Na | na | na | na | 27.6 | 868 |
| 12-15 | Na | Na | na | 89.2 | 588 | 24.9 | 588 |
| 16-19 | Na | Na | na | 69.9 | 681 | 17.2 | 681 |
| 20-23 | Na | Na | na | 40.5 | 553 | 12.5 | 553 |
| Sex |  |  |  |  |  |  |  |
| Male | 51.0 | 16.3 | 461 | 67.1 | 928 | 20.4 | 1,841 |
| Female | 54.6 | 12.3 | 365 | 67.3 | 895 | 21.8 | 1,699 |
| Residence |  |  |  |  |  |  |  |
| Urban | 48.9 | 19.0 | 367 | 61.0 | 858 | 25.7 | 1,651 |
| Rural | 55.5 | 11.0 | 459 | 72.8 | 965 | 16.9 | 1,890 |
| Region |  |  |  |  |  |  |  |
| Western | (37.6) | (23.7) | 42 | 61.0 | 112 | 27.6 | 207 |
| Central | (40.5) | (19.1) | 79 | 52.2 | 193 | 21.6 | 367 |
| Greater Accra | (42.9) | (30.7) | 110 | 50.1 | 207 | 27.0 | 416 |
| Volta | (78.0) | (4.3) | 23 | 66.6 | 75 | 17.7 | 134 |
| Eastern | (40.1) | (21.6) | 64 | 60.9 | 115 | 25.4 | 245 |
| Ashanti | (43.6) | (12.7) | 127 | 61.6 | 359 | 24.5 | 637 |
| Western North | (27.5) | (20.3) | 24 | 65.4 | 51 | 26.5 | 101 |
| Ahafo | 47.4 | 13.4 | 22 | 74.7 | 38 | 29.0 | 80 |
| Bono | (57.9) | (15.4) | 25 | 64.1 | 62 | 14.1 | 115 |
| Bono East | 65.6 | 3.4 | 46 | 74.3 | 106 | 19.4 | 196 |
| Oti | 71.7 | 5.9 | 36 | 78.2 | 56 | 8.3 | 123 |
| Northern | 73.2 | 3.0 | 84 | 91.0 | 200 | 13.3 | 401 |
| Savannah | 78.1 | 7.7 | 32 | 79.0 | 50 | 7.5 | 106 |
| North East | 65.5 | 5.2 | 35 | 85.5 | 53 | 19.8 | 115 |
| Upper East | 51.8 | 12.4 | 54 | 77.9 | 87 | 23.1 | 193 |
| Upper West | 68.1 | 6.3 | 24 | 90.1 | 58 | 10.9 | 105 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 63.2 | 8.6 | 171 | 81.8 | 390 | 12.6 | 742 |
| Primary | 53.8 | 17.0 | 125 | 73.4 | 291 | 17.4 | 544 |
| Secondary | 46.0 | 16.4 | 446 | 63.2 | 977 | 22.4 | 1,923 |
| More than secondary | 64.3 | 13.2 | 84 | 45.3 | 164 | 37.9 | 333 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 62.5 | 7.5 | 215 | 81.9 | 440 | 13.7 | 874 |
| Second | 55.0 | 7.9 | 172 | 75.6 | 384 | 15.0 | 718 |
| Middle | 43.5 | 22.9 | 144 | 64.4 | 377 | 24.3 | 712 |
| Fourth | 45.1 | 21.4 | 164 | 54.3 | 310 | 24.1 | 653 |
| Highest | 52.3 | 17.0 | 131 | 52.4 | 313 | 32.1 | 584 |
| Total | 52.6 | 14.5 | 826 | 67.2 | 1,823 | 21.0 | 3,541 |

Note: Breastfeeding status refers to a 24 -hour period (yesterday during the day or at night). Figures in parentheses are based on 25-49 unweighted cases.
na $=$ not applicable
${ }^{1}$ Received breast milk and infant formula and/or fresh, packaged, or powdered animal milk. Excludes yogurt drinks because they are generally not fed as a substitute for breast milk.
${ }^{2}$ Corresponds to the IYCF indicator "continued breastfeeding"

Table 11.5 Infant feeding practices by age
Percent distribution of youngest children age 0-5 months living with their mother by feeding category, according to age in months, Ghana DHS 2022

| Age group in months | Breast milk only (exclusively breastfed) | Breast milk and plain water only | Breast milk and non-milk liquids ${ }^{1}$ | Breast milk and formula and/or animal milk $^{2}$ | Breast milk and solid, semisolid, or soft foods ${ }^{3}$ | Not breastfed | Unknown ${ }^{4}$ | Total | Number of youngest children age $0-5$ months living with their mother |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-1 | 74.1 | 16.2 | 0.1 | 4.1 | 2.8 | 2.2 | 0.5 | 100.0 | 304 |
| 2-3 | 55.3 | 25.3 | 0.2 | 8.4 | 7.1 | 1.8 | 1.8 | 100.0 | 260 |
| 4-5 | 25.0 | 31.6 | 0.1 | 14.0 | 24.2 | 4.7 | 0.5 | 100.0 | 262 |
| 0-5 | 52.6 | 23.9 | 0.1 | 8.6 | 11.0 | 2.9 | 0.9 | 100.0 | 826 |

Note: Breastfeeding status refers to a "24-hour" period (yesterday during the day or at night). The categories of breast milk only, breast milk and plain water only, breast milk and non-milk liquids, breast milk and formula and/or animal milk, breast milk and solid, semisolid, or soft foods, and not breastfed are hierarchical and mutually exclusive. Thus, children who receive breast milk and non-milk liquids and who do not receive breast milk and formula and/or animal milk and who do not receive any solid, semisolid, or soft foods are classified in the non-milk liquid category even though they may also get plain water. When combined with children whose feeding category is classified as unknown due to don't know responses, the percentages in each row add to $100 \%$.
${ }^{1}$ Non-milk liquids include milo, fruit juice or fruit drinks, sobolo, clear broth, clear soup, and other liquids.
${ }^{2}$ Animal milk here includes liquid yogurt but does not include solid yogurt. Note that animal milk in Table 11.4 excludes liquid yogurt and solid yogurt.
${ }^{3}$ Solid, semi-solid, or soft foods includes solid yogurt but not liquid yogurt.
${ }^{4}$ Not classified elsewhere due to "don't know" responses
Table 11.7 Foods consumed by children in the day or night preceding the interview

| Age in months | Solid or semisolid foods |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Foods made from grains ${ }^{1}$ | White/pale starchy roots, tubers, and plantains ${ }^{2}$ | Beans, peas, lentils, nuts and seeds ${ }^{3}$ | Cheese and yogurt ${ }^{4}$ | Meat, fish, poultry, and organ meats ${ }^{5}$ | Eggs | Vitamin Arich fruits and vegetables ${ }^{6}$ | Other fruits and vegetables ${ }^{7}$ | Insects and other small foods protein foods ${ }^{8}$ | Red palm oil | Sweet foods such as chocolates, candies, pastries, cakes, biscuits, ice cream, and popsicles | Fried and salty foods such as chips, crisps, puffs, french fries, and fried dough | Other solid, semisolid, and soft food | Number of youngest children under age 2 living with their mother |
| BREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-1 | 2.0 | 0.5 | 0.6 | 0.0 | 0.7 | 0.3 | 0.2 | 0.5 | 0.0 | 0.3 | 0.3 | 0.3 | 0.5 | 297 |
| 2-3 | 7.3 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.1 | 256 |
| 4-5 | 21.7 | 1.2 | 1.7 | 0.6 | 2.4 | 0.7 | 2.5 | 4.9 | 0.0 | 1.5 | 3.2 | 1.4 | 1.5 | 250 |
| 6-8 | 62.2 | 10.0 | 5.8 | 1.0 | 21.5 | 7.5 | 14.0 | 34.0 | 0.0 | 9.2 | 10.7 | 0.7 | 2.9 | 418 |
| 9-11 | 73.8 | 24.2 | 22.4 | 1.4 | 49.2 | 17.0 | 28.8 | 59.1 | 0.1 | 17.2 | 26.5 | 4.0 | 8.6 | 403 |
| 12-17 | 85.0 | 34.7 | 29.1 | 1.7 | 60.0 | 21.7 | 33.6 | 68.1 | 0.0 | 14.9 | 25.0 | 3.2 | 6.6 | 771 |
| 18-23 | 84.7 | 40.1 | 42.5 | 1.8 | 67.3 | 16.8 | 38.9 | 71.5 | 0.0 | 16.9 | 24.4 | 4.2 | 4.7 | 411 |
| 0-5 | 9.8 | 0.6 | 0.8 | 0.2 | 1.1 | 0.3 | 0.9 | 1.7 | 0.0 | 0.5 | 1.1 | 0.7 | 0.7 | 802 |
| 6-11 | 67.9 | 16.9 | 14.0 | 1.2 | 35.1 | 12.1 | 21.3 | 46.4 | 0.1 | 13.1 | 18.5 | 2.3 | 5.7 | 821 |
| 12-23 | 84.9 | 36.6 | 33.7 | 1.7 | 62.6 | 20.0 | 35.4 | 69.3 | 0.0 | 15.6 | 24.8 | 3.5 | 5.9 | 1,182 |
| 6-23 | 77.9 | 28.5 | 25.6 | 1.5 | 51.3 | 16.8 | 29.6 | 59.9 | 0.0 | 14.6 | 22.2 | 3.0 | 5.8 | 2,002 |
| Total | 58.5 | 20.5 | 18.5 | 1.1 | 36.9 | 12.1 | 21.4 | 43.3 | 0.0 | 10.6 | 16.1 | 2.4 | 4.4 | 2,804 |
| NONBREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-1 | * | * | * | * | * |  | * | * | * | * | * | * |  | 7 |
| 2-3 | * | * | * | * | * | * | * | * | * | * | * | * | * | 5 |
| 4-5 | * | * | * | * | * | * | * | * | * | * | * | * | * | 12 |
| 6-8 | * | * | * | * | * | * | * | * | * | * | * | * | * | 11 |
| 9-11 | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 |
| 12-17 | 90.9 | 34.4 | 21.8 | 2.4 | 79.1 | 45.1 | 36.7 | 83.1 | 0.0 | 21.1 | 46.9 | 18.0 | 9.8 | 116 |
| 18-23 | 91.6 | 53.9 | 42.9 | 0.7 | 79.2 | 37.5 | 38.5 | 80.5 | 0.0 | 24.3 | 47.5 | 11.0 | 5.9 | 419 |
| 0-5 | (8.8) | (0.0) | (0.0) | (3.5) | (2.6) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | 24 |
| 6-11 | (82.0) | (16.1) | (37.0) | (1.7) | (46.3) | (22.7) | (34.6) | (36.4) | (0.0) | (7.0) | (12.0) | (0.0) | (1.5) | 25 |
| 12-23 | 91.4 | 49.7 | 38.3 | 1.1 | 79.2 | 39.1 | 38.2 | 81.1 | 0.0 | 23.6 | 47.4 | 12.5 | 6.7 | 535 |
| 6-23 | 91.0 | 48.2 | 38.3 | 1.1 | 77.7 | 38.4 | 38.0 | 79.1 | 0.0 | 22.9 | 45.8 | 12.0 | 6.5 | 560 |
| Total | 87.7 | 46.2 | 36.7 | 1.2 | 74.7 | 36.8 | 36.4 | 75.9 | 0.0 | 22.0 | 43.9 | 11.5 | 6.2 | 584 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, and tom brown
${ }^{3}$ Includes beans, bambara beans, groundnuts, kuli kuli, groundnut paste, groundnut soup, agushi stew, neri soup, and cashews
${ }^{4}$ Includes hard and soft cheeses such as brukina, drink yogurt, cheese curds and wagashi
 7 Includes tomatoes, okro, garden eggs, cabbage, mushrooms or other vegetables, and banana, pineapple, avocado pear, watermelon, orange, or other fruits
8 Includes termites
Table 11.8-Continued

| Background characteristic | Among youngest breastfed children age 6-23 months living with their mother, percentage who received: |  |  |  | Among youngest nonbreastfed children age 6-23 months living with their mother, percentage who received: |  |  |  |  | Among all youngest children age 6-23 months living with their mother, percentage who received: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum dietary diversity ${ }^{1}$ | $\begin{gathered} \text { Minimum } \\ \text { meal } \\ \text { frequency }^{2} \\ \hline \end{gathered}$ | Minimum acceptable $\operatorname{diet}^{3}$ | Number of breastfed children age 6-23 months | $\qquad$ | Minimum dietary diversity ${ }^{1}$ | $\begin{gathered} \begin{array}{c} \text { Minimum } \\ \text { meal } \\ \text { frequency } \end{array} \\ \hline \end{gathered}$ | Minimum acceptable $\operatorname{diet}^{6}$ | Number of nonbreastfed children age 6-23 months | Minimum dietary diversity ${ }^{1}$ | $\begin{gathered} \text { Minimum } \\ \text { meal } \\ \text { frequency }^{7} \\ \hline \end{gathered}$ | Minimum acceptable $\operatorname{diet}^{8}$ | Number of all children age 6-23 months |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 36.4 | 42.7 | 21.3 | 542 | 13.1 | 34.4 | 32.1 | 12.1 | 71 | 36.2 | 41.5 | 20.3 | 613 |
| Second | 36.2 | 42.1 | 21.7 | 435 | 11.9 | 27.2 | 41.0 | 9.3 | 85 | 34.8 | 41.9 | 19.7 | 520 |
| Middle | 37.6 | 48.6 | 22.5 | 418 | 21.3 | 26.5 | 49.1 | 9.5 | 126 | 35.0 | 48.7 | 19.4 | 544 |
| Fourth | 50.4 | 50.8 | 30.6 | 325 | 28.0 | 46.4 | 74.3 | 13.5 | 129 | 49.3 | 57.5 | 25.8 | 454 |
| Highest | 56.3 | 59.0 | 40.3 | 282 | 43.2 | 57.6 | 61.8 | 25.2 | 149 | 56.7 | 59.9 | 35.1 | 431 |
| Total | 41.7 | 47.4 | 25.8 | 2,002 | 26.2 | 40.5 | 54.9 | 14.9 | 560 | 41.4 | 49.0 | 23.4 | 2,562 |

[^24]Table 11.9 Egg and/or flesh food consumption and unhealthy feeding practices among children age 6-23 months
Percentage of youngest children age 6-23 months living with their mother who consumed eggs and/or flesh food, and percentage who experienced each specified unhealthy feeding practice, during the day or night preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Eggs and/or flesh food ${ }^{1}$ | Unhealthy feeding practices: |  |  | Number of youngest children age 623 months living with their mother |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sweet beverage ${ }^{2}$ | Unhealthy food ${ }^{3}$ | $\begin{gathered} \text { Zero } \\ \begin{array}{c} \text { vegetables or } \\ \text { fruits }^{4} \end{array} \end{gathered}$ |  |
| Age in months |  |  |  |  |  |
| 6-11 | 38.6 | 18.8 | 21.0 | 50.7 | 845 |
| 6-8 | 24.6 | 14.8 | 12.7 | 63.6 | 429 |
| 9-11 | 53.0 | 22.8 | 29.6 | 37.5 | 416 |
| 12-17 | 69.7 | 35.2 | 34.0 | 24.9 | 887 |
| 18-23 | 78.7 | 40.7 | 43.7 | 18.1 | 830 |
| Sex |  |  |  |  |  |
| Male | 60.7 | 30.7 | 32.5 | 32.1 | 1,290 |
| Female | 64.0 | 32.4 | 33.2 | 30.3 | 1,273 |
| Breastfeeding status |  |  |  |  |  |
| Breastfeeding | 55.8 | 25.6 | 26.3 | 35.9 | 2,002 |
| Not breastfeeding | 85.8 | 53.0 | 56.3 | 14.6 | 560 |
| Residence |  |  |  |  |  |
| Urban | 65.7 | 38.7 | 40.1 | 29.6 | 1,206 |
| Rural | 59.3 | 25.2 | 26.4 | 32.7 | 1,356 |
| Region |  |  |  |  |  |
| Western | 69.6 | 44.5 | 52.0 | 30.7 | 157 |
| Central | 81.7 | 43.1 | 57.2 | 15.3 | 268 |
| Greater Accra | 62.3 | 36.3 | 46.1 | 26.4 | 289 |
| Volta | 67.0 | 33.7 | 46.0 | 21.2 | 107 |
| Eastern | 53.5 | 37.7 | 37.8 | 39.2 | 175 |
| Ashanti | 64.4 | 36.3 | 35.0 | 33.2 | 476 |
| Western North | 62.2 | 29.8 | 25.2 | 30.9 | 72 |
| Ahafo | 61.2 | 20.3 | 21.7 | 33.7 | 54 |
| Bono | 61.6 | 27.5 | 22.0 | 30.6 | 85 |
| Bono East | 59.2 | 28.9 | 25.0 | 35.9 | 137 |
| Oti | 69.6 | 13.8 | 22.0 | 29.0 | 82 |
| Northern | 51.3 | 18.7 | 11.4 | 45.1 | 302 |
| Savannah | 41.2 | 17.2 | 11.4 | 40.0 | 72 |
| North East | 60.3 | 20.6 | 11.6 | 30.6 | 76 |
| Upper East | 63.0 | 26.1 | 20.8 | 25.7 | 133 |
| Upper West | 45.8 | 23.0 | 15.2 | 29.5 | 79 |
| Mother's education |  |  |  |  |  |
| No education | 52.5 | 17.0 | 15.1 | 38.0 | 540 |
| Primary | 58.0 | 21.2 | 26.8 | 35.8 | 397 |
| Secondary | 65.0 | 36.5 | 39.3 | 28.9 | 1,389 |
| More than secondary | 76.4 | 53.3 | 46.0 | 21.5 | 236 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 51.7 | 14.1 | 16.3 | 33.5 | 613 |
| Second | 62.0 | 23.1 | 24.6 | 35.6 | 520 |
| Middle | 61.6 | 34.9 | 38.0 | 32.0 | 544 |
| Fourth | 69.9 | 43.3 | 45.8 | 30.2 | 454 |
| Highest | 70.8 | 50.1 | 46.3 | 22.7 | 431 |
| Total | 62.3 | 31.6 | 32.9 | 31.2 | 2,562 |

${ }^{1}$ Eggs and/or flesh food include meat, fish, poultry, organ meats, and eggs.
${ }^{2}$ Sweet beverages include sweet/flavoured milk and yogurt drinks, sweet/flavoured soy milks or nut milks, fruit juice and fruitflavoured drinks, chocolate-flavoured drinks, sodas, malt drinks, sports drinks, energy drinks, sweetened tea, coffee, herbal drinks, and other sweetened liquids.
${ }^{3}$ Unhealthy foods are a group of sentinel food types that include sweet foods such as toffees, chocolates, ice cream, FanYogo, cakes, biscuits, rock bun, toogbee, and bofrot and fried and salty foods such as packaged yellow plantain chips or potato chips, indomie, french fries, fried yam, fried potato, atomo, and spring rolls.
${ }^{4}$ Vegetables or fruits include dark green leafy vegetables such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves, or other dark green leafy vegetables; carrots or sweet potatoes that are yellow or orange inside; ripe mangoes, ripe papaya, or African star apple; other fruits and vegetables including banana, pineapple, avocado pear, watermelon, orange, tomatoes, okro, garden eggs, cabbage, and mushrooms.

Table 11.10 Infant and young child feeding (IYCF) indicators
Percentage of children fed according to various IYCF practices, Ghana DHS 2022

| IYCF | IYCF | DHS-8 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| w\# | abbrev. | table \# | Indicator | Indicator definition and denominator | Value |
| 1 | EvBF | 11.3 | Ever breastfed ${ }^{1}$ | Percentage of children born in the last 2 years who were ever breastfed Number of children born in the last 2 years | $\begin{array}{r} 96.8 \\ 3,638 \end{array}$ |
| 2 | EIBF | 11.3 | Early initiation of breastfeeding ${ }^{1}$ | Percentage of children born in the last 2 years who were put to the breast within 1 hour of birth <br> Number of children born in the last 2 years | $\begin{array}{r} 58.2 \\ 3,638 \end{array}$ |
| 3 | EBF2D | 11.3 | Exclusively breastfed for the first 2 days after birth ${ }^{1}$ | Percentage of children born in the last 2 years who were fed exclusively with breast milk for the first 2 days after birth Number of children born in the last 2 years | $\begin{array}{r} 58.2 \\ 3,638 \end{array}$ |
| 4 | EBF | 11.4 | Exclusive breastfeeding under 6 months | Percentage of children age 0-5 months who were fed exclusively with breast milk during the previous day <br> Number of youngest children age 0-5 months living with their mother | $\begin{array}{r} 52.6 \\ 826 \end{array}$ |
| 5 | MixMF | 11.4 | Mixed milk feeding under 6 months | Percentage of children age 0-5 months who were fed both breast milk and formula and/or animal milk during the previous day <br> Number of youngest children age 0-5 months living with their mother | $\begin{array}{r} 14.5 \\ 826 \end{array}$ |
| 6 | CBF | 11.4 | Continued breastfeeding 12-23 months | Percentage of children age 12-23 months who were fed breast milk during the previous day <br> Number of children age 12-23 months | $\begin{array}{r} 67.2 \\ 1,823 \end{array}$ |
| 7 | ISSSF | - | Introduction of solid, semisolid, or soft foods 6-8 months | Percentage of children age 6-8 months who were fed solid, semisolid, or soft foods during the previous day <br> Number of youngest children age 6-8 months living with their mother | $\begin{array}{r} 69.4 \\ 429 \end{array}$ |
| 8 | MDD | 11.8 | Minimum dietary diversity 6-23 months | Percentage of children age 6-23 months who were fed foods and beverages from at least five out of eight defined food groups during the previous day Number of youngest children age 6-23 months living with their mother | $\begin{array}{r} 41.4 \\ 2,562 \end{array}$ |
| 9 | MMF | 11.8 | Minimum meal frequency 6-23 months | Percentage of children age 6-23 months who were fed solid, semisolid, or soft foods (also including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day <br> Number of youngest children age 6-23 months living with their mother | $\begin{array}{r} 49.0 \\ 2,562 \end{array}$ |
| 10 | MMFF | 11.8 | Minimum milk feeding frequency for nonbreastfed children 6-23 months | Percentage of nonbreastfed children age 6-23 months who were given at least two milk feeds during the previous day <br> Number of youngest children age 6-23 months living with their mother who were not breastfed | $\begin{array}{r} 26.2 \\ 560 \end{array}$ |
| 11 | MAD | 11.8 | Minimum acceptable diet 6-23 months | Percentage of children age 6-23 months who were fed a minimum acceptable diet during the previous day <br> Number of youngest children age 6-23 months living with the mother | $\begin{array}{r} 23.4 \\ 2,562 \end{array}$ |
| 12 | EFF | 11.9 | Egg and/or flesh food consumption 6-23 months | Percentage of children age 6-23 months who were fed eggs and/or flesh food during the previous day <br> Number of youngest children age 6--3 months living with their mother | $\begin{array}{r} 62.3 \\ 2,562 \end{array}$ |
| 13 | SWB | 11.9 | Sweet beverage consumption 6-23 months | Percentage of children age 6-23 months who were given a sweet beverage during the previous day <br> Number of youngest children age 6-23 months living with their mother | $\begin{array}{r} 31.6 \\ 2,562 \end{array}$ |
| 14 | UFC | 11.9 | Unhealthy food consumption 6-23 months | Percentage of children age 6-23 months who were fed selected sentinel unhealthy foods during the previous day <br> Number of youngest children age 6-23 months living with their mother | $\begin{array}{r} 32.9 \\ 2,562 \end{array}$ |
| 15 | ZVF | 11.9 | Zero vegetable or fruit consumption 6-23 months | Percentage of children age 6-23 months who were not fed any vegetables or fruits during the previous day <br> Number of youngest children age 6-23 months living with their mother | $\begin{array}{r} 31.2 \\ 2,562 \end{array}$ |
| 16 | BoF | 11.4 | Bottle feeding 0-23 months | Percentage of children age 0-23 months who were fed from a bottle with a nipple during the previous day <br> Number of children age 0-23 months | $\begin{array}{r} 21.0 \\ 3,541 \end{array}$ |

[^25]Table 11.11 Infant and young child feeding counselling
Among women age 15-49 whose youngest child age 6-23 months is living with them, percentage who talked with a health care provider or community health worker about how or what to feed their child in the last 6 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Counselled in last 6 months about how or what to feed their child | Number of women whose youngest child age 6-23 months is living with them |
| :---: | :---: | :---: |
| Child's age in months |  |  |
| 6-11 | 52.9 | 845 |
| 12-23 | 47.9 | 1,717 |
| Child's sex |  |  |
| Male | 50.1 | 1,290 |
| Female | 49.0 | 1,273 |
| Age |  |  |
| 15-19 | 44.0 | 150 |
| 20-29 | 50.0 | 1,161 |
| 30-39 | 49.1 | 1,037 |
| 40-49 | 52.6 | 214 |
| Residence |  |  |
| Urban | 53.3 | 1,206 |
| Rural | 46.2 | 1,356 |
| Region |  |  |
| Western | 49.0 | 157 |
| Central | 53.5 | 268 |
| Greater Accra | 65.7 | 289 |
| Volta | 63.9 | 107 |
| Eastern | 52.3 | 175 |
| Ashanti | 47.5 | 476 |
| Western North | 55.8 | 72 |
| Ahafo | 44.6 | 54 |
| Bono | 61.0 | 85 |
| Bono East | 25.7 | 137 |
| Oti | 44.7 | 82 |
| Northern | 38.0 | 302 |
| Savannah | 31.4 | 72 |
| North East | 40.8 | 76 |
| Upper East | 65.1 | 133 |
| Upper West | 39.6 | 79 |
| Education |  |  |
| No education | 36.7 | 540 |
| Primary | 45.8 | 397 |
| Secondary | 54.9 | 1,389 |
| More than secondary | 53.9 | 236 |
| Wealth quintile |  |  |
| Lowest | 38.4 | 613 |
| Second | 48.0 | 520 |
| Middle | 50.3 | 544 |
| Fourth | 57.1 | 454 |
| Highest | 58.4 | 431 |
| Total | 49.5 | 2,562 |

Table 11.12 Prevalence of anaemia in children
Percentage of children age 6-59 months classified as having anaemia, according to background characteristics, Ghana DHS 2022

| Background characteristic | Anaemia status by haemoglobin level |  |  |  | Number of children age 659 months |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Any } \\ (<11.0 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | $\begin{gathered} \hline \text { Mild } \\ (10.0-10.9 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Moderate $(7.0-9.9 \mathrm{~g} / \mathrm{dl})$ | Severe $(<7.0 \mathrm{~g} / \mathrm{dl})$ |  |
| Age in months |  |  |  |  |  |
| 6-11 | 60.5 | 34.2 | 26.2 | 0.0 | 422 |
| 12-23 | 60.0 | 28.7 | 29.7 | 1.7 | 918 |
| 24-35 | 49.0 | 29.6 | 18.3 | 1.1 | 811 |
| 36-47 | 44.0 | 26.4 | 17.1 | 0.5 | 860 |
| 48-59 | 35.9 | 23.6 | 12.0 | 0.2 | 826 |
| 6-23 | 60.2 | 30.4 | 28.6 | 1.2 | 1,340 |
| 24-59 | 42.9 | 26.5 | 15.8 | 0.6 | 2,497 |
| Sex |  |  |  |  |  |
| Male | 51.7 | 29.1 | 21.8 | 0.7 | 1,947 |
| Female | 46.2 | 26.6 | 18.7 | 0.9 | 1,889 |
| Mother's interview status |  |  |  |  |  |
| Interviewed | 49.2 | 27.7 | 20.6 | 0.9 | 3,424 |
| Not interviewed but in household | 54.5 | 27.0 | 27.1 | 0.5 | 67 |
| Not interviewed and not in the household ${ }^{1}$ | 45.1 | 29.5 | 15.4 | 0.2 | 346 |
| Residence |  |  |  |  |  |
| Urban | 41.4 | 26.0 | 14.9 | 0.5 | 1,881 |
| Rural | 56.2 | 29.7 | 25.4 | 1.1 | 1,956 |
| Region |  |  |  |  |  |
| Western | 46.1 | 28.5 | 16.5 | 1.1 | 241 |
| Central | 44.7 | 27.9 | 16.4 | 0.3 | 397 |
| Greater Accra | 36.2 | 24.2 | 11.5 | 0.6 | 462 |
| Volta | 51.3 | 32.8 | 17.6 | 0.9 | 154 |
| Eastern | 38.3 | 22.8 | 15.1 | 0.4 | 294 |
| Ashanti | 40.6 | 27.9 | 12.7 | 0.0 | 705 |
| Western North | 45.1 | 33.5 | 11.6 | 0.0 | 90 |
| Ahafo | 35.4 | 25.2 | 9.8 | 0.4 | 87 |
| Bono | 40.1 | 23.1 | 17.0 | 0.0 | 124 |
| Bono East | 51.4 | 27.1 | 23.7 | 0.7 | 185 |
| Oti | 60.6 | 35.2 | 25.4 | 0.0 | 119 |
| Northern | 69.4 | 32.2 | 35.0 | 2.2 | 430 |
| Savannah | 62.8 | 28.5 | 32.6 | 1.6 | 113 |
| North East | 64.9 | 28.0 | 34.7 | 2.2 | 130 |
| Upper East | 69.3 | 27.0 | 40.6 | 1.8 | 184 |
| Upper West | 61.2 | 29.0 | 30.5 | 1.7 | 122 |
| Mother's education |  |  |  |  |  |
| No education | 60.0 | 28.7 | 29.7 | 1.6 | 858 |
| Primary | 58.7 | 31.5 | 25.9 | 1.3 | 517 |
| Secondary | 44.0 | 26.2 | 17.3 | 0.5 | 1,815 |
| More than secondary | 34.7 | 27.4 | 7.1 | 0.2 | 300 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 63.9 | 30.0 | 32.3 | 1.6 | 900 |
| Second | 53.2 | 29.0 | 23.3 | 1.0 | 789 |
| Middle | 48.1 | 29.3 | 18.3 | 0.5 | 742 |
| Fourth | 43.2 | 27.7 | 14.9 | 0.6 | 730 |
| Highest | 31.2 | 22.4 | 8.8 | 0.1 | 676 |
| Total | 48.9 | 27.9 | 20.3 | 0.8 | 3,837 |

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anaemia. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using formulas in CDC 1998 and cutoffs defined in WHO 2017d. Haemoglobin is measured in grams per decilitre (g/dl) using the HemoCue 201+ device.
${ }^{1}$ Includes children whose mothers are deceased

Table 11.13 Micronutrient supplementation and deworming among children
Among children age 6-59 months, percentages who were given iron tablets or syrups, micronutrient powders, and iron-containing supplements in the last 12 months and percentage who were given vitamin A supplements in the last 6 months, and among children age 12-59 months, percentage who were given deworming medication in the last 6 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among children age 6-59 months: |  |  | Among children age 12-59 months: |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage given iron-containing supplements in last 12 months ${ }^{1,2}$ | Percentage given vitamin A supplements in last 6 months ${ }^{3}$ | Number of children | Percentage given deworming medication in last 6 months ${ }^{1,4}$ | Number of children |
| Age in months |  |  |  |  |  |
| 6-8 | 29.0 | 73.3 | 439 | na | na |
| 9-11 | 38.4 | 87.9 | 428 | na | na |
| 12-17 | 52.8 | 88.5 | 918 | 29.9 | 918 |
| 18-23 | 58.7 | 86.0 | 905 | 41.2 | 905 |
| 24-35 | 59.3 | 78.2 | 1,546 | 51.4 | 1,546 |
| 36-47 | 53.0 | 70.3 | 1,632 | 50.8 | 1,632 |
| 48-59 | 46.1 | 57.9 | 1,596 | 48.9 | 1,596 |
| 6-23 | 48.6 | 85.1 | 2,691 | 35.5 | 1,823 |
| 24-59 | 52.8 | 68.7 | 4,774 | 50.3 | 4,774 |
| Sex |  |  |  |  |  |
| Male | 50.9 | 74.1 | 3,764 | 46.1 | 3,326 |
| Female | 51.7 | 75.2 | 3,700 | 46.4 | 3,271 |
| Breastfeeding status ${ }^{5}$ |  |  |  |  |  |
| Breastfeeding | 45.5 | 84.5 | 2,163 | 33.2 | 1,326 |
| Not breastfeeding | 59.2 | 78.8 | 2,323 | 49.9 | 2,292 |
| Mother's age 48.5 |  |  |  |  |  |
| 15-19 | 48.5 | 83.6 | 230 | 42.1 | 160 |
| 20-29 | 51.5 | 75.2 | 2,996 | 43.9 | 2,590 |
| 30-39 | 51.0 | 73.5 | 3,351 | 47.4 | 3,020 |
| 40-49 | 52.1 | 74.8 | 887 | 50.1 | 827 |
| Residence |  |  |  |  |  |
| Urban | 55.5 | 75.2 | 3,668 | 51.7 | 3,255 |
| Rural | 47.1 | 74.0 | 3,796 | 41.0 | 3,342 |
| Region |  |  |  |  |  |
| Western | 59.7 | 71.5 | 473 | 48.2 | 420 |
| Central | 59.2 | 78.9 | 760 | 52.0 | 666 |
| Greater Accra | 51.5 | 72.4 | 943 | 51.1 | 848 |
| Volta | 41.7 | 74.9 | 290 | 35.3 | 255 |
| Eastern | 60.0 | 84.7 | 546 | 58.2 | 481 |
| Ashanti | 59.0 | 75.7 | 1,360 | 55.7 | 1,218 |
| Western North | 52.2 | 72.4 | 198 | 52.3 | 173 |
| Ahafo | 53.6 | 81.5 | 164 | 53.5 | 144 |
| Bono | 47.8 | 83.3 | 251 | 41.1 | 225 |
| Bono East | 47.6 | 67.6 | 390 | 42.6 | 347 |
| Oti | 37.0 | 78.5 | 238 | 36.7 | 208 |
| Northern | 32.0 | 60.9 | 837 | 29.3 | 722 |
| Savannah | 51.7 | 67.6 | 216 | 30.1 | 192 |
| North East | 50.6 | 78.8 | 231 | 30.5 | 206 |
| Upper East | 53.4 | 87.3 | 350 | 48.2 | 300 |
| Upper West | 40.8 | 74.2 | 218 | 31.3 | 195 |
| Mother's education |  |  |  |  |  |
| No education | 40.2 | 67.1 | 1,746 | 34.9 | 1,570 |
| Primary | 49.4 | 73.5 | 1,119 | 38.4 | 998 |
| Secondary | 55.0 | 77.5 | 3,893 | 51.8 | 3,403 |
| More than secondary | 60.9 | 78.9 | 707 | 56.8 | 625 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 40.6 | 69.7 | 1,746 | 34.0 | 1,533 |
| Second | 47.6 | 77.0 | 1,512 | 40.6 | 1,356 |
| Middle | 51.9 | 73.5 | 1,467 | 46.3 | 1,279 |
| Fourth | 60.8 | 75.9 | 1,411 | 53.6 | 1,241 |
| Highest | 58.6 | 78.2 | 1,329 | 60.9 | 1,188 |
| Total | 51.3 | 74.6 | 7,465 | 46.3 | 6,597 |

[^26]${ }^{1}$ Based on mother's recall
${ }^{2}$ Iron-containing supplements include tablets, syrup, and micronutrient powders.
${ }^{3}$ Based on both mother's recall and the vaccination card (where available)
${ }^{4}$ Deworming for intestinal parasites is commonly done for helminths and schistosomiasis.
${ }^{5}$ Information available for children age 0-35 months only
Table 11．14．1 Nutritional status of women age 20－49

|  | Short stature |  | Body mass index ${ }^{1}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Height below 145 cm | Number of women | Mean body mass index （BMI） | $\begin{gathered} \text { 18.5-24.9 } \\ \text { (total normal) } \end{gathered}$ | $\begin{gathered} <18.5 \\ \text { (total thin) } \end{gathered}$ | 17.0-18.4 <br> （mildly thin） | ```<17 (moderately and severely thin)``` | $\geq 25.0$ （total over－ weight or obese） | $\begin{gathered} 25.0-29.9 \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \end{gathered}$ | Number of women | No №n ～̌ N N


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$\stackrel{\infty}{\forall} \stackrel{+}{\dot{\sim}} \stackrel{m}{\infty} \quad \hat{\sim}$
$\stackrel{+}{\circ} \stackrel{\bullet}{\infty}$


Note：Body mass index（BMI）is expressed as the ratio of weight in kilograms to the square of height in metres $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$ ．
${ }^{1}$ Excludes pregnant women and women with a birth in the preceding 2 months

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$$

Table 11．14．3 Nutritional status of men age 20－49
Among men age 20－49，mean body mass index（BMI）and percentage with specific BMI levels，according to background characteristics，Ghana DHS 2022

|  | Body mass index |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Mean body mass index （BMI） | 18．5－24．9 （total normal） | <18.5 <br> （total thin） | 17.0-18.4 (mildly thin) | ```<17 (moderately and severely thin)``` | $\geq 25.0$ （total over－ weight or obese） | $\begin{gathered} 25.0-29.9 \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \end{gathered}$ | Number of men |


|  | $\begin{aligned} & \hat{N}{ }_{c}^{o} \\ & \hat{\sim} \\ & \end{aligned}$ | のヅかス ら的 $\infty$ | No No Nio |  |
| :---: | :---: | :---: | :---: | :---: |
| O | مִ |  | $\stackrel{N}{N} \stackrel{\infty}{\sim} \stackrel{\bullet}{\infty} \stackrel{m}{N}$ |  |
| ふi దૂ N N N | $\begin{aligned} & \text { No } \\ & \stackrel{0}{\mathrm{~N}} \mathrm{O} \end{aligned}$ |  <br>  |  |  ம○のベ® ஸ ஸ |
| $\stackrel{M}{\dot{\Gamma}} \underset{\sim}{\underset{\sim}{*}}$ |  |  <br>  |  |  |

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Note：Body mass index（BMI）is expressed as the ratio of weight in kilograms to the square of height in metres $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$ ．
Table 11.15 Foods and liquids consumed by women in the day or night preceding the interview
Percentage of women age 15-49 by type of foods and liquids consumed in the day or night preceding the interview, according to background characteristics, Ghana DHS 2022

| Background characteristic | Foods made from grains ${ }^{1}$ | White/ pale starchy roots, tubers, and plantains ${ }^{2}$ | Beans, peas, lentils ${ }^{3}$ | Nuts and seeds ${ }^{4}$ | Milk, cheese, yogurt, other milk products | Meat, fish, poultry, organ meats ${ }^{5}$ | Eggs | Dark green leafy vegetables ${ }^{6}$ | Other vitamin Arich fruits and vegetables ${ }^{7}$ | Other vegetables ${ }^{8}$ | Other fruits ${ }^{9}$ | Insects and other small protein foods ${ }^{10}$ | Red palm oil | Sweet foods such as chocolates, candies, pastries, cakes, biscuits, ice cream, and popsicles | Fried and salty foods such as chips, crisps, puffs, french fries, and fried dough | Fruit juice and fruitflavoured drinks | Sodas, malt drinks, sports drinks, and energy drinks | Sweetened tea, coffee, herbal drinks, and other sweetened beverages ${ }^{11}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 92.5 | 61.4 | 26.2 | 33.3 | 15.9 | 88.6 | 32.2 | 71.6 | 15.0 | 48.3 | 33.9 | 0.2 | 27.2 | 34.0 | 16.3 | 12.1 | 19.7 | 16.6 | 2,682 |
| 20-29 | 91.4 | 59.3 | 24.9 | 34.2 | 16.8 | 90.3 | 30.0 | 72.8 | 16.3 | 49.0 | 33.1 | 0.1 | 29.3 | 22.9 | 11.4 | 10.9 | 20.0 | 17.9 | 5,034 |
| 30-39 | 90.8 | 62.0 | 22.6 | 36.2 | 16.0 | 92.2 | 26.0 | 73.2 | 16.9 | 52.6 | 34.8 | 0.3 | 31.3 | 18.6 | 9.0 | 8.8 | 18.8 | 18.1 | 4,311 |
| 40-49 | 89.6 | 66.1 | 20.3 | 32.2 | 11.7 | 92.5 | 21.8 | 68.3 | 13.8 | 57.1 | 34.4 | 0.1 | 32.7 | 14.0 | 6.5 | 8.2 | 17.1 | 16.3 | 2,987 |
| Maternity status |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pregnant | 91.0 | 62.2 | 27.8 | 36.6 | 14.7 | 90.6 | 29.2 | 71.0 | 17.0 | 50.1 | 37.1 | 0.3 | 29.9 | 19.7 | 8.9 | 9.1 | 17.5 | 17.2 | 1,025 |
| Not pregnant ${ }^{12}$ | 91.1 | 61.8 | 23.2 | 34.0 | 15.4 | 91.0 | 27.5 | 71.9 | 15.7 | 51.6 | 33.8 | 0.2 | 30.2 | 22.0 | 10.7 | 10.0 | 19.1 | 17.4 | 13,989 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 92.1 | 58.7 | 22.0 | 30.8 | 20.9 | 91.9 | 34.7 | 70.9 | 18.7 | 49.2 | 35.9 | 0.2 | 31.7 | 25.7 | 13.6 | 12.6 | 22.7 | 21.8 | 8,557 |
| Rural | 89.7 | 65.9 | 25.5 | 38.7 | 8.1 | 89.8 | 18.3 | 73.1 | 11.8 | 54.6 | 31.4 | 0.1 | 28.3 | 16.8 | 6.6 | 6.5 | 14.1 | 11.6 | 6,457 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 92.5 | 66.4 | 20.3 | 30.6 | 20.9 | 96.3 | 41.3 | 91.2 | 16.0 | 37.5 | 43.8 | 0.0 | 36.1 | 33.3 | 14.1 | 13.7 | 31.0 | 22.1 | 955 |
| Central | 92.0 | 70.3 | 23.9 | 28.7 | 17.3 | 95.4 | 32.5 | 46.9 | 13.6 | 72.3 | 45.2 | 0.2 | 51.9 | 30.5 | 13.7 | 7.7 | 22.2 | 14.4 | 1,703 |
| Greater Accra | 93.0 | 44.9 | 19.8 | 23.0 | 25.3 | 92.6 | 37.4 | 70.5 | 27.4 | 45.4 | 35.8 | 0.0 | 32.2 | 29.2 | 17.0 | 15.2 | 25.7 | 24.7 | 2,327 |
| Volta | 97.4 | 52.0 | 19.0 | 23.0 | 12.4 | 94.6 | 20.7 | 93.4 | 15.4 | 35.2 | 39.2 | 0.2 | 30.4 | 28.6 | 11.7 | 10.5 | 20.2 | 12.0 | 713 |
| Eastern | 88.3 | 69.3 | 24.6 | 33.2 | 17.6 | 94.7 | 30.8 | 59.9 | 15.9 | 61.9 | 35.9 | 0.1 | 46.6 | 22.5 | 6.6 | 7.7 | 18.1 | 14.4 | 1,220 |
| Ashanti | 88.3 | 67.0 | 18.8 | 31.0 | 13.6 | 86.8 | 34.4 | 64.3 | 12.9 | 54.1 | 32.6 | 0.1 | 33.6 | 19.6 | 11.0 | 8.6 | 18.5 | 14.4 | 2,928 |
| Western North | 88.2 | 78.8 | 23.9 | 33.1 | 8.8 | 91.2 | 24.9 | 85.3 | 6.5 | 49.1 | 42.4 | 0.3 | 33.2 | 17.8 | 6.7 | 5.7 | 14.7 | 9.3 | 411 |
| Ahafo | 89.6 | 80.9 | 20.8 | 42.2 | 8.2 | 92.2 | 26.1 | 84.0 | 8.4 | 54.0 | 48.1 | 0.1 | 36.4 | 11.9 | 6.8 | 7.0 | 11.1 | 11.1 | 317 |
| Bono | 90.5 | 80.4 | 15.9 | 28.4 | 11.0 | 94.3 | 24.7 | 85.3 | 12.1 | 43.7 | 30.1 | 0.2 | 17.6 | 15.4 | 9.6 | 11.1 | 18.1 | 14.1 | 567 |
| Bono East | 87.2 | 79.2 | 18.4 | 34.2 | 8.8 | 92.2 | 20.5 | 75.9 | 9.2 | 47.0 | 28.7 | 0.0 | 19.3 | 16.5 | 7.8 | 8.7 | 22.7 | 16.6 | 676 |
| Oti | 82.8 | 75.8 | 24.6 | 34.7 | 8.5 | 96.0 | 9.5 | 86.4 | 10.3 | 36.0 | 35.1 | 0.0 | 24.2 | 17.0 | 8.0 | 8.0 | 9.7 | 10.2 | 403 |
| Northern | 90.0 | 57.3 | 34.0 | 60.1 | 14.3 | 85.5 | 12.2 | 74.7 | 12.6 | 44.5 | 20.9 | 1.0 | 7.3 | 13.2 | 5.9 | 8.2 | 8.4 | 27.8 | 1,149 |
| Savannah | 90.8 | 55.9 | 21.8 | 30.5 | 8.9 | 86.0 | 4.4 | 79.8 | 4.8 | 40.4 | 13.5 | 0.1 | 2.6 | 10.4 | 3.0 | 2.7 | 9.7 | 18.3 | 319 |
| North East | 98.4 | 31.1 | 56.5 | 62.1 | 8.9 | 87.7 | 11.3 | 85.1 | 9.2 | 73.2 | 20.9 | 0.2 | 10.0 | 7.4 | 3.0 | 14.5 | 12.2 | 25.1 | 290 |
| Upper East | 97.9 | 34.5 | 41.6 | 65.8 | 8.9 | 84.7 | 12.9 | 84.0 | 35.4 | 57.6 | 30.8 | 0.2 | 11.0 | 14.6 | 9.1 | 14.4 | 13.7 | 11.8 | 640 |
| Upper West | 96.0 | 50.7 | 29.7 | 38.7 | 8.0 | 82.1 | 6.6 | 84.3 | 5.7 | 49.7 | 9.6 | 0.0 | 4.2 | 8.9 | 2.0 | 5.2 | 8.1 | 17.3 | 398 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 89.3 | 61.0 | 28.1 | 44.5 | 6.5 | 88.7 | 10.8 | 73.3 | 9.2 | 56.3 | 24.8 | 0.1 | 18.7 | 7.3 | 2.5 | 4.3 | 8.0 | 13.1 | 2,411 |
| Primary | 90.8 | 65.0 | 21.0 | 33.7 | 8.4 | 91.0 | 18.5 | 68.4 | 10.3 | 53.9 | 27.7 | 0.1 | 28.3 | 15.9 | 6.2 | 7.2 | 13.8 | 11.9 | 2,071 |
| Secondary | 91.3 | 62.8 | 22.9 | 32.0 | 15.6 | 91.0 | 31.0 | 70.6 | 16.6 | 51.6 | 36.1 | 0.2 | 33.2 | 25.8 | 12.8 | 10.7 | 21.9 | 17.3 | 8,999 |
| More than secondary | 93.1 | 52.8 | 23.5 | 31.6 | 37.2 | 94.0 | 46.6 | 80.8 | 28.5 | 40.3 | 44.9 | 0.4 | 33.1 | 29.6 | 16.4 | 18.4 | 26.4 | 32.6 | 1,533 |


| Background characteristic | Foods made from grains ${ }^{1}$ | White/ pale starchy roots, tubers, and plantains ${ }^{2}$ | Beans, peas, lentils ${ }^{3}$ | Nuts and seeds ${ }^{4}$ | Milk, cheese, yogurt, other milk products | Meat, fish, poultry, organ meats ${ }^{5}$ | Eggs | Dark green leafy vegetables ${ }^{6}$ | Other vitamin Arich fruits and vegetables ${ }^{7}$ | Other vegetables ${ }^{8}$ | Other fruits ${ }^{9}$ | Insects and other small protein foods ${ }^{10}$ | Red palm oil | Sweet foods such as chocolates, candies, pastries, cakes, biscuits, ice cream, and popsicles | Fried and salty foods such as chips, crisps, puffs, french fries, and fried dough | Fruit juice and fruitflavoured drinks | Sodas, malt drinks, sports drinks, and energy drinks | Sweetened tea, coffee, herbal drinks, and other sweetened beverages ${ }^{11}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 90.6 | 59.4 | 27.9 | 45.0 | 4.5 | 87.3 | 8.9 | 79.3 | 10.0 | 53.8 | 24.5 | 0.1 | 19.1 | 9.5 | 2.9 | 4.7 | 7.9 | 8.7 | 2,447 |
| Second | 89.1 | 69.1 | 23.7 | 38.7 | 7.1 | 90.2 | 16.5 | 72.4 | 11.4 | 54.2 | 29.2 | 0.1 | 27.0 | 16.3 | 5.9 | 6.4 | 12.4 | 11.1 | 2,712 |
| Middle | 90.6 | 66.6 | 22.3 | 34.3 | 11.8 | 91.4 | 25.8 | 68.0 | 11.3 | 53.2 | 34.5 | 0.2 | 32.0 | 22.5 | 10.0 | 9.2 | 16.8 | 14.2 | 3,121 |
| Fourth | 91.6 | 59.0 | 23.1 | 29.9 | 18.0 | 91.6 | 33.8 | 67.8 | 17.4 | 52.5 | 36.6 | 0.2 | 34.1 | 26.0 | 13.8 | 11.0 | 23.0 | 19.9 | 3,379 |
| Highest | 92.8 | 55.9 | 21.8 | 26.9 | 30.7 | 93.2 | 45.7 | 73.5 | 25.9 | 45.3 | 41.7 | 0.3 | 35.3 | 30.6 | 17.3 | 16.3 | 30.4 | 29.3 | 3,355 |
| Total | 91.1 | 61.8 | 23.5 | 34.2 | 15.4 | 91.0 | 27.6 | 71.8 | 15.7 | 51.5 | 34.0 | 0.2 | 30.2 | 21.9 | 10.6 | 10.0 | 19.0 | 17.4 | 15,014 |
| ${ }^{1}$ Includes bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, and tom brown |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{2}$ Includes fufu, gari, kokonte, cassava, yam, cocoyam, plantain, and white sweet potato |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{3}$ Includes beans and bambara beans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{4}$ Includes groundnuts, kuli kuli, groundnut paste, groundnut soup, agushi stew, neri soup, and cashews |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{5}$ Includes gizzard, liver, sausages, corned beef, beef, goat, sheep, pork, grasscutter, chicken, guinea fowl, fish, dried fish, koobi, anchovies, smoked herring, crab, and shrimp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{6}$ Includes cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves, and other dark green leafy vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{7}$ Includes carrots or sweet potatoes that are yellow or orange inside, ripe mango, ripe papaya, and African star apple |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{8}$ Includes tomatoes, okro, garden eggs, cabbage, mushrooms, and other vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{9}$ Includes banana, pineapple, avocado pear, watermelon, orange, and other <br> ${ }^{10}$ Includes termites |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{11}$ Includes milo, tea with sugar, and coffee with sugar |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{12}$ Includes women who do not know if they are pregnant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 11.16 Minimum dietary diversity and unhealthy food and beverage consumption among women
Percentage of women age 15-49 consuming sweet beverages, percentage consuming sentinel unhealthy foods, and percentage achieving minimum dietary diversity for women, according to background characteristics, Ghana DHS 2022

| Background characteristic | Minimum dietary diversity for women ${ }^{1}$ | Sweet beverage consumption ${ }^{2}$ | Unhealthy food consumption ${ }^{3}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |
| 15-19 | 50.1 | 37.0 | 40.7 | 2,682 |
| 20-29 | 50.9 | 39.1 | 29.6 | 5,034 |
| 30-39 | 51.1 | 36.6 | 24.1 | 4,311 |
| 40-49 | 46.5 | 34.6 | 18.0 | 2,987 |
| Maternity status |  |  |  |  |
| Pregnant | 51.3 | 35.4 | 25.5 | 1,025 |
| Not pregnant ${ }^{4}$ | 49.8 | 37.2 | 27.9 | 13,989 |
| Residence |  |  |  |  |
| Urban | 52.4 | 44.7 | 33.0 | 8,557 |
| Rural | 46.7 | 27.0 | 20.7 | 6,457 |
| Region |  |  |  |  |
| Western | 60.8 | 51.9 | 40.7 | 955 |
| Central | 55.7 | 37.1 | 37.7 | 1,703 |
| Greater Accra | 52.6 | 51.4 | 38.4 | 2,327 |
| Volta | 46.1 | 34.1 | 33.7 | 713 |
| Eastern | 53.4 | 34.9 | 26.4 | 1,220 |
| Ashanti | 45.6 | 34.9 | 27.0 | 2,928 |
| Western North | 50.4 | 24.8 | 21.5 | 411 |
| Ahafo | 56.8 | 24.6 | 16.3 | 317 |
| Bono | 44.8 | 31.8 | 21.1 | 567 |
| Bono East | 37.3 | 36.5 | 19.5 | 676 |
| Oti | 40.8 | 22.3 | 21.4 | 403 |
| Northern | 46.1 | 33.5 | 15.3 | 1,149 |
| Savannah | 25.3 | 26.3 | 12.6 | 319 |
| North East | 64.7 | 39.9 | 9.2 | 290 |
| Upper East | 68.1 | 28.0 | 18.9 | 640 |
| Upper West | 34.8 | 25.1 | 10.0 | 398 |
| Education |  |  |  |  |
| No education | 42.4 | 22.1 | 9.1 | 2,411 |
| Primary | 40.9 | 27.6 | 19.5 | 2,071 |
| Secondary | 51.0 | 39.9 | 32.8 | 8,999 |
| More than secondary | 67.6 | 57.1 | 38.1 | 1,533 |
| Wealth quintile |  |  |  |  |
| Lowest | 43.6 | 18.2 | 11.3 | 2,447 |
| Second | 43.5 | 25.1 | 19.4 | 2,712 |
| Middle | 47.7 | 33.8 | 28.0 | 3,121 |
| Fourth | 51.2 | 43.0 | 34.2 | 3,379 |
| Highest | 60.6 | 57.8 | 39.5 | 3,355 |
| Total | 49.9 | 37.1 | 27.7 | 15,014 |

${ }^{1}$ Minimum dietary diversity for women is defined as consuming foods from five or more of the following 10 food groups: a. grains, white/pale starchy roots, tubers, and plantains; b. pulses (beans, peas, lentils); c. nuts and seeds; d. dairy (milk, cheese, yogurt, other milk products); e. meat, fish, poultry, organ meats; f. eggs; g. dark green leafy vegetables; h. other vitamin A-rich fruits and vegetables; i. other vegetables; j. other fruits.
${ }^{2}$ Sweet beverages include fruit juice and fruit-flavoured drinks, sodas, malt drinks, sports drinks, energy drinks, sweetened tea coffee, herbal drinks, and other sweetened liquids.
${ }^{3}$ Unhealthy foods include sweet foods such as toffees, chocolates, ice cream, FanYogo, cakes, biscuits, rock bun, toogbee, and bofrot and fried and salty foods such as packaged yellow plantain chips or potato chips, indomie, french fries, fried yam, fried potato, atomo, and spring rolls.
${ }_{4}^{4}$ Includes women who do not know if they are pregnant

Table 11.17 Prevalence of anaemia in women
Percentage of women age 15-49 classified as having anaemia, according to background characteristics, Ghana DHS 2022

| Background characteristic | Anaemia status by haemoglobin level |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Any } \\ (\mathrm{NP}<12.0 \mathrm{~g} / \mathrm{d} / / \\ \mathrm{P}<11.0 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Mild (NP 11.0-11.9 g/dl/ $/$ P 10.0-10.9 g/dl) | Moderate (NP $8.0-10.9 \mathrm{~g} / \mathrm{d} / /$ P $7.0-9.9 \mathrm{~g} / \mathrm{dl})$ | $\begin{gathered} \text { Severe } \\ (\mathrm{NP}<8.0 \mathrm{~g} / \mathrm{dl} / / \\ \mathrm{P}<7.0 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Number of women |
| Age |  |  |  |  |  |
| 15-19 | 43.8 | 22.6 | 19.7 | 1.6 | 1,365 |
| 20-29 | 39.3 | 22.7 | 16.2 | 0.3 | 2,564 |
| 30-39 | 38.9 | 22.1 | 15.7 | 1.2 | 2,205 |
| 40-49 | 45.0 | 23.3 | 19.5 | 2.2 | 1,521 |
| Number of children ever born |  |  |  |  |  |
| 0 | 41.3 | 21.9 | 18.0 | 1.3 | 2,453 |
| 1 | 39.6 | 23.5 | 15.5 | 0.7 | 1,261 |
| 2-3 | 38.9 | 22.8 | 14.9 | 1.1 | 1,917 |
| 4-5 | 42.9 | 22.4 | 19.6 | 1.0 | 1,312 |
| $6+$ | 46.0 | 23.4 | 20.7 | 1.8 | 712 |
| Maternity status |  |  |  |  |  |
| Pregnant | 51.4 | 28.6 | 22.6 | 0.2 | 514 |
| Not pregnant ${ }^{1}$ | 40.4 | 22.2 | 17.0 | 1.2 | 7,141 |
| Using IUD |  |  |  |  |  |
| Yes | (60.4) | (35.0) | (25.4) | (0.0) | 48 |
| No | 41.0 | 22.6 | 17.3 | 1.2 | 7,607 |
| Residence |  |  |  |  |  |
| Urban | 39.4 | 22.4 | 15.5 | 1.5 | 4,377 |
| Rural | 43.4 | 23.0 | 19.8 | 0.7 | 3,278 |
| Region |  |  |  |  |  |
| Western | 45.9 | 23.8 | 21.2 | 1.0 | 487 |
| Central | 44.4 | 23.6 | 19.5 | 1.2 | 894 |
| Greater Accra | 38.8 | 21.7 | 14.7 | 2.4 | 1,246 |
| Volta | 43.0 | 21.0 | 20.1 | 1.9 | 337 |
| Eastern | 37.5 | 22.9 | 13.2 | 1.5 | 630 |
| Ashanti | 37.5 | 22.0 | 14.7 | 0.8 | 1,486 |
| Western North | 36.3 | 20.0 | 15.8 | 0.5 | 189 |
| Ahafo | 35.6 | 22.0 | 13.3 | 0.3 | 160 |
| Bono | 30.1 | 17.8 | 11.9 | 0.4 | 297 |
| Bono East | 40.3 | 20.4 | 19.0 | 0.9 | 327 |
| Oti | 51.8 | 27.3 | 24.0 | 0.5 | 194 |
| Northern | 48.4 | 25.6 | 22.2 | 0.6 | 568 |
| Savannah | 43.2 | 24.6 | 17.9 | 0.6 | 169 |
| North East | 45.0 | 23.7 | 20.4 | 0.9 | 139 |
| Upper East | 47.0 | 23.5 | 22.9 | 0.6 | 331 |
| Upper West | 46.3 | 25.3 | 21.0 | 0.0 | 200 |
| Education |  |  |  |  |  |
| No education | 45.4 | 22.3 | 21.7 | 1.5 | 1,214 |
| Primary | 42.6 | 22.8 | 18.9 | 0.9 | 1,072 |
| Secondary | 40.3 | 22.9 | 16.3 | 1.2 | 4,619 |
| More than secondary | 36.8 | 21.4 | 14.6 | 0.8 | 751 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 46.6 | 23.3 | 22.5 | 0.8 | 1,224 |
| Second | 41.8 | 23.1 | 17.6 | 1.1 | 1,366 |
| Middle | 40.8 | 21.8 | 17.9 | 1.2 | 1,563 |
| Fourth | 39.3 | 21.9 | 16.2 | 1.2 | 1,788 |
| Highest | 38.8 | 23.4 | 14.2 | 1.3 | 1,714 |
| Total | 41.1 | 22.6 | 17.3 | 1.1 | 7,655 |

Note: Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude and for cigarette smoking, if known, using formulas in CDC 1998 and cutoffs defined in WHO 2017d. Haemoglobin is measured in grams per decilitre ( $\mathrm{g} / \mathrm{dl}$ ) using the HemoCue 201+ device. Figures in parentheses are based on 25-49 unweighted cases.
$\mathrm{NP}=$ nonpregnant
$\mathrm{P}=$ pregnant
${ }^{1}$ Includes women who do not know if they are pregnant

Table 11.18 Presence of iodised salt in household
Among all households, percentage with salt tested for iodine content, percentage with salt in the household but the salt was not tested, and percentage with no salt in the household, and among households with salt tested, percentage with iodised salt, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among all households, percentage: |  |  |  | Among households with tested salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | With salt tested | With salt but salt not tested ${ }^{1}$ | With no salt in the household | Number of households | Percentage with iodised salt | Number of households |
| Residence |  |  |  |  |  |  |
| Urban | 90.2 | 0.2 | 9.6 | 10,320 | 83.8 | 9,311 |
| Rural | 91.6 | 1.0 | 7.4 | 7,613 | 74.5 | 6,975 |
| Region |  |  |  |  |  |  |
| Western | 88.9 | 1.9 | 9.2 | 1,282 | 91.6 | 1,140 |
| Central | 88.9 | 0.0 | 11.1 | 1,950 | 68.1 | 1,734 |
| Greater Accra | 91.3 | 0.2 | 8.5 | 3,183 | 80.1 | 2,907 |
| Volta | 93.2 | 0.1 | 6.7 | 888 | 71.2 | 827 |
| Eastern | 94.3 | 0.3 | 5.4 | 1,701 | 68.8 | 1,603 |
| Ashanti | 86.4 | 1.3 | 12.2 | 3,469 | 87.7 | 2,997 |
| Western North | 89.6 | 0.7 | 9.7 | 521 | 95.3 | 467 |
| Ahafo | 91.8 | 0.0 | 8.2 | 388 | 92.4 | 356 |
| Bono | 90.9 | 0.0 | 9.1 | 668 | 95.6 | 607 |
| Bono East | 93.3 | 0.0 | 6.7 | 693 | 77.6 | 646 |
| Oti | 94.6 | 0.0 | 5.4 | 444 | 69.7 | 420 |
| Northern | 94.6 | 0.3 | 5.1 | 1,064 | 77.1 | 1,006 |
| Savannah | 91.1 | 0.1 | 8.8 | 316 | 75.3 | 288 |
| North East | 95.2 | 0.1 | 4.7 | 287 | 81.6 | 273 |
| Upper East | 94.6 | 0.2 | 5.1 | 654 | 73.3 | 619 |
| Upper West | 92.4 | 0.1 | 7.6 | 427 | 76.2 | 395 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 94.1 | 0.1 | 5.7 | 2,797 | 70.1 | 2,632 |
| Second | 91.2 | 0.6 | 8.2 | 3,151 | 73.4 | 2,875 |
| Middle | 87.9 | 0.6 | 11.5 | 3,762 | 77.5 | 3,305 |
| Fourth | 88.1 | 0.6 | 11.3 | 4,204 | 82.3 | 3,702 |
| Highest | 93.8 | 0.5 | 5.7 | 4,020 | 91.0 | 3,772 |
| Total | 90.8 | 0.5 | 8.7 | 17,933 | 79.8 | 16,286 |

Note: Salt was tested for the presence of potassium iodate.
${ }^{1}$ Includes households in which salt could not be tested for technical or logistical reasons, including availability of test kits

## Key Findings

- Ownership of insecticide-treated nets (ITNs): 67\% of households in Ghana own at least one ITN, and 47\% of households own at least one ITN for every two people.
- Sources of ITNs: 71\% of ITNs owned by households were obtained from the latest mass distribution campaign in 2021.
- Access to ITNs: 61\% of the population could sleep under ITN if every ITN in the household were used by two people.
- Use of ITNs: $40 \%$ of the household population, $49 \%$ of children under age 5 , and $48 \%$ of pregnant women slept under an ITN the night before the survey.
- Intermittent preventive treatment (IPTp): 78\% of pregnant women received at least two doses of sulfadoxine-pyrimethamine (SP)/Fansidar for malaria prevention, and 60\% received at least three doses.
- Fever prevalence: $15 \%$ of children under age 5 had a fever in the 2 weeks before the survey. Advice or treatment was sought for $57 \%$ of these children, and $40 \%$ had blood taken from a finger or heel for testing.
- Type of antimalarial drug used: Among children under age 5 with a recent fever who received an antimalarial, $78 \%$ received artemisinin-based combination therapy.
- Low haemoglobin: $2 \%$ of children age 6-59 months had a haemoglobin level below $8 \mathrm{~g} / \mathrm{dl}$.
- Malaria: 9\% of children age 6-59 months tested positive for malaria via microscopy.

TThis chapter presents data that are useful in assessing how well malaria control strategies are being implemented, including the availability and use of mosquito nets, prophylactic use of antimalarial drugs among pregnant women, care seeking and therapeutic use of antimalarial drugs among children with fever, and the prevalence of anaemia and malaria among children under age 5 .

### 12.1 Ownership of Insecticide-treated Nets

## Ownership of insecticide-treated nets

Households that have at least one insecticide-treated net (ITN). An ITN is a factory-treated net that does not require any further treatment.
Sample: Households

## Full household ITN coverage

Percentage of households with at least one ITN for every two people.
Sample: Households (with at least one person who stayed in the household the night before the survey)

Sixty-seven percent of households in Ghana own at least one ITN, and $47 \%$ have at least one ITN for every two people who stayed in the household the night before the survey. Thirty-three percent of households do not own any ITNs (Table 12.1).

Trends: The percentage of households that own at least one ITN increased from $42 \%$ in the 2008 GDHS to $74 \%$ in the 2019 GMIS before decreasing to $67 \%$ in the 2022 GDHS (Figure 12.1).

## Source of Nets

The main source of ITNs in Ghana was the 2021 mass national distribution campaign, which accounted for $71 \%$ of household nets (Table $\mathbf{1 2 . 2}$ and Figure 12.2). Eight percent of ITNs were obtained through prior mass distribution campaigns. Seven percent of households obtained their ITNs during antenatal care (ANC) visits, $6 \%$ via school distribution campaigns, and 3\% during immunisation visits.

Figure 12.1 Trends in household ownership of ITNs

Percentage of households owning at least one insecticide-treated net (ITN)


| 2008 | 2014 | 2016 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: |
| GDHS | GDHS | GMIS | GMIS | GDHS |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Figure 12.2 Source of ITNs
Percent distribution of ITNs in households


### 12.2 Household Access to and Use of ITNs

## Access to an ITN

Percentage of the population that could sleep under an ITN if each ITN in the household were used by up to two people.
Sample: De facto household population

## Use of ITNs

Percentage of the population that slept under an ITN the night before the survey.
Sample: De facto household population

## Use of ITNs among those with access

Percentage of the population that slept under an ITN the night before the survey in households with at least one ITN for every two people.
Sample: De facto household population

ITNs act as both a physical and a chemical barrier against mosquitoes. By reducing the vector population, ITNs can help to reduce malaria risk at the community level as well as among individuals who use them.

Access to an ITN is measured by the proportion of the population that could sleep under an ITN if each ITN in the household were used by up to two people. Comparing ITN access and ITN use indicators can help programmes identify if there is a behavioural gap in which available ITNs are not being used. If the difference between these indicators is substantial, the ITN programme may need to design an appropriate intervention that focuses on behaviour change and on how to identify the main drivers of or barriers to ITN use. This analysis helps ITN programmes determine whether they need to achieve higher ITN coverage, promote ITN use, or both.

Although $61 \%$ of household residents in Ghana have access to an ITN, only $40 \%$ slept under an ITN the night before the survey (Table 12.3 and Table 12.4). In households with at least one ITN, $54 \%$ of the population slept under an ITN the previous night (Table 12.4). Overall, 49\% of all existing ITNs were used the night before the survey (Table 12.5).

Trends: The percentage of the household population with access to an ITN increased from $30 \%$ in 2008 to $61 \%$ in 2022. Over the same period, the percentage of the population that slept under an ITN the night before the survey increased from $21 \%$ to 40\% (Figure 12.3).

## Patterns by background characteristics

- The percentage of the household population with access to an ITN generally decreases with increasing household wealth, from $67 \%$ in the lowest wealth quintile to $51 \%$ in the highest wealth quintile (Table 12.3).

Figure 12.3 Trends in ITN access and use

Percentage of the household population with access to an ITN and percentage of the population that slept under an ITN the night before the survey


Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

- ITN access ranges from $44 \%$ in the North East region to $77 \%$ in the Volta region (Map 12.1).
- ITN use by the household population ranges from $20 \%$ in the Greater Accra region to $60 \%$ in the Ahafo region (Table 12.4).


### 12.3 Use of ITNs by Children and Pregnant Women

Children under age 5 and pregnant women are most vulnerable to malaria due to slow rates of acquisition of immunity and suppression of immunity in pregnancy, respectively. In highly malaria-endemic areas, children are thought to attain a high level of immunity by their fifth birthday (Shulman and Dorman 2003). Malaria in pregnancy is frequently associated with the development of anaemia, which interferes with the maternal-foetus exchange and may lead to low birth weight infants, placental parasitaemia, foetal death, abortion, stillbirth, and prematurity (Shulman and Dorman 2003).

As stated in the 2021-2025 Strategic Plan for Malaria Elimination in Ghana, children under age 5 and pregnant women should sleep under an ITN every night to prevent malaria complications ( MoH 2021 ).

Forty-nine percent of children under age 5 slept under an ITN the night before the survey, and $62 \%$ of children in households with at least one ITN slept under an ITN the night before the survey (Table 12.6). Overall, $48 \%$ of pregnant women age $15-49$ slept under an ITN the night before the survey, and $60 \%$ of pregnant women living in households with at least one ITN slept under an ITN the night before the survey (Table 12.7).

Trends: ITN use among children under age 5 has increased markedly since 2008 , from $39 \%$ to $49 \%$. Similarly, the percentage of pregnant women who slept under an ITN the night before the survey has nearly doubled, from $27 \%$ to $48 \%$ (Figure 12.4).

### 12.4 Reasons Mosquito Nets Were Not Used

Table 12.8 presents reasons why mosquito nets were not used the night before the survey. This information is important to the National Malaria Elimination Programme (NMEP) for identifying barriers to net usage. Overall, $51 \%$ of mosquito nets in households were not used the night before the survey. Twenty-six percent of respondents reported that the net was too hot, $12 \%$ said they preferred other mosquito control methods (coils, spray, or fans), and $9 \%$ said there were no mosquitoes.

Figure 12.4 Trends in ITN use

## Percentage who slept under an ITN the night before the survey



Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

### 12.5 Malaria in Pregnancy

## Intermittent preventive treatment (IPTp) during pregnancy

Percentage of women who took at least three doses of sulfadoxinepyrimethamine (SP)/Fansidar during their last pregnancy.
Sample: Women age 15-49 with a live birth or a stillbirth in the 2 years before the survey

Malaria infection during pregnancy is a major public health problem in Ghana, with substantial risks for the mother, her foetus, and the neonate. Intermittent preventive treatment of malaria in pregnancy (IPTp) is a full therapeutic course of antimalarial medicine given to pregnant women at routine antenatal care visits to prevent malaria. IPTp helps prevent maternal malaria episodes, maternal and foetal anaemia, placental parasitaemia, low birth weight, and neonatal mortality.

The 2022 GDHS measured coverage of IPTp among women age 15-49 with a live birth or a stillbirth in the 2 years before the survey. Ninety percent of women with a live birth in the 2 years before the survey reported receiving one or more doses of SP/Fansidar during the pregnancy of their most recent live birth, while $78 \%$ received two or more doses. Sixty percent of women received three or more doses of SP/Fansidar in accordance with the recommendations of the National Malaria Control Strategy (Table 12.9).

Trends: The percentage of women receiving one or more doses of SP/Fansidar increased from $58 \%$ in 2008 to $90 \%$ in 2022, while the percentage receiving two or more doses increased from $46 \%$ to $78 \%$. Over the same period, the percentage of women receiving three or more doses of SP/Fansidar increased from $28 \%$ to $60 \%$ (Figure 12.5).

Figure 12.5 Trends in IPTp use by pregnant women

Percentage of women with a live birth in the 2 years before the survey who received at least 1, 2, or 3 doses


| 2008 | 2014 | 2016 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: |
| GDHS | GDHS | GMIS | GMIS | GDHS |

### 12.6 Case Management of Malaria in Children

## Care seeking for children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey for whom advice or treatment was sought from a health provider, a health facility, or a pharmacy.
Sample: Children under age 5 with a fever in the 2 weeks before the survey

## Diagnosis of malaria in children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey who had blood taken from a finger or heel for testing. This is a proxy measure of diagnostic testing for malaria.
Sample: Children under age 5 with a fever in the 2 weeks before the survey

## Artemisinin-based combination therapy (ACT) for children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey who received artemisinin-based combination therapy (ACT).
Sample: Children under age 5 with a fever in the 2 weeks before the survey who took any antimalarial drug

One of the key case management objectives of the NMEP is to ensure that all patients with suspected malaria cases have access to confirmatory diagnosis and receive effective treatment.

Fever is a key symptom of malaria and other acute infections in children. Malaria fevers require prompt and effective treatment to prevent malaria morbidity and mortality. Fifteen percent of children under age 5 had a fever in the 2 weeks preceding the survey. Advice or treatment was sought for $57 \%$ of these children, and $33 \%$ received timely care (the same or next day following fever onset) (Table 12.10).

Forty percent of children with a fever in the 2 weeks before the survey had blood taken from a finger or heel for malaria testing (Table 12.10).

Among children with recent fever, $39 \%$ received advice or treatment from the public health sector and 4\% from the private health sector. Fifteen percent received advice from "other" private sector sources such as shops/markets (7\%) and drug peddlers (7\%). Among children receiving care from public health facilities, the most common sources were government health hospitals (13\%), government centres (9\%), and government health posts (9\%) (Table 12.11).

The 2022 GDHS results show that $78 \%$ of children under age 5 with recent fever received ACT. Seven percent were given an artesunate injection, $6 \%$ received amodiaquine, and $4 \%$ received $\mathrm{SP} /$ Fansidar (Table 12.12).

Trends: The percentage of children with recent fever who were taken for advice or treatment increased from $70 \%$ in 2008 to $78 \%$ in 2014 before decreasing to $72 \%$ in $2016,69 \%$ in 2019 , and $57 \%$ in 2022.

The percentage of children with a fever in the 2 weeks preceding the survey who had blood taken from a finger or heel for testing decreased from 34\% in 2014 to $30 \%$ in 2016 before increasing to $34 \%$ in 2019 and $40 \%$ in 2022. Although modest, the positive trend from 2016 to 2022 shows improved adherence to the NMEP policy of testing before treatment.

Among children under age 5 with recent fever who took an antimalarial, the percentage who received ACT increased from $48 \%$ in 2008 to $85 \%$ in 2019 and then declined to $78 \%$ in 2022 (Figure 12.6).

Figure 12.6 Trends in ACT use by children with fever

Among children with recent fever who took an antimalarial, percentage who received ACT


| 2008 | 2014 | 2016 | 2019 | 2022 |
| :---: | :---: | :---: | :---: | :---: |
| GDHS | GDHS | GMIS | GMIS | GDHS |

### 12.7 Prevalence of Low Haemoglobin Levels in Children

## Prevalence of low haemoglobin in children

Percentage of children age 6-59 months who had a haemoglobin measurement of less than 8 grams per decilitre ( $\mathrm{g} / \mathrm{dl}$ ) of blood. The cutoff of 8 $\mathrm{g} / \mathrm{dl}$ is often used to classify malaria-related anaemia. This is a different cutoff than was used to classify severe anaemia in the chapter on nutrition ( $7 \mathrm{~g} / \mathrm{dl}$ ).
Sample: Children age 6-59 months

Anaemia, defined as a low level of haemoglobin in the blood, decreases the amount of oxygen reaching the tissues and organs of the body and reduces their capacity to function. Anaemia in children is associated with impaired motor and cognitive development. The main causes of anaemia in children are malaria and inadequate intake of iron, folate, vitamin B12, and other nutrients. Other causes of anaemia include intestinal worms, haemoglobinopathy, and sickle cell disease. Although anaemia is not specific to malaria, trends in anaemia prevalence can reflect malaria morbidity, and they respond to changes in the coverage of malaria interventions (Korenromp et al. 2004).

Haemoglobin testing was carried out for $97 \%$ of eligible children age 6-59 months (Table 12.13), and 2\% of these children had haemoglobin levels lower than $8 \mathrm{~g} / \mathrm{dl}$ (Table 12.14).

Trends: The percentage of children age 6-59 months with low haemoglobin levels has decreased steadily over time, from $19 \%$ in 2008 to $2 \%$ in 2022.

### 12.8 Prevalence of Malaria in Children

## Malaria prevalence in children

Percentage of children age 6-59 months classified as infected with malaria according to rapid diagnostic test (RDT) results.
Sample: Children age 6-59 months

All children age 6-59 months from the interviewed households were eligible for malaria testing. Testing with rapid diagnostic tests (RDTs) and microscopy was successfully carried out among $97 \%$ of eligible children. For details on malaria testing procedures, see Chapter 1, section 1.4.

Nine percent of children age 6-59 months tested positive for malaria according to microscopy results (Table 12.15). The percentage of children testing positive for malaria by microscopy ranges from $2 \%$ in the Greater Accra region to $15 \%$ in the Oti region (Map 12.2). Rapid diagnostic tests were done in conjunction with microscopy to facilitate treatment of infected children during the survey fieldwork. Results from these RDTs are also presented in Table 12.15. Seventeen percent of children tested positive for malaria according to RDT results.

The 2022 GDHS was conducted between October 2022 and January 2023 at the peak of malaria season. Normally, a spike in malaria cases occurs during these months. Previous surveys that incorporated malaria testing included the 2014 GDHS, 2016 GMIS, and 2019 GMIS. These surveys were conducted during a similar period when malaria transmission was at its peak. The 2014 GDHS was conducted between September and December 2014, the 2016 GMIS was conducted from October through December 2016, and the 2019 GMIS was conducted between September and November 2019.

Trends: The percentage of children under age 5 testing positive for malaria according to microscopy has decreased consistently over time, from $27 \%$ in 2014 and $21 \%$ in 2016 to $14 \%$ in 2019 and $9 \%$ in 2022 (Figure 12.7).

## Map 12.2 Prevalence of malaria in children by region

Percentage of children age 6-59 months who tested positive for malaria by microscopy


Figure 12.7 Trends in malaria prevalence among children
Percentage of children age 6-59 months who tested positive for malaria by microscopy


| 2014 | 2016 | 2019 | 2022 |
| :---: | :---: | :---: | :---: |
| GDHS | GMIS | GMIS | GDHS |

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For more information on malaria, see the following tables:

- Table 12.1 Household possession of mosquito nets
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- Table 12.4 Use of mosquito nets by persons in the household
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Table 12.1 Household possession of mosquito nets
Percentage of households with at least one mosquito net (treated or untreated) and insecticide-treated net (ITN), average number of nets and ITNs per household, and percentage of households with at least one net and ITN per two persons who stayed in the household last night, according to background characteristics, Ghana DHS 2022
 Background
characteristic

[^27]${ }^{\infty}$


2 An incto household members
2 ins insecticide-treated net (ITN) is actory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net
(LLIN).

Table 12.3 Access to an insecticide-treated net (ITN)
Percentage of the de facto population with access to an ITN in the household, according to background characteristics, Ghana DHS 2022

|  | Percentage of <br> the de facto <br> population with <br> access to an <br> ITN 1,2 | Number of <br> persons |
| :--- | :---: | ---: |
| Background <br> characteristic |  |  |
| Residence | 54.0 | 33,106 |
| Urban | 68.9 | 30,141 |
| Rural |  |  |
| Region | 60.8 | 3,933 |
| Western | 62.1 | 6,868 |
| Central | 47.2 | 9,198 |
| Greater Accra | 77.2 | 2,919 |
| Volta | 66.3 | 5,287 |
| Eastern | 62.4 | 11,685 |
| Ashanti | 69.6 | 1,748 |
| Western North | 73.5 | 1,392 |
| Ahafo | 68.1 | 2,274 |
| Bono | 66.9 | 2,836 |
| Bono East | 73.2 | 1,901 |
| Oti | 52.7 | 5,430 |
| Northern | 66.8 | 1,574 |
| Savannah | 43.7 | 1,546 |
| North East | 67.7 | 2,891 |
| Upper East | 55.3 | 1,764 |
| Upper West |  |  |
| Wealth quintile | 66.8 | 12,651 |
| Lowest | 68.7 | 12,626 |
| Second | 63.3 | 12,654 |
| Middle | 56.0 | 12,622 |
| Fourth | 50.8 | 12,694 |
| Highest | 61.1 | 63,247 |
| Total |  |  |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
${ }^{2}$ Percentage of the de facto household population that could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.4 Use of mosquito nets by persons in the household
Percentage of the de facto household population that slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN) the night before the survey, and among the de facto household population in households with at least one ITN, percentage that slept under an ITN the night before the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Household population |  |  | Household population in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Number of persons | Percentage who slept under an ITN ${ }^{1}$ last night | Number of persons |
| Age |  |  |  |  |  |
| <5 | 49.1 | 49.0 | 8,580 | 62.1 | 6,773 |
| 5-14 | 40.8 | 40.7 | 16,909 | 52.8 | 13,038 |
| 15-34 | 33.5 | 33.4 | 18,512 | 49.1 | 12,614 |
| 35-49 | 39.6 | 39.4 | 9,207 | 54.5 | 6,659 |
| 50+ | 41.8 | 41.6 | 10,009 | 56.8 | 7,344 |
| Don't know/missing | 25.4 | 25.4 | 31 | (36.8) | 21 |
| Sex |  |  |  |  |  |
| Male | 38.1 | 38.0 | 29,948 | 52.9 | 21,511 |
| Female | 41.2 | 41.1 | 33,299 | 54.9 | 24,938 |
| Residence |  |  |  |  |  |
| Urban | 26.7 | 26.6 | 33,106 | 40.7 | 21,614 |
| Rural | 54.2 | 54.0 | 30,141 | 65.6 | 24,835 |
| Region |  |  |  |  |  |
| Western | 37.0 | 36.9 | 3,933 | 52.2 | 2,781 |
| Central | 39.1 | 39.1 | 6,868 | 52.3 | 5,130 |
| Greater Accra | 19.9 | 19.9 | 9,198 | 35.2 | 5,192 |
| Volta | 56.3 | 55.8 | 2,919 | 64.5 | 2,529 |
| Eastern | 39.0 | 38.9 | 5,287 | 50.2 | 4,094 |
| Ashanti | 34.2 | 34.0 | 11,685 | 46.5 | 8,548 |
| Western North | 54.6 | 54.6 | 1,748 | 67.3 | 1,418 |
| Ahafo | 60.3 | 60.3 | 1,392 | 71.6 | 1,172 |
| Bono | 45.7 | 45.6 | 2,274 | 56.5 | 1,835 |
| Bono East | 57.3 | 57.1 | 2,836 | 69.7 | 2,325 |
| Oti | 59.2 | 59.0 | 1,901 | 67.3 | 1,667 |
| Northern | 36.9 | 36.9 | 5,430 | 52.2 | 3,834 |
| Savannah | 59.6 | 59.6 | 1,574 | 72.3 | 1,297 |
| North East | 39.3 | 38.9 | 1,546 | 61.6 | 978 |
| Upper East | 55.8 | 55.6 | 2,891 | 68.6 | 2,344 |
| Upper West | 41.8 | 41.6 | 1,764 | 56.1 | 1,306 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 60.4 | 60.2 | 12,651 | 73.5 | 10,355 |
| Second | 52.9 | 52.8 | 12,626 | 64.1 | 10,407 |
| Middle | 40.9 | 40.8 | 12,654 | 53.9 | 9,596 |
| Fourth | 27.0 | 26.9 | 12,622 | 40.6 | 8,372 |
| Highest | 17.8 | 17.6 | 12,694 | 28.9 | 7,720 |
| Total | 39.8 | 39.7 | 63,247 | 54.0 | 46,449 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.5 Use of existing ITNs
Percentage of insecticide-treated nets (ITNs) that were used by anyone the night before the survey, according to background characteristics, Ghana DHS 2022

| Background <br> characteristic | Percentage of <br> existing ITNs <br> used last night | Number <br> of ITNs $^{1}$ |
| :--- | :---: | ---: |
| Residence |  |  |
| $\quad$ Urban | 37.6 | 13,525 |
| Rural | 59.2 | 15,010 |
| Region |  |  |
| Western | 42.0 | 1,897 |
| Central | 44.8 | 3,326 |
| Greater Accra | 33.2 | 3,249 |
| Volta | 55.6 | 1,759 |
| Eastern | 42.9 | 2,766 |
| Ashanti | 38.9 | 5,638 |
| Western North | 53.7 | 975 |
| Ahafo | 55.9 | 810 |
| Bono | 53.4 | 1,126 |
| Bono East | 65.3 | 1,274 |
| Oti | 61.0 | 1,008 |
| Northern | 62.6 | 1,744 |
| Savannah | 75.3 | 681 |
| North East | 79.8 | 378 |
| Upper East | 70.4 | 1,307 |
| $\quad$ Upper West | 68.3 | 597 |
| Wealth quintile |  |  |
| Lowest | 70.1 | 5,775 |
| Second | 58.8 | 6,221 |
| Middle | 48.3 | 6,054 |
| Fourth | 35.8 | 5,504 |
| Highest | 27.7 | 4,980 |
| Total | 49.0 | 28,535 |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN)

Table 12.6 Use of mosquito nets by children
Percentage of children under age 5 who slept under a mosquito net (treated or untreated) and under an insecticidetreated net (ITN) the night before the survey, and among children under age 5 in households with at least one ITN percentage who slept under an ITN the night before the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Children under age 5 in all households |  |  | Children under age 5 in households with at least one ITN |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children |
| Age in months |  |  |  |  |  |
| <12 | 52.8 | 52.6 | 1,689 | 65.5 | 1,357 |
| 12-23 | 50.5 | 50.1 | 1,821 | 63.4 | 1,437 |
| 24-35 | 47.8 | 47.8 | 1,599 | 60.0 | 1,273 |
| 36-47 | 48.5 | 48.5 | 1,752 | 61.7 | 1,377 |
| 48-59 | 46.0 | 45.9 | 1,718 | 59.3 | 1,330 |
| Sex |  |  |  |  |  |
| Male | 49.7 | 49.5 | 4,350 | 62.2 | 3,458 |
| Female | 48.5 | 48.5 | 4,230 | 61.8 | 3,316 |
| Residence |  |  |  |  |  |
| Urban | 36.1 | 36.0 | 4,141 | 50.3 | 2,964 |
| Rural | 61.3 | 61.1 | 4,439 | 71.2 | 3,809 |
| Region |  |  |  |  |  |
| Western | 46.0 | 46.0 | 533 | 58.2 | 422 |
| Central | 49.2 | 49.0 | 901 | 61.5 | 719 |
| Greater Accra | 30.6 | 30.6 | 1,068 | 47.0 | 697 |
| Volta | 58.3 | 57.8 | 325 | 65.7 | 286 |
| Eastern | 44.7 | 44.7 | 639 | 53.3 | 536 |
| Ashanti | 44.8 | 44.5 | 1,523 | 55.5 | 1,221 |
| Western North | 58.4 | 58.4 | 228 | 69.1 | 193 |
| Ahafo | 68.3 | 68.3 | 188 | 78.2 | 164 |
| Bono | 59.9 | 59.5 | 282 | 68.2 | 246 |
| Bono East | 63.3 | 62.9 | 429 | 74.7 | 361 |
| Oti | 70.1 | 70.1 | 279 | 76.0 | 257 |
| Northern | 43.9 | 43.9 | 955 | 60.2 | 697 |
| Savannah | 63.5 | 63.5 | 257 | 76.8 | 213 |
| North East | 50.8 | 50.7 | 297 | 75.4 | 200 |
| Upper East | 63.3 | 63.0 | 423 | 74.5 | 358 |
| Upper West | 56.3 | 56.1 | 254 | 69.2 | 205 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 67.0 | 66.8 | 2,055 | 78.9 | 1,738 |
| Second | 57.5 | 57.5 | 1,764 | 68.0 | 1,491 |
| Middle | 49.2 | 49.2 | 1,674 | 61.4 | 1,340 |
| Fourth | 36.9 | 36.7 | 1,591 | 50.7 | 1,152 |
| Highest | 27.8 | 27.4 | 1,496 | 39.0 | 1,051 |
| Total | 49.1 | 49.0 | 8,580 | 62.1 | 6,773 |

Note: Table is based on children who stayed in the household the night before the interview.
${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN)

Table 12.7 Use of mosquito nets by pregnant women
Percentage of pregnant women age 15-49 who slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN) the night before the survey, and among pregnant women age 15-49 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Pregnant women age 15-49 in all households |  |  | Pregnant women age 15-49 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Number of pregnant women | Percentage who slept under an ITN ${ }^{1}$ last night | Number of pregnant women |
| Residence |  |  |  |  |  |
| Urban | 32.8 | 32.8 | 505 | 44.6 | 371 |
| Rural | 63.3 | 63.3 | 479 | 72.7 | 418 |
| Region |  |  |  |  |  |
| Western | 47.3 | 47.3 | 66 | (56.2) | 55 |
| Central | 48.2 | 48.2 | 101 | (59.4) | 82 |
| Greater Accra | 23.5 | 23.5 | 136 | (34.6) | 92 |
| Volta | 56.7 | 56.7 | 43 | (69.1) | 35 |
| Eastern | 47.6 | 47.6 | 91 | 52.0 | 84 |
| Ashanti | 36.9 | 36.9 | 163 | 47.3 | 127 |
| Western North | 54.4 | 54.4 | 26 | (66.5) | 21 |
| Ahafo | 71.7 | 71.7 | 20 | 80.9 | 17 |
| Bono | 56.1 | 56.1 | 37 | 61.8 | 33 |
| Bono East | 63.4 | 63.4 | 40 | 75.0 | 34 |
| Oti | 65.9 | 65.9 | 33 | 75.4 | 28 |
| Northern | 53.3 | 53.3 | 106 | 72.3 | 78 |
| Savannah | 69.4 | 69.4 | 30 | 81.3 | 26 |
| North East | 56.3 | 56.3 | 28 | 82.3 | 19 |
| Upper East | 66.4 | 66.4 | 41 | 75.9 | 36 |
| Upper West | 55.8 | 55.8 | 25 | 65.5 | 21 |
| Education |  |  |  |  |  |
| No education | 58.1 | 58.1 | 183 | 75.5 | 141 |
| Primary | 53.7 | 53.7 | 143 | 64.3 | 119 |
| Secondary | 45.7 | 45.7 | 573 | 57.0 | 459 |
| More than secondary | 28.8 | 28.8 | 86 | 35.2 | 70 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 70.2 | 70.2 | 193 | 83.5 | 162 |
| Second | 71.7 | 71.7 | 179 | 82.0 | 157 |
| Middle | 51.7 | 51.7 | 185 | 62.7 | 152 |
| Fourth | 32.1 | 32.1 | 241 | 42.2 | 183 |
| Highest | 17.4 | 17.4 | 186 | 24.2 | 134 |
| Total | 47.7 | 47.7 | 984 | 59.5 | 789 |

Note: Table is based on women who stayed in the household the night before the interview. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.9 Use of intermittent preventive treatment (IPTp) by women during pregnancy
Percentage of women age 15-49 with a live birth and/or a stillbirth in the 2 years preceding the survey who, during the pregnancy that resulted in the last live birth or stillbirth, received one or more doses of SP/Fansidar, received two or more doses of SP/Fansidar, and received three or more doses of SP/Fansidar, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who received one or more doses of SP/Fansidar | Percentage who received two or more doses of SP/Fansidar | Percentage who received three or more doses of SP/Fansidar | Number of women with a live birth and/or a stillbirth in the 2 years preceding the survey |
| :---: | :---: | :---: | :---: | :---: |
| Birth order ${ }^{1}$ |  |  |  |  |
| 1 | 89.7 | 77.5 | 58.7 | 1,016 |
| 2-3 | 90.3 | 79.1 | 62.3 | 1,287 |
| 4-5 | 90.8 | 78.6 | 63.1 | 760 |
| $6+$ | 88.3 | 70.7 | 52.6 | 428 |
| Residence |  |  |  |  |
| Urban | 90.0 | 78.7 | 62.8 | 1,623 |
| Rural | 90.0 | 76.4 | 58.0 | 1,868 |
| Region |  |  |  |  |
| Western | 90.0 | 82.2 | 61.9 | 208 |
| Central | 92.6 | 80.2 | 65.6 | 357 |
| Greater Accra | 87.7 | 79.8 | 64.8 | 410 |
| Volta | 92.6 | 88.5 | 70.7 | 130 |
| Eastern | 92.5 | 82.9 | 73.1 | 246 |
| Ashanti | 90.6 | 72.9 | 49.9 | 631 |
| Western North | 89.9 | 74.8 | 51.8 | 96 |
| Ahafo | 85.5 | 74.3 | 58.3 | 77 |
| Bono | 89.9 | 81.0 | 66.6 | 113 |
| Bono East | 91.1 | 77.2 | 65.1 | 191 |
| Oti | 91.0 | 72.0 | 51.9 | 123 |
| Northern | 84.4 | 64.3 | 44.4 | 395 |
| Savannah | 83.9 | 68.2 | 51.7 | 105 |
| North East | 90.5 | 79.1 | 59.9 | 112 |
| Upper East | 95.3 | 91.7 | 78.8 | 191 |
| Upper West | 95.4 | 90.7 | 77.9 | 105 |
| Education |  |  |  |  |
| No education | 88.7 | 71.5 | 52.4 | 728 |
| Primary | 87.1 | 74.3 | 57.7 | 542 |
| Secondary | 91.4 | 79.7 | 63.2 | 1,898 |
| More than secondary | 89.7 | 83.1 | 64.9 | 323 |
| Wealth quintile |  |  |  |  |
| Lowest | 88.0 | 73.7 | 54.3 | 853 |
| Second | 89.7 | 76.5 | 55.7 | 723 |
| Middle | 90.5 | 75.9 | 61.0 | 705 |
| Fourth | 91.3 | 78.8 | 65.2 | 631 |
| Highest | 91.2 | 84.8 | 68.3 | 579 |
| Total | 90.0 | 77.5 | 60.2 | 3,491 |
| STILLBIRTHS |  |  |  |  |
| Total | (81.2) | (59.5) | (41.1) | 43 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{2}$ |  |  |  |  |
| Total | 89.9 | 77.3 | 60.0 | 3,534 |

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months. Figures in parentheses are based on 25-49 unweighted cases.
SP = sulfadoxine-pyrimethamine
${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.
${ }^{2}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

Table 12.10 Children with fever and care seeking, prompt treatment, and diagnosis
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey, and among children under age 5 with fever, percentage for whom advice or treatment was sought, percentage for whom advice or treatment was sought the same or next day following the onset of fever, percentage who had blood taken from a finger or heel for testing, and percentage who were diagnosed with malaria by a health care provider, according to background characteristics, Ghana DHS 2022

| Background characteristic | Children under age 5 |  | Children under age 5 with fever |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with a fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage for whom advice or treatment was sought the same or next day | Percentage who had blood taken from a finger or heel for testing | Percentage who were diagnosed with malaria by a health care provider | Number of children |
| Age in months |  |  |  |  |  |  |  |
| <12 | 10.4 | 1,718 | 51.2 | 29.5 | 32.0 | 29.0 | 178 |
| 12-23 | 17.9 | 1,823 | 55.9 | 29.9 | 37.9 | 30.0 | 327 |
| 24-35 | 16.8 | 1,546 | 62.7 | 33.2 | 43.2 | 47.2 | 260 |
| 36-47 | 16.1 | 1,632 | 49.9 | 28.2 | 42.6 | 43.1 | 263 |
| 48-59 | 14.0 | 1,596 | 65.8 | 43.5 | 42.7 | 49.6 | 224 |
| Sex |  |  |  |  |  |  |  |
| Male | 14.8 | 4,240 | 60.4 | 32.1 | 41.2 | 39.6 | 627 |
| Female | 15.3 | 4,075 | 53.9 | 33.1 | 38.8 | 39.8 | 625 |
| Residence |  |  |  |  |  |  |  |
| Urban | 12.1 | 4,048 | 49.7 | 29.2 | 33.9 | 32.9 | 490 |
| Rural | 17.9 | 4,267 | 61.9 | 34.8 | 43.9 | 44.1 | 762 |
| Region |  |  |  |  |  |  |  |
| Western | 12.3 | 515 | 67.0 | 43.1 | 37.3 | 29.3 | 63 |
| Central | 18.0 | 841 | 34.9 | 17.6 | 33.7 | 36.5 | 151 |
| Greater Accra | 8.7 | 1,057 | (27.0) | (11.9) | (12.0) | (8.4) | 92 |
| Volta | 14.6 | 313 | 71.5 | 49.2 | 54.6 | 37.5 | 46 |
| Eastern | 6.3 | 611 | (79.6) | (46.7) | (64.2) | (51.9) | 38 |
| Ashanti | 17.1 | 1,495 | 56.3 | 39.5 | 33.9 | 39.8 | 255 |
| Western North | 14.3 | 222 | 51.4 | 26.7 | 40.1 | 35.6 | 32 |
| Ahafo | 12.1 | 186 | 62.5 | 43.1 | 53.6 | 43.6 | 22 |
| Bono | 9.3 | 277 | (59.7) | (20.3) | (57.2) | (55.1) | 26 |
| Bono East | 13.6 | 437 | 56.3 | 20.2 | 53.4 | 49.6 | 59 |
| Oti | 27.2 | 276 | 76.1 | 49.5 | 35.9 | 35.1 | 75 |
| Northern | 21.6 | 923 | 61.1 | 34.5 | 33.0 | 41.1 | 199 |
| Savannah | 17.2 | 247 | 58.9 | 33.8 | 34.6 | 40.8 | 43 |
| North East | 22.1 | 267 | 70.8 | 36.8 | 63.2 | 61.5 | 59 |
| Upper East | 17.3 | 406 | 70.9 | 26.4 | 72.8 | 59.2 | 70 |
| Upper West | 8.5 | 242 | 65.6 | 29.6 | 57.1 | 40.3 | 21 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 19.1 | 1,922 | 56.9 | 33.2 | 37.6 | 39.9 | 366 |
| Primary | 17.0 | 1,250 | 54.7 | 28.1 | 39.5 | 46.8 | 213 |
| Secondary | 13.7 | 4,348 | 56.4 | 32.0 | 40.6 | 38.9 | 596 |
| More than secondary | 9.7 | 794 | 70.7 | 46.8 | 48.6 | 25.3 | 77 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 20.6 | 1,966 | 59.3 | 28.4 | 43.1 | 43.2 | 404 |
| Second | 15.7 | 1,690 | 62.6 | 41.6 | 44.7 | 49.4 | 265 |
| Middle | 14.2 | 1,614 | 55.7 | 29.4 | 40.3 | 38.6 | 230 |
| Fourth | 13.2 | 1,584 | 46.1 | 29.9 | 30.6 | 28.9 | 209 |
| Highest | 9.8 | 1,460 | 59.3 | 36.7 | 35.8 | 29.5 | 144 |
| Total | 15.1 | 8,315 | 57.1 | 32.6 | 40.0 | 39.7 | 1,252 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes advice or treatment from the following sources: public sector, private medical sector, NGO medical sector, shop/market, drug peddler. Excludes advice or treatment from a traditional practitioner.

Table 12.11 Source of advice or treatment for children with fever
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Ghana DHS 2022

| Source | Percentage for whom advice or treatment was sought from each source: |  |
| :---: | :---: | :---: |
|  | Among children with fever | Among children with fever for whom advice or treatment was sought |
| Public sector | 38.6 | 58.2 |
| Government hospital | 13.1 | 19.7 |
| Government polyclinic | 2.1 | 3.2 |
| Government health centre | 8.5 | 12.9 |
| Government clinic | 5.8 | 8.7 |
| CHPS centre/government health post | 8.6 | 13.0 |
| Community health service (outreach) | 0.6 | 0.9 |
| Private sector | 4.3 | 6.5 |
| Private hospital | 1.9 | 2.9 |
| Private clinic | 2.0 | 3.1 |
| Maternity home | 0.1 | 0.2 |
| Community health service (mobile clinic) | 0.3 | 0.4 |
| Other private sector | 14.8 | 22.4 |
| Shop/market | 7.4 | 11.2 |
| Traditional practitioner | 0.3 | 0.4 |
| Drug peddler | 7.2 | 10.9 |
| Other | 0.9 | 1.4 |
| Number of children | 1,252 | 830 |

Note: Advice or treatment for children with fever may have been sought from more than one source.
CHPS = community-based health planning and services

Table 12.12 Type of antimalarial drugs used
Among children under age 5 with a fever in the 2 weeks preceding the survey who took any antimalarial medication, percentage who took specific antimalarial drugs, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of children who took: |  |  |  |  |  |  |  |  | Number of children with fever who took antimalarial drug |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any ACT | SP/ <br> Fansidar | Chloroquine | Amodiaquine | Quinine pills | Quinine injection | Artesunate rectal | Artesunate injection | Other antimalarial |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |
| <6 | * | * | * | * | * | * | * | * | * | 10 |
| 6-11 | 82.8 | 0.7 | 2.3 | 10.9 | 1.5 | 3.0 | 0.7 | 2.4 | 1.1 | 41 |
| 12-23 | 73.4 | 5.1 | 0.7 | 10.4 | 3.0 | 1.2 | 2.8 | 8.2 | 2.3 | 119 |
| 24-35 | 82.0 | 5.3 | 2.6 | 4.2 | 2.6 | 0.9 | 3.3 | 6.5 | 0.0 | 127 |
| 36-47 | 78.0 | 3.7 | 0.8 | 5.2 | 3.0 | 1.1 | 0.9 | 9.1 | 5.9 | 136 |
| 48-59 | 77.8 | 3.9 | 2.5 | 4.5 | 0.3 | 2.1 | 10.0 | 5.5 | 0.2 | 128 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Male | 74.3 | 4.3 | 2.6 | 8.9 | 3.7 | 0.8 | 4.3 | 6.4 | 2.0 | 305 |
| Female | 83.0 | 3.9 | 0.9 | 3.2 | 0.4 | 2.1 | 3.4 | 7.7 | 2.1 | 255 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 74.9 | 4.5 | 1.2 | 9.2 | 1.6 | 1.2 | 6.1 | 4.4 | 3.6 | 190 |
| Rural | 80.0 | 3.9 | 2.1 | 4.8 | 2.5 | 1.5 | 2.7 | 8.3 | 1.3 | 370 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | * | * | * | * | * | * | * | * | * | 25 |
| Central | (88.7) | (0.0) | (0.0) | (2.6) | (0.0) | (3.2) | (2.4) | (0.0) | (3.1) | 54 |
| Greater Accra | * |  | * | * | * | * | * | * | * | 21 |
| Volta | (75.9) | (13.5) | (0.0) | (7.6) | (0.0) | (0.0) | (0.0) | (10.6) | (0.0) | 25 |
| Eastern |  |  |  |  | * | * |  |  | (0.0) | 22 |
| Ashanti | (75.0) | (0.0) | (0.0) | (4.1) | (4.5) | (0.0) | (10.6) | (2.8) | (6.9) | 117 |
| Western North |  | * |  | * | * | * |  | * | * | 11 |
| Ahafo | (71.3) | (0.0) | (7.5) | (10.7) | (0.0) | (4.2) | (3.3) | (3.0) | (0.0) | 11 |
| Bono | (80.2) | (5.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (24.9) | (0.0) | 17 |
| Bono East | (86.9) | (13.1) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (11.2) | (0.0) | 32 |
| Oti | 73.0 | 0.0 | 2.8 | 14.3 | 3.6 | 3.0 | 0.0 | 11.3 | 1.2 | 40 |
| Northern | 77.5 | 10.1 | 3.9 | 11.8 | 0.0 | 1.6 | 1.3 | 1.3 | 0.0 | 76 |
| Savannah | 82.1 | 3.2 | 0.9 | 0.4 | 3.7 | 0.8 | 2.4 | 8.7 | 0.0 | 22 |
| North East | 67.5 | 3.1 | 8.6 | 4.9 | 1.6 | 0.0 | 12.3 | 3.8 | 1.5 | 39 |
| Upper East | 63.7 | 10.3 | 3.4 | 3.7 | 4.2 | 7.7 | 2.8 | 36.4 | 1.9 | 41 |
| Upper West | * | * | * | * | * | * | * | * | * | 7 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 73.7 | 5.4 | 2.7 | 5.6 | 2.7 | 0.9 | 4.0 | 13.0 | 1.7 | 162 |
| Primary | 77.4 | 2.2 | 2.5 | 10.2 | 3.3 | 1.5 | 3.6 | 6.7 | 0.4 | 106 |
| Secondary | 80.7 | 3.9 | 1.2 | 5.1 | 1.6 | 1.8 | 3.6 | 4.0 | 3.1 | 267 |
| More than secondary | * | * | * | * | * | * | * | * | * | 25 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 76.4 | 5.9 | 2.9 | 4.9 | 1.8 | 0.7 | 2.5 | 13.1 | 0.5 | 185 |
| Second | 75.3 | 3.4 | 2.2 | 3.5 | 3.3 | 1.8 | 7.2 | 5.2 | 6.1 | 138 |
| Middle | 75.9 | 3.2 | 1.9 | 13.7 | 1.9 | 1.8 | 1.2 | 5.5 | 2.1 | 101 |
| Fourth | 83.1 | 2.1 | 0.0 | 3.8 | 3.2 | 2.7 | 7.1 | 1.1 | 0.0 | 80 |
| Highest | (89.0) | (4.3) | (0.0) | (7.7) | (0.0) | (0.0) | (0.8) | (2.4) | (0.0) | 56 |
| Total | 78.3 | 4.1 | 1.8 | 6.3 | 2.2 | 1.4 | 3.9 | 7.0 | 2.1 | 560 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
$\mathrm{ACT}=$ artemisinin-based combination therapy
$\mathrm{SP}=$ sulfadoxine pyrimethamine

Table 12.13 Coverage of testing for anaemia and malaria in children
Percentage of eligible children age 6-59 months who were tested for anaemia and for malaria, according to background characteristics (unweighted), Ghana DHS 2022

| Background characteristic | Percentage tested for: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Anaemia | Malaria with RDT | Malaria by microscopy | Number of children |
| Age in months |  |  |  |  |
| 6-8 | 96.1 | 96.1 | 96.1 | 254 |
| 9-11 | 97.6 | 97.6 | 97.6 | 250 |
| 12-17 | 98.7 | 98.7 | 98.7 | 526 |
| 18-23 | 98.7 | 98.7 | 98.7 | 540 |
| 24-35 | 96.9 | 97.0 | 97.0 | 977 |
| 36-47 | 97.0 | 97.0 | 97.0 | 1,011 |
| 48-59 | 96.6 | 96.7 | 96.7 | 960 |
| Sex |  |  |  |  |
| Male | 97.2 | 97.3 | 97.3 | 2,304 |
| Female | 97.3 | 97.4 | 97.4 | 2,214 |
| Mother's interview status |  |  |  |  |
| Interviewed | 98.1 | 98.2 | 98.2 | 3,943 |
| Not interviewed but in household | 73.6 | 73.6 | 73.6 | 140 |
| Not interviewed and not in the household ${ }^{1}$ | 97.2 | 97.2 | 97.2 | 435 |
| Residence |  |  |  |  |
| Urban | 96.7 | 96.7 | 96.7 | 1,881 |
| Rural | 97.7 | 97.8 | 97.8 | 2,637 |
| Region |  |  |  |  |
| Western | 97.2 | 97.2 | 97.2 | 218 |
| Central | 97.9 | 97.9 | 97.9 | 243 |
| Greater Accra | 96.2 | 96.2 | 96.2 | 210 |
| Volta | 99.5 | 99.5 | 99.5 | 193 |
| Eastern | 99.1 | 99.1 | 99.1 | 212 |
| Ashanti | 96.9 | 96.9 | 96.9 | 294 |
| Western North | 95.3 | 95.8 | 95.8 | 191 |
| Ahafo | 96.7 | 96.7 | 96.7 | 245 |
| Bono | 99.5 | 99.5 | 99.5 | 194 |
| Bono East | 97.6 | 97.6 | 97.6 | 294 |
| Oti | 97.0 | 97.0 | 97.0 | 271 |
| Northern | 97.0 | 97.0 | 97.0 | 466 |
| Savannah | 96.4 | 96.6 | 96.6 | 388 |
| North East | 96.9 | 96.9 | 96.9 | 477 |
| Upper East | 96.8 | 96.8 | 96.8 | 309 |
| Upper West | 98.1 | 98.1 | 98.1 | 313 |
| Mother's education ${ }^{2}$ |  |  |  |  |
| No education | 97.3 | 97.4 | 97.4 | 1,349 |
| Primary | 97.8 | 97.8 | 97.8 | 625 |
| Secondary | 97.9 | 98.0 | 98.0 | 1,806 |
| More than secondary | 92.4 | 92.4 | 92.4 | 303 |
| Wealth quintile |  |  |  |  |
| Lowest | 97.5 | 97.5 | 97.5 | 1,469 |
| Second | 98.1 | 98.1 | 98.1 | 1,103 |
| Middle | 97.7 | 97.8 | 97.8 | 815 |
| Fourth | 97.6 | 97.6 | 97.6 | 622 |
| Highest | 93.9 | 93.9 | 93.9 | 509 |
| Total | 97.3 | 97.3 | 97.3 | 4,518 |

RDT = rapid diagnostic test (Abbott Bioline)
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ For women who are not interviewed, information on education is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 12.14 Haemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ in children
Percentage of children age 6-59 months with haemoglobin lower than $8.0 \mathrm{~g} / \mathrm{dl}$, by background characteristics, Ghana DHS 2022

| Background characteristic | Haemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ | Number of children |
| :---: | :---: | :---: |
| Age in months |  |  |
| 6-8 | 0.2 | 209 |
| 9-11 | 1.1 | 213 |
| 12-17 | 5.2 | 451 |
| 18-23 | 3.5 | 468 |
| 24-35 | 2.5 | 811 |
| 36-47 | 1.5 | 860 |
| 48-59 | 1.4 | 826 |
| Sex |  |  |
| Male | 2.4 | 1,947 |
| Female | 2.2 | 1,889 |
| Mother's interview status |  |  |
| Interviewed | 2.4 | 3,424 |
| Not interviewed but in household | 1.2 | 67 |
| Not interviewed and not in the household ${ }^{1}$ | 1.1 | 346 |
| Residence |  |  |
| Urban | 1.3 | 1,881 |
| Rural | 3.2 | 1,956 |
| Region |  |  |
| Western | 1.9 | 241 |
| Central | 1.5 | 397 |
| Greater Accra | 1.1 | 462 |
| Volta | 2.0 | 154 |
| Eastern | 2.5 | 294 |
| Ashanti | 0.6 | 705 |
| Western North | 0.9 | 90 |
| Ahafo | 1.1 | 87 |
| Bono | 1.7 | 124 |
| Bono East | 3.1 | 185 |
| Oti | 1.8 | 119 |
| Northern | 5.8 | 430 |
| Savannah | 3.3 | 113 |
| North East | 5.2 | 130 |
| Upper East | 3.4 | 184 |
| Upper West | 2.8 | 122 |
| Mother's education ${ }^{2}$ |  |  |
| No education | 4.4 | 858 |
| Primary | 3.3 | 517 |
| Secondary | 1.6 | 1,815 |
| More than secondary | 0.3 | 300 |
| Wealth quintile |  |  |
| Lowest | 4.0 | 900 |
| Second | 3.4 | 789 |
| Middle | 1.6 | 742 |
| Fourth | 1.2 | 730 |
| Highest | 0.6 | 676 |
| Total | 2.3 | 3,837 |

Note: Table is based on children who stayed in the household the night before the interview and who were tested for anaemia. Haemoglobin levels are adjusted for altitude using CDC formulas (CDC 1998). Haemoglobin is measured in grams per decilitre ( $\mathrm{g} / \mathrm{dl}$ ) using the HemoCue 201+ device.
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ For women who are not interviewed, information on education is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 12.15 Prevalence of malaria in children
Percentage of children age 6-59 months classified in two tests as having malaria, according to background characteristics, Ghana DHS 2022

| Background characteristic | Malaria prevalence according to RDT |  | Malaria prevalence according to microscopy |  |
| :---: | :---: | :---: | :---: | :---: |
|  | RDT positive | Number of children | Microscopy positive | Number of children |
| Age in months |  |  |  |  |
| 6-8 | 9.2 | 209 | 7.4 | 209 |
| 9-11 | 10.1 | 213 | 5.0 | 213 |
| 12-17 | 13.5 | 451 | 5.5 | 451 |
| 18-23 | 12.4 | 468 | 5.9 | 468 |
| 24-35 | 17.4 | 812 | 7.3 | 812 |
| 36-47 | 18.4 | 860 | 10.6 | 860 |
| 48-59 | 21.1 | 827 | 12.4 | 827 |
| Sex |  |  |  |  |
| Male | 16.5 | 1,948 | 8.8 | 1,948 |
| Female | 16.5 | 1,890 | 8.4 | 1,890 |
| Mother's interview status |  |  |  |  |
| Interviewed | 15.9 | 3,425 | 8.3 | 3,425 |
| Not interviewed but in household | 23.1 | 67 | 14.2 | 67 |
| Not interviewed and not in the household ${ }^{1}$ | 21.6 | 346 | 11.3 | 346 |
| Residence |  |  |  |  |
| Urban | 7.5 | 1,881 | 4.3 | 1,881 |
| Rural | 25.2 | 1,957 | 12.8 | 1,957 |
| Region |  |  |  |  |
| Western | 22.5 | 241 | 9.7 | 241 |
| Central | 16.1 | 397 | 9.6 | 397 |
| Greater Accra | 3.4 | 462 | 2.0 | 462 |
| Volta | 11.5 | 154 | 6.4 | 154 |
| Eastern | 14.8 | 294 | 6.7 | 294 |
| Ashanti | 11.1 | 705 | 7.5 | 705 |
| Western North | 11.4 | 91 | 4.4 | 91 |
| Ahafo | 21.4 | 87 | 11.8 | 87 |
| Bono | 15.1 | 124 | 9.9 | 124 |
| Bono East | 22.1 | 185 | 12.1 | 185 |
| Oti | 22.6 | 119 | 15.0 | 119 |
| Northern | 18.8 | 430 | 10.6 | 430 |
| Savannah | 26.6 | 113 | 12.1 | 113 |
| North East | 26.9 | 130 | 10.3 | 130 |
| Upper East | 33.6 | 184 | 12.2 | 184 |
| Upper West | 30.2 | 122 | 13.4 | 122 |
| Mother's education ${ }^{2}$ |  |  |  |  |
| No education | 24.2 | 859 | 13.3 | 859 |
| Primary | 24.0 | 517 | 14.2 | 517 |
| Secondary | 12.0 | 1,816 | 5.6 | 1,816 |
| More than secondary | 2.9 | 300 | 0.9 | 300 |
| Wealth quintile |  |  |  |  |
| Lowest | 31.5 | 901 | 16.0 | 901 |
| Second | 21.2 | 789 | 11.1 | 789 |
| Middle | 14.8 | 743 | 7.7 | 743 |
| Fourth | 8.0 | 730 | 5.0 | 730 |
| Highest | 2.1 | 676 | 0.8 | 676 |
| Total | 16.5 | 3,838 | 8.6 | 3,838 |

RDT = rapid diagnostic test (Abbott Bioline)
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ For women who are not interviewed, information on education is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

## Key Findings

- Knowledge and attitudes about mother-to-child transmission of HIV: $70 \%$ of women and $65 \%$ of men age 15-49 know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs.
- Discriminatory attitudes towards people living with HIV: $78 \%$ of women and $72 \%$ of men who have heard of HIV or AIDS expressed discriminatory attitudes towards people living with HIV.
- Multiple sexual partners: $23 \%$ of women had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them, and $11 \%$ of these women reported using a condom during the last sexual intercourse with such a partner. Among men, $35 \%$ had intercourse in the past year with a person who neither was their wife nor lived with them, and $28 \%$ used a condom during the last sexual intercourse with such a partner.
- HIV testing: $54 \%$ of women and $24 \%$ of men have ever been tested for HIV and received the results.
- Knowledge and coverage of self-testing for HIV: $18 \%$ of women and $24 \%$ of men have ever heard of HIV self-test kits.
- Self-reported prevalence of STIs: $27 \%$ of women and $17 \%$ of men who had ever had sexual intercourse reported having had a sexually transmitted infection (STI) and/or STI symptoms in the 12 months preceding the survey.
- Knowledge about HIV prevention among young people: $36 \%$ of young women and $37 \%$ of young men age 15-24 are knowledgeable about HIV prevention.

TThis chapter presents information on the current status of HIV knowledge, attitudes, and testing coverage in the general population and the young population. The prevalence of HIV is very low among the general population in Ghana, estimated at $1.66 \%$ in the adult population age $15-49$, with an incidence of $0.08 \%$ (National and Sub-National HIV and AIDS Estimates and Projections 2022 Report). The country has slowly but steadily made good progress in its response to HIV and AIDS (Ghana National HIV \& AIDS Strategic Plan 2021-2025). The national HIV response in Ghana will benefit from the data derived from this survey in terms of HIV policy and programming.

### 13.1 Knowledge and Attitudes about Medicines to Treat or Prevent HiV

Antiretroviral medicines, or ARVs, are a powerful tool in the fight against HIV. ARVs are taken by people living with HIV to keep them healthy by preventing the virus from progressing to AIDS. By taking ARVs, individuals living with HIV also greatly reduce the risk of passing the virus on to others. Women living with HIV who take ARVs during pregnancy and breastfeeding reduce the chances of passing the virus on to their children. In addition, people who are HIV negative can take ARVs to reduce their chances of acquiring HIV. This is called preexposure prophylaxis, or PrEP.
Knowledge about and positive attitudes towards these treatment and prevention measures help to promote their use.

More women (65\%) than men (62\%) age 15-49 have heard of ARVs for treating HIV. Similarly, more women $(70 \%)$ than men ( $65 \%$ ) know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs (Table 13.1).

Seventeen percent of women and $19 \%$ of men know about PrEP as a means through which HIV can be prevented (Table 13.1 and Figure 13.1).

Trends: The percentage of women age 15-49 who know that the risk of MTCT of HIV can be reduced by the mother taking special drugs increased from $50 \%$ in 2008 to $64 \%$ in 2014 and $70 \%$ in 2022. Among men, the proportion increased from $44 \%$ in 2008 to $61 \%$ in 2014 and $65 \%$ in 2022 (Figure 13.2).

Figure 13.1 Knowledge of medicines to treat HIV or prevent HIV transmission

Percentage of women and men age 15-49 who:


Figure 13.2 Trends in knowledge of mother-to-child transmission (MTCT)

Percentage of women and men age 15-49 who know that the risk of MTCT can be reduced by mother taking special drugs


### 13.2 Discriminatory Attitudes towards People Living with HiV

Widespread stigma and discrimination in a population can adversely affect people's willingness to be tested and adherence to antiretroviral therapy (ART). Thus, reduction of stigma and discrimination in a population is an important indicator of the success of programmes targeting HIV prevention and control.

## Discriminatory attitudes towards people living with HIV

Women and men were asked two questions to assess discriminatory attitudes towards people living with HIV. Respondents with discriminatory attitudes towards people living with HIV are those who say that they would not buy fresh vegetables from a shopkeeper or vendor if they knew that person had HIV or who say that children living with HIV should not be allowed to attend school with children who do not have HIV.
Sample: Women and men age 15-49 who have heard of HIV or AIDS

Seventy-eight percent of women and $72 \%$ of men who have heard of HIV or AIDS expressed discriminatory attitudes towards people living with HIV (Table 13.2 and Figure 13.3).

### 13.3 Multiple Sexual Partners

Two percent of women age 15-49 had two or more sexual partners in the last 12 months, and $12 \%$ used a condom during their last sexual intercourse (Table 13.3.1). Twenty-three percent of women had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them (noncohabiting partner). Among these women, 11\% used a condom during the last sexual intercourse with such a partner.

Fifteen percent of men age 15-49 had two or more sexual partners in the last 12 months, and $35 \%$ had sexual intercourse in the last 12 months with a person who neither was their wife nor lived with them (Table 13.3.2). Among men with two or more sexual partners, $18 \%$ reported using a condom during their last sexual intercourse. Twenty-eight percent of men who had intercourse in the last 12 months with a person who neither was their wife nor lived with them used a condom during the last sexual intercourse with such a partner (Figure 13.4).

Figure 13.4 Sex and condom use with noncohabiting partners

Percentage of women and men age 15-49 $■$ Women ■Men
Note: Respondents have discriminatory attitudes if they do not think that children living with HIV should be able to attend school with children who are HIV negative or would not buy fresh vegetables from a shopkeeper who has HIV.

Figure 13.3 Discriminatory attitudes towards people living with HIV by age

Percentage among women and men age 15-49 who have heard of HIV $\square$ Women $■$ Men



### 13.4 Coverage of HIV Testing Services

HIV testing programmes diagnose people living with HIV so that they can be linked to care and access antiretroviral therapy (ART). Knowledge of HIV status helps HIV-negative individuals reduce their risk and remain negative.

### 13.4.1 HIV Testing of Pregnant Women

Sixty-seven percent of women who gave birth in the 2 years preceding the survey had an HIV test during antenatal care (ANC) and received the test results (Table 13.4). Almost three quarters (72\%) of women were tested for HIV and received results during either ANC or labour (Figure 13.5).

### 13.4.2 Experience with Prior HIV Testing

Fifty-four percent of women and $24 \%$ of men age 15-49 have ever been tested for HIV and received results. However, only $15 \%$ of women and $7 \%$ of men had been tested for HIV in the past 12 months and received the results of the last test (Table 13.5.1, Table 13.5.2, and Figure 13.6).

Seventeen percent of women and $12 \%$ of men had been tested for HIV only once in their lifetime
(Table 13.6). On the other hand, $6 \%$ of women and $2 \%$ of men have been tested for HIV six or more times.

Trends: The percentage of men who have ever been tested for HIV and received the results increased from $8 \%$ in 2003 to $20 \%$ in 2014 and $24 \%$ in 2022. Similarly, the percentage among women increased from 7\% in 2003 to $54 \%$ in 2022 (Figure 13.7).

## Knowledge and Coverage of Self-testing

Eighteen percent of women and $24 \%$ of men have ever heard of HIV self-test kits. However, only $2 \%$ of both men and women have used an HIV self-test kit (Table 13.7).

Figure 13.5 Trends in HIV testing during pregnancy

Percentage of women age 15-49 who gave birth in the 2 years before the survey who were tested during ANC or labour and received the results

| 2008 | 2014 | 2022 |
| :---: | :---: | :---: |
| GDHS | GDHS | GDHS |

Figure 13.6 HIV testing


Figure 13.7 Trends in HIV testing
Percentage of women and men age


$$
\begin{gathered}
\text { Percentage of women and men } \\
\text { age } 15-49 \\
\square \text { Women } ■ \text { Men }
\end{gathered}
$$

> 15-49 who have ever been tested for HIV and received the results

### 13.5 Male Circumcision

## Traditional circumcision

A cut, partial removal, or complete removal of the foreskin by a traditional practitioner, family member, or friend for religious, health, or cultural reasons. Can be performed at any age.

## Medical circumcision

Complete removal of the foreskin by a health care worker. Can be performed at any age.
Sample: Men age 15-49

All men were asked whether they were circumcised. If they said they were circumcised, they were asked both whether they had been traditionally circumcised and whether they had been medically circumcised, as well as the age at which each procedure had occurred. In some settings, traditional circumcision may leave enough of the foreskin intact that it is possible to perform a medical circumcision afterward, making it possible for a man to have been circumcised both traditionally and medically.

Ninety-five percent of men age 15-49 are traditionally or medically circumcised, with $55 \%$ traditionally circumcised only, $37 \%$ medically circumcised only, and $1 \%$ both traditionally and medically circumcised (Table 13.8).

### 13.6 Self-reporting of Sexually Transmitted Infections

## Sexually transmitted infections (STIs) and symptoms

Respondents who have ever had sex were asked whether they had an STI or symptoms of an STI (a bad-smelling, abnormal discharge from the vagina/penis or a genital sore or ulcer) in the 12 months before the survey.
Sample: Women and men age 15-49 who have ever had sex

Twenty-seven percent of women and $17 \%$ of men who had ever had sexual intercourse reported having had a sexually transmitted infection (STI) and/or STI symptoms in the 12 months preceding the survey (Table 13.9).

### 13.7 KnOWLedge and Behaviour Related to HIV and AIDS among Young People

This section addresses HIV-related knowledge among young people age 15-24 and also assesses the extent to which young people engage in behaviours that may place them at risk of acquiring HIV.

### 13.7.1 Knowledge about HIV Prevention

## Knowledge about HIV prevention

Knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV knowing that a healthy-looking person can have HIV, and rejecting two major misconceptions about HIV transmission: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.
Sample: Women and men age 15-24

Knowledge of how HIV is transmitted is crucial in enabling people to avoid HIV infection, and this is especially true for young people, who are often at greater risk because they may have shorter relationships with more partners or engage in other risky behaviours.

Only $36 \%$ of young women and $37 \%$ of young men age 15-24 are knowledgeable about HIV prevention (Table 13.10.1, Table 13.10.2, and Figure 13.8).

### 13.7.2 First Sex

Young people who initiate sex at an early age are typically at higher risk of becoming pregnant or

Ten percent of young women age $15-24$ reported having sex before age 15 , as compared with $8 \%$ of young men. Forty-eight percent of women and $34 \%$ of men age 18-24 had sex before age 18 (Table 13.11).

Trends: The proportion of women age 15-24 who had sexual intercourse before age 15 increased from $8 \%$ in 2008 to $11 \%$ in 2014 and then remained relatively unchanged at $10 \%$ in 2022. Similarly, the proportion among young men increased from $4 \%$ in 2008 to $9 \%$ in 2014 and remained relatively unchanged in 2022 (8\%) (Figure 13.9).

Figure 13.9 Trends in age at first sex

### 13.7.3 Premarital Sex

Fifty percent of never-married women and 53\% of never-married men age 15-24 have never had sexual intercourse (Table 13.12).

Trends: The proportion of never-married young women who have never had sexual intercourse decreased from $55 \%$ in 2008 to $47 \%$ in 2014 and then increased slightly to $50 \%$ in 2022 , while the proportion among never-married young men decreased from $60 \%$ in 2008 to $56 \%$ in 2014 and $53 \%$ in 2022.

### 13.7.4 Multiple Sexual Partners

Three percent of women age 15-24 had two or more partners in the last 12 months, and $34 \%$ had sex with a person who neither was their husband nor lived with them. Among young women who had sex with a person who neither was their husband nor lived with them, $14 \%$ used a condom during their last sexual intercourse with such a partner (Table 13.13.1).

Ten percent of men age 15-24 had two or more partners in the last 12 months, and $35 \%$ had sex with a person who neither was their wife nor lived with them. Among young men who had sex with a person who neither was their husband nor lived with them, $28 \%$ used a condom during their last sexual intercourse with such a partner (Table 13.13.2).

### 13.7.5 Recent HIV Testing

Seeking an HIV test may be more difficult for young people than adults because many young people lack experience in accessing health services for themselves and because there are often barriers to young people obtaining services. Seventeen percent of women and $5 \%$ of men age $15-24$ who had sex in the 12 months preceding the survey were tested for HIV and received the results of the last test (Table 13.14 and Figure 13.10).

Trends: Among young women age 15-24 who had sex in the past 12 months, the percentage who were tested for HIV and received the results of the last test during that same period increased from $2 \%$ in 2003 to $16 \%$ in 2014 and $17 \%$ in 2022.

Among young men age $15-24$ who had sex in the past 12 months, the percentage who were tested for HIV and received the results of the last test increased from $2 \%$ in 2003 to $3 \%$ in 2014 and $5 \%$ in 2022.

Figure 13.10 Recent HIV testing among young people

Among women and men age $15-24$ who had sex in the past 12 months, percentage who were tested for HIV and received the results of the last test
$■$ Women ■ Men

17

Were tested for HIV and received the result

## LISt OF TABLES

For more information on knowledge, attitudes, and behaviour related to HIV and AIDS, see the following tables:

- Table 13.1 Knowledge of and attitudes about medicines to treat HIV or prevent HIV transmission
- Table 13.2 Discriminatory attitudes towards people living with HIV
- Table 13.3.1 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Women
- Table 13.3.2 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Men
- Table 13.4 Pregnant women tested for HIV
- Table 13.5.1 Coverage of prior HIV testing: Women
- Table 13.5.2 Coverage of prior HIV testing: Men
- Table 13.6 Number of times tested for HIV in lifetime
- Table 13.7 Knowledge and coverage of self-testing for HIV
- Table 13.8 Male circumcision
- Table $13.9 \quad$ Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms
- Table 13.10.1 Knowledge about HIV prevention among young people: Women
- Table 13.10.2 Knowledge about HIV prevention among young people: Men
- Table 13.11 Age at first sexual intercourse among young people
- Table 13.12 Premarital sexual intercourse among young people
- Table 13.13.1 Multiple sexual partners and higher-risk sexual intercourse in the last $\mathbf{1 2}$ months among young people: Women
- Table 13.13.2 Multiple sexual partners and higher-risk sexual intercourse in the last $\mathbf{1 2}$ months among young people: Men
- Table 13.14 Recent HIV tests among young people

Table 13.1 Knowledge of and attitudes about medicines to treat HIV or prevent HIV transmission
Percentage of women and men age 15-49 who have heard of antiretroviral medicines (ARVs) that treat HIV, percentage who know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs, and percentage who have heard of preexposure prophylaxis (PrEP), and among women and men age 15-49 who have heard of PrEP, percentage who approve of people who take PrEP to prevent getting HIV, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who have heard of ARVs that treat HIV | Percentage who know that the risk of MTCT can be reduced by mother taking special drugs | Percentage who have heard of PrEP | Number of respondents | Percentage who approve of people who take PrEP to prevent getting HIV | Number of respondent $s$ who have heard of PrEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WOMEN |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-24 | 53.0 | 61.5 | 13.2 | 5,376 | 65.9 | 708 |
| 15-19 | 45.8 | 52.7 | 10.2 | 2,682 | 66.9 | 274 |
| 20-24 | 60.2 | 70.3 | 16.1 | 2,695 | 65.2 | 434 |
| 25-29 | 74.5 | 74.6 | 21.0 | 2,340 | 72.4 | 491 |
| 30-39 | 73.2 | 75.8 | 18.6 | 4,311 | 73.1 | 803 |
| 40-49 | 68.8 | 72.0 | 16.0 | 2,987 | 68.0 | 477 |
| Marital status |  |  |  |  |  |  |
| Never married | 60.2 | 65.3 | 15.3 | 5,268 | 67.5 | 803 |
| Ever had sex | 67.3 | 72.4 | 16.8 | 3,134 | 69.2 | 527 |
| Never had sex | 49.8 | 54.8 | 13.0 | 2,134 | 64.4 | 277 |
| Married/living together | 67.5 | 71.6 | 17.4 | 8,205 | 71.4 | 1,426 |
| Divorced/separated/widowed | 71.0 | 75.5 | 16.2 | 1,542 | 69.1 | 249 |
| Residence |  |  |  |  |  |  |
| Urban | 71.6 | 76.1 | 18.5 | 8,557 | 68.6 | 1,581 |
| Rural | 57.0 | 61.4 | 13.9 | 6,457 | 72.3 | 898 |
| Education |  |  |  |  |  |  |
| No education | 48.8 | 48.3 | 11.6 | 2,411 | 71.5 | 279 |
| Primary | 57.5 | 61.6 | 12.7 | 2,071 | 67.9 | 262 |
| Secondary | 66.9 | 73.5 | 15.5 | 8,999 | 71.9 | 1,397 |
| More than secondary | 92.7 | 92.5 | 35.3 | 1,533 | 64.9 | 541 |
| Total 15-49 | 65.3 | 69.8 | 16.5 | 15,014 | 69.9 | 2,479 |
| MEN |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-24 | 45.0 | 56.5 | 14.6 | 2,458 | 72.4 | 359 |
| 15-19 | 35.6 | 49.4 | 11.5 | 1,424 | 71.3 | 164 |
| 20-24 | 57.9 | 66.4 | 18.9 | 1,033 | 73.3 | 196 |
| 25-29 | 70.7 | 67.3 | 21.9 | 888 | 65.2 | 195 |
| 30-39 | 74.8 | 71.9 | 22.4 | 1,662 | 71.5 | 373 |
| 40-49 | 73.5 | 71.7 | 22.7 | 1,270 | 68.7 | 288 |
| Marital status |  |  |  |  |  |  |
| Never married | 52.9 | 60.5 | 15.7 | 3,208 | 67.8 | 503 |
| Ever had sex | 62.8 | 68.4 | 17.5 | 1,922 | 69.0 | 337 |
| Never had sex | 38.1 | 48.7 | 12.9 | 1,286 | 65.4 | 166 |
| Married/living together | 72.4 | 70.6 | 23.1 | 2,828 | 72.5 | 653 |
| Divorced/separated/widowed | 68.9 | 64.6 | 24.4 | 242 | 63.2 | 59 |
| Residence |  |  |  |  |  |  |
| Urban | 68.3 | 68.7 | 18.5 | 3,442 | 70.3 | 636 |
| Rural | 55.0 | 61.0 | 20.4 | 2,835 | 70.0 | 579 |
| Education |  |  |  |  |  |  |
| No education | 48.4 | 45.6 | 15.4 | 628 | 66.0 | 97 |
| Primary | 49.1 | 50.3 | 16.1 | 725 | 74.1 | 117 |
| Secondary | 60.4 | 66.2 | 18.2 | 3,990 | 72.0 | 726 |
| More than secondary | 89.9 | 85.8 | 29.4 | 935 | 64.8 | 275 |
| Total 15-49 | 62.3 | 65.2 | 19.4 | 6,277 | 70.1 | 1,215 |
| 50-59 | 70.9 | 66.1 | 24.3 | 767 | 73.0 | 186 |
| Total 15-59 | 63.2 | 65.3 | 19.9 | 7,044 | 70.5 | 1,401 |


| Table 13.2-Continued |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women |  |  |  | Men |  |  |  |
| Background characteristic | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with HIV ${ }^{1}$ | Number of women who have heard of HIV or AIDS | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with HIV ${ }^{1}$ | Number of men who have heard of HIV or AIDS |
| Education |  |  |  |  |  |  |  |  |
| No education | 78.2 | 88.8 | 91.5 | 1,961 | 79.0 | 87.7 | 90.0 | 561 |
| Primary | 76.6 | 86.0 | 89.3 | 1,943 | 73.2 | 82.2 | 86.8 | 667 |
| Secondary | 60.2 | 73.6 | 78.9 | 8,848 | 56.9 | 66.2 | 73.8 | 3,936 |
| More than secondary | 21.7 | 40.7 | 44.8 | 1,528 | 25.4 | 35.0 | 43.4 | 929 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 79.8 | 88.6 | 91.3 | 2,028 | 71.3 | 81.5 | 84.9 | 985 |
| Second | 72.8 | 84.3 | 88.1 | 2,514 | 63.0 | 73.0 | 79.5 | 1,095 |
| Middle | 65.0 | 77.9 | 83.3 | 3,060 | 57.4 | 67.3 | 73.8 | 1,120 |
| Fourth | 54.2 | 68.4 | 73.5 | 3,343 | 55.3 | 62.5 | 71.3 | 1,454 |
| Highest | 42.8 | 58.8 | 63.7 | 3,335 | 39.6 | 49.0 | 57.2 | 1,439 |
| Total 15-49 | 60.8 | 73.8 | 78.4 | 14,280 | 55.9 | 65.2 | 72.1 | 6,093 |
| 50-59 | na | na | na | na | 50.5 | 63.2 | 70.0 | 745 |
| Total 15-59 | na | na | na | na | 55.3 | 64.9 | 71.9 | 6,838 |
| na $=$ not applicable |  |  |  |  |  |  |  |  |


| Table 13.3.1—Continued |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All women |  |  | Women who had 2+ partners in the last 12 months |  | Women who had intercourse in the last 12 months with a person who neither was their husband nor lived with them |  | Women who ever had sexual intercourse ${ }^{1}$ |  |
| Background characteristic | Percentage who had 2+ partners in the last 12 months | Percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women | Mean number of sexual partners in lifetime | Number of women |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 1.0 | 6.9 | 2,411 | (5.8) | 25 | 6.4 | 165 | 1.9 | 2,356 |
| Primary | 2.8 | 21.5 | 2,071 | 3.5 | 58 | 4.2 | 446 | 2.8 | 1,833 |
| Secondary | 2.4 | 27.3 | 8,999 | 14.1 | 220 | 10.7 | 2,460 | 2.8 | 7,331 |
| More than secondary | 1.5 | 25.2 | 1,533 | * | 23 | 19.1 | 387 | 2.6 | 1,328 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 1.8 | 14.3 | 2,447 | 5.9 | 45 | 9.3 | 350 | 1.8 | 2,166 |
| Second | 2.1 | 23.1 | 2,712 | 8.7 | 58 | 5.8 | 625 | 2.5 | 2,357 |
| Middle | 2.5 | 27.8 | 3,121 | 8.4 | 78 | 11.1 | 866 | 2.8 | 2,704 |
| Fourth | 2.1 | 27.2 | 3,379 | 11.7 | 73 | 10.9 | 920 | 2.9 | 2,892 |
| Highest | 2.2 | 20.7 | 3,355 | 21.5 | 72 | 14.4 | 696 | 3.0 | 2,730 |
| Total | 2.2 | 23.0 | 15,014 | 11.8 | 326 | 10.6 | 3,458 | 2.6 | 12,848 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ${ }^{1}$ Means are calculated excluding respondents who gave non-numeric responses. |  |  |  |  |  |  |  |  |  |

Table 13.3.2-Continued

| Background characteristic | All men |  |  | Men who had 2+ partners in the last 12 months |  | Men who had intercourse in the last 12 months with a person who neither was their wife nor lived with them |  | Men who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the last 12 months | Percentage who had intercourse in the last 12 months with a person who neither was their wife nor lived with them | Number of men | Percentage who reported using a condom during last sexual intercourse | Number of men | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of men | Mean number of sexual partners in lifetime | Number of men |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 19.2 | 41.2 | 414 | 23.1 | 79 | 30.5 | 171 | 8.0 | 331 |
| Central | 14.0 | 39.7 | 686 | 20.3 | 96 | 29.3 | 273 | 7.7 | 525 |
| Greater Accra | 20.5 | 38.5 | 1,076 | 23.9 | 221 | 39.9 | 414 | 10.3 | 895 |
| Volta | 19.4 | 41.6 | 235 | 24.1 | 46 | 38.0 | 98 | 6.8 | 187 |
| Eastern | 14.7 | 33.9 | 466 | (15.6) | 68 | 26.0 | 158 | 6.9 | 378 |
| Ashanti | 10.1 | 36.4 | 1,179 | (14.0) | 120 | 13.6 | 429 | 6.0 | 906 |
| Western North | 21.5 | 42.1 | 181 | 11.1 | 39 | 20.2 | 76 | 8.9 | 145 |
| Ahafo | 14.5 | 31.3 | 133 | 22.4 | 19 | 29.7 | 42 | 8.6 | 106 |
| Bono | 16.5 | 39.2 | 222 | 12.6 | 37 | 26.0 | 87 | 6.9 | 176 |
| Bono East | 13.6 | 33.7 | 316 | 21.1 | 43 | 26.0 | 106 | 4.4 | 262 |
| Oti | 10.8 | 35.1 | 187 | 4.3 | 20 | 16.4 | 65 | 6.1 | 152 |
| Northern | 13.6 | 19.1 | 484 | 8.6 | 66 | 22.8 | 93 | 4.5 | 374 |
| Savannah | 10.7 | 20.3 | 155 | 12.1 | 17 | 31.4 | 31 | 3.8 | 114 |
| North East | 19.3 | 19.2 | 119 | 9.7 | 23 | 38.8 | 23 | 3.2 | 89 |
| Upper East | 13.8 | 27.6 | 267 | 22.3 | 37 | 47.8 | 74 | 4.5 | 199 |
| Upper West | 10.0 | 15.5 | 155 | (8.9) | 15 | 38.3 | 24 | 3.5 | 110 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 14.5 | 18.6 | 628 | 2.8 | 91 | 8.6 | 117 | 5.1 | 561 |
| Primary | 14.9 | 29.9 | 725 | 14.8 | 108 | 20.8 | 216 | 6.8 | 546 |
| Secondary | 15.1 | 36.1 | 3,990 | 17.6 | 604 | 25.6 | 1,440 | 7.3 | 2,993 |
| More than secondary | 15.4 | 41.8 | 935 | 32.7 | 144 | 47.1 | 391 | 7.1 | 849 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 13.7 | 23.0 | 1,089 | 11.6 | 149 | 19.8 | 250 | 5.3 | 800 |
| Second | 10.4 | 28.9 | 1,133 | 13.5 | 118 | 17.9 | 327 | 5.9 | 833 |
| Middle | 16.3 | 40.1 | 1,137 | 19.1 | 186 | 26.4 | 456 | 6.4 | 908 |
| Fourth | 18.8 | 40.1 | 1,466 | 16.4 | 276 | 27.0 | 588 | 7.8 | 1,232 |
| Highest | 15.0 | 37.4 | 1,453 | 26.6 | 218 | 40.6 | 543 | 8.5 | 1,175 |
| Total 15-49 | 15.1 | 34.5 | 6,277 | 18.2 | 946 | 28.1 | 2,164 | 7.0 | 4,948 |
| 50-59 | 13.5 | 16.5 | 767 | 8.6 | 104 | 16.2 | 127 | 10.1 | 751 |
| Total 15-59 | 14.9 | 32.5 | 7,044 | 17.2 | 1,050 | 27.4 | 2,291 | 7.4 | 5,699 |
| Note: Figures in parentheses are based on 25-49 unweighted cases. <br> ${ }^{1}$ Means are calculated excluding respondents who gave non-numeric responses. |  |  |  |  |  |  |  |  |  |

Table 13.4 Pregnant women tested for HIV
Among all women age 15-49 who gave birth in the 2 years preceding the survey, percentage who received an HIV test during antenatal care (ANC) for their most recent birth by whether they received their results and percentage who received an HIV test during ANC or labour for their most recent birth by whether they received their results, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who were tested for HIV during antenatal care and who: |  | Percentage who had an HIV test during ANC or labour and who: ${ }^{1}$ |  | Number of women who gave birth in the last 2 years ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Received results | Did not receive results | Received results | Did not receive results |  |
| Age |  |  |  |  |  |
| 15-24 | 61.1 | 4.9 | 65.7 | 4.9 | 1,005 |
| 15-19 | 55.8 | 5.5 | 58.1 | 7.8 | 239 |
| 20-24 | 62.7 | 4.7 | 68.0 | 4.0 | 767 |
| 25-29 | 68.7 | 4.8 | 74.9 | 5.1 | 851 |
| 30-39 | 70.4 | 4.0 | 76.9 | 3.6 | 1,381 |
| 40-49 | 63.4 | 7.3 | 66.3 | 7.0 | 254 |
| Marital status |  |  |  |  |  |
| Never married | 70.3 | 5.8 | 73.8 | 5.5 | 454 |
| Married or living together | 65.9 | 4.6 | 72.1 | 4.4 | 2,879 |
| Divorced/separated/widowed | 73.1 | 3.6 | 75.2 | 5.8 | 158 |
| Residence |  |  |  |  |  |
| Urban | 73.9 | 4.3 | 81.2 | 3.7 | 1,623 |
| Rural | 60.6 | 5.1 | 64.8 | 5.4 | 1,868 |
| Region |  |  |  |  |  |
| Western | 84.2 | 0.7 | 85.4 | 1.2 | 208 |
| Central | 60.7 | 3.6 | 76.7 | 4.5 | 357 |
| Greater Accra | 84.9 | 1.3 | 88.4 | 1.3 | 410 |
| Volta | 88.3 | 6.4 | 88.9 | 6.4 | 130 |
| Eastern | 69.9 | 3.1 | 78.8 | 1.8 | 246 |
| Ashanti | 67.3 | 3.4 | 76.0 | 3.9 | 631 |
| Western North | 84.7 | 1.8 | 87.9 | 2.2 | 96 |
| Ahafo | 67.3 | 14.1 | 71.3 | 12.9 | 77 |
| Bono | 76.7 | 3.5 | 80.8 | 2.3 | 113 |
| Bono East | 60.5 | 12.0 | 62.5 | 11.6 | 191 |
| Oti | 71.2 | 3.8 | 72.5 | 3.4 | 123 |
| Northern | 43.5 | 9.7 | 46.9 | 8.3 | 395 |
| Savannah | 31.0 | 5.8 | 32.8 | 6.8 | 105 |
| North East | 50.4 | 7.9 | 52.3 | 7.6 | 112 |
| Upper East | 64.5 | 1.7 | 70.3 | 1.7 | 191 |
| Upper West | 69.0 | 7.0 | 70.0 | 6.8 | 105 |
| Education |  |  |  |  |  |
| No education | 45.7 | 8.0 | 48.9 | 7.5 | 728 |
| Primary | 62.9 | 5.3 | 67.6 | 4.7 | 542 |
| Secondary | 71.9 | 3.9 | 78.6 | 4.1 | 1,898 |
| More than secondary | 90.8 | 1.5 | 97.7 | 1.1 | 323 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 49.3 | 6.1 | 51.7 | 6.2 | 853 |
| Second | 61.1 | 7.6 | 65.5 | 7.3 | 723 |
| Middle | 71.1 | 3.5 | 77.6 | 3.5 | 705 |
| Fourth | 75.0 | 3.8 | 84.3 | 3.7 | 631 |
| Highest | 85.4 | 1.6 | 92.3 | 1.3 | 579 |
| Total | 66.8 | 4.7 | 72.4 | 4.6 | 3,491 |

[^28]Table 13.5.1 Coverage of prior HIV testing: Women
Percent distribution of women age 15-49 by HIV testing status and by whether they received the results of the last test, percentage of women ever tested, and percentage of women who were tested in the last 12 months and received the results of the last test, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of women by testing status and by whether they received the results of the last test |  |  | Total | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-24 | 27.8 | 2.4 | 69.8 | 100.0 | 30.2 | 10.5 | 5,376 |
| 15-19 | 10.7 | 1.6 | 87.7 | 100.0 | 12.3 | 4.2 | 2,682 |
| 20-24 | 44.7 | 3.2 | 52.0 | 100.0 | 48.0 | 16.8 | 2,695 |
| 25-29 | 67.7 | 4.7 | 27.5 | 100.0 | 72.5 | 25.6 | 2,340 |
| 30-39 | 73.2 | 4.1 | 22.7 | 100.0 | 77.3 | 19.1 | 4,311 |
| 40-49 | 61.7 | 4.0 | 34.3 | 100.0 | 65.7 | 9.1 | 2,987 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 27.7 | 1.9 | 70.4 | 100.0 | 29.6 | 9.7 | 5,268 |
| Ever had sex | 42.4 | 2.7 | 54.9 | 100.0 | 45.1 | 14.5 | 3,134 |
| Never had sex | 6.1 | 0.6 | 93.3 | 100.0 | 6.7 | 2.7 | 2,134 |
| Married/living together | 68.1 | 4.5 | 27.4 | 100.0 | 72.6 | 18.9 | 8,205 |
| Divorced/separated/widowed | 66.8 | 4.3 | 28.9 | 100.0 | 71.1 | 12.6 | 1,542 |
| Residence |  |  |  |  |  |  |  |
| Urban | 57.9 | 2.7 | 39.4 | 100.0 | 60.6 | 15.7 | 8,557 |
| Rural | 48.3 | 4.7 | 47.0 | 100.0 | 53.0 | 14.2 | 6,457 |
| Region |  |  |  |  |  |  |  |
| Western | 58.8 | 2.3 | 38.9 | 100.0 | 61.1 | 16.4 | 955 |
| Central | 53.1 | 4.3 | 42.6 | 100.0 | 57.4 | 16.0 | 1,703 |
| Greater Accra | 61.4 | 0.7 | 37.9 | 100.0 | 62.1 | 16.8 | 2,327 |
| Volta | 55.4 | 6.0 | 38.6 | 100.0 | 61.4 | 15.1 | 713 |
| Eastern | 64.3 | 1.9 | 33.8 | 100.0 | 66.2 | 17.6 | 1,220 |
| Ashanti | 59.7 | 3.2 | 37.1 | 100.0 | 62.9 | 16.4 | 2,928 |
| Western North | 56.1 | 2.4 | 41.5 | 100.0 | 58.5 | 14.3 | 411 |
| Ahafo | 44.4 | 13.0 | 42.6 | 100.0 | 57.4 | 13.3 | 317 |
| Bono | 52.3 | 2.2 | 45.5 | 100.0 | 54.5 | 15.8 | 567 |
| Bono East | 45.6 | 7.5 | 46.9 | 100.0 | 53.1 | 12.2 | 676 |
| Oti | 52.8 | 4.7 | 42.5 | 100.0 | 57.5 | 16.4 | 403 |
| Northern | 32.5 | 7.2 | 60.4 | 100.0 | 39.6 | 7.9 | 1,149 |
| Savannah | 26.6 | 4.6 | 68.7 | 100.0 | 31.3 | 6.0 | 319 |
| North East | 34.2 | 4.6 | 61.1 | 100.0 | 38.9 | 12.2 | 290 |
| Upper East | 49.9 | 1.5 | 48.5 | 100.0 | 51.5 | 15.7 | 640 |
| Upper West | 46.9 | 2.6 | 50.4 | 100.0 | 49.6 | 13.1 | 398 |
| Education |  |  |  |  |  |  |  |
| No education | 41.9 | 5.3 | 52.8 | 100.0 | 47.2 | 7.9 | 2,411 |
| Primary | 53.6 | 4.0 | 42.4 | 100.0 | 57.6 | 14.3 | 2,071 |
| Secondary | 52.9 | 3.3 | 43.8 | 100.0 | 56.2 | 14.5 | 8,999 |
| More than secondary | 77.8 | 1.5 | 20.6 | 100.0 | 79.4 | 30.4 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 36.5 | 5.1 | 58.4 | 100.0 | 41.6 | 9.6 | 2,447 |
| Second | 47.2 | 5.4 | 47.3 | 100.0 | 52.7 | 11.4 | 2,712 |
| Middle | 53.1 | 3.8 | 43.1 | 100.0 | 56.9 | 13.5 | 3,121 |
| Fourth | 60.1 | 3.0 | 36.8 | 100.0 | 63.2 | 17.9 | 3,379 |
| Highest | 65.9 | 1.2 | 32.9 | 100.0 | 67.1 | 20.4 | 3,355 |
| Total | 53.8 | 3.6 | 42.6 | 100.0 | 57.4 | 15.0 | 15,014 |

${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing

Table 13.5.2 Coverage of prior HIV testing: Men
Percent distribution of men age 15-49 by HIV testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men who were tested in the last 12 months and received the results of the last test, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of men by testing status and by whether they received the results of the last test |  |  | Total | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-24 | 8.3 | 1.3 | 90.5 | 100.0 | 9.5 | 2.8 | 2,458 |
| 15-19 | 3.0 | 0.7 | 96.3 | 100.0 | 3.7 | 1.1 | 1,424 |
| 20-24 | 15.5 | 2.1 | 82.4 | 100.0 | 17.6 | 5.0 | 1,033 |
| 25-29 | 29.5 | 1.3 | 69.2 | 100.0 | 30.8 | 10.6 | 888 |
| 30-39 | 36.4 | 2.8 | 60.8 | 100.0 | 39.2 | 9.7 | 1,662 |
| 40-49 | 35.8 | 2.1 | 62.1 | 100.0 | 37.9 | 7.9 | 1,270 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 16.0 | 1.2 | 82.8 | 100.0 | 17.2 | 5.2 | 3,208 |
| Ever had sex | 24.2 | 1.4 | 74.4 | 100.0 | 25.6 | 7.8 | 1,922 |
| Never had sex | 3.7 | 1.0 | 95.3 | 100.0 | 4.7 | 1.5 | 1,286 |
| Married/living together | 33.3 | 2.6 | 64.0 | 100.0 | 36.0 | 8.5 | 2,828 |
| Divorced/separated/widowed | 29.0 | 0.8 | 70.2 | 100.0 | 29.8 | 6.2 | 242 |
| Residence |  |  |  |  |  |  |  |
| Urban | 30.4 | 1.9 | 67.7 | 100.0 | 32.3 | 8.5 | 3,442 |
| Rural | 16.9 | 1.8 | 81.3 | 100.0 | 18.7 | 4.6 | 2,835 |
| Region |  |  |  |  |  |  |  |
| Western | 25.9 | 2.4 | 71.7 | 100.0 | 28.3 | 9.7 | 414 |
| Central | 19.4 | 1.5 | 79.1 | 100.0 | 20.9 | 4.6 | 686 |
| Greater Accra | 37.1 | 2.1 | 60.9 | 100.0 | 39.1 | 9.1 | 1,076 |
| Volta | 30.9 | 1.4 | 67.7 | 100.0 | 32.3 | 9.4 | 235 |
| Eastern | 27.8 | 0.2 | 72.0 | 100.0 | 28.0 | 7.7 | 466 |
| Ashanti | 21.2 | 2.5 | 76.3 | 100.0 | 23.7 | 4.5 | 1,179 |
| Western North | 20.6 | 1.4 | 78.0 | 100.0 | 22.0 | 5.6 | 181 |
| Ahafo | 23.5 | 2.5 | 74.0 | 100.0 | 26.0 | 6.8 | 133 |
| Bono | 23.5 | 1.8 | 74.7 | 100.0 | 25.3 | 10.5 | 222 |
| Bono East | 19.8 | 1.0 | 79.2 | 100.0 | 20.8 | 9.2 | 316 |
| Oti | 20.3 | 0.8 | 78.9 | 100.0 | 21.1 | 5.8 | 187 |
| Northern | 13.4 | 2.0 | 84.7 | 100.0 | 15.3 | 3.1 | 484 |
| Savannah | 12.9 | 1.4 | 85.6 | 100.0 | 14.4 | 3.1 | 155 |
| North East | 12.6 | 1.0 | 86.5 | 100.0 | 13.5 | 5.0 | 119 |
| Upper East | 29.2 | 3.2 | 67.6 | 100.0 | 32.4 | 9.3 | 267 |
| Upper West | 22.0 | 2.6 | 75.4 | 100.0 | 24.6 | 5.3 | 155 |
| Education |  |  |  |  |  |  |  |
| No education | 8.0 | 1.3 | 90.7 | 100.0 | 9.3 | 1.6 | 628 |
| Primary | 13.4 | 1.0 | 85.6 | 100.0 | 14.4 | 3.6 | 725 |
| Secondary | 20.9 | 2.0 | 77.0 | 100.0 | 23.0 | 5.3 | 3,990 |
| More than secondary | 58.1 | 2.1 | 39.8 | 100.0 | 60.2 | 18.7 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 10.2 | 1.4 | 88.4 | 100.0 | 11.6 | 2.0 | 1,089 |
| Second | 14.3 | 1.5 | 84.2 | 100.0 | 15.8 | 3.9 | 1,133 |
| Middle | 18.2 | 1.8 | 80.0 | 100.0 | 20.0 | 5.5 | 1,137 |
| Fourth | 26.2 | 2.7 | 71.1 | 100.0 | 28.9 | 7.3 | 1,466 |
| Highest | 45.5 | 1.7 | 52.9 | 100.0 | 47.1 | 12.9 | 1,453 |
| Total 15-49 | 24.3 | 1.9 | 73.8 | 100.0 | 26.2 | 6.7 | 6,277 |
| 50-59 | 31.4 | 1.8 | 66.8 | 100.0 | 33.2 | 7.2 | 767 |
| Total 15-59 | 25.1 | 1.9 | 73.1 | 100.0 | 26.9 | 6.8 | 7,044 |

${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing

## Table 13.6 Number of times tested for HIV in lifetime

Percent distribution of women and men age 15-49 by number of times they have been tested for HIV in their lifetime, according to age, Ghana DHS 2022

| Age | Number of times tested for HIV in lifetime |  |  |  |  |  | Never tested | Total | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | $6+$ |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| 15-24 | 17.2 | 8.5 | 2.6 | 0.9 | 0.4 | 0.5 | 69.8 | 100.0 | 5,376 |
| 15-19 | 9.2 | 2.2 | 0.8 | 0.0 | 0.0 | 0.1 | 87.7 | 100.0 | 2,682 |
| 20-24 | 25.2 | 14.8 | 4.3 | 1.8 | 0.8 | 1.0 | 52.0 | 100.0 | 2,695 |
| 25-29 | 25.1 | 19.3 | 15.1 | 6.7 | 2.3 | 3.9 | 27.5 | 100.0 | 2,340 |
| 30-39 | 15.0 | 15.5 | 15.9 | 13.5 | 8.3 | 9.1 | 22.7 | 100.0 | 4,311 |
| 40-49 | 12.0 | 10.5 | 11.5 | 11.5 | 7.8 | 12.4 | 34.3 | 100.0 | 2,987 |
| Total 15-49 | 16.8 | 12.6 | 10.1 | 7.5 | 4.5 | 5.9 | 42.6 | 100.0 | 15,014 |
| MEN |  |  |  |  |  |  |  |  |  |
| 15-24 | 5.8 | 1.8 | 1.1 | 0.0 | 0.4 | 0.5 | 90.5 | 100.0 | 2,458 |
| 15-19 | 2.1 | 1.2 | 0.0 | 0.0 | 0.1 | 0.2 | 96.3 | 100.0 | 1,424 |
| 20-24 | 10.8 | 2.6 | 2.7 | 0.0 | 0.7 | 0.8 | 82.4 | 100.0 | 1,033 |
| 25-29 | 14.4 | 7.5 | 3.6 | 1.3 | 2.4 | 1.5 | 69.2 | 100.0 | 888 |
| 30-39 | 17.3 | 9.5 | 5.3 | 2.3 | 1.6 | 3.1 | 60.8 | 100.0 | 1,662 |
| 40-49 | 17.6 | 8.2 | 4.4 | 2.2 | 2.1 | 3.5 | 62.1 | 100.0 | 1,270 |
| Total 15-49 | 12.4 | 6.0 | 3.2 | 1.3 | 1.3 | 1.9 | 73.8 | 100.0 | 6,277 |
| 50-59 | 12.6 | 8.8 | 5.2 | 1.4 | 1.9 | 3.3 | 66.8 | 100.0 | 767 |
| Total 15-59 | 12.4 | 6.3 | 3.4 | 1.3 | 1.4 | 2.1 | 73.1 | 100.0 | 7,044 |

Table 13.7 Knowledge and coverage of self-testing for HIV
Percentage of women and men age 15-49 who have ever heard of HIV self-test kits, and percentage who have ever used an HIV self-test kit, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of women | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of men |
| Age |  |  |  |  |  |  |
| 15-19 | 12.2 | 0.3 | 2,682 | 15.3 | 0.1 | 1,424 |
| 20-24 | 21.2 | 2.4 | 2,695 | 25.4 | 1.2 | 1,033 |
| 25-29 | 23.4 | 4.2 | 2,340 | 25.5 | 3.3 | 888 |
| 30-34 | 20.9 | 3.9 | 2,252 | 30.5 | 2.9 | 853 |
| 35-39 | 20.2 | 3.4 | 2,059 | 27.1 | 3.2 | 809 |
| 40-44 | 14.5 | 1.3 | 1,675 | 23.4 | 2.5 | 713 |
| 45-49 | 11.7 | 0.9 | 1,312 | 22.7 | 1.2 | 557 |
| Residence |  |  |  |  |  |  |
| Urban | 22.3 | 3.3 | 8,557 | 27.2 | 2.3 | 3,442 |
| Rural | 12.7 | 1.3 | 6,457 | 19.2 | 1.3 | 2,835 |
| Education |  |  |  |  |  |  |
| No education | 6.4 | 0.3 | 2,411 | 8.2 | 0.3 | 628 |
| Primary | 10.2 | 0.3 | 2,071 | 10.0 | 0.1 | 725 |
| Secondary | 17.2 | 1.0 | 8,999 | 21.4 | 1.0 | 3,990 |
| More than secondary | 53.5 | 16.9 | 1,533 | 53.7 | 8.1 | 935 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 9.6 | 0.4 | 2,447 | 13.3 | 0.4 | 1,089 |
| Second | 10.9 | 0.5 | 2,712 | 17.2 | 0.5 | 1,133 |
| Middle | 13.8 | 1.1 | 3,121 | 22.2 | 1.3 | 1,137 |
| Fourth | 20.0 | 2.4 | 3,379 | 23.2 | 1.7 | 1,466 |
| Highest | 32.7 | 6.6 | 3,355 | 37.6 | 4.7 | 1,453 |
| Total 15-49 | 18.2 | 2.4 | 15,014 | 23.6 | 1.9 | 6,277 |
| 50-59 | na | na | na | 18.2 | 1.2 | 767 |
| Total 15-59 | na | na | na | 23.0 | 1.8 | 7,044 |
| na $=$ not applicable |  |  |  |  |  |  |

Table 13.8 Male circumcision
Percent distribution of men age 15-49 by circumcision status, and percentage traditionally or medically circumcised, according to background characteristics, Ghana DHS 2022

| Background characteristic | Circumcision status |  |  |  |  | Total | Percentage traditionally or medically circumcised ${ }^{1}$ | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage traditionally circumcised only | Percentage medically circumcised only | Percentage both traditionally and medically circumcised | Percentage circumcised but don't know type | Percentage not circumcised or don't know circumcision status |  |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 48.9 | 40.7 | 0.5 | 3.3 | 6.5 | 100.0 | 93.5 | 1,424 |
| 20-24 | 47.0 | 45.5 | 0.7 | 2.0 | 4.9 | 100.0 | 95.1 | 1,033 |
| 25-29 | 52.0 | 40.8 | 0.5 | 3.3 | 3.4 | 100.0 | 96.6 | 888 |
| 30-34 | 59.6 | 33.2 | 0.4 | 1.7 | 5.2 | 100.0 | 94.8 | 853 |
| 35-39 | 59.0 | 34.2 | 0.9 | 1.9 | 4.1 | 100.0 | 95.9 | 809 |
| 40-44 | 60.7 | 32.0 | 1.0 | 2.1 | 4.2 | 100.0 | 95.8 | 713 |
| 45-49 | 73.1 | 19.7 | 0.9 | 2.2 | 4.1 | 100.0 | 95.9 | 557 |
| Ethnic group |  |  |  |  |  |  |  |  |
| Akan | 46.4 | 48.7 | 0.1 | 3.1 | 1.7 | 100.0 | 98.3 | 2,887 |
| $\mathrm{Ga} / \mathrm{Dangme}$ | 65.6 | 33.1 | 0.0 | 1.0 | 0.3 | 100.0 | 99.7 | 456 |
| Ewe | 65.8 | 30.6 | 0.0 | 2.9 | 0.7 | 100.0 | 99.3 | 687 |
| Guan | 62.6 | 31.1 | 0.0 | 2.8 | 3.5 | 100.0 | 96.5 | 223 |
| Mole-Dagbani | 64.9 | 21.7 | 2.7 | 1.3 | 9.4 | 100.0 | 90.6 | 1,155 |
| Grusi | 62.5 | 27.9 | 0.3 | 2.2 | 7.1 | 100.0 | 92.9 | 209 |
| Gurma | 49.7 | 22.3 | 0.9 | 2.1 | 25.0 | 100.0 | 75.0 | 422 |
| Mande | 69.2 | 22.2 | 2.7 | 3.1 | 2.8 | 100.0 | 97.2 | 161 |
| Other | 48.7 | 44.3 | 0.0 | 0.8 | 6.1 | 100.0 | 93.9 | 77 |
| Religion |  |  |  |  |  |  |  |  |
| Catholic | 42.6 | 44.5 | 0.0 | 1.6 | 11.3 | 100.0 | 88.7 | 508 |
| Anglican | (62.0) | (33.2) | (0.0) | (0.0) | (4.8) | (100.0) | (95.2) | 52 |
| Methodist | 45.9 | 50.4 | 0.0 | 3.0 | 0.6 | 100.0 | 99.4 | 346 |
| Presbyterian | 52.7 | 43.4 | 0.1 | 2.0 | 1.8 | 100.0 | 98.2 | 347 |
| Pentecostal/Charismatic | 53.0 | 40.9 | 0.0 | 2.7 | 3.4 | 100.0 | 96.6 | 2,199 |
| Other Christian | 46.6 | 46.3 | 0.0 | 2.6 | 4.4 | 100.0 | 95.6 | 965 |
| Islam | 74.7 | 18.3 | 3.1 | 2.1 | 1.8 | 100.0 | 98.2 | 1,322 |
| Traditional/spiritualist | 49.3 | 19.0 | 0.0 | 2.4 | 29.3 | 100.0 | 70.7 | 235 |
| No religion | 52.5 | 35.6 | 0.0 | 3.7 | 8.2 | 100.0 | 91.8 | 300 |
| Other | * | * | * | * | * | * | * | 4 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 52.4 | 42.8 | 0.6 | 2.0 | 2.2 | 100.0 | 97.8 | 3,442 |
| Rural | 58.8 | 29.5 | 0.8 | 2.9 | 8.0 | 100.0 | 92.0 | 2,835 |
| Region |  |  |  |  |  |  |  |  |
| Western | 69.6 | 25.8 | 0.3 | 2.8 | 1.4 | 100.0 | 98.6 | 414 |
| Central | 57.3 | 40.0 | 0.0 | 1.0 | 1.7 | 100.0 | 98.3 | 686 |
| Greater Accra | 56.1 | 40.6 | 0.0 | 1.8 | 1.4 | 100.0 | 98.6 | 1,076 |
| Volta | 68.9 | 30.8 | 0.0 | 0.3 | 0.0 | 100.0 | 100.0 | 235 |
| Eastern | 63.5 | 34.8 | 0.0 | 0.9 | 0.8 | 100.0 | 99.2 | 466 |
| Ashanti | 42.0 | 52.3 | 0.0 | 3.4 | 2.3 | 100.0 | 97.7 | 1,179 |
| Western North | 40.6 | 32.4 | 0.0 | 23.1 | 3.9 | 100.0 | 96.1 | 181 |
| Ahafo | 36.8 | 52.5 | 0.3 | 8.8 | 1.7 | 100.0 | 98.3 | 133 |
| Bono | 35.1 | 53.5 | 0.0 | 2.1 | 9.4 | 100.0 | 90.6 | 222 |
| Bono East | 55.2 | 38.6 | 0.0 | 0.6 | 5.6 | 100.0 | 94.4 | 316 |
| Oti | 60.4 | 29.7 | 0.2 | 0.6 | 9.1 | 100.0 | 90.9 | 187 |
| Northern | 61.5 | 10.7 | 7.9 | 0.6 | 19.4 | 100.0 | 80.6 | 484 |
| Savannah | 71.3 | 19.2 | 0.8 | 1.5 | 7.3 | 100.0 | 92.7 | 155 |
| North East | 84.3 | 10.3 | 0.0 | 0.9 | 4.5 | 100.0 | 95.5 | 119 |
| Upper East | 57.6 | 30.9 | 0.0 | 0.3 | 11.3 | 100.0 | 88.7 | 267 |
| Upper West | 51.7 | 25.3 | 0.0 | 1.3 | 21.7 | 100.0 | 78.3 | 155 |
| Education |  |  |  |  |  |  |  |  |
| No education | 64.0 | 13.3 | 3.1 | 1.4 | 18.2 | 100.0 | 81.8 | 628 |
| Primary | 66.3 | 25.0 | 0.7 | 1.5 | 6.4 | 100.0 | 93.6 | 725 |
| Secondary | 53.6 | 40.0 | 0.4 | 2.9 | 3.0 | 100.0 | 97.0 | 3,990 |
| More than secondary | 47.8 | 47.9 | 0.2 | 1.9 | 2.3 | 100.0 | 97.7 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 58.3 | 22.1 | 1.5 | 1.8 | 16.4 | 100.0 | 83.6 | 1,089 |
| Second | 63.2 | 29.3 | 0.6 | 2.8 | 4.1 | 100.0 | 95.9 | 1,133 |
| Middle | 58.2 | 34.6 | 0.7 | 4.2 | 2.3 | 100.0 | 97.7 | 1,137 |
| Fourth | 51.8 | 44.4 | 0.5 | 2.2 | 1.1 | 100.0 | 98.9 | 1,466 |
| Highest | 48.1 | 47.7 | 0.2 | 1.5 | 2.5 | 100.0 | 97.5 | 1,453 |
| Total 15-49 | 55.3 | 36.8 | 0.7 | 2.4 | 4.8 | 100.0 | 95.2 | 6,277 |
| 50-59 | 74.2 | 19.0 | 0.8 | 1.9 | 4.0 | 100.0 | 96.0 | 767 |
| Total 15-59 | 57.3 | 34.9 | 0.7 | 2.4 | 4.7 | 100.0 | 95.3 | 7,044 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes all men who report they are circumcised
Table 13.9 Self-reported prevalence of sexually transmitted infections (STIS) and STI symptoms
Among women and men age 15-49 who ever had sexual intercourse, percentage reporting having an STI and/or symptoms of an STI in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of women who reported having in the past 12 months: |  |  |  |  | Percentage of men who reported having in the past 12 months: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STI | Bad-smelling/ abnormal genital discharge | Genital sore or ulcer | STI/genital discharge/ sore or ulcer | Number of women who ever had sexual intercourse | STI | Bad-smelling/ abnormal discharge from penis | Genital sore or ulcer | STI/abnormal discharge from penis/ sore or ulcer | Number of men who ever had sexual intercourse |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 7.7 | 29.8 | 11.4 | 34.8 | 3,366 | 15.1 | 15.9 | 11.3 | 23.1 | 1,246 |
| 15-19 | 7.1 | 31.9 | 12.1 | 37.6 | 1,048 | 12.5 | 13.9 | 11.4 | 22.2 | 438 |
| 20-24 | 8.1 | 28.8 | 11.1 | 33.6 | 2,318 | 16.5 | 17.0 | 11.3 | 23.6 | 808 |
| 25-29 | 8.1 | 24.3 | 10.4 | 29.3 | 2,251 | 12.6 | 13.2 | 8.1 | 18.5 | 850 |
| 30-39 | 6.0 | 19.5 | 8.5 | 24.3 | 4,281 | 11.0 | 9.4 | 6.4 | 15.8 | 1,636 |
| 40-49 | 4.1 | 14.9 | 6.5 | 19.0 | 2,982 | 5.2 | 5.4 | 5.1 | 9.8 | 1,259 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 8.3 | 30.6 | 10.5 | 35.2 | 3,134 | 13.6 | 14.3 | 8.6 | 20.2 | 1,922 |
| Married or living together | 5.9 | 19.8 | 9.0 | 24.5 | 8,204 | 8.7 | 7.9 | 6.8 | 13.9 | 2,828 |
| Divorced/separated/widowed | 5.3 | 15.9 | 7.1 | 21.2 | 1,542 | 14.1 | 14.2 | 7.9 | 18.5 | 242 |
| Circumcision status |  |  |  |  |  |  |  |  |  |  |
| Traditionally or medically |  |  |  |  |  |  |  |  |  |  |
| circumcised ${ }^{1}$ | na | na | na | na | na | 11.0 | 10.7 | 7.2 | 16.2 | 4,776 |
| Traditionally circumcised only | na | na | na | na | na | 11.1 | 10.9 | 7.4 | 16.2 | 2,838 |
| Medically circumcised only | na | na | na | na | na | 10.4 | 9.9 | 6.0 | 15.2 | 1,792 |
| Both traditionally and medically circumcised | na | na | na | na | na | (5.9) | (23.9) | (17.4) | (32.2) | 36 |
| Other ${ }^{2}$ | na | na | na | na | na | 18.8 | 12.7 | 16.3 | 27.6 | 110 |
| Not circumcised or don't know | na | na | na | na | na | 7.6 | 10.2 | 17.1 | 24.6 | 215 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 7.1 | 22.1 | 8.5 | 27.1 | 7,202 | 10.8 | 9.2 | 5.8 | 14.9 | 2,777 |
| Rural | 5.5 | 21.8 | 9.9 | 26.2 | 5,678 | 10.9 | 12.5 | 9.8 | 18.6 | 2,213 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 6.4 | 24.7 | 9.4 | 28.1 | 818 | 17.5 | 19.9 | 16.1 | 25.0 | 332 |
| Central | 6.0 | 21.0 | 8.0 | 26.2 | 1,445 | 15.7 | 18.4 | 10.4 | 23.3 | 532 |
| Greater Accra | 5.8 | 18.5 | 2.3 | 22.3 | 1,925 | 6.9 | 2.9 | 1.7 | 8.0 | 903 |
| Volta | 4.8 | 17.2 | 6.5 | 21.4 | 592 | 10.0 | 7.5 | 2.4 | 10.0 | 187 |
| Eastern | 5.2 | 26.2 | 9.8 | 29.7 | 1,044 | 13.7 | 12.8 | 5.4 | 17.9 | 378 |
| Ashanti | 7.6 | 22.4 | 9.6 | 28.0 | 2,542 | 10.5 | 9.8 | 8.1 | 16.4 | 915 |
| Western North | 7.4 | 23.4 | 7.4 | 27.6 | 368 | 20.1 | 20.4 | 9.1 | 24.1 | 149 |
| Ahafo | 10.0 | 32.5 | 15.3 | 37.8 | 278 | 16.1 | 17.4 | 5.1 | 20.7 | 106 |
| Bono | 7.1 | 19.3 | 7.7 | 23.3 | 479 | 9.1 | 9.1 | 6.6 | 11.6 | 177 |
| Bono East | 5.4 | 18.2 | 10.3 | 23.4 | 601 | 13.9 | 11.7 | 10.1 | 21.6 | 262 |
| Oti | 5.3 | 15.7 | 8.5 | 22.5 | 357 | 10.2 | 11.2 | 5.1 | 14.5 | 152 |
| Northern | 7.3 | 32.5 | 23.9 | 38.9 | 1,018 | 8.9 | 13.0 | 19.3 | 28.6 | 379 |
| Savannah | 3.7 | 25.4 | 15.6 | 30.2 | 279 | 5.6 | 10.3 | 4.9 | 16.0 | 117 |
| North East | 9.6 | 18.4 | 7.2 | 24.0 | 258 | 6.5 | 6.5 | 6.1 | 9.2 | 89 |
| Upper East | 5.4 | 12.4 | 5.5 | 16.8 | 544 | 3.7 | 4.3 | 2.0 | 6.4 | 203 |
| Upper West | 5.3 | 20.8 | 6.4 | 24.4 | 332 | 2.3 | 2.7 | 1.6 | 5.1 | 111 |

Table 13.10.1 Knowledge about HIV prevention among young people: Women
Percentages of young women age $15-24$ who, in response to prompted questions, say that people can reduce their risk of getting HIV by using condoms every time they have sexual intercourse and by having one sex partner who is not infected and has no other partners, that a healthy-looking person can have HIV, that HIV cannot be transmitted by mosquito bites, and that a person cannot get HIV by sharing food with a person who has HIV, and percentage with knowledge about HIV prevention, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who know: |  |  |  |  | Percentage with knowledge about HIV prevention ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | People can reduce their risk of getting HIV by: |  |  |  |  |  |  |
|  | Using a condom every time they have sex | Having sex with only one uninfected partner who has no other partners | A healthy-looking person can have HIV | HIV cannot be transmitted by mosquito bites | A person cannot get HIV by sharing food with a person who has HIV |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 74.6 | 78.5 | 65.5 | 77.0 | 63.0 | 30.4 | 2,682 |
| 15-17 | 72.3 | 75.1 | 62.6 | 76.3 | 61.5 | 28.6 | 1,729 |
| 18-19 | 78.9 | 84.7 | 70.7 | 78.2 | 65.6 | 33.5 | 953 |
| 20-24 | 82.4 | 84.1 | 75.4 | 81.2 | 68.7 | 42.0 | 2,695 |
| 20-22 | 81.4 | 84.3 | 76.0 | 81.3 | 68.3 | 41.2 | 1,624 |
| 23-24 | 84.0 | 83.8 | 74.5 | 81.1 | 69.3 | 43.3 | 1,071 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 79.0 | 82.3 | 71.5 | 81.3 | 68.2 | 37.4 | 4,033 |
| Ever had sex | 83.0 | 86.0 | 74.9 | 83.7 | 68.1 | 40.4 | 2,024 |
| Never had sex | 75.0 | 78.5 | 68.1 | 78.8 | 68.2 | 34.4 | 2,010 |
| Ever married | 77.1 | 78.5 | 67.3 | 72.6 | 59.0 | 32.7 | 1,343 |
| Residence |  |  |  |  |  |  |  |
| Urban | 82.0 | 84.1 | 75.4 | 84.8 | 73.0 | 41.1 | 3,009 |
| Rural | 74.1 | 77.8 | 64.1 | 71.9 | 56.7 | 30.0 | 2,367 |
| Region |  |  |  |  |  |  |  |
| Western | 86.8 | 88.7 | 75.9 | 85.6 | 77.4 | 48.6 | 351 |
| Central | 85.5 | 82.9 | 72.9 | 86.4 | 68.5 | 38.1 | 675 |
| Greater Accra | 82.3 | 79.2 | 74.0 | 89.6 | 83.5 | 41.0 | 752 |
| Volta | 79.4 | 86.3 | 68.2 | 75.3 | 72.9 | 35.4 | 257 |
| Eastern | 76.0 | 83.6 | 84.8 | 83.2 | 78.7 | 46.7 | 398 |
| Ashanti | 84.8 | 92.9 | 78.7 | 88.8 | 64.1 | 44.2 | 1,039 |
| Western North | 86.4 | 92.9 | 68.2 | 78.4 | 59.6 | 31.6 | 141 |
| Ahafo | 87.2 | 88.1 | 54.4 | 76.9 | 64.7 | 29.2 | 118 |
| Bono | 77.0 | 82.0 | 76.4 | 76.6 | 61.7 | 34.0 | 214 |
| Bono East | 72.2 | 75.9 | 69.7 | 73.5 | 54.3 | 32.7 | 246 |
| Oti | 75.3 | 82.3 | 68.1 | 56.8 | 46.0 | 20.5 | 153 |
| Northern | 52.5 | 55.8 | 39.6 | 49.6 | 38.1 | 13.0 | 385 |
| Savannah | 52.7 | 63.6 | 50.9 | 51.4 | 37.2 | 15.6 | 124 |
| North East | 55.3 | 59.3 | 41.7 | 53.5 | 44.1 | 12.8 | 112 |
| Upper East | 81.4 | 72.2 | 75.7 | 75.2 | 72.5 | 35.5 | 251 |
| Upper West | 74.1 | 75.7 | 56.2 | 69.5 | 56.5 | 23.5 | 158 |
| Education |  |  |  |  |  |  |  |
| No education | 41.0 | 44.6 | 35.2 | 36.7 | 26.9 | 5.9 | 293 |
| Primary | 64.2 | 71.1 | 58.4 | 63.1 | 43.2 | 17.9 | 653 |
| Secondary | 83.0 | 84.9 | 73.4 | 83.5 | 70.4 | 39.4 | 4,118 |
| More than secondary | 85.1 | 89.5 | 89.2 | 94.5 | 89.3 | 60.3 | 313 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 61.6 | 65.8 | 52.4 | 58.7 | 44.8 | 17.8 | 910 |
| Second | 74.6 | 80.4 | 60.5 | 73.7 | 54.6 | 27.5 | 1,059 |
| Middle | 83.9 | 84.4 | 74.6 | 82.7 | 67.5 | 37.6 | 1,227 |
| Fourth | 84.7 | 85.8 | 79.4 | 87.0 | 77.0 | 45.4 | 1,181 |
| Highest | 84.3 | 87.5 | 81.8 | 89.7 | 81.7 | 49.7 | 998 |
| Total | 78.5 | 81.3 | 70.5 | 79.1 | 65.9 | 36.2 | 5,376 |

[^29]Table 13.10.2 Knowledge about HIV prevention among young people: Men
Percentages of young men age 15-24 who, in response to prompted questions, say that people can reduce their risk of getting HIV by using condoms every time they have sexual intercourse and by having one sex partner who is not infected and has no other partners, that a healthy-looking person can have HIV, that HIV cannot be transmitted by mosquito bites, and that a person cannot get HIV by sharing food with a person who has HIV, and percentage with knowledge about HIV prevention, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who know: |  |  |  |  | Percentage with knowledge about HIV prevention ${ }^{1}$ | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | People can reduce their risk of getting HIV by: |  |  |  |  |  |  |
|  | Using a condom every time they have sex | Having sex with only one uninfected partner who has no other partners | A healthy-looking person can have HIV | HIV cannot be transmitted by mosquito bites | A person cannot get HIV by sharing food with a person who has HIV |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 82.1 | 80.3 | 63.5 | 70.8 | 63.4 | 31.2 | 1,424 |
| 15-17 | 80.0 | 75.9 | 59.5 | 68.5 | 61.8 | 28.5 | 915 |
| 18-19 | 85.9 | 88.1 | 70.8 | 74.8 | 66.2 | 36.2 | 510 |
| 20-24 | 90.1 | 90.9 | 79.6 | 74.7 | 73.7 | 45.1 | 1,033 |
| 20-22 | 89.6 | 90.0 | 77.4 | 73.3 | 74.0 | 43.8 | 640 |
| 23-24 | 91.0 | 92.5 | 83.1 | 76.9 | 73.1 | 47.2 | 394 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 85.5 | 84.7 | 69.8 | 72.9 | 68.3 | 37.2 | 2,295 |
| Ever had sex | 89.7 | 89.9 | 77.3 | 75.9 | 70.8 | 41.9 | 1,083 |
| Never had sex | 81.8 | 80.1 | 63.1 | 70.1 | 66.0 | 33.0 | 1,212 |
| Ever married | 85.3 | 85.7 | 76.9 | 66.1 | 60.2 | 35.3 | 163 |
| Residence |  |  |  |  |  |  |  |
| Urban | 89.2 | 89.1 | 74.6 | 77.8 | 75.9 | 43.8 | 1,286 |
| Rural | 81.4 | 80.0 | 65.5 | 66.5 | 58.8 | 29.7 | 1,172 |
| Region |  |  |  |  |  |  |  |
| Western | 81.3 | 90.6 | 67.9 | 52.9 | 67.9 | 25.4 | 172 |
| Central | 80.3 | 75.6 | 70.1 | 77.1 | 64.8 | 31.7 | 316 |
| Greater Accra | 94.1 | 91.6 | 91.5 | 72.2 | 76.4 | 48.9 | 318 |
| Volta | 90.3 | 88.8 | 61.7 | 88.7 | 88.2 | 44.4 | 91 |
| Eastern | 94.4 | 98.5 | 63.7 | 86.7 | 70.6 | 38.3 | 189 |
| Ashanti | 94.7 | 93.5 | 78.3 | 80.7 | 73.5 | 48.4 | 524 |
| Western North | 80.0 | 79.6 | 79.1 | 71.6 | 68.8 | 37.7 | 73 |
| Ahafo | 87.6 | 92.6 | 80.2 | 77.7 | 72.2 | 39.3 | 47 |
| Bono | 83.0 | 83.1 | 61.1 | 70.4 | 65.0 | 32.1 | 85 |
| Bono East | 80.2 | 78.9 | 64.5 | 83.1 | 74.6 | 48.5 | 110 |
| Oti | 89.6 | 92.2 | 59.4 | 68.3 | 49.8 | 20.8 | 81 |
| Northern | 61.2 | 61.0 | 50.5 | 47.1 | 49.0 | 15.2 | 175 |
| Savannah | 62.7 | 63.1 | 39.7 | 40.3 | 46.3 | 18.7 | 62 |
| North East | 79.0 | 76.7 | 53.5 | 58.5 | 29.4 | 10.9 | 47 |
| Upper East | 84.5 | 77.2 | 66.5 | 81.4 | 72.5 | 41.7 | 109 |
| Upper West | 76.7 | 69.4 | 58.3 | 49.7 | 55.3 | 21.0 | 58 |
| Education |  |  |  |  |  |  |  |
| No education | 49.5 | 54.1 | 44.2 | 38.3 | 31.9 | 11.1 | 111 |
| Primary | 72.5 | 67.4 | 53.2 | 59.3 | 49.7 | 19.1 | 319 |
| Secondary | 89.1 | 89.0 | 72.3 | 76.1 | 71.2 | 39.3 | 1,835 |
| More than secondary | 93.3 | 90.9 | 94.1 | 78.2 | 84.9 | 60.0 | 194 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 71.3 | 69.2 | 58.5 | 59.6 | 50.6 | 26.9 | 475 |
| Second | 84.9 | 82.9 | 66.2 | 68.2 | 63.2 | 29.0 | 501 |
| Middle | 90.2 | 89.0 | 69.6 | 77.0 | 71.6 | 37.3 | 515 |
| Fourth | 88.3 | 89.5 | 75.1 | 78.5 | 74.9 | 39.6 | 521 |
| Highest | 92.4 | 93.1 | 82.5 | 78.3 | 78.3 | 53.7 | 446 |
| Total | 85.5 | 84.8 | 70.3 | 72.4 | 67.7 | 37.1 | 2,458 |

[^30]Table 13.11 Age at first sexual intercourse among young people
Percentage of young women and young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and young men age 18-24 who had sexual intercourse before age 18, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age 15-24 |  | Women age 18-24 |  | Men age 15-24 |  | Men age 18-24 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had sexual intercourse before age 15 | Number of women | Percentage who had sexual intercourse before age 18 | Number of women | Percentage who had sexual intercourse before age 15 | Number of men | Percentage who had sexual intercourse before age 18 | Number of men |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 10.2 | 2,682 | na | na | 8.9 | 1,424 | na | na |
| 15-17 | 10.4 | 1,729 | na | na | 8.7 | 915 | na | na |
| 18-19 | 9.9 | 953 | 51.9 | 953 | 9.3 | 510 | 39.5 | 510 |
| 20-24 | 10.5 | 2,695 | 46.5 | 2,695 | 6.2 | 1,033 | 31.8 | 1,033 |
| 20-22 | 9.2 | 1,624 | 44.4 | 1,624 | 6.8 | 640 | 30.0 | 640 |
| 23-24 | 12.4 | 1,071 | 49.8 | 1,071 | 5.3 | 394 | 34.7 | 394 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 8.8 | 3,009 | 42.1 | 2,079 | 8.0 | 1,286 | 31.8 | 838 |
| Rural | 12.3 | 2,367 | 55.6 | 1,569 | 7.6 | 1,172 | 37.4 | 705 |
| Education |  |  |  |  |  |  |  |  |
| No education | 13.9 | 293 | 61.0 | 236 | 4.2 | 111 | 32.5 | 77 |
| Primary | 21.4 | 653 | 70.2 | 347 | 9.3 | 319 | 36.7 | 154 |
| Secondary | 9.0 | 4,118 | 47.6 | 2,759 | 7.8 | 1,835 | 36.1 | 1,118 |
| More than secondary | 2.0 | 313 | 15.1 | 305 | 7.1 | 194 | 23.1 | 194 |
| Total | 10.3 | 5,376 | 47.9 | 3,647 | 7.8 | 2,458 | 34.3 | 1,543 |

na $=$ not applicable

Table 13.12 Premarital sexual intercourse among young people
Among never-married women and men age 15-24, percentage who have never had sexual intercourse, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age 15-24 |  | Men age 15-24 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have never had sexual intercourse | Number of nevermarried women | Percentage who have never had sexual intercourse | Number of nevermarried men |
| Age |  |  |  |  |
| 15-19 | 66.1 | 2,469 | 70.0 | 1,410 |
| 15-17 | 75.1 | 1,668 | 80.3 | 915 |
| 18-19 | 47.5 | 801 | 51.0 | 495 |
| 20-24 | 24.1 | 1,564 | 25.4 | 885 |
| 20-22 | 29.2 | 1,092 | 31.9 | 588 |
| 23-24 | 12.2 | 472 | 12.6 | 297 |
| Residence |  |  |  |  |
| Urban | 50.7 | 2,461 | 50.2 | 1,227 |
| Rural | 48.5 | 1,572 | 55.8 | 1,068 |
| Education |  |  |  |  |
| No education | 48.8 | 92 | 55.3 | 87 |
| Primary | 52.7 | 429 | 59.2 | 289 |
| Secondary | 50.3 | 3,218 | 54.2 | 1,726 |
| More than secondary | 40.8 | 294 | 29.2 | 193 |
| Total | 49.8 | 4,033 | 52.8 | 2,295 |

Table 13.13.1 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months among young people: Women
Among all young women age $15-24$, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them; among young women having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; and among young women who had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age 15-24 |  |  | Women age 15-24 who had 2+ partners in the last 12 months |  | Women age 15-24 who had intercourse in the last 12 months with a person who neither was their husband nor lived with them |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the last 12 months | Percentage who had intercourse in the last 12 months with a person who was neither their husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual intercourse | Number of women | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women |
| Age |  |  |  |  |  |  |  |
| 15-19 | 2.6 | 26.8 | 2,682 | 17.3 | 70 | 17.2 | 719 |
| 15-17 | 1.6 | 19.2 | 1,729 | (22.7) | 27 | 21.6 | 333 |
| 18-19 | 4.5 | 40.5 | 953 | (14.0) | 43 | 13.5 | 386 |
| 20-24 | 3.4 | 41.6 | 2,695 | 16.9 | 91 | 11.5 | 1,122 |
| 20-22 | 3.8 | 42.8 | 1,624 | 21.2 | 62 | 11.6 | 695 |
| 23-24 | 2.6 | 39.9 | 1,071 | (7.2) | 28 | 11.3 | 427 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 3.0 | 40.5 | 4,033 | 19.0 | 121 | 14.1 | 1,633 |
| Ever married | 3.0 | 15.4 | 1,343 | (11.2) | 40 | 10.9 | 207 |
| Residence |  |  |  |  |  |  |  |
| Urban | 2.9 | 36.6 | 3,009 | 19.9 | 88 | 15.0 | 1,102 |
| Rural | 3.1 | 31.2 | 2,367 | 13.6 | 73 | 11.8 | 739 |
| Education |  |  |  |  |  |  |  |
| No education | 2.3 | 14.6 | 293 | * | 7 | 8.4 | 43 |
| Primary | 3.9 | 28.8 | 653 | (8.1) | 25 | 7.5 | 188 |
| Secondary | 3.0 | 35.6 | 4,118 | 17.1 | 122 | 13.8 | 1,466 |
| More than secondary | 2.2 | 45.9 | 313 | * | 7 | 22.9 | 144 |
| Total | 3.0 | 34.2 | 5,376 | 17.1 | 161 | 13.7 | 1,841 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## Table 13.13.2 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months among young people: Men

Among all young men age 15-24, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their wife nor lived with them; among young men having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; and among young men who had sexual intercourse in the last 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Ghana DHS 2022

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## Table 13.14 Recent HIV tests among young people

Among young women and young men age 15-24 who have had sexual intercourse in the last 12 months, percentage who were tested for HIV in the last 12 months and received the results of the last test, according to background characteristics, Ghana DHS 2022

| Background characteristic | Women age 15-24 who have had sexual intercourse in the last 12 months: |  | Men age 15-24 who have had sexual intercourse in the last 12 months: |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
| Age |  |  |  |  |
| 15-19 | 10.6 | 871 | 3.2 | 299 |
| 15-17 | 9.1 | 373 | 0.8 | 115 |
| 18-19 | 11.7 | 499 | 4.7 | 184 |
| 20-24 | 20.1 | 1,988 | 5.7 | 654 |
| 20-22 | 18.1 | 1,113 | 3.4 | 358 |
| 23-24 | 22.6 | 875 | 8.5 | 296 |
| Marital status |  |  |  |  |
| Never married | 13.0 | 1,635 | 5.2 | 796 |
| Ever married | 22.8 | 1,225 | 3.4 | 157 |
| Total | 17.2 | 2,860 | 4.9 | 953 |

## Key Findings

- Health insurance coverage: Women age 15-49 (90\%) are more likely than men (73\%) to have health insurance coverage. Coverage among men and women increases with increasing wealth.
- National Health Insurance Scheme (NHIS) coverage: The NHIS is the most common type of health insurance among both women and men, accounting for nearly all coverage.
- Health care utilisation: The percentage of respondents who saw a health care practitioner in the 6 months before the survey and had an NHIS card is higher among women ( $24 \%$ ) than among men (9\%).
- Out-of-pocket payments: Insured men and women made out-of-pocket payments for all services. For both women and men, out-of-pocket payments were most common for diagnosis services (53\% and 64\%, respectively).

TThe National Health Insurance Scheme (NHIS), now in its 20th year of operation, remains the single largest payer of health care services and a contributor to achieving universal health coverage in Ghana. The mandate of the NHIS is to provide financial risk protection against health care expenses to its beneficiaries by providing annual coverage at a set premium.

Membership in the NHIS is required by law (Act 652); nevertheless, an individual must first register, which entails paying an annual premium that secures coverage of health care services based on a defined benefits package that is open to all. At the time of registration, an individual is classified in one of the following membership categories: Social Security and National Insurance Trust (SSNIT) contributors (i.e., formal sector workers), SSNIT pensioners, people over age 70, children under age 18, indigents, pregnant women, and people in the informal sector, including self-employed individuals. The premium amount is determined by the membership category. The premium payment ensures membership validity and is renewed annually to ensure that health care benefits are provided. Those with valid memberships can access both private and public health care facilities that are credentialed by the National Health Insurance Authority (NHIA) to provide services.

As a social intervention programme, the NHIS operates through more than 160 district offices around the country.

The NHIA oversees NHIS operations and licenses, supervises, and regulates the activities of private health insurance schemes in the country. The NHIS had $54.5 \%$ population coverage and over 5,000 credentialed facilities nationwide at the end of 2022 (unpublished 2022 NHIS annual report).

### 14.1 Health Insurance Coverage and National Health Insurance Scheme

Table 14.1.1 and Table 14.1.2 show health insurance coverage among women and men age 1549 according to insurance coverage type and background characteristics. Ninety percent of women and $73 \%$ of men have health insurance coverage.

The NHIS covers almost all women (more than $99 \%$ ) and men ( $99 \%$ ) with health insurance. This represents a significant increase over time among both women ( $40 \%$ in 2008 and $62 \%$ in 2014) and men ( $30 \%$ in 2008 and $49 \%$ in 2014) (Figure 14.1). Other types of health insurance, such as private health insurance, cover less than $1 \%$ of women and $2 \%$ of men.

Figure 14.1 Trends in NHIS coverage
Percentage of women and men with health insurance currently covered under NHIS


| 2008 | 2014 | 2022 |
| :---: | :---: | :---: |
| GDHS | GDHS | GDHS |

Four percent of women and $5 \%$ of men do not have health insurance but have registered with the NHIS (Tables 14.1.1 and 14.1.2). This indicates that their NHIS membership was invalid at the time of the interview. Individuals in this category are generally referred to as previously enrolled, and they represent an important indicator for the NHIS in that their reasons for leaving can be used to build targeted reenrolment interventions into the scheme in order to boost membership coverage. The two main reasons reported for dropping out of the NHIS were nonrenewal of lost or damaged NHIS cards ( $26 \%$ of women and $22 \%$ of men) and inability to pay the premium ( $22 \%$ of women and $20 \%$ of men) (Table 14.2 and Figure 14.2). Other reasons included not needing health insurance ( $15 \%$ of women and $11 \%$ of men), the NHIS not covering all needed services ( $5 \%$ of women and $9 \%$ of men), and the perception that NHIS cardholders receive subpar services ( $5 \%$ of women and $6 \%$ of men).

Figure 14.2 Reasons for dropping NHIS coverage


Six percent of women and $21 \%$ of men do not have health insurance and are not enrolled in the NHIS
(Tables 14.1.1 and 14.1.2). This is a considerable decline from the corresponding percentages in 2014 ( $38 \%$ and $51 \%$ ).

### 14.2 Possession of a Valid NHIS Card

Respondents who reported that they were covered by the NHIS were also asked whether they held a valid membership card and, if so, whether they could show it to the interviewer. Possession of a valid NHIS card enables the insured client to access health care services.

Tables 14.3.1 and 14.3.2 present information on possession of a valid NHIS card and whether or not the interviewer saw the card. Seventy-three percent of women and $61 \%$ of men who said they were covered by the NHIS possessed a valid card (seen or unseen by the interviewer). However, at the time of the interview, $16 \%$ of women and $23 \%$ of men were unable to show their NHIS cards.

Twenty-seven percent of women and $39 \%$ of men with NHIS coverage did not have a valid card.

### 14.3 Access to and Use of Health Services

Health care utilisation
Use of health care services.
Sample: Women and men age 15-49
Out-of-pocket payments
Among those with health insurance coverage, out-of-pocket (OOP) payments are payments made with people's own money for either services already covered by their insurance or services not covered under their insurance. These payments are not reimbursable.
Sample: Women and men age 15-49

### 14.3.1 Health Care Service Utilisation

Tables 14.4.1 and 14.4.2 reveal that about a third of women (32\%) and a fifth of men (20\%) saw a health care practitioner in the last 6 months. However, among all women and men, $24 \%$ and $9 \%$ respectively saw a health care practitioner and had an NHIS card.

### 14.3.2 Out-of-pocket Payments

Tables 14.4.1a and $\mathbf{1 4 . 4 . 2}$ a show that both men and women made out-of-pocket payments for all of the services provided in health facilities. The majority of men (64\%) and women (53\%) paid in full for their diagnostic services.

The majority of women also paid in full for surgery (53\%) and other services (56\%). Most men paid in full for medicines ( $54 \%$ ) and consultations ( $58 \%$ ) in addition to diagnosis.

## List of Tables

For more information on health insurance coverage, see the following tables:

- Table 14.1.1 Health insurance coverage: Women
- Table 14.1.2 Health insurance coverage: Men
- Table 14.2 Reasons for dropping NHIS coverage
- Table 14.3.1 National Health Insurance Scheme: Women
- Table 14.3.2 National Health Insurance Scheme: Men
- Table 14.4.1 Access to and utilization of health services: Women
- Table 14.4.1a Utilisation of health services and type of payment: Women
- Table 14.4.2 Access to and utilisation of health services: Men
- Table 14.4.2a Utilisation of health services and type of payment: Men

Table 14.1.1 Health insurance coverage: Women
Percent distribution of women age 15-49 who have health insurance coverage and are registered with the National Health Insurance Scheme (NHIS), and among women with health insurance coverage, percentage covered by specific types of insurance, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution by health insurance coverage |  |  |  |  | Among women with health insurance coverage, type of coverage |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Covered by insurance | Not covered by insurance but have ever been registered with NHIS | Not covered by insurance and have never been registered with NHIS | Total | Number of women | National/ district health insurance (NHIS) | Mutual health organisation/ communitybased health insurance | Private/commercially purchased | Number of women |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 85.9 | 3.9 | 10.2 | 100.0 | 2,682 | 100.0 | 0.1 | 0.1 | 2,303 |
| 20-24 | 90.6 | 3.6 | 5.8 | 100.0 | 2,695 | 100.0 | 0.0 | 0.2 | 2,442 |
| 25-29 | 91.8 | 4.0 | 4.2 | 100.0 | 2,340 | 99.4 | 0.6 | 0.4 | 2,147 |
| 30-34 | 92.3 | 4.0 | 3.7 | 100.0 | 2,252 | 99.6 | 0.4 | 0.8 | 2,078 |
| 35-39 | 92.1 | 3.4 | 4.4 | 100.0 | 2,059 | 99.1 | 0.2 | 0.6 | 1,897 |
| 40-44 | 91.1 | 3.9 | 5.0 | 100.0 | 1,675 | 99.3 | 0.3 | 0.4 | 1,527 |
| 45-49 | 86.8 | 4.9 | 8.3 | 100.0 | 1,312 | 99.7 | 0.2 | 0.5 | 1,139 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 90.8 | 3.9 | 5.2 | 100.0 | 8,557 | 99.4 | 0.4 | 0.6 | 7,772 |
| Rural | 89.2 | 3.8 | 6.9 | 100.0 | 6,457 | 99.9 | 0.1 | 0.2 | 5,761 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 88.4 | 2.8 | 8.9 | 100.0 | 955 | 99.8 | 0.4 | 0.3 | 844 |
| Central | 83.5 | 7.8 | 8.7 | 100.0 | 1,703 | 99.8 | 0.1 | 0.3 | 1,422 |
| Greater Accra | 86.6 | 5.5 | 7.9 | 100.0 | 2,327 | 98.5 | 0.7 | 0.3 | 2,014 |
| Volta | 93.2 | 2.8 | 4.0 | 100.0 | 713 | 100.0 | 0.6 | 0.3 | 664 |
| Eastern | 93.3 | 2.0 | 4.7 | 100.0 | 1,220 | 99.8 | 0.5 | 0.6 | 1,138 |
| Ashanti | 92.5 | 3.2 | 4.2 | 100.0 | 2,928 | 99.8 | 0.1 | 0.8 | 2,709 |
| Western North | 91.3 | 3.0 | 5.7 | 100.0 | 411 | 99.9 | 0.0 | 0.6 | 375 |
| Ahafo | 95.3 | 2.4 | 2.2 | 100.0 | 317 | 99.5 | 0.0 | 0.7 | 302 |
| Bono | 98.5 | 0.1 | 1.3 | 100.0 | 567 | 100.0 | 0.0 | 0.9 | 559 |
| Bono East | 93.2 | 3.9 | 2.9 | 100.0 | 676 | 100.0 | 0.3 | 0.0 | 630 |
| Oti | 84.1 | 6.2 | 9.7 | 100.0 | 403 | 100.0 | 0.0 | 0.1 | 339 |
| Northern | 87.3 | 2.0 | 10.7 | 100.0 | 1,149 | 99.2 | 0.2 | 0.3 | 1,003 |
| Savannah | 85.8 | 6.5 | 7.7 | 100.0 | 319 | 100.0 | 0.0 | 0.0 | 274 |
| North East | 92.7 | 3.8 | 3.4 | 100.0 | 290 | 100.0 | 0.0 | 0.0 | 269 |
| Upper East | 96.8 | 2.3 | 0.9 | 100.0 | 640 | 100.0 | 0.0 | 0.1 | 619 |
| Upper West | 93.3 | 4.3 | 2.4 | 100.0 | 398 | 99.9 | 0.1 | 0.4 | 372 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 87.2 | 3.8 | 9.1 | 100.0 | 2,447 | 99.9 | 0.0 | 0.1 | 2,133 |
| Second | 89.1 | 4.2 | 6.6 | 100.0 | 2,712 | 100.0 | 0.0 | 0.0 | 2,418 |
| Middle | 89.6 | 4.2 | 6.2 | 100.0 | 3,121 | 99.7 | 0.0 | 0.1 | 2,795 |
| Fourth | 90.6 | 4.2 | 5.2 | 100.0 | 3,379 | 99.7 | 0.2 | 0.4 | 3,062 |
| Highest | 93.1 | 3.1 | 3.8 | 100.0 | 3,355 | 98.9 | 0.9 | 1.4 | 3,124 |
| Total | 90.1 | 3.9 | 6.0 | 100.0 | 15,014 | 99.6 | 0.3 | 0.4 | 13,532 |

Table 14.1.2 Health insurance coverage: Men
Percent distribution of men age 15-49 who have health insurance coverage and are registered with the National Health Insurance Scheme (NHIS), and among men with health insurance coverage, percentage covered by specific types of insurance, according to background characteristics, Ghana DHS 2022

|  | Percent distribution by health insurance coverage |  |  |  |  | Among men with health insurance coverage, type of coverage |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Covered by insurance | Not covered by insurance but have ever been registered with NHIS | Not covered by insurance and had never been registered with NHIS | Total | Number of men | National/ district health insurance (NHIS) | Mutual health organisation/ communitybased health insurance | Private/ commercially purchased | Number of men |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 84.5 | 3.0 | 12.5 | 100.0 | 1,424 | 100.0 | 0.0 | 0.2 | 1,204 |
| 20-24 | 79.5 | 8.3 | 12.2 | 100.0 | 1,033 | 99.7 | 0.2 | 0.3 | 821 |
| 25-29 | 67.7 | 7.2 | 25.1 | 100.0 | 888 | 99.5 | 0.2 | 1.7 | 601 |
| 30-34 | 67.5 | 7.5 | 25.0 | 100.0 | 853 | 98.7 | 0.5 | 1.3 | 575 |
| 35-39 | 67.0 | 4.6 | 28.4 | 100.0 | 809 | 95.3 | 0.1 | 3.0 | 542 |
| 40-44 | 62.6 | 6.0 | 31.4 | 100.0 | 713 | 98.4 | 0.6 | 2.9 | 447 |
| 45-49 | 74.7 | 3.1 | 22.2 | 100.0 | 557 | 98.5 | 0.0 | 1.5 | 416 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 77.2 | 5.0 | 17.9 | 100.0 | 3,442 | 98.3 | 0.1 | 2.0 | 2,656 |
| Rural | 68.8 | 6.4 | 24.8 | 100.0 | 2,835 | 99.8 | 0.3 | 0.3 | 1,950 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 75.2 | 1.9 | 22.9 | 100.0 | 414 | 99.9 | 0.0 | 0.4 | 312 |
| Central | 59.8 | 8.6 | 31.6 | 100.0 | 686 | 99.6 | 0.0 | 0.8 | 410 |
| Greater Accra | 67.8 | 4.6 | 27.6 | 100.0 | 1,076 | 95.9 | 0.3 | 5.4 | 730 |
| Volta | 80.1 | 3.4 | 16.4 | 100.0 | 235 | 100.0 | 0.0 | 0.0 | 188 |
| Eastern | 75.2 | 2.5 | 22.2 | 100.0 | 466 | 99.7 | 0.0 | 0.8 | 350 |
| Ashanti | 77.8 | 3.9 | 18.3 | 100.0 | 1,179 | 98.9 | 0.0 | 0.6 | 918 |
| Western North | 82.1 | 4.7 | 13.2 | 100.0 | 181 | 100.0 | 0.7 | 0.5 | 149 |
| Ahafo | 78.8 | 3.8 | 17.4 | 100.0 | 133 | 99.4 | 0.3 | 1.6 | 105 |
| Bono | 77.5 | 10.0 | 12.6 | 100.0 | 222 | 98.0 | 1.2 | 1.0 | 172 |
| Bono East | 81.8 | 3.1 | 15.0 | 100.0 | 316 | 99.7 | 0.0 | 0.3 | 259 |
| Oti | 64.0 | 2.7 | 33.3 | 100.0 | 187 | 100.0 | 0.0 | 0.0 | 120 |
| Northern | 71.1 | 12.3 | 16.6 | 100.0 | 484 | 99.8 | 0.4 | 0.2 | 344 |
| Savannah | 67.2 | 6.9 | 25.9 | 100.0 | 155 | 100.0 | 0.5 | 0.0 | 104 |
| North East | 87.7 | 1.9 | 10.4 | 100.0 | 119 | 100.0 | 0.0 | 0.0 | 104 |
| Upper East | 86.1 | 7.0 | 7.0 | 100.0 | 267 | 99.6 | 1.0 | 0.0 | 230 |
| Upper West | 71.5 | 19.5 | 8.9 | 100.0 | 155 | 99.7 | 0.0 | 0.3 | 111 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 64.9 | 8.7 | 26.4 | 100.0 | 1,089 | 99.9 | 0.4 | 0.0 | 707 |
| Second | 71.4 | 5.1 | 23.5 | 100.0 | 1,133 | 99.9 | 0.1 | 0.0 | 809 |
| Middle | 73.8 | 6.1 | 20.1 | 100.0 | 1,137 | 99.6 | 0.2 | 0.8 | 839 |
| Fourth | 74.2 | 5.3 | 20.5 | 100.0 | 1,466 | 99.5 | 0.1 | 0.4 | 1,087 |
| Highest | 80.1 | 3.7 | 16.2 | 100.0 | 1,453 | 96.5 | 0.3 | 4.1 | 1,164 |
| Total | 73.4 | 5.3 | 21.3 | 100.0 | 7,044 | 98.9 | 0.3 | 1.3 | 5,169 |


| Percentage of women age 15-49 and men age 15-59 who dropped NHIS coverage for various reasons |  |  |
| :---: | :---: | :---: |
| Reason | Percentage of women | Percentage of men |
| Cannot afford premium | 22.4 | 19.7 |
| Do not trust the NHIS | 5.9 | 9.0 |
| Don't need health insurance | 14.9 | 10.8 |
| NHIS does not cover health services I need | 5.1 | 9.3 |
| Don't understand scheme | 1.1 | 2.8 |
| Don't know where to register | 4.4 | 4.7 |
| No easy access to a health facility | 3.0 | 5.4 |
| Do not like attitude of staff in a health facility | 4.2 | 2.5 |
| Those with insurance are given substandard services | 4.9 | 5.7 |
| Don't get sick | 3.0 | 4.6 |
| Have no time to go | 1.7 | 5.7 |
| Card not renewed/missing or lost/ burnt or broken | 26.4 | 21.6 |
| Other | 10.3 | 11.6 |
| Number | 612 | 395 |

Table 14.3.1 National Health Insurance Scheme: Women
Percent distribution of women age 15-49 who have a valid National Health Insurance Scheme (NHIS) card, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution by valid NHIS card |  |  |  | Number of women covered by NHIS |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No card | Card seen | Card not seen | Total |  |
| Age |  |  |  |  |  |
| 15-19 | 29.2 | 53.1 | 17.7 | 100.0 | 2,302 |
| 20-24 | 27.8 | 54.5 | 17.7 | 100.0 | 2,442 |
| 25-29 | 24.3 | 58.7 | 17.0 | 100.0 | 2,133 |
| 30-34 | 23.5 | 61.8 | 14.6 | 100.0 | 2,070 |
| 35-39 | 28.6 | 57.0 | 14.4 | 100.0 | 1,880 |
| 40-44 | 28.8 | 57.3 | 13.9 | 100.0 | 1,515 |
| 45-49 | 30.7 | 53.9 | 15.4 | 100.0 | 1,136 |
| Residence |  |  |  |  |  |
| Urban | 26.4 | 56.2 | 17.4 | 100.0 | 7,724 |
| Rural | 28.5 | 57.3 | 14.2 | 100.0 | 5,753 |
| Region |  |  |  |  |  |
| Western | 30.9 | 53.0 | 16.1 | 100.0 | 842 |
| Central | 35.7 | 39.2 | 25.2 | 100.0 | 1,419 |
| Greater Accra | 27.0 | 58.9 | 14.1 | 100.0 | 1,983 |
| Volta | 25.9 | 66.8 | 7.3 | 100.0 | 664 |
| Eastern | 11.6 | 77.4 | 11.1 | 100.0 | 1,136 |
| Ashanti | 32.6 | 49.4 | 18.0 | 100.0 | 2,703 |
| Western North | 22.9 | 56.9 | 20.3 | 100.0 | 374 |
| Ahafo | 25.6 | 52.6 | 21.8 | 100.0 | 301 |
| Bono | 25.2 | 63.9 | 10.9 | 100.0 | 559 |
| Bono East | 23.5 | 51.3 | 25.2 | 100.0 | 630 |
| Oti | 28.7 | 61.3 | 10.0 | 100.0 | 339 |
| Northern | 25.3 | 58.8 | 15.8 | 100.0 | 995 |
| Savannah | 35.1 | 53.0 | 11.8 | 100.0 | 274 |
| North East | 23.2 | 63.0 | 13.7 | 100.0 | 269 |
| Upper East | 23.2 | 68.8 | 8.0 | 100.0 | 619 |
| Upper West | 24.3 | 60.2 | 15.5 | 100.0 | 371 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 33.5 | 53.6 | 12.9 | 100.0 | 2,132 |
| Second | 29.2 | 55.9 | 14.9 | 100.0 | 2,417 |
| Middle | 28.6 | 56.1 | 15.3 | 100.0 | 2,788 |
| Fourth | 26.3 | 54.3 | 19.4 | 100.0 | 3,052 |
| Highest | 21.4 | 62.2 | 16.4 | 100.0 | 3,090 |
| Total | 27.3 | 56.7 | 16.0 | 100.0 | 13,478 |

Table 14.3.2 National Health Insurance Scheme: Men
Percent distribution of men age 15-49 who have a valid National Health Insurance Scheme (NHIS) card, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution by valid NHIS card |  |  |  | Number of men covered by NHIS |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No card | Card seen | Card not seen | Total |  |
| Age |  |  |  |  |  |
| 15-19 | 40.0 | 36.1 | 23.8 | 100.0 | 1,204 |
| 20-24 | 43.4 | 32.9 | 23.6 | 100.0 | 819 |
| 25-29 | 40.5 | 39.3 | 20.2 | 100.0 | 598 |
| 30-34 | 36.2 | 42.2 | 21.6 | 100.0 | 568 |
| 35-39 | 36.4 | 41.6 | 22.0 | 100.0 | 516 |
| 40-44 | 39.7 | 37.3 | 23.0 | 100.0 | 440 |
| 45-49 | 39.3 | 39.7 | 21.0 | 100.0 | 410 |
| Residence |  |  |  |  |  |
| Urban | 35.7 | 38.6 | 25.7 | 100.0 | 2,609 |
| Rural | 45.1 | 36.7 | 18.2 | 100.0 | 1,945 |
| Region |  |  |  |  |  |
| Western | 61.8 | 19.9 | 18.4 | 100.0 | 311 |
| Central | 19.4 | 49.5 | 31.1 | 100.0 | 409 |
| Greater Accra | 25.7 | 37.6 | 36.7 | 100.0 | 700 |
| Volta | 24.4 | 62.6 | 13.0 | 100.0 | 188 |
| Eastern | 45.0 | 24.7 | 30.3 | 100.0 | 349 |
| Ashanti | 55.9 | 28.0 | 16.1 | 100.0 | 907 |
| Western North | 35.2 | 40.8 | 24.0 | 100.0 | 149 |
| Ahafo | 46.2 | 29.6 | 24.2 | 100.0 | 104 |
| Bono | 30.0 | 47.0 | 23.0 | 100.0 | 168 |
| Bono East | 39.7 | 48.4 | 11.8 | 100.0 | 258 |
| Oti | 56.6 | 33.7 | 9.7 | 100.0 | 120 |
| Northern | 43.0 | 40.0 | 17.0 | 100.0 | 343 |
| Savannah | 39.7 | 32.5 | 27.7 | 100.0 | 104 |
| North East | 51.9 | 45.4 | 2.7 | 100.0 | 104 |
| Upper East | 25.2 | 55.3 | 19.5 | 100.0 | 229 |
| Upper West | 22.8 | 49.7 | 27.5 | 100.0 | 110 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 46.1 | 39.4 | 14.4 | 100.0 | 706 |
| Second | 49.1 | 30.2 | 20.6 | 100.0 | 808 |
| Middle | 44.0 | 37.4 | 18.5 | 100.0 | 836 |
| Fourth | 36.4 | 37.6 | 26.0 | 100.0 | 1,081 |
| Highest | 28.9 | 42.7 | 28.4 | 100.0 | 1,123 |
| Total | 39.0 | 38.1 | 22.9 | 100.0 | 5,110 |


| Table 14.4.1 Access to and utilization of health services: Women |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Background characteristic | Percentage of women who visited a health provider or health facility | Percentage of women who visited a health provider or health | Number of women | Consultation |  | Medicine |  | Diagnosis |  | Admission |  | Surgery |  | Other |  | Number of women with any insurance coverage |
|  |  | had an NHIS card |  | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 22.8 | 16.2 | 2,682 | 2.6 | 2.2 | 8.2 | 6.2 | 3.5 | 3.8 | 2.0 | 1.7 | 0.2 | 0.2 | 0.6 | 0.4 | 2,303 |
| 20-24 | 34.7 | 25.0 | 2,695 | 4.7 | 2.5 | 12.5 | 8.7 | 6.6 | 6.5 | 3.3 | 2.2 | 0.4 | 0.7 | 0.9 | 1.2 | 2,442 |
| 25-29 | 39.7 | 30.5 | 2,340 | 5.3 | 4.1 | 14.8 | 11.0 | 8.0 | 8.4 | 3.9 | 2.8 | 0.9 | 0.8 | 0.8 | 1.5 | 2,147 |
| 30-34 | 35.3 | 26.6 | 2,252 | 4.3 | 3.4 | 13.2 | 10.0 | 5.7 | 7.4 | 3.1 | 3.5 | 1.0 | 1.0 | 1.2 | 1.4 | 2,078 |
| 35-39 | 33.9 | 25.0 | 2,059 | 4.4 | 3.6 | 13.1 | 9.1 | 7.5 | 7.6 | 3.8 | 2.4 | 0.9 | 1.5 | 1.4 | 2.0 | 1,897 |
| 40-44 | 28.2 | 19.3 | 1,675 | 3.1 | 4.0 | 10.0 | 8.5 | 4.3 | 7.7 | 1.6 | 3.2 | 0.6 | 1.4 | 0.4 | 1.3 | 1,527 |
| 45-49 | 32.6 | 22.2 | 1,312 | 5.1 | 3.7 | 12.3 | 10.0 | 5.4 | 8.6 | 2.7 | 3.0 | 0.6 | 1.0 | 1.1 | 1.2 | 1,139 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 33.4 | 24.2 | 8,557 | 4.6 | 3.4 | 11.9 | 10.1 | 6.2 | 7.9 | 2.9 | 2.9 | 0.8 | 1.1 | 0.9 | 1.2 | 7,772 |
| Rural | 31.0 | 22.8 | 6,457 | 3.7 | 3.1 | 12.2 | 7.5 | 5.5 | 5.6 | 3.0 | 2.3 | 0.5 | 0.6 | 1.0 | 1.3 | 5,761 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 28.7 | 20.1 | 955 | 6.1 | 2.6 | 11.8 | 6.3 | 4.7 | 3.3 | 3.6 | 2.3 | 0.1 | 1.0 | 1.1 | 1.6 | 844 |
| Central | 33.4 | 21.9 | 1,703 | 6.4 | 3.0 | 14.4 | 7.6 | 8.3 | 9.3 | 2.6 | 2.0 | 0.6 | 0.8 | 0.0 | 1.3 | 1,422 |
| Greater Accra | 31.2 | 18.7 | 2,327 | 2.7 | 3.4 | 9.2 | 10.5 | 4.7 | 6.9 | 1.6 | 2.7 | 0.7 | 1.5 | 0.2 | 0.7 | 2,014 |
| Volta | 34.2 | 28.0 | 713 | 4.7 | 2.3 | 19.9 | 6.6 | 8.3 | 5.9 | 3.3 | 1.6 | 0.9 | 0.6 | 1.0 | 0.6 | 664 |
| Eastern | 35.4 | 30.1 | 1,220 | 6.5 | 6.8 | 14.1 | 13.1 | 10.0 | 14.8 | 4.1 | 6.1 | 0.6 | 2.5 | 3.1 | 5.0 | 1,138 |
| Ashanti | 34.4 | 24.9 | 2,928 | 5.7 | 3.9 | 13.4 | 7.8 | 8.1 | 7.4 | 4.3 | 2.9 | 0.8 | 0.3 | 1.3 | 0.9 | 2,709 |
| Western North | 36.7 | 27.8 | 411 | 5.3 | 5.1 | 13.7 | 8.8 | 5.1 | 4.6 | 2.9 | 4.2 | 0.6 | 0.6 | 0.5 | 0.4 | 375 |
| Ahafo | 34.0 | 28.0 | 317 | 1.7 | 3.0 | 12.9 | 7.7 | 3.8 | 6.8 | 3.6 | 2.8 | 0.6 | 1.1 | 0.2 | 0.1 | 302 |
| Bono | 32.5 | 27.2 | 567 | 0.9 | 0.9 | 9.7 | 8.5 | 4.9 | 4.9 | 2.9 | 1.0 | 0.5 | 0.4 | 0.8 | 0.7 | 559 |
| Bono East | 31.7 | 25.3 | 676 | 1.5 | 2.2 | 10.7 | 8.6 | 3.7 | 6.6 | 1.6 | 1.6 | 0.8 | 0.4 | 0.9 | 1.0 | 630 |
| Oti | 31.2 | 25.8 | 403 | 7.0 | 3.7 | 16.6 | 7.3 | 7.7 | 7.5 | 5.3 | 2.3 | 2.1 | 0.5 | 1.9 | 0.1 | 339 |
| Northern | 25.2 | 17.2 | 1,149 | 1.6 | 2.6 | 4.6 | 9.3 | 0.8 | 4.0 | 1.5 | 2.2 | 0.5 | 1.3 | 0.4 | 0.3 | 1,003 |
| Savannah | 29.6 | 19.4 | 319 | 2.3 | 2.6 | 5.9 | 11.3 | 4.1 | 5.0 | 2.3 | 1.7 | 0.1 | 0.4 | 0.7 | 0.5 | 274 |
| North East | 31.9 | 23.9 | 290 | 2.6 | 2.5 | 12.7 | 7.3 | 2.8 | 2.6 | 1.9 | 2.8 | 0.3 | 0.1 | 0.5 | 0.7 | 269 |
| Upper East | 39.0 | 31.9 | 640 | 3.0 | 1.2 | 16.2 | 10.6 | 3.2 | 2.4 | 3.3 | 1.2 | 0.6 | 0.1 | 0.9 | 2.1 | 619 |
| Upper West | 26.3 | 21.6 | 398 | 0.2 | 1.0 | 4.9 | 12.2 | 1.8 | 6.2 | 0.9 | 1.8 | 0.4 | 0.8 | 0.1 | 1.1 | 372 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 26.8 | 19.1 | 2,447 | 2.6 | 1.8 | 9.2 | 6.2 | 3.0 | 3.4 | 2.1 | 1.6 | 0.2 | 0.4 | 1.0 | 0.7 | 2,133 |
| Second | 27.1 | 20.6 | 2,712 | 3.1 | 2.8 | 10.1 | 6.8 | 4.2 | 5.1 | 2.9 | 2.8 | 0.8 | 0.8 | 1.2 | 1.3 | 2,418 |
| Middle | 29.9 | 22.9 | 3,121 | 4.8 | 2.5 | 11.8 | 8.7 | 6.1 | 6.7 | 2.4 | 2.0 | 0.5 | 0.5 | 0.7 | 1.1 | 2,795 |
| Fourth | 36.2 | 25.9 | 3,379 | 4.6 | 3.8 | 13.9 | 9.6 | 7.6 | 8.7 | 3.6 | 3.2 | 0.5 | 1.0 | 1.0 | 1.8 | 3,062 |
| Highest | 39.3 | 27.8 | 3,355 | 5.1 | 4.8 | 13.8 | 12.3 | 7.3 | 9.3 | 3.5 | 3.2 | 1.1 | 1.5 | 0.7 | 1.1 | 3,124 |
| Total | 32.4 | 23.6 | 15,014 | 4.2 | 3.3 | 12.0 | 9.0 | 5.9 | 6.9 | 3.0 | 2.6 | 0.7 | 0.9 | 0.9 | 1.2 | 13,532 |

Table 14.4.2 Access to and utilisation of health services: Men

| Among all men a and a National payments, accor | 5-49, percen Insurance S to background | tage who visi cheme (NHIS) d characteris | ed a health ) card, and ics, Ghana | vider or h mong men HS 2022 | alth facility d ge 15-49 w | ing the 6 m any health | nths prior to insurance co | e interview rage, perc | and percenta ntage who las | who vis used he | $d$ a health $p$ th insurance | vider or he access dif | lth facility du ferent servic | ng the 6 mo who made | ths prior to full paymen | he interview or had co- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage of men who visited a health | Percent of men who visited a health provider or health |  | Cons | Itation |  | cine |  | nosis | Adm | sion |  | gery |  |  |  |
| Background characteristic | health facility | had an NHIS card | Number of men | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Co-paid | Paid in full | Number of men |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 17.4 | 9.2 | 1,424 | 1.7 | 2.2 | 3.9 | 5.3 | 1.2 | 2.4 | 0.5 | 1.6 | 0.0 | 0.0 | 0.5 | 0.4 | 1,204 |
| 20-24 | 20.2 | 9.3 | 1,033 | 3.0 | 2.1 | 4.4 | 5.1 | 1.2 | 3.9 | 1.0 | 1.5 | 0.1 | 0.2 | 0.7 | 0.6 | 821 |
| 25-29 | 21.9 | 7.1 | 888 | 0.6 | 1.4 | 4.1 | 4.8 | 0.9 | 1.3 | 0.4 | 0.3 | 0.0 | 0.1 | 0.0 | 1.3 | 601 |
| 30-34 | 18.4 | 9.3 | 853 | 1.2 | 3.9 | 6.6 | 7.0 | 2.4 | 2.9 | 0.3 | 1.6 | 0.2 | 0.7 | 0.2 | 0.8 | 575 |
| 35-39 | 18.3 | 5.9 | 809 | 1.0 | 1.3 | 3.2 | 5.0 | 1.2 | 1.9 | 0.3 | 0.3 | 0.0 | 0.4 | 0.5 | 1.1 | 542 |
| 40-44 | 20.5 | 8.2 | 713 | 1.4 | 0.6 | 5.6 | 5.3 | 2.8 | 2.5 | 0.9 | 0.2 | 0.6 | 0.0 | 0.4 | 0.5 | 447 |
| 45-49 | 25.6 | 13.5 | 557 | 1.2 | 4.6 | 5.9 | 9.1 | 1.4 | 5.4 | 1.3 | 2.5 | 0.1 | 0.5 | 0.4 | 2.4 | 416 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 21.0 | 9.4 | 3,442 | 1.8 | 3.0 | 4.7 | 6.5 | 1.7 | 4.0 | 0.7 | 1.6 | 0.2 | 0.3 | 0.5 | 0.8 | 2,656 |
| Rural | 18.4 | 8.0 | 2,835 | 1.2 | 1.2 | 4.5 | 4.7 | 1.2 | 1.2 | 0.5 | 0.7 | 0.0 | 0.2 | 0.3 | 0.9 | 1,950 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 15.5 | 6.6 | 414 | 0.6 | 0.7 | 2.9 | 2.3 | 0.6 | 1.3 | 0.6 | 1.2 | 0.0 | 0.0 | 0.1 | 0.0 | 312 |
| Central | 20.9 | 9.9 | 686 | 2.9 | 4.4 | 6.8 | 8.1 | 1.8 | 5.1 | 0.7 | 1.8 | 0.0 | 0.0 | 2.0 | 1.6 | 410 |
| Greater Accra | 19.2 | 5.8 | 1,076 | 2.3 | 4.7 | 3.1 | 5.7 | 1.5 | 4.0 | 0.7 | 2.2 | 0.0 | 0.6 | 0.7 | 0.7 | 730 |
| Volta | 22.4 | 13.1 | 235 | 2.1 | 1.8 | 12.1 | 2.9 | 2.5 | 1.7 | 0.7 | 1.1 | 0.0 | 0.6 | 0.0 | 0.0 | 188 |
| Eastern | 29.2 | 14.1 | 466 | 2.5 | 0.8 | 6.1 | 7.6 | 2.5 | 2.4 | 1.1 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 350 |
| Ashanti | 20.9 | 8.0 | 1,179 | 1.2 | 1.5 | 2.8 | 6.3 | 1.1 | 3.2 | 0.4 | 1.3 | 0.3 | 0.0 | 0.0 | 0.6 | 918 |
| Westerm North | 16.4 | 8.3 | 181 | 0.9 | 1.7 | 5.6 | 5.6 | 1.7 | 3.2 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 149 |
| Ahafo | 20.2 | 9.6 | 133 | 0.7 | 1.7 | 4.6 | 7.5 | 3.2 | 5.4 | 1.1 | 0.3 | 0.0 | 0.0 | 0.3 | 1.6 | 105 |
| Bono | 19.2 | 12.1 | 222 | 0.5 | 1.7 | 6.3 | 5.3 | 0.9 | 2.8 | 0.0 | 0.8 | 0.0 | 0.0 | 1.0 | 2.6 | 172 |
| Bono East | 19.6 | 13.2 | 316 | 1.4 | 2.5 | 6.7 | 6.2 | 1.5 | 2.0 | 1.1 | 1.0 | 0.0 | 1.1 | 0.7 | 0.5 | 259 |
| Oti | 17.6 | 8.1 | 187 | 4.1 | 4.1 | 6.6 | 4.5 | 2.7 | 3.0 | 1.6 | 1.1 | 0.3 | 0.4 | 0.9 | 0.9 | 120 |
| Northern | 19.1 | 6.8 | 484 | 0.0 | 0.7 | 3.0 | 5.6 | 0.6 | 0.9 | 0.3 | 0.9 | 0.2 | 0.4 | 0.3 | 1.7 | 344 |
| Savannah | 13.2 | 6.2 | 155 | 1.2 | 2.0 | 3.4 | 3.3 | 0.4 | 3.4 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 1.4 | 104 |
| North East | 12.3 | 5.5 | 119 | 0.8 | 0.3 | 3.0 | 1.5 | 0.9 | 0.6 | 0.6 | 0.3 | 0.0 | 0.3 | 0.0 | 0.0 | 104 |
| Upper East | 14.0 | 8.1 | 267 | 0.5 | 1.6 | 2.9 | 5.6 | 1.5 | 1.7 | 0.5 | 0.3 | 0.2 | 0.3 | 0.4 | 1.6 | 230 |
| Upper West | 23.8 | 14.2 | 155 | 2.6 | 2.4 | 9.0 | 8.1 | 2.4 | 0.5 | 1.3 | 0.2 | 0.4 | 0.0 | 0.2 | 2.2 | 111 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 16.3 | 6.7 | 1,089 | 1.0 | 0.9 | 4.0 | 4.3 | 0.5 | 0.7 | 0.4 | 0.4 | 0.0 | 0.2 | 0.2 | 0.9 | 707 |
| Second | 16.0 | 6.6 | 1,133 | 1.7 | 1.4 | 3.9 | 2.7 | 1.2 | 1.0 | 0.5 | 0.3 | 0.0 | 0.2 | 0.5 | 0.5 | 809 |
| Middle | 18.3 | 7.8 | 1,137 | 2.1 | 1.9 | 5.2 | 5.3 | 2.1 | 2.4 | 1.1 | 1.1 | 0.4 | 0.7 | 0.7 | 0.6 | 839 |
| Fourth | 21.4 | 9.8 | 1,466 | 1.2 | 2.2 | 4.9 | 6.6 | 1.6 | 4.3 | 0.5 | 1.7 | 0.1 | 0.2 | 0.0 | 1.2 | 1,087 |
| Highest | 25.0 | 11.9 | 1,453 | 1.7 | 4.0 | 4.8 | 8.2 | 1.7 | 4.3 | 0.7 | 1.9 | 0.0 | 0.0 | 0.8 | 0.9 | 1,164 |
| Total | 20.4 | 9.2 | 7,044 | 1.7 | 2.4 | 4.9 | 5.9 | 1.6 | 2.9 | 0.8 | 1.1 | 0.1 | 0.2 | 0.5 | 1.0 | 5,169 |

## WOMEN'S EMPOWERMENT

## Key Findings

- Women's employment and earnings: $88 \%$ of currently married women age 15-49 were employed in the 12 months preceding the survey, as compared with $99 \%$ of currently married men.
- Control over women's earnings: $67 \%$ of currently married women decide mainly on their own how their cash earnings are used, while $27 \%$ decide jointly with their husband.
- Asset ownership: 3\% of women own a house alone and $9 \%$ own a house jointly with their husband; among men, $16 \%$ own a house alone and $4 \%$ own a house jointly with their wife.
- Participation in decision making: 76\% of women make decisions on their own health care either alone or jointly with their husband. Among men, $91 \%$ make decisions regarding their health care either alone or jointly with their wife.
- Negotiating sexual relations: 72\% of currently married women can say no to their husband if they do not want to have sexual relations, and $70 \%$ can ask their husband to use a condom.

TThis chapter explores women's empowerment in terms of employment, earnings, control over earnings, and magnitude of earnings relative to those of their partners. The chapter also examines women's and men's ownership of assets including houses, land, and mobile phones as well as their use of bank accounts and mobile-money-service providers. In addition, responses to specific questions are used to define three different indicators of women's empowerment: women's participation in household decision making, women's attitudes towards wife beating, and women's participation in decision making regarding sexual and reproductive health.

### 15.1 Married Women’s and Men’s Employment

## Employment

Respondents are considered to be employed if they have done any work other than their housework in the 12 months before the survey.
Sample: Currently married women and men age 15-49

## Earning cash for employment

Respondents are asked if they are paid for their labour in cash or in-kind. Only those who receive payment in cash only or in cash and in-kind are considered to earn cash for their employment.
Sample: Currently married women and men age 15-49 employed in the 12 months before the survey

Eighty-eight percent of currently married women age 15-49 were employed in the 12 months before the survey, as compared with $99 \%$ of currently married men. Among employed respondents, only $58 \%$ of women and $78 \%$ of men received earnings in cash. Fourteen percent of employed women and $5 \%$ of employed men were not paid either in cash or in-kind (Table 15.1).

### 15.2 Control over Women’s Earnings

## Control over one's own cash earnings

Respondents are considered to have control over their own earnings if they participate in decisions alone or jointly with their spouse about how their own earnings will be used.
Sample: Currently married women and men age 15-49 who received cash earnings for employment during the 12 months before the survey

Overall, $67 \%$ of currently married women age 15-49 decide mainly on their own how their cash earnings are used, while $27 \%$ decide jointly with their husband (Figure 15.1). Only 6\% reported that their husband mainly decides how their earnings are used. Ten percent of currently married women earn more than their husband, while $8 \%$ earn about the same as their husband and 79\% earn less (Table 15.2.1)

Figure 15.1 Control over women's earnings

Percent distribution of currently married women with cash earnings in the 12 months before the survey


Trends: The percentage of currently married women age 15-49 who decide mainly on their own how their cash earnings are used declined from $69 \%$ in 2003 to $58 \%$ in 2008 before increasing to $67 \%$ in 2022. The percentage of women who decide jointly with their husband how their earnings are used decreased from $36 \%$ in 2008 and $32 \%$ in 2014 to $27 \%$ in 2022
(Figure 15.2). The percentage of women who earn less than their husband increased from $74 \%$ in 2008 to $79 \%$ in 2022.

Figure 15.2 Trends in control over earnings
Percent distribution of employed women who earn cash by who decides how wife's cash earnings are used


### 15.3 Control over Men’s Earnings

Forty-five percent of currently married men aged 1549 decide jointly with their wife how their cash earnings are used, while 51\% decide alone (Figure 15.3).

Sixty-one percent of currently married women reported that their husband makes decisions alone on how his cash earnings are used, and $11 \%$ reported that they are the main decision maker about how their husband's cash earnings are used (Table 15.2.2).

### 15.4 Women's and Men's Ownership of Assets

Figure 15.3 Control over men's earnings
Percent distribution of currently married men with cash earnings in the 12 months before the survey


Ownership and control over assets such as land and housing provide direct and indirect benefits to individuals and households, including a secure place to live, the means of a livelihood, protection during emergencies, and collateral for credit that can be used for investment or consumption (Doss et al. 2008). The 2022 GDHS collected information on women's and men's ownership of two high-value assets: land and a house.

### 15.4.1 Ownership of a House or Land and Documentation of Ownership

## Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with their spouse, someone else, or both their spouse and someone else.
Documentation of ownership of a house or land
Respondents whose name is on the title/deed or other government-recognised document.
Sample: Women and men age 15-49

Overall, $3 \%$ of women own a house alone and $9 \%$ own a house jointly with their husband only. Among men, $16 \%$ own a house alone and $4 \%$ own a house jointly with their wife only. Five percent of women own land alone, while $6 \%$ own land jointly with their husband only. Among men, $18 \%$ own land alone and $3 \%$ own land jointly with their wife only. The percentages of respondents who do not own a house or land are higher among women than men (Table 15.3.1 and Table 15.3.2).

Among respondents who own a house, $30 \%$ of women and $41 \%$ of men have their name on the title/deed or other government-recognised document, while $49 \%$ of women and $54 \%$ of men do not have a title/deed (Table 15.4.1 and Table 15.4.2).

Overall, $32 \%$ of women who own land have their name on the title/deed, while $7 \%$ do not have their name on the title/deed and $59 \%$ do not have a title/deed.

Among men who own land, $35 \%$ have their name on the title/deed, $4 \%$ do not have their name on the title/deed, and $60 \%$ do not have a title/deed (Table 15.5.1 and Table 15.5.2).

### 15.4.2 Ownership and Use of Mobile Phones and Bank Accounts

## Use of bank accounts or mobile-money-service providers

Respondents who have and use a bank account or who used a mobile phone for financial transactions in the 12 months before the survey.
Sample: Women and men age 15-49

Eighty percent of women and $88 \%$ of men age 15-49 own a mobile phone, and $44 \%$ and $60 \%$, respectively, own a smartphone. Seventy percent of women and 78\% of men used a mobile phone for financial transactions in the last 12 months. Overall, $73 \%$ of women and $79 \%$ of men used a bank account or a mobile phone for financial transactions in the last 12 months (Table 15.6.1, Table 15.6.2, and Figure 15.4).

As with house and land ownership, use of bank accounts and ownership of mobile phones and smartphones are more common among men than women.

### 15.5 Participation in Decision Making

## Participation in major household decisions

Women are considered to participate in household decisions if they make decisions alone or jointly with their husband in all three of the following areas: (1) their own health care, (2) major household purchases, and (3) visits to their family or relatives.
Sample: Currently married women age 15-49
Men are considered to participate in household decisions if they make decisions alone or jointly with their wife in both of the following areas: (1) their own health care and (2) major household purchases.
Sample: Currently married men age 15-49

Seventy-six percent of women participate in making decisions on their own health care either alone or jointly with their husband. Among men, $91 \%$ make decisions on their health care either alone or jointly with their wife. Only $8 \%$ of women mainly make decisions on their husband's health care, while $24 \%$ of men mainly decide on their wife's health care (Table 15.7).

Fifty-six percent of currently married women report taking part in all three decisions, while $12 \%$ do not participate in any of the decisions. Among men, $84 \%$ participate in both of the specified decisions, and 5\% do not participate in either decision. Men ( $88 \%$ ) are more likely to make major household purchases than women (68\%) (Table 15.8.1, Table 15.8.2, and Figure 15.5).

Figure 15.5 Women's participation in decision making

Percentage of currently married women age 15-49 participating in specific decisions


### 15.6 Attitudes toward Wife Beating

## Attitudes toward wife beating

Respondents are asked if they agree that a husband is justified in hitting or beating his wife under each of the following five circumstances: she burns the food, she argues with him, she goes out without telling him, she neglects the children, and she refuses to have sex with him. If respondents answer "yes" in at least one circumstance, they are considered to have attitudes justifying wife beating

Sample: Women and men age 15-49

Nineteen percent of women and $16 \%$ of men agree with at least one of the specified reasons that a husband is justified in hitting or beating his wife. Significantly, 13\% of women and $10 \%$ of men reported that a husband is justified in hitting or beating his wife if she neglects the children, indicating that issues of child neglect are of great concern to both men and women (Table 15.9.1, Table 15.9.2, and Figure 15.6).

Trends: The percentage of women who agree with at least one reason justifying wife beating has declined steadily over time, from $49 \%$ in 2003 to $19 \%$ in 2022. Among men, the percentage declined from $33 \%$ in 2003 to $13 \%$ in 2014 before increasing slightly to $16 \%$ in 2022 (data not shown).

### 15.7 Negotiating Sexual Relations

To assess attitudes toward negotiating safer sexual relations with husbands, women and men were asked whether they thought that a wife is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women and asking that he use a condom if she knows he has a sexually transmitted infection (STI).

Seventy-one percent of women and men believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women, and $85 \%$ of women and $87 \%$ of men believe that a woman is justified in asking her husband to use a condom if she knows that he has an STI (Table 15.10).

To assess the ability of women to actually negotiate safer sexual relations with their husband, women were asked whether they could say no to their husband if they do not want to have sexual intercourse and whether they could ask their husband to use a condom.

Seventy-two percent of women can say no to their husband if they do not want to have sexual intercourse, and $70 \%$ can ask their husband to use a condom (Table 15.11).

### 15.8 Women's Participation in Decision Making regarding Sexual and Reproductive Health

Informed decision making on sexual relations, contraceptive use, and reproductive health
Women are considered to make their own informed decisions on sexual relations, contraceptive use, and reproductive health if (1) they can say no to their husband if they do not want to have sexual intercourse, (2) they make decisions about use of family planning alone or jointly with their husband, and (3) they make decisions about their own health care alone or jointly with their husband.
Sample: Currently married women age 15-49

Fifty-two percent of currently married women age 15-49 make their own informed decisions about sexual relations, contraceptive use, and reproductive health care (Table 15.12).

## List of Tables

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Table 15.1 Employment and cash earnings of currently married women and men
Percentage of currently married women and men age 15-49 who were employed at any time in the last 12 months and percent distribution of currently married women and men employed in the last 12 months by type of earnings, according to age, Ghana DHS 2022

| Age | Among currently married respondents: |  | Percent distribution of currently married respondents employed in the last 12 months by type of earnings |  |  |  | Total | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage employed in last 12 months | Number of respondents | Cash only | Cash and in-kind | In-kind only | Not paid |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 61.7 | 194 | 30.1 | 22.3 | 10.4 | 37.1 | 100.0 | 120 |
| 20-24 | 73.8 | 1,013 | 45.2 | 20.1 | 8.7 | 26.0 | 100.0 | 747 |
| 25-29 | 83.9 | 1,457 | 58.5 | 19.9 | 6.0 | 15.5 | 100.0 | 1,222 |
| 30-34 | 91.3 | 1,719 | 63.5 | 19.0 | 3.9 | 13.6 | 100.0 | 1,569 |
| 35-39 | 92.1 | 1,641 | 61.6 | 23.8 | 4.5 | 10.1 | 100.0 | 1,511 |
| 40-44 | 94.0 | 1,239 | 58.0 | 25.2 | 4.4 | 12.3 | 100.0 | 1,165 |
| 45-49 | 93.9 | 941 | 58.5 | 28.1 | 3.8 | 9.5 | 100.0 | 883 |
| Total 15-49 | 88.0 | 8,205 | 58.3 | 22.5 | 5.1 | 14.2 | 100.0 | 7,218 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | * | 13 | * | * | * | * | 100.0 | 12 |
| 20-24 | 97.9 | 126 | 72.5 | 17.5 | 1.5 | 8.6 | 100.0 | 124 |
| 25-29 | 99.3 | 383 | 76.8 | 16.9 | 1.8 | 4.6 | 100.0 | 380 |
| 30-34 | 99.7 | 568 | 79.3 | 13.5 | 1.3 | 5.8 | 100.0 | 566 |
| 35-39 | 99.9 | 665 | 81.2 | 14.2 | 1.2 | 3.3 | 100.0 | 665 |
| 40-44 | 99.3 | 597 | 77.2 | 17.0 | 1.3 | 4.6 | 100.0 | 593 |
| 45-49 | 99.7 | 475 | 77.9 | 16.3 | 0.7 | 5.0 | 100.0 | 474 |
| Total 15-49 | 99.5 | 2,828 | 78.3 | 15.6 | 1.3 | 4.8 | 100.0 | 2,813 |
| 50-59 | 98.8 | 658 | 72.4 | 20.7 | 1.6 | 5.3 | 100.0 | 650 |
| Total 15-59 | 99.4 | 3,485 | 77.2 | 16.6 | 1.3 | 4.9 | 100.0 | 3,464 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 15.2.1 Control over women's cash earnings and relative magnitude of women's cash earnings
Percent distribution of currently married women age 15-49 who received cash earnings for employment in the 12 months preceding the survey by person who decides how wife's cash earnings are used and by whether she earned more or less than her husband, according to background characteristics, Ghana DHS 2022

| Background characteristic | Person who decides how the wife's cash earnings are used: |  |  |  | Total | Wife's cash earnings compared with husband's cash earnings: |  |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other |  | More | Less | About the same | Husband has no earnings | Don't know |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 70.1 | 14.0 | 8.5 | 7.5 | 100.0 | 5.9 | 90.2 | 0.7 | 0.0 | 3.2 | 100.0 | 63 |
| 20-24 | 67.6 | 24.0 | 8.2 | 0.1 | 100.0 | 5.8 | 86.6 | 6.2 | 0.3 | 1.0 | 100.0 | 489 |
| 25-29 | 65.3 | 27.8 | 6.5 | 0.4 | 100.0 | 5.4 | 86.0 | 4.9 | 0.8 | 2.9 | 100.0 | 959 |
| 30-34 | 68.1 | 26.3 | 5.4 | 0.1 | 100.0 | 8.1 | 82.3 | 7.0 | 0.7 | 1.9 | 100.0 | 1,295 |
| 35-39 | 65.4 | 28.8 | 5.7 | 0.1 | 100.0 | 10.3 | 75.4 | 10.1 | 1.1 | 3.1 | 100.0 | 1,291 |
| 40-44 | 66.8 | 24.6 | 8.3 | 0.3 | 100.0 | 12.6 | 73.7 | 10.1 | 0.9 | 2.6 | 100.0 | 970 |
| 45-49 | 70.0 | 26.1 | 3.7 | 0.1 | 100.0 | 16.0 | 69.4 | 10.7 | 1.2 | 2.7 | 100.0 | 765 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 67.6 | 25.3 | 6.2 | 0.9 | 100.0 | 9.1 | 76.4 | 12.5 | 0.2 | 1.7 | 100.0 | 345 |
| 1-2 | 68.1 | 26.1 | 5.5 | 0.2 | 100.0 | 9.3 | 80.3 | 7.6 | 0.5 | 2.2 | 100.0 | 2,023 |
| 3-4 | 68.0 | 25.6 | 6.1 | 0.3 | 100.0 | 9.5 | 79.4 | 6.9 | 1.1 | 3.1 | 100.0 | 2,132 |
| $5+$ | 63.9 | 28.7 | 7.3 | 0.1 | 100.0 | 10.9 | 75.7 | 10.1 | 1.2 | 2.2 | 100.0 | 1,332 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 70.9 | 23.8 | 5.1 | 0.3 | 100.0 | 10.4 | 78.1 | 7.7 | 0.9 | 2.9 | 100.0 | 3,224 |
| Rural | 62.4 | 29.8 | 7.6 | 0.3 | 100.0 | 8.9 | 79.5 | 8.9 | 0.7 | 2.0 | 100.0 | 2,607 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 64.1 | 33.2 | 2.7 | 0.0 | 100.0 | 10.6 | 78.6 | 7.8 | 0.0 | 2.9 | 100.0 | 413 |
| Central | 71.2 | 27.5 | 1.1 | 0.3 | 100.0 | 13.4 | 80.4 | 5.0 | 0.0 | 1.2 | 100.0 | 699 |
| Greater Accra | 70.5 | 22.6 | 6.9 | 0.0 | 100.0 | 8.4 | 79.8 | 9.7 | 0.7 | 1.4 | 100.0 | 871 |
| Volta | 65.7 | 27.0 | 7.3 | 0.0 | 100.0 | 10.7 | 72.2 | 13.7 | 1.5 | 1.9 | 100.0 | 298 |
| Eastern | 61.0 | 22.1 | 16.6 | 0.2 | 100.0 | 10.3 | 80.4 | 5.1 | 0.4 | 3.7 | 100.0 | 518 |
| Ashanti | 63.2 | 32.1 | 4.4 | 0.4 | 100.0 | 11.7 | 75.2 | 10.1 | 1.3 | 1.7 | 100.0 | 1,075 |
| Western North | 71.1 | 23.3 | 5.6 | 0.0 | 100.0 | 11.3 | 80.0 | 7.0 | 0.6 | 1.0 | 100.0 | 181 |
| Ahafo | 63.3 | 21.3 | 15.3 | 0.0 | 100.0 | 6.2 | 84.5 | 6.2 | 0.6 | 2.4 | 100.0 | 110 |
| Bono | 70.1 | 27.9 | 1.9 | 0.0 | 100.0 | 7.4 | 73.7 | 11.9 | 0.3 | 6.8 | 100.0 | 174 |
| Bono East | 66.3 | 28.2 | 5.6 | 0.0 | 100.0 | 6.4 | 81.1 | 10.4 | 0.6 | 1.6 | 100.0 | 224 |
| Oti | 61.6 | 30.4 | 5.8 | 2.2 | 100.0 | 5.8 | 79.4 | 10.3 | 3.0 | 1.5 | 100.0 | 208 |
| Northern | 74.3 | 20.8 | 4.6 | 0.3 | 100.0 | 7.2 | 88.1 | 2.8 | 1.4 | 0.6 | 100.0 | 504 |
| Savannah | 75.1 | 16.8 | 7.4 | 0.7 | 100.0 | 8.1 | 77.1 | 11.8 | 0.7 | 2.2 | 100.0 | 120 |
| North East | 62.2 | 19.8 | 16.0 | 2.0 | 100.0 | 7.0 | 74.8 | 10.4 | 1.4 | 6.4 | 100.0 | 87 |
| Upper East | 63.5 | 30.2 | 6.1 | 0.2 | 100.0 | 9.0 | 72.8 | 6.0 | 1.8 | 10.4 | 100.0 | 205 |
| Upper West | 68.3 | 23.7 | 8.0 | 0.0 | 100.0 | 5.5 | 72.1 | 12.7 | 0.4 | 9.4 | 100.0 | 145 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 67.1 | 23.8 | 8.7 | 0.4 | 100.0 | 8.9 | 79.8 | 7.6 | 1.5 | 2.2 | 100.0 | 1,232 |
| Primary | 67.1 | 27.0 | 5.7 | 0.2 | 100.0 | 10.3 | 76.8 | 9.6 | 0.7 | 2.7 | 100.0 | 858 |
| Secondary | 66.9 | 26.9 | 5.9 | 0.3 | 100.0 | 9.5 | 80.3 | 7.1 | 0.6 | 2.6 | 100.0 | 3,082 |
| More than secondary | 67.8 | 28.7 | 3.5 | 0.0 | 100.0 | 11.6 | 71.9 | 13.2 | 0.8 | 2.5 | 100.0 | 660 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 62.6 | 29.1 | 7.7 | 0.5 | 100.0 | 6.2 | 81.1 | 9.0 | 0.9 | 2.8 | 100.0 | 917 |
| Second | 63.6 | 27.6 | 8.6 | 0.2 | 100.0 | 8.7 | 79.1 | 8.4 | 1.0 | 2.8 | 100.0 | 974 |
| Middle | 68.0 | 25.8 | 5.7 | 0.4 | 100.0 | 11.2 | 79.3 | 6.9 | 1.1 | 1.5 | 100.0 | 1,153 |
| Fourth | 70.8 | 24.2 | 4.8 | 0.3 | 100.0 | 11.0 | 77.4 | 7.7 | 0.8 | 3.1 | 100.0 | 1,345 |
| Highest | 68.0 | 26.7 | 5.2 | 0.0 | 100.0 | 10.3 | 77.7 | 9.1 | 0.5 | 2.3 | 100.0 | 1,443 |
| Total | 67.1 | 26.5 | 6.2 | 0.3 | 100.0 | 9.7 | 78.7 | 8.2 | 0.9 | 2.5 | 100.0 | 5,832 |

Note: The term husband includes a partner with whom a woman is living as if married.

Table 15.2.2 Control over men's cash earnings
Percent distributions of currently married men age 15-49 who receive cash earnings and of currently married women age 15-49 whose husbands receive cash earnings by person who decides how husband's cash earnings are used, according to background characteristics, Ghana DHS 2022

| Background characteristic | Men |  |  |  |  |  | Women |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other | Total | Number of men | Mainly wife | Wife and husband jointly | Mainly husband | Other | Total | Number of women |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | * | * | * | * | 100.0 | 10 | 8.4 | 21.0 | 70.5 | 0.1 | 100.0 | 190 |
| 20-24 | 2.6 | 36.4 | 61.0 | 0.0 | 100.0 | 111 | 12.2 | 24.8 | 62.5 | 0.5 | 100.0 | 1,002 |
| 25-29 | 1.9 | 46.2 | 51.2 | 0.6 | 100.0 | 356 | 11.6 | 29.9 | 58.2 | 0.3 | 100.0 | 1,441 |
| 30-34 | 3.6 | 42.1 | 54.1 | 0.3 | 100.0 | 525 | 10.6 | 28.8 | 60.5 | 0.1 | 100.0 | 1,707 |
| 35-39 | 3.2 | 45.1 | 51.7 | 0.1 | 100.0 | 635 | 10.0 | 30.6 | 59.3 | 0.1 | 100.0 | 1,624 |
| 40-44 | 4.8 | 44.1 | 51.0 | 0.1 | 100.0 | 558 | 9.5 | 27.9 | 62.4 | 0.2 | 100.0 | 1,226 |
| 45-49 | 5.9 | 50.9 | 43.2 | 0.0 | 100.0 | 447 | 11.5 | 27.6 | 60.9 | 0.0 | 100.0 | 930 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 2.5 | 43.4 | 53.6 | 0.5 | 100.0 | 236 | 14.1 | 27.3 | 58.5 | 0.1 | 100.0 | 586 |
| 1-2 | 3.1 | 40.2 | 56.2 | 0.4 | 100.0 | 970 | 10.8 | 29.3 | 59.8 | 0.2 | 100.0 | 2,995 |
| 3-4 | 3.8 | 51.9 | 44.2 | 0.1 | 100.0 | 879 | 10.3 | 28.4 | 61.1 | 0.2 | 100.0 | 2,762 |
| $5+$ | 5.9 | 42.9 | 51.1 | 0.1 | 100.0 | 557 | 10.2 | 27.4 | 62.3 | 0.1 | 100.0 | 1,778 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3.5 | 45.0 | 51.3 | 0.2 | 100.0 | 1,441 | 11.5 | 28.6 | 59.8 | 0.1 | 100.0 | 4,204 |
| Rural | 4.3 | 44.9 | 50.5 | 0.3 | 100.0 | 1,201 | 9.9 | 28.3 | 61.6 | 0.3 | 100.0 | 3,917 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 2.2 | 38.4 | 59.4 | 0.0 | 100.0 | 188 | 7.1 | 31.1 | 61.8 | 0.0 | 100.0 | 485 |
| Central | 1.3 | 62.7 | 35.9 | 0.0 | 100.0 | 251 | 7.6 | 33.0 | 59.4 | 0.0 | 100.0 | 816 |
| Greater Accra | 5.1 | 41.9 | 53.0 | 0.0 | 100.0 | 509 | 9.5 | 31.6 | 58.9 | 0.0 | 100.0 | 1,135 |
| Volta | 4.1 | 39.8 | 56.2 | 0.0 | 100.0 | 113 | 16.4 | 30.0 | 53.6 | 0.0 | 100.0 | 370 |
| Eastern | 10.9 | 37.5 | 50.6 | 0.9 | 100.0 | 189 | 4.4 | 22.5 | 72.8 | 0.3 | 100.0 | 630 |
| Ashanti | 3.9 | 58.3 | 37.8 | 0.0 | 100.0 | 435 | 14.3 | 35.9 | 49.8 | 0.0 | 100.0 | 1,408 |
| Western North | 0.0 | 44.0 | 55.5 | 0.6 | 100.0 | 81 | 21.8 | 26.2 | 51.7 | 0.2 | 100.0 | 230 |
| Ahafo | 2.1 | 61.3 | 35.4 | 1.2 | 100.0 | 67 | 18.9 | 21.9 | 59.2 | 0.0 | 100.0 | 182 |
| Bono | 1.8 | 61.7 | 36.5 | 0.0 | 100.0 | 70 | 8.1 | 32.6 | 59.1 | 0.2 | 100.0 | 279 |
| Bono East | 2.1 | 56.8 | 41.2 | 0.0 | 100.0 | 122 | 7.2 | 23.6 | 69.2 | 0.0 | 100.0 | 372 |
| Oti | 9.3 | 51.5 | 39.2 | 0.0 | 100.0 | 86 | 10.2 | 34.7 | 52.4 | 2.8 | 100.0 | 240 |
| Northern | 2.3 | 15.3 | 81.7 | 0.7 | 100.0 | 247 | 12.8 | 21.8 | 65.3 | 0.2 | 100.0 | 861 |
| Savannah | 5.7 | 18.2 | 74.2 | 1.8 | 100.0 | 56 | 6.9 | 12.3 | 80.7 | 0.1 | 100.0 | 217 |
| North East | 2.3 | 22.4 | 75.3 | 0.0 | 100.0 | 38 | 9.7 | 24.4 | 65.5 | 0.4 | 100.0 | 226 |
| Upper East | 2.8 | 40.8 | 56.4 | 0.0 | 100.0 | 130 | 10.4 | 25.0 | 64.3 | 0.3 | 100.0 | 420 |
| Upper West | 0.4 | 53.0 | 45.4 | 1.2 | 100.0 | 60 | 11.1 | 14.1 | 74.7 | 0.1 | 100.0 | 250 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 4.4 | 35.0 | 60.1 | 0.5 | 100.0 | 381 | 10.4 | 21.5 | 67.8 | 0.3 | 100.0 | 1,987 |
| Primary | 3.4 | 44.8 | 51.6 | 0.2 | 100.0 | 309 | 10.4 | 27.5 | 61.7 | 0.4 | 100.0 | 1,221 |
| Secondary | 4.2 | 47.0 | 48.6 | 0.3 | 100.0 | 1,520 | 11.7 | 31.1 | 57.1 | 0.1 | 100.0 | 4,136 |
| More than secondary | 2.7 | 46.7 | 50.5 | 0.0 | 100.0 | 433 | 7.1 | 33.2 | 59.7 | 0.0 | 100.0 | 777 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 6.0 | 39.1 | 54.4 | 0.5 | 100.0 | 442 | 9.4 | 24.4 | 65.9 | 0.3 | 100.0 | 1,638 |
| Second | 2.8 | 44.0 | 53.1 | 0.2 | 100.0 | 443 | 12.8 | 24.4 | 62.3 | 0.5 | 100.0 | 1,497 |
| Middle | 3.2 | 42.8 | 53.4 | 0.6 | 100.0 | 430 | 11.1 | 29.4 | 59.3 | 0.1 | 100.0 | 1,531 |
| Fourth | 3.6 | 49.1 | 47.1 | 0.1 | 100.0 | 674 | 12.3 | 28.9 | 58.8 | 0.0 | 100.0 | 1,723 |
| Highest | 3.9 | 46.7 | 49.4 | 0.0 | 100.0 | 653 | 8.4 | 34.3 | 57.4 | 0.0 | 100.0 | 1,732 |
| Total 15-49 | 3.9 | 45.0 | 50.9 | 0.2 | 100.0 | 2,642 | 10.7 | 28.4 | 60.7 | 0.2 | 100.0 | 8,121 |
| 50-59 | 4.4 | 50.7 | 44.9 | 0.0 | 100.0 | 606 | na | na | na | na | na | na |
| Total 15-59 | 4.0 | 46.0 | 49.8 | 0.2 | 100.0 | 3,248 | na | na | na | na | na | na |

Note: The term husband includes a partner with whom a woman is living as if married, and the term wife includes a partner with whom a man is living as if married. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable

Table 15.3.1 House and land ownership: Women
Percent distribution of women age 15-49 by house ownership status and land ownership status, according to current marital status, Ghana DHS 2022

| Ownership status | Marital status |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married/ living together | Divorced/ separated | Widowed |  |
| HOUSE OWNERSHIP |  |  |  |  |  |
| Alone | 1.3 | 3.0 | 8.6 | 16.7 | 3.2 |
| Jointly with husband only | na | 17.2 | 0.0 | 2.7 | 9.4 |
| Jointly with someone else only | 1.7 | 2.0 | 5.8 | 10.4 | 2.4 |
| Jointly with husband and someone else | na | 1.4 | 0.0 | 0.3 | 0.8 |
| Both alone and jointly | 0.2 | 0.2 | 0.3 | 0.6 | 0.2 |
| Does not own | 96.8 | 76.1 | 85.2 | 69.3 | 83.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 5,268 | 8,205 | 1,175 | 367 | 15,014 |
| LAND OWNERSHIP |  |  |  |  |  |
| Alone | 1.3 | 5.9 | 9.8 | 17.8 | 4.9 |
| Jointly with husband only | na | 10.3 | 0.0 | 1.6 | 5.7 |
| Jointly with someone else only | 1.0 | 1.7 | 3.1 | 3.2 | 1.6 |
| Jointly with husband and someone else | na | 1.0 | 0.0 | 0.2 | 0.6 |
| Both alone and jointly | 0.0 | 0.1 | 0.3 | 0.0 | 0.1 |
| Does not own | 97.6 | 81.0 | 86.9 | 77.2 | 87.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 5,268 | 8,205 | 1,175 | 367 | 15,014 |

Note: The term husband includes a partner with whom a woman is living as if married.
na $=$ not applicable

## Table 15.3.2 House and land ownership: Men

Percent distribution of men age 15-49 by house ownership status and land ownership status, according to current marital status, Ghana DHS 2022

| Ownership status | Marital status |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married/ living together | Divorced/ separated | Widowed |  |
| HOUSE OWNERSHIP |  |  |  |  |  |
| Alone | 3.9 | 28.2 | 17.8 | * | 15.5 |
| Jointly with wife only | na | 9.1 | 0.0 | * | 4.1 |
| Jointly with someone else only | 1.9 | 4.4 | 6.7 | * | 3.2 |
| Jointly with wife and someone else | na | 1.1 | 0.0 | * | 0.5 |
| Both alone and jointly | 0.1 | 0.4 | 0.4 | * | 0.2 |
| Does not own | 94.1 | 56.9 | 75.0 | * | 76.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of men | 3,208 | 2,828 | 224 | 18 | 6,277 |
| LAND OWNERSHIP |  |  |  |  |  |
| Alone | 5.8 | 31.0 | 33.1 | * | 18.2 |
| Jointly with wife only | na | 6.0 | 0.0 | * | 2.7 |
| Jointly with someone else only | 2.0 | 4.8 | 5.6 | * | 3.4 |
| Jointly with wife and someone else | na | 0.9 | 0.3 | * | 0.4 |
| Both alone and jointly | 0.2 | 0.3 | 0.2 | * | 0.2 |
| Does not own | 92.1 | 57.0 | 60.8 | * | 75.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of men | 3,208 | 2,828 | 224 | 18 | 6,277 |

Note: The term wife includes a partner with whom a man is living as if married. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable

Table 15.4.1 House ownership and documentation of ownership: Women
Percent distribution of women age 15-49 by ownership of a house, and among women who own a house, percent distribution by whether the house owned has a title/deed and whether or not the woman's name appears on the title/deed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number of women | House has a title/deed ${ }^{1}$ : |  | Does not have a title/deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of women who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Woman's name is on title/deed ${ }^{1}$ | Woman's name is not on title/deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.7 | 1.5 | 0.1 | 97.7 | 100.0 | 2,682 | 13.0 | 26.1 | 46.8 | 14.1 | 100.0 | 63 |
| 20-24 | 0.9 | 4.1 | 0.1 | 94.9 | 100.0 | 2,695 | 10.2 | 18.1 | 67.6 | 4.1 | 100.0 | 138 |
| 25-29 | 1.4 | 9.2 | 0.2 | 89.3 | 100.0 | 2,340 | 19.5 | 16.0 | 57.1 | 7.4 | 100.0 | 251 |
| 30-34 | 2.7 | 14.6 | 0.3 | 82.4 | 100.0 | 2,252 | 23.6 | 21.7 | 51.2 | 3.5 | 100.0 | 395 |
| 35-39 | 3.8 | 21.2 | 0.2 | 74.8 | 100.0 | 2,059 | 33.1 | 16.7 | 48.4 | 1.8 | 100.0 | 520 |
| 40-44 | 6.2 | 26.0 | 0.6 | 67.2 | 100.0 | 1,675 | 31.8 | 19.4 | 44.8 | 4.0 | 100.0 | 549 |
| 45-49 | 12.3 | 25.3 | 0.3 | 62.1 | 100.0 | 1,312 | 42.2 | 12.0 | 44.1 | 1.7 | 100.0 | 497 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3.1 | 10.5 | 0.3 | 86.1 | 100.0 | 8,557 | 40.2 | 24.9 | 31.3 | 3.5 | 100.0 | 1,187 |
| Rural | 3.3 | 15.5 | 0.2 | 81.0 | 100.0 | 6,457 | 19.9 | 10.1 | 66.3 | 3.7 | 100.0 | 1,226 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 3.9 | 14.3 | 0.5 | 81.3 | 100.0 | 955 | 28.7 | 8.0 | 63.3 | 0.0 | 100.0 | 179 |
| Central | 4.0 | 15.1 | 0.0 | 80.9 | 100.0 | 1,703 | 35.2 | 16.4 | 48.4 | 0.0 | 100.0 | 325 |
| Greater Accra | 2.7 | 7.9 | 0.4 | 88.9 | 100.0 | 2,327 | 45.3 | 23.2 | 31.2 | 0.2 | 100.0 | 258 |
| Volta | 3.6 | 9.7 | 0.2 | 86.5 | 100.0 | 713 | 32.7 | 10.1 | 55.8 | 1.5 | 100.0 | 96 |
| Eastern | 3.2 | 11.4 | 0.4 | 84.9 | 100.0 | 1,220 | 42.3 | 17.7 | 37.6 | 2.3 | 100.0 | 184 |
| Ashanti | 4.1 | 14.5 | 0.1 | 81.2 | 100.0 | 2,928 | 35.5 | 31.0 | 27.9 | 5.5 | 100.0 | 550 |
| Western North | 4.4 | 17.0 | 0.0 | 78.7 | 100.0 | 411 | 22.5 | 6.1 | 67.9 | 3.5 | 100.0 | 88 |
| Ahafo | 2.8 | 15.2 | 0.4 | 81.6 | 100.0 | 317 | 39.2 | 14.4 | 41.4 | 4.9 | 100.0 | 58 |
| Bono | 3.0 | 10.9 | 0.1 | 85.9 | 100.0 | 567 | 46.8 | 10.6 | 38.7 | 4.0 | 100.0 | 80 |
| Bono East | 2.4 | 8.3 | 0.3 | 88.9 | 100.0 | 676 | 17.9 | 13.4 | 65.7 | 3.0 | 100.0 | 75 |
| Oti | 2.1 | 6.7 | 0.0 | 91.2 | 100.0 | 403 | 18.6 | 10.2 | 70.0 | 1.2 | 100.0 | 35 |
| Northern | 2.4 | 13.1 | 0.1 | 84.4 | 100.0 | 1,149 | 8.1 | 15.3 | 59.2 | 17.4 | 100.0 | 180 |
| Savannah | 2.0 | 14.7 | 0.0 | 83.2 | 100.0 | 319 | 8.6 | 5.8 | 83.9 | 1.7 | 100.0 | 54 |
| North East | 1.2 | 6.9 | 1.0 | 90.9 | 100.0 | 290 | 10.9 | 2.5 | 84.9 | 1.8 | 100.0 | 26 |
| Upper East | 1.0 | 15.6 | 0.2 | 83.1 | 100.0 | 640 | 5.0 | 4.8 | 87.6 | 2.6 | 100.0 | 108 |
| Upper West | 2.8 | 26.4 | 0.3 | 70.5 | 100.0 | 398 | 5.0 | 6.8 | 85.9 | 2.3 | 100.0 | 117 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 4.0 | 20.2 | 0.1 | 75.7 | 100.0 | 2,411 | 15.9 | 9.4 | 67.8 | 7.0 | 100.0 | 587 |
| Primary | 4.2 | 13.1 | 0.3 | 82.4 | 100.0 | 2,071 | 25.8 | 15.1 | 56.5 | 2.6 | 100.0 | 363 |
| Secondary | 2.7 | 10.4 | 0.2 | 86.6 | 100.0 | 8,999 | 34.8 | 18.5 | 43.8 | 2.8 | 100.0 | 1,203 |
| More than secondary | 3.5 | 13.2 | 0.2 | 83.0 | 100.0 | 1,533 | 44.0 | 33.7 | 21.3 | 1.1 | 100.0 | 260 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 2.0 | 14.8 | 0.2 | 83.1 | 100.0 | 2,447 | 7.3 | 2.9 | 85.8 | 3.9 | 100.0 | 415 |
| Second | 3.8 | 13.8 | 0.2 | 82.2 | 100.0 | 2,712 | 16.8 | 12.4 | 65.1 | 5.7 | 100.0 | 484 |
| Middle | 2.9 | 10.3 | 0.2 | 86.6 | 100.0 | 3,121 | 26.7 | 16.1 | 52.2 | 5.0 | 100.0 | 418 |
| Fourth | 2.9 | 11.0 | 0.3 | 85.8 | 100.0 | 3,379 | 38.4 | 22.4 | 36.8 | 2.4 | 100.0 | 479 |
| Highest | 4.2 | 14.0 | 0.2 | 81.6 | 100.0 | 3,355 | 50.8 | 28.1 | 19.4 | 1.7 | 100.0 | 617 |
| Total | 3.2 | 12.6 | 0.2 | 83.9 | 100.0 | 15,014 | 29.9 | 17.4 | 49.1 | 3.6 | 100.0 | 2,413 |

${ }^{1}$ Title/deed or other government-recognised document
${ }^{2}$ Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have a house with a title/deed or other government-recognised document, but they do not know if their name is on it, and women who do
not know if there is a title/deed or other government-recognised document for the house
${ }^{4}$ Includes women who own a house alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else, or both alone and jointly

Table 15.4.2 House ownership and documentation of ownership: Men
Percent distribution of men age 15-49 by ownership of a house, and among men who own a house, percent distribution by whether the house owned has a title/deed and whether or not the man's name appears on the title/deed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number of men | House has a title/deed ${ }^{1}$ : |  | Does not have a title/deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/deed ${ }^{1}$ | Man's name is not on title/deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.9 | 0.6 | 0.0 | 98.5 | 100.0 | 1,424 | (33.9) | (1.6) | (61.0) | (3.6) | 100.0 | 22 |
| 20-24 | 3.9 | 2.8 | 0.5 | 92.8 | 100.0 | 1,033 | 25.7 | 8.9 | 64.0 | 1.4 | 100.0 | 74 |
| 25-29 | 11.3 | 5.5 | 0.1 | 83.1 | 100.0 | 888 | 33.6 | 4.2 | 61.6 | 0.6 | 100.0 | 150 |
| 30-34 | 19.5 | 9.7 | 0.0 | 70.8 | 100.0 | 853 | 31.8 | 5.4 | 62.8 | 0.0 | 100.0 | 249 |
| 35-39 | 28.5 | 10.9 | 0.3 | 60.3 | 100.0 | 809 | 45.6 | 2.9 | 51.4 | 0.1 | 100.0 | 321 |
| 40-44 | 30.9 | 14.7 | 0.2 | 54.2 | 100.0 | 713 | 43.7 | 5.7 | 49.9 | 0.7 | 100.0 | 326 |
| 45-49 | 36.1 | 22.7 | 0.9 | 40.3 | 100.0 | 557 | 48.1 | 3.1 | 48.5 | 0.3 | 100.0 | 332 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 12.3 | 6.1 | 0.2 | 81.3 | 100.0 | 3,442 | 58.8 | 7.5 | 33.1 | 0.7 | 100.0 | 643 |
| Rural | 19.3 | 9.8 | 0.3 | 70.6 | 100.0 | 2,835 | 27.3 | 2.0 | 70.4 | 0.3 | 100.0 | 832 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 22.8 | 3.6 | 0.0 | 73.6 | 100.0 | 414 | 17.2 | 2.2 | 80.6 | 0.0 | 100.0 | 109 |
| Central | 14.3 | 11.5 | 0.4 | 73.9 | 100.0 | 686 | 58.9 | 0.0 | 41.1 | 0.0 | 100.0 | 179 |
| Greater Accra | 11.7 | 5.3 | 0.1 | 82.9 | 100.0 | 1,076 | 54.5 | 7.6 | 36.7 | 1.3 | 100.0 | 184 |
| Volta | 17.2 | 0.5 | 0.0 | 82.4 | 100.0 | 235 | 55.8 | 4.8 | 39.5 | 0.0 | 100.0 | 41 |
| Eastern | 11.4 | 9.4 | 0.0 | 79.2 | 100.0 | 466 | 57.4 | 1.7 | 40.9 | 0.0 | 100.0 | 97 |
| Ashanti | 11.2 | 8.1 | 0.3 | 80.5 | 100.0 | 1,179 | 70.8 | 5.7 | 23.6 | 0.0 | 100.0 | 230 |
| Western North | 19.5 | 12.7 | 0.3 | 67.6 | 100.0 | 181 | 20.5 | 7.7 | 70.8 | 1.0 | 100.0 | 59 |
| Ahafo | 13.7 | 5.7 | 0.0 | 80.6 | 100.0 | 133 | 42.8 | 2.8 | 54.4 | 0.0 | 100.0 | 26 |
| Bono | 12.5 | 9.1 | 0.9 | 77.6 | 100.0 | 222 | 34.5 | 16.5 | 47.8 | 1.2 | 100.0 | 50 |
| Bono East | 11.3 | 7.2 | 0.0 | 81.4 | 100.0 | 316 | 23.0 | 5.8 | 70.1 | 1.1 | 100.0 | 59 |
| Oti | 22.4 | 7.6 | 1.2 | 68.8 | 100.0 | 187 | 29.3 | 1.2 | 69.5 | 0.0 | 100.0 | 58 |
| Northern | 26.5 | 3.3 | 0.0 | 70.2 | 100.0 | 484 | 29.7 | 6.7 | 63.6 | 0.0 | 100.0 | 144 |
| Savannah | 26.4 | 7.5 | 0.3 | 65.8 | 100.0 | 155 | 20.6 | 1.4 | 75.7 | 2.3 | 100.0 | 53 |
| North East | 20.7 | 20.5 | 0.0 | 58.8 | 100.0 | 119 | 5.5 | 0.4 | 94.1 | 0.0 | 100.0 | 49 |
| Upper East | 16.2 | 4.6 | 0.6 | 78.7 | 100.0 | 267 | 11.9 | 1.7 | 84.9 | 1.5 | 100.0 | 57 |
| Upper West | 20.4 | 30.2 | 0.7 | 48.7 | 100.0 | 155 | 6.1 | 3.8 | 89.8 | 0.3 | 100.0 | 79 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 31.3 | 11.1 | 0.2 | 57.4 | 100.0 | 628 | 14.7 | 2.1 | 82.9 | 0.3 | 100.0 | 267 |
| Primary | 18.8 | 7.8 | 0.3 | 73.0 | 100.0 | 725 | 32.4 | 1.6 | 65.9 | 0.1 | 100.0 | 195 |
| Secondary | 12.3 | 7.4 | 0.2 | 80.0 | 100.0 | 3,990 | 46.0 | 5.1 | 48.5 | 0.4 | 100.0 | 796 |
| More than secondary | 15.6 | 7.1 | 0.3 | 76.9 | 100.0 | 935 | 62.9 | 7.1 | 28.9 | 1.1 | 100.0 | 216 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 21.5 | 10.1 | 0.1 | 68.2 | 100.0 | 1,089 | 12.1 | 2.3 | 85.2 | 0.5 | 100.0 | 346 |
| Second | 16.3 | 8.6 | 0.1 | 75.0 | 100.0 | 1,133 | 27.6 | 2.3 | 70.1 | 0.0 | 100.0 | 283 |
| Middle | 13.2 | 6.5 | 0.3 | 80.0 | 100.0 | 1,137 | 43.3 | 4.9 | 51.0 | 0.9 | 100.0 | 228 |
| Fourth | 13.7 | 6.8 | 0.3 | 79.3 | 100.0 | 1,466 | 53.1 | 5.8 | 41.1 | 0.0 | 100.0 | 304 |
| Highest | 13.8 | 7.5 | 0.3 | 78.4 | 100.0 | 1,453 | 71.8 | 7.0 | 20.3 | 0.9 | 100.0 | 314 |
| Total 15-49 | 15.5 | 7.8 | 0.2 | 76.5 | 100.0 | 6,277 | 41.0 | 4.4 | 54.1 | 0.4 | 100.0 | 1,475 |
| 50-59 | 42.6 | 22.0 | 0.7 | 34.7 | 100.0 | 767 | 47.5 | 2.6 | 49.9 | 0.0 | 100.0 | 501 |
| Total 15-59 | 18.4 | 9.3 | 0.3 | 72.0 | 100.0 | 7,044 | 42.6 | 4.0 | 53.1 | 0.3 | 100.0 | 1,976 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Title/deed or other government-recognised document
${ }^{2}$ Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have a house with a title/deed or other government-recognised document, but they do not know if their name is on it, and men who do not know if there is a title/deed or other government-recognised document for the house
${ }^{4}$ Includes men who own a house alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly

Table 15.5.1 Land ownership and documentation of ownership: Women
Percent distribution of women age 15-49 by ownership of land, and among women who own land, percent distribution by whether the land owned has a title/deed and whether or not the woman's name appears on the title/deed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number of women | Land has a title/deed ${ }^{1}$ : |  | Does not have a title/deed ${ }^{1}$ | Don't know ${ }^{3}$ | Total | Number of women who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Woman's name is on title/deed ${ }^{1}$ | Woman's name is not on title/deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.4 | 0.7 | 0.0 | 98.9 | 100.0 | 2,682 | (11.1) | (4.3) | (75.1) | (9.6) | 100.0 | 31 |
| 20-24 | 1.2 | 3.4 | 0.0 | 95.4 | 100.0 | 2,695 | 28.1 | 6.1 | 61.5 | 4.3 | 100.0 | 124 |
| 25-29 | 2.7 | 6.6 | 0.1 | 90.6 | 100.0 | 2,340 | 25.7 | 10.9 | 60.0 | 3.4 | 100.0 | 220 |
| 30-34 | 5.9 | 10.5 | 0.1 | 83.5 | 100.0 | 2,252 | 34.6 | 7.3 | 56.9 | 1.2 | 100.0 | 371 |
| 35-39 | 7.4 | 11.4 | 0.1 | 81.1 | 100.0 | 2,059 | 34.2 | 6.5 | 57.8 | 1.5 | 100.0 | 389 |
| 40-44 | 8.9 | 15.0 | 0.2 | 76.0 | 100.0 | 1,675 | 35.2 | 7.2 | 56.7 | 0.9 | 100.0 | 402 |
| 45-49 | 14.7 | 14.5 | 0.4 | 70.4 | 100.0 | 1,312 | 31.4 | 5.3 | 62.3 | 1.0 | 100.0 | 388 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 3.9 | 5.2 | 0.0 | 90.9 | 100.0 | 8,557 | 50.5 | 8.0 | 40.3 | 1.2 | 100.0 | 777 |
| Rural | 6.2 | 11.4 | 0.1 | 82.2 | 100.0 | 6,457 | 19.8 | 6.3 | 71.8 | 2.1 | 100.0 | 1,148 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 7.2 | 8.6 | 0.0 | 84.2 | 100.0 | 955 | 33.3 | 4.2 | 62.6 | 0.0 | 100.0 | 151 |
| Central | 6.7 | 9.6 | 0.1 | 83.6 | 100.0 | 1,703 | 45.1 | 7.5 | 47.5 | 0.0 | 100.0 | 279 |
| Greater Accra | 2.2 | 3.5 | 0.1 | 94.2 | 100.0 | 2,327 | 57.1 | 13.1 | 29.9 | 0.0 | 100.0 | 135 |
| Volta | 5.6 | 6.3 | 0.5 | 87.7 | 100.0 | 713 | 28.9 | 5.3 | 65.0 | 0.8 | 100.0 | 88 |
| Eastern | 5.0 | 8.6 | 0.0 | 86.5 | 100.0 | 1,220 | 50.0 | 11.4 | 37.8 | 0.8 | 100.0 | 165 |
| Ashanti | 4.4 | 7.5 | 0.1 | 88.0 | 100.0 | 2,928 | 32.1 | 7.1 | 54.2 | 6.6 | 100.0 | 350 |
| Western North | 10.4 | 11.7 | 0.2 | 77.7 | 100.0 | 411 | 21.9 | 4.2 | 72.8 | 1.0 | 100.0 | 91 |
| Ahafo | 3.8 | 12.1 | 0.1 | 84.0 | 100.0 | 317 | 42.5 | 13.1 | 43.6 | 0.8 | 100.0 | 51 |
| Bono | 7.6 | 7.1 | 0.1 | 85.2 | 100.0 | 567 | 46.1 | 9.7 | 43.1 | 1.0 | 100.0 | 84 |
| Bono East | 4.0 | 3.2 | 0.0 | 92.8 | 100.0 | 676 | 27.7 | 2.0 | 70.2 | 0.0 | 100.0 | 48 |
| Oti | 3.7 | 4.4 | 0.0 | 91.9 | 100.0 | 403 | 21.7 | 9.3 | 69.0 | 0.0 | 100.0 | 32 |
| Northern | 5.4 | 8.2 | 0.1 | 86.3 | 100.0 | 1,149 | 13.3 | 7.1 | 77.6 | 2.1 | 100.0 | 157 |
| Savannah | 5.6 | 10.3 | 0.2 | 83.9 | 100.0 | 319 | 13.9 | 2.1 | 82.6 | 1.4 | 100.0 | 51 |
| North East | 2.2 | 7.1 | 0.2 | 90.5 | 100.0 | 290 | 17.0 | 3.6 | 79.4 | 0.0 | 100.0 | 28 |
| Upper East | 4.1 | 14.3 | 0.1 | 81.5 | 100.0 | 640 | 6.8 | 1.0 | 90.3 | 2.0 | 100.0 | 118 |
| Upper West | 4.1 | 19.6 | 0.1 | 76.1 | 100.0 | 398 | 5.3 | 4.5 | 90.3 | 0.0 | 100.0 | 95 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 5.8 | 13.7 | 0.1 | 80.4 | 100.0 | 2,411 | 14.1 | 4.4 | 79.7 | 1.8 | 100.0 | 472 |
| Primary | 7.1 | 8.8 | 0.2 | 83.8 | 100.0 | 2,071 | 21.9 | 6.7 | 70.1 | 1.3 | 100.0 | 335 |
| Secondary | 4.0 | 6.3 | 0.1 | 89.7 | 100.0 | 8,999 | 38.5 | 7.7 | 51.8 | 2.1 | 100.0 | 929 |
| More than secondary | 5.5 | 6.7 | 0.1 | 87.7 | 100.0 | 1,533 | 64.6 | 10.4 | 23.9 | 1.0 | 100.0 | 189 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 5.5 | 10.9 | 0.0 | 83.6 | 100.0 | 2,447 | 9.2 | 2.8 | 87.7 | 0.3 | 100.0 | 400 |
| Second | 5.8 | 11.3 | 0.1 | 82.7 | 100.0 | 2,712 | 17.7 | 7.2 | 71.5 | 3.6 | 100.0 | 469 |
| Middle | 4.7 | 6.4 | 0.2 | 88.7 | 100.0 | 3,121 | 27.5 | 8.2 | 62.5 | 1.9 | 100.0 | 354 |
| Fourth | 4.0 | 5.9 | 0.0 | 90.0 | 100.0 | 3,379 | 49.4 | 5.9 | 43.6 | 1.1 | 100.0 | 337 |
| Highest | 4.7 | 6.1 | 0.1 | 89.1 | 100.0 | 3,355 | 64.8 | 11.1 | 22.7 | 1.4 | 100.0 | 366 |
| Total | 4.9 | 7.8 | 0.1 | 87.2 | 100.0 | 15,014 | 32.2 | 7.0 | 59.1 | 1.8 | 100.0 | 1,925 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Title/deed or other government-recognised document
2 Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have land with a title/deed or other government-recognised document, but they do not know if their name is on it, and women who do not know if there is a title/deed or other government-recognised document for the land
${ }^{4}$ Includes women who own land alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else, or both alone and jointly

Table 15.5.2 Land ownership and documentation of ownership: Men
Percent distribution of men age 15-49 by ownership of land, and among men who own land, percent distribution by whether the land owned has a title/deed and whether or not the man's name appears on the title/deed, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number of men | Land has a title/deed ${ }^{1}$ : |  | Does not have a title/deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/deed ${ }^{1}$ | Man's name is not on title/deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 1.3 | 0.9 | 0.0 | 97.8 | 100.0 | 1,424 | (19.9) | (2.1) | (74.2) | (3.7) | 100.0 | 32 |
| 20-24 | 7.8 | 2.6 | 0.2 | 89.4 | 100.0 | 1,033 | 23.6 | 6.4 | 69.0 | 0.9 | 100.0 | 109 |
| 25-29 | 18.9 | 5.2 | 0.3 | 75.6 | 100.0 | 888 | 28.4 | 2.0 | 68.5 | 1.1 | 100.0 | 217 |
| 30-34 | 23.2 | 8.0 | 0.2 | 68.6 | 100.0 | 853 | 34.1 | 5.2 | 60.7 | 0.0 | 100.0 | 268 |
| 35-39 | 30.7 | 11.9 | 0.3 | 57.0 | 100.0 | 809 | 37.3 | 4.0 | 58.7 | 0.0 | 100.0 | 347 |
| 40-44 | 31.3 | 9.9 | 0.3 | 58.5 | 100.0 | 713 | 38.1 | 3.1 | 58.8 | 0.0 | 100.0 | 296 |
| 45-49 | 37.0 | 15.2 | 0.4 | 47.3 | 100.0 | 557 | 42.1 | 5.2 | 52.7 | 0.0 | 100.0 | 293 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 15.2 | 5.0 | 0.1 | 79.7 | 100.0 | 3,442 | 50.3 | 6.3 | 42.8 | 0.6 | 100.0 | 700 |
| Rural | 21.8 | 8.2 | 0.4 | 69.6 | 100.0 | 2,835 | 23.1 | 2.4 | 74.5 | 0.0 | 100.0 | 863 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 29.1 | 1.7 | 0.0 | 69.2 | 100.0 | 414 | 23.2 | 4.9 | 71.9 | 0.0 | 100.0 | 128 |
| Central | 15.4 | 8.9 | 0.5 | 75.3 | 100.0 | 686 | 39.0 | 1.3 | 59.7 | 0.0 | 100.0 | 170 |
| Greater Accra | 7.6 | 4.4 | 0.1 | 87.8 | 100.0 | 1,076 | 53.8 | 16.0 | 28.4 | 1.8 | 100.0 | 131 |
| Volta | 17.3 | 2.0 | 0.6 | 80.0 | 100.0 | 235 | 42.9 | 3.8 | 53.3 | 0.0 | 100.0 | 47 |
| Eastern | 15.7 | 11.6 | 0.2 | 72.4 | 100.0 | 466 | 54.1 | 4.6 | 41.2 | 0.0 | 100.0 | 128 |
| Ashanti | 15.7 | 4.9 | 0.0 | 79.4 | 100.0 | 1,179 | 62.8 | 2.3 | 34.9 | 0.0 | 100.0 | 243 |
| Western North | 23.1 | 14.7 | 0.8 | 61.4 | 100.0 | 181 | 22.5 | 3.9 | 73.6 | 0.0 | 100.0 | 70 |
| Ahafo | 19.9 | 8.7 | 0.0 | 71.4 | 100.0 | 133 | 44.2 | 4.5 | 51.3 | 0.0 | 100.0 | 38 |
| Bono | 14.4 | 8.8 | 0.0 | 76.8 | 100.0 | 222 | 37.7 | 12.6 | 47.9 | 1.7 | 100.0 | 51 |
| Bono East | 17.3 | 4.6 | 0.0 | 78.0 | 100.0 | 316 | 23.0 | 2.2 | 74.8 | 0.0 | 100.0 | 70 |
| Oti | 25.8 | 3.6 | 1.0 | 69.6 | 100.0 | 187 | 37.8 | 2.9 | 59.3 | 0.0 | 100.0 | 57 |
| Northern | 28.2 | 2.6 | 0.3 | 69.0 | 100.0 | 484 | 26.3 | 2.2 | 71.0 | 0.5 | 100.0 | 150 |
| Savannah | 33.4 | 6.9 | 0.4 | 59.3 | 100.0 | 155 | 9.9 | 4.0 | 86.1 | 0.0 | 100.0 | 63 |
| North East | 31.9 | 28.7 | 0.8 | 38.6 | 100.0 | 119 | 0.5 | 0.2 | 98.8 | 0.4 | 100.0 | 73 |
| Upper East | 30.1 | 3.1 | 0.4 | 66.4 | 100.0 | 267 | 3.1 | 1.0 | 95.9 | 0.0 | 100.0 | 90 |
| Upper West | 16.0 | 18.6 | 0.0 | 65.4 | 100.0 | 155 | 7.4 | 0.9 | 91.3 | 0.5 | 100.0 | 54 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 30.0 | 9.5 | 0.2 | 60.2 | 100.0 | 628 | 11.7 | 0.9 | 87.4 | 0.0 | 100.0 | 249 |
| Primary | 18.5 | 5.5 | 0.3 | 75.8 | 100.0 | 725 | 21.3 | 2.4 | 76.3 | 0.0 | 100.0 | 175 |
| Secondary | 15.6 | 6.1 | 0.3 | 78.1 | 100.0 | 3,990 | 38.9 | 3.9 | 56.7 | 0.5 | 100.0 | 876 |
| More than secondary | 21.2 | 6.9 | 0.0 | 71.9 | 100.0 | 935 | 54.9 | 9.0 | 36.0 | 0.1 | 100.0 | 262 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 21.3 | 9.2 | 0.2 | 69.2 | 100.0 | 1,089 | 11.2 | 2.1 | 86.7 | 0.1 | 100.0 | 335 |
| Second | 22.8 | 8.1 | 0.4 | 68.8 | 100.0 | 1,133 | 26.1 | 1.8 | 72.2 | 0.0 | 100.0 | 354 |
| Middle | 16.6 | 6.0 | 0.3 | 77.1 | 100.0 | 1,137 | 31.0 | 4.9 | 63.8 | 0.3 | 100.0 | 260 |
| Fourth | 17.0 | 5.7 | 0.1 | 77.1 | 100.0 | 1,466 | 52.3 | 5.0 | 42.7 | 0.0 | 100.0 | 335 |
| Highest | 14.8 | 4.3 | 0.1 | 80.8 | 100.0 | 1,453 | 59.4 | 7.7 | 31.7 | 1.2 | 100.0 | 279 |
| Total 15-49 | 18.2 | 6.5 | 0.2 | 75.1 | 100.0 | 6,277 | 35.3 | 4.1 | 60.3 | 0.3 | 100.0 | 1,563 |
| 50-59 | 36.7 | 16.3 | 0.7 | 46.3 | 100.0 | 767 | 35.9 | 2.2 | 61.9 | 0.0 | 100.0 | 412 |
| Total 15-59 | 20.2 | 7.5 | 0.3 | 72.0 | 100.0 | 7,044 | 35.4 | 3.7 | 60.7 | 0.2 | 100.0 | 1,975 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
1 Title/deed or other government-recognised document
2 Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have land with a title/deed or other government-recognised document, but they do not know if their name is on it, and men who do no know if there is a title/deed or other government-recognised document for the land
${ }^{4}$ Includes men who own land alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly

Table 15.6.1 Ownership and use of mobile phones and bank accounts: Women
Percentage of women age 15-49 who own any mobile phone, percentage who own a smartphone, and percentage who used a mobile phone to make financial transactions in the last 12 months; percentage of women who have and use a bank account and percentage who deposited or withdrew money from their own bank account in the last 12 months; and percentage of women who have and use a bank account or used a mobile phone for financial transactions in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Mobile phone ownership: |  | Percentage who used a mobile phone for financial transactions in the last 12 months ${ }^{1}$ | Bank account ownership and use: |  | Percentage who have and use a bank account or used a mobile phone for financial transactions in the last 12 months | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who own any mobile phone | Percentage who own a smartphone |  | Percentage who have and use a bank account | Percentage who deposited or withdrew money from their own account in the last 12 months |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 49.8 | 27.4 | 37.8 | 6.7 | 5.0 | 39.8 | 2,682 |
| 20-24 | 86.7 | 57.0 | 76.2 | 27.3 | 22.6 | 78.7 | 2,695 |
| 25-29 | 87.3 | 53.2 | 81.4 | 40.7 | 32.1 | 83.1 | 2,340 |
| 30-34 | 87.7 | 49.4 | 78.5 | 40.7 | 32.8 | 81.1 | 2,252 |
| 35-39 | 85.2 | 42.8 | 78.1 | 42.9 | 34.4 | 80.9 | 2,059 |
| 40-44 | 84.4 | 35.1 | 75.0 | 37.0 | 28.8 | 78.8 | 1,675 |
| 45-49 | 83.8 | 33.3 | 73.3 | 34.7 | 27.2 | 76.4 | 1,312 |
| Residence |  |  |  |  |  |  |  |
| Urban | 86.6 | 57.0 | 79.8 | 41.4 | 32.9 | 82.3 | 8,557 |
| Rural | 70.4 | 25.7 | 57.9 | 18.6 | 15.0 | 60.4 | 6,457 |
| Region |  |  |  |  |  |  |  |
| Western | 82.0 | 44.3 | 79.7 | 37.1 | 31.7 | 81.9 | 955 |
| Central | 80.4 | 40.0 | 76.3 | 31.0 | 25.3 | 78.9 | 1,703 |
| Greater Accra | 89.8 | 65.7 | 85.0 | 44.0 | 30.9 | 87.2 | 2,327 |
| Volta | 75.7 | 34.7 | 73.4 | 18.1 | 14.1 | 73.6 | 713 |
| Eastern | 82.9 | 46.0 | 71.1 | 29.8 | 25.2 | 73.4 | 1,220 |
| Ashanti | 84.6 | 55.2 | 73.2 | 45.1 | 36.0 | 78.2 | 2,928 |
| Western North | 74.1 | 34.6 | 66.4 | 31.1 | 26.0 | 70.4 | 411 |
| Ahafo | 75.6 | 32.4 | 70.7 | 27.2 | 22.6 | 73.4 | 317 |
| Bono | 81.9 | 44.4 | 74.5 | 37.2 | 33.6 | 77.4 | 567 |
| Bono East | 75.3 | 34.8 | 58.9 | 26.4 | 21.1 | 61.3 | 676 |
| Oti | 66.6 | 21.1 | 54.3 | 9.5 | 7.9 | 55.2 | 403 |
| Northern | 65.3 | 23.5 | 48.0 | 13.5 | 11.6 | 48.8 | 1,149 |
| Savannah | 64.6 | 19.1 | 41.1 | 10.7 | 9.3 | 42.4 | 319 |
| North East | 63.4 | 13.3 | 43.4 | 4.0 | 3.4 | 43.8 | 290 |
| Upper East | 80.5 | 31.2 | 75.2 | 19.3 | 16.7 | 76.0 | 640 |
| Upper West | 62.1 | 23.6 | 42.2 | 15.0 | 11.4 | 44.1 | 398 |
| Education |  |  |  |  |  |  |  |
| No education | 65.7 | 12.3 | 46.5 | 9.3 | 7.7 | 48.3 | 2,411 |
| Primary | 71.0 | 21.0 | 60.4 | 18.5 | 14.0 | 63.3 | 2,071 |
| Secondary | 82.0 | 48.3 | 74.4 | 31.5 | 24.0 | 77.3 | 8,999 |
| More than secondary | 99.4 | 95.3 | 97.8 | 85.1 | 74.6 | 98.5 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 58.8 | 10.1 | 40.7 | 5.9 | 4.1 | 42.1 | 2,447 |
| Second | 69.8 | 21.1 | 57.4 | 13.6 | 10.7 | 60.4 | 2,712 |
| Middle | 81.8 | 36.5 | 73.1 | 23.3 | 18.1 | 75.6 | 3,121 |
| Fourth | 87.7 | 56.4 | 82.8 | 40.6 | 31.6 | 85.5 | 3,379 |
| Highest | 92.6 | 79.7 | 87.5 | 63.5 | 52.4 | 90.2 | 3,355 |
| Total | 79.6 | 43.5 | 70.4 | 31.6 | 25.2 | 72.9 | 15,014 |

${ }^{1}$ Respondents were asked about use of a mobile phone for financial transactions whether or not they owned a mobile phone.

Table 15.6.2 Ownership and use of mobile phones and bank accounts: Men
Percentage of men age 15-49 who own any mobile phone, percentage who own a smartphone, and percentage who used a mobile phone to make financial transactions in the last 12 months; percentage of men who have and use a bank account and percentage who deposited or withdrew money from their own bank account in the last 12 months; and percentage of men who have and use a bank account or used a mobile phone for financial transactions in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Mobile phone ownership: |  | Percentage who used a mobile phone for financial transactions in the last 12 months ${ }^{1}$ | Bank account ownership and use: |  | Percentage who have and use a bank account or used a mobile phone for financial transactions in the last 12 months | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who own any mobile phone | Percentage who own a smartphone |  | Percentage who have and use a bank account | Percentage who deposited or withdrew money from their own account in the last 12 months |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 60.6 | 44.0 | 42.5 | 3.9 | 3.1 | 43.1 | 1,424 |
| 20-24 | 94.6 | 72.9 | 88.3 | 30.4 | 25.6 | 89.5 | 1,033 |
| 25-29 | 97.6 | 73.3 | 90.8 | 50.1 | 45.2 | 91.9 | 888 |
| 30-34 | 96.4 | 67.3 | 91.3 | 50.9 | 44.9 | 92.7 | 853 |
| 35-39 | 95.9 | 61.1 | 86.9 | 48.9 | 42.9 | 88.8 | 809 |
| 40-44 | 94.9 | 55.6 | 83.8 | 50.6 | 43.9 | 86.6 | 713 |
| 45-49 | 91.3 | 44.6 | 84.3 | 47.8 | 41.4 | 87.6 | 557 |
| Residence |  |  |  |  |  |  |  |
| Urban | 91.3 | 72.0 | 84.5 | 45.7 | 40.9 | 85.6 | 3,442 |
| Rural | 82.8 | 44.7 | 69.3 | 24.6 | 20.3 | 71.2 | 2,835 |
| Region |  |  |  |  |  |  |  |
| Western | 90.3 | 64.9 | 79.9 | 43.8 | 37.1 | 83.3 | 414 |
| Central | 89.0 | 60.7 | 80.2 | 29.7 | 24.3 | 82.0 | 686 |
| Greater Accra | 92.8 | 78.1 | 88.9 | 46.8 | 43.2 | 89.5 | 1,076 |
| Volta | 86.4 | 60.4 | 79.9 | 30.7 | 26.7 | 80.7 | 235 |
| Eastern | 86.8 | 56.0 | 77.9 | 34.2 | 30.9 | 78.4 | 466 |
| Ashanti | 88.0 | 65.9 | 79.7 | 44.1 | 39.2 | 81.1 | 1,179 |
| Western North | 87.6 | 55.2 | 80.4 | 45.8 | 39.6 | 82.9 | 181 |
| Ahafo | 86.7 | 43.1 | 75.4 | 42.7 | 32.8 | 79.1 | 133 |
| Bono | 84.1 | 61.2 | 73.9 | 43.7 | 39.3 | 77.7 | 222 |
| Bono East | 86.6 | 54.2 | 57.2 | 31.3 | 25.3 | 61.9 | 316 |
| Oti | 83.6 | 42.5 | 71.9 | 20.8 | 15.3 | 73.3 | 187 |
| Northern | 83.6 | 41.4 | 67.9 | 19.9 | 16.7 | 68.5 | 484 |
| Savannah | 79.1 | 40.6 | 58.0 | 18.6 | 14.1 | 59.2 | 155 |
| North East | 86.0 | 38.5 | 67.6 | 12.0 | 11.6 | 67.6 | 119 |
| Upper East | 82.3 | 45.5 | 79.3 | 29.4 | 26.7 | 79.4 | 267 |
| Upper West | 78.2 | 40.8 | 69.2 | 24.1 | 20.0 | 70.1 | 155 |
| Education |  |  |  |  |  |  |  |
| No education | 85.1 | 26.1 | 58.1 | 12.5 | 9.2 | 59.8 | 628 |
| Primary | 76.3 | 34.0 | 59.7 | 14.2 | 11.2 | 62.0 | 725 |
| Secondary | 87.0 | 61.0 | 79.1 | 31.8 | 26.8 | 80.6 | 3,990 |
| More than secondary | 99.8 | 96.1 | 98.2 | 87.5 | 82.8 | 99.1 | 935 |
| Wealth quintile 75.5 |  |  |  |  |  |  |  |
| Lowest | 75.5 | 27.2 | 56.2 | 10.2 | 7.4 | 57.7 | 1,089 |
| Second | 82.9 | 42.7 | 68.5 | 19.5 | 15.7 | 70.7 | 1,133 |
| Middle | 87.4 | 56.3 | 79.6 | 29.6 | 24.1 | 81.7 | 1,137 |
| Fourth | 91.7 | 71.9 | 85.0 | 42.4 | 36.8 | 86.1 | 1,466 |
| Highest | 95.8 | 87.5 | 91.8 | 67.4 | 62.7 | 92.8 | 1,453 |
| Total 15-49 | 87.5 | 59.6 | 77.6 | 36.2 | 31.6 | 79.1 | 6,277 |
| 50-59 | 91.0 | 36.0 | 79.6 | 46.6 | 37.3 | 84.9 | 767 |
| Total 15-59 | 87.9 | 57.1 | 77.8 | 37.3 | 32.2 | 79.8 | 7,044 |

${ }^{1}$ Respondents were asked about use of a mobile phone for financial transactions whether or not they owned a mobile phone.

## Table 15.7 Participation in decision making

Percent distribution of currently married women and currently married men age 15-49 by person who usually makes decisions about various issues, Ghana DHS 2022

| Decision | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Total | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WOMEN |  |  |  |  |  |  |  |
| Own health care | 38.2 | 37.4 | 23.8 | 0.5 | 0.1 | 100.0 | 8,205 |
| Major household purchases | 30.0 | 37.6 | 31.4 | 0.8 | 0.2 | 100.0 | 8,205 |
| Visits to her family or relatives | 28.2 | 48.9 | 22.3 | 0.4 | 0.3 | 100.0 | 8,205 |
| MEN |  |  |  |  |  |  |  |
| Own health care | 7.8 | 42.8 | 48.4 | 0.8 | 0.1 | 100.0 | 2,828 |
| Major household purchases | 11.4 | 48.2 | 39.5 | 0.5 | 0.4 | 100.0 | 2,828 |

Note: The term husband includes a partner with whom a woman is living as if married, and the term wife includes a partner with whom a man is living as if married.

Table 15.8.1 Women's participation in decision making by background characteristics
Percentage of currently married women age 15-49 who usually make specific decisions either alone or jointly with their husband, according to background characteristics, Ghana DHS 2022

| Background characteristic | Specific decisions |  |  | All three decisions | None of the three decisions | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Woman's own health care | Making major household purchases | Visits to her family or relatives |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 56.6 | 44.8 | 60.3 | 33.2 | 26.4 | 194 |
| 20-24 | 67.0 | 56.0 | 70.2 | 43.2 | 16.4 | 1,013 |
| 25-29 | 73.2 | 64.0 | 74.6 | 50.1 | 12.8 | 1,457 |
| 30-34 | 76.2 | 65.6 | 76.3 | 55.8 | 12.7 | 1,719 |
| 35-39 | 78.9 | 72.8 | 80.6 | 60.7 | 9.1 | 1,641 |
| 40-44 | 77.8 | 73.0 | 80.1 | 59.5 | 9.5 | 1,239 |
| 45-49 | 82.7 | 77.4 | 83.1 | 67.7 | 7.9 | 941 |
| Employment (last 12 months) |  |  |  |  |  |  |
| Not employed | 55.2 | 43.5 | 61.0 | 34.4 | 28.5 | 986 |
| Employed for cash | 80.3 | 72.3 | 81.0 | 60.6 | 8.2 | 5,832 |
| Employed not for cash | 70.4 | 64.7 | 72.2 | 49.6 | 14.7 | 1,387 |
| Number of living children |  |  |  |  |  |  |
| 0 | 70.3 | 64.2 | 76.4 | 50.2 | 13.0 | 593 |
| 1-2 | 76.7 | 66.8 | 76.6 | 55.8 | 11.9 | 3,018 |
| 3-4 | 76.2 | 68.0 | 78.1 | 56.2 | 10.9 | 2,792 |
| $5+$ | 74.5 | 69.2 | 76.6 | 56.2 | 12.3 | 1,801 |
| Residence |  |  |  |  |  |  |
| Urban | 80.5 | 72.0 | 81.6 | 61.1 | 8.4 | 4,248 |
| Rural | 70.3 | 62.8 | 72.3 | 49.7 | 15.4 | 3,956 |
| Region |  |  |  |  |  |  |
| Western | 89.5 | 74.7 | 92.8 | 68.9 | 2.7 | 487 |
| Central | 87.0 | 66.6 | 78.7 | 56.9 | 5.3 | 816 |
| Greater Accra | 84.6 | 80.2 | 88.3 | 68.9 | 4.6 | 1,144 |
| Volta | 75.0 | 71.2 | 80.2 | 56.8 | 7.4 | 375 |
| Eastern | 56.8 | 63.3 | 61.8 | 43.2 | 25.8 | 633 |
| Ashanti | 79.3 | 71.2 | 78.0 | 55.2 | 6.3 | 1,426 |
| Western North | 61.6 | 56.5 | 77.8 | 41.1 | 14.2 | 231 |
| Ahafo | 58.8 | 63.1 | 63.5 | 45.2 | 21.9 | 183 |
| Bono | 80.6 | 77.2 | 88.6 | 71.3 | 7.8 | 284 |
| Bono East | 72.0 | 62.8 | 70.6 | 57.4 | 21.8 | 376 |
| Oti | 70.4 | 67.3 | 64.8 | 47.9 | 12.4 | 248 |
| Northern | 68.0 | 60.3 | 68.0 | 49.7 | 21.3 | 870 |
| Savannah | 74.3 | 42.7 | 72.0 | 38.1 | 17.5 | 218 |
| North East | 61.1 | 53.8 | 71.2 | 42.5 | 20.9 | 229 |
| Upper East | 81.2 | 70.5 | 84.8 | 63.3 | 8.5 | 426 |
| Upper West | 59.5 | 48.7 | 65.6 | 39.3 | 23.0 | 258 |
| Education |  |  |  |  |  |  |
| No education | 68.6 | 59.5 | 69.8 | 48.3 | 18.7 | 2,015 |
| Primary | 74.7 | 65.7 | 75.7 | 52.9 | 12.3 | 1,233 |
| Secondary | 77.0 | 70.1 | 79.3 | 57.1 | 9.3 | 4,174 |
| More than secondary | 87.7 | 77.8 | 86.0 | 70.3 | 5.7 | 783 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 67.0 | 57.7 | 68.8 | 47.7 | 20.6 | 1,662 |
| Second | 69.9 | 62.6 | 71.3 | 50.1 | 15.6 | 1,513 |
| Middle | 74.9 | 70.2 | 78.6 | 54.8 | 9.2 | 1,545 |
| Fourth | 78.8 | 69.7 | 80.6 | 56.2 | 8.2 | 1,743 |
| Highest | 86.2 | 76.8 | 85.1 | 68.0 | 5.9 | 1,742 |
| Total | 75.6 | 67.6 | 77.1 | 55.6 | 11.8 | 8,205 |

Note: The term husband includes a partner with whom a woman is living as if married.

Table 15.8.2 Men's participation in decision making by background characteristics
Percentage of currently married men age 15-49 who usually make specific decisions either alone or jointly with their wife, according to background characteristics, Ghana DHS 2022

| Background characteristic | Specific decisions |  | Both decisions | Neither of the two decisions | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Man's own health care | Making major household purchases |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | * | * | * | * | 13 |
| 20-24 | 94.5 | 87.6 | 85.4 | 3.3 | 126 |
| 25-29 | 92.4 | 88.4 | 83.9 | 3.1 | 383 |
| 30-34 | 93.2 | 88.6 | 85.7 | 4.0 | 568 |
| 35-39 | 90.4 | 88.3 | 82.9 | 4.2 | 665 |
| 40-44 | 91.0 | 88.4 | 84.5 | 5.1 | 597 |
| 45-49 | 89.0 | 85.1 | 80.9 | 6.8 | 475 |
| Employment (last 12 months) |  |  |  |  |  |
| Not employed | * | * | * | * | 14 |
| Employed for cash | 91.1 | 87.4 | 83.2 | 4.8 | 2,642 |
| Employed not for cash | 93.0 | 91.5 | 88.7 | 4.2 | 171 |
| Number of living children |  |  |  |  |  |
| 0 | 92.3 | 88.7 | 85.4 | 4.4 | 249 |
| 1-2 | 91.6 | 87.8 | 83.3 | 3.9 | 1,036 |
| 3-4 | 90.7 | 87.0 | 83.2 | 5.5 | 929 |
| $5+$ | 90.8 | 88.1 | 83.9 | 4.9 | 613 |
| Residence |  |  |  |  |  |
| Urban | 90.2 | 87.1 | 82.8 | 5.5 | 1,479 |
| Rural | 92.4 | 88.3 | 84.5 | 3.8 | 1,349 |
| Region |  |  |  |  |  |
| Western | 70.7 | 85.5 | 63.5 | 7.3 | 190 |
| Central | 95.2 | 92.5 | 90.6 | 3.0 | 256 |
| Greater Accra | 90.5 | 86.4 | 83.9 | 6.9 | 509 |
| Volta | 93.2 | 89.4 | 88.5 | 6.0 | 113 |
| Eastern | 87.4 | 82.0 | 79.2 | 9.7 | 192 |
| Ashanti | 88.9 | 87.4 | 81.8 | 5.5 | 442 |
| Western North | 97.5 | 81.6 | 81.0 | 1.9 | 82 |
| Ahafo | 97.9 | 85.7 | 85.7 | 2.1 | 69 |
| Bono | 93.5 | 89.5 | 85.8 | 2.9 | 87 |
| Bono East | 97.9 | 92.0 | 90.4 | 0.6 | 143 |
| Oti | 87.7 | 87.0 | 84.3 | 9.6 | 87 |
| Northern | 96.4 | 93.0 | 90.4 | 1.0 | 276 |
| Savannah | 91.0 | 90.7 | 85.8 | 4.1 | 86 |
| North East | 97.0 | 81.7 | 81.0 | 2.3 | 74 |
| Upper East | 94.9 | 82.7 | 80.2 | 2.6 | 137 |
| Upper West | 97.9 | 90.4 | 88.9 | 0.6 | 86 |
| Education |  |  |  |  |  |
| No education | 91.6 | 88.8 | 85.5 | 5.0 | 469 |
| Primary | 91.7 | 88.5 | 84.7 | 4.4 | 335 |
| Secondary | 91.2 | 87.8 | 83.6 | 4.6 | 1,580 |
| More than secondary | 90.4 | 85.6 | 80.9 | 4.9 | 444 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 92.8 | 85.5 | 84.1 | 5.7 | 548 |
| Second | 91.2 | 90.0 | 84.4 | 3.2 | 491 |
| Middle | 91.5 | 87.4 | 84.0 | 5.1 | 447 |
| Fourth | 92.7 | 88.7 | 84.7 | 3.4 | 684 |
| Highest | 88.2 | 86.9 | 81.3 | 6.2 | 657 |
| Total 15-49 | 91.2 | 87.7 | 83.6 | 4.7 | 2,828 |
| 50-59 | 91.3 | 88.1 | 83.9 | 4.5 | 658 |
| Total 15-59 | 91.2 | 87.8 | 83.7 | 4.7 | 3,485 |

Note: The term wife includes a partner with whom a man is living as if married. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed

Table 15.9.1 Attitude toward wife beating: Women
Percentage of all women age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Ghana DHS 2022

| Background characteristic | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Goes out without telling him | Neglects the children | Argues with him | Refuses to have sexual intercourse with him | Burns the food |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 11.6 | 17.1 | 11.5 | 8.0 | 4.9 | 24.7 | 2,682 |
| 20-24 | 8.6 | 12.6 | 9.3 | 6.7 | 3.7 | 19.8 | 2,695 |
| 25-29 | 9.5 | 11.9 | 9.5 | 7.5 | 3.5 | 18.5 | 2,340 |
| 30-34 | 9.5 | 11.6 | 8.6 | 6.7 | 3.0 | 17.1 | 2,252 |
| 35-39 | 9.8 | 11.6 | 8.1 | 6.0 | 3.3 | 17.7 | 2,059 |
| 40-44 | 8.8 | 10.8 | 8.1 | 7.2 | 3.4 | 16.7 | 1,675 |
| 45-49 | 10.4 | 12.5 | 9.5 | 7.7 | 4.2 | 18.0 | 1,312 |
| Employment (last 12 months) |  |  |  |  |  |  |  |
| Not employed | 9.0 | 13.7 | 9.4 | 6.8 | 3.6 | 20.5 | 3,273 |
| Employed for cash | 8.4 | 10.8 | 7.6 | 5.9 | 3.1 | 16.3 | 9,055 |
| Employed not for cash | 15.4 | 18.5 | 15.2 | 11.4 | 6.3 | 27.9 | 2,686 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 7.8 | 12.4 | 8.6 | 6.2 | 3.6 | 18.5 | 4,925 |
| 1-2 | 9.5 | 12.1 | 8.6 | 6.5 | 3.3 | 18.4 | 4,598 |
| 3-4 | 10.0 | 12.1 | 8.5 | 7.1 | 3.5 | 18.6 | 3,391 |
| 5+ | 14.5 | 16.4 | 13.9 | 10.6 | 5.6 | 24.2 | 2,100 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 7.5 | 12.0 | 7.9 | 5.4 | 3.4 | 17.8 | 5,268 |
| Married or living together | 11.6 | 13.8 | 10.6 | 8.2 | 4.1 | 20.6 | 8,205 |
| Divorced/separated/widowed | 7.6 | 10.4 | 7.3 | 6.7 | 3.3 | 17.2 | 1,542 |
| Residence |  |  |  |  |  |  |  |
| Urban | 6.3 | 9.5 | 6.4 | 4.7 | 2.5 | 14.3 | 8,557 |
| Rural | 14.4 | 17.1 | 13.2 | 10.2 | 5.4 | 25.9 | 6,457 |
| Region |  |  |  |  |  |  |  |
| Western | 6.3 | 7.5 | 6.4 | 3.5 | 0.7 | 12.6 | 955 |
| Central | 9.4 | 12.8 | 7.0 | 5.2 | 2.7 | 19.3 | 1,703 |
| Greater Accra | 1.6 | 3.3 | 3.1 | 1.9 | 0.7 | 5.8 | 2,327 |
| Volta | 5.4 | 7.7 | 3.8 | 3.4 | 1.7 | 12.7 | 713 |
| Eastern | 3.1 | 5.4 | 3.2 | 2.0 | 1.0 | 7.5 | 1,220 |
| Ashanti | 7.5 | 9.8 | 4.4 | 4.1 | 2.0 | 16.0 | 2,928 |
| Western North | 11.1 | 16.7 | 14.3 | 7.2 | 6.9 | 27.3 | 411 |
| Ahafo | 11.6 | 16.2 | 12.5 | 7.7 | 4.2 | 22.8 | 317 |
| Bono | 9.4 | 10.9 | 8.6 | 5.7 | 1.3 | 17.2 | 567 |
| Bono East | 9.7 | 13.5 | 11.3 | 5.4 | 3.9 | 19.0 | 676 |
| Oti | 15.1 | 16.7 | 8.2 | 6.5 | 4.6 | 24.1 | 403 |
| Northern | 25.9 | 33.3 | 33.0 | 25.3 | 14.8 | 47.0 | 1,149 |
| Savannah | 37.3 | 43.3 | 41.0 | 31.1 | 15.1 | 57.8 | 319 |
| North East | 24.3 | 19.1 | 21.1 | 17.2 | 6.0 | 34.4 | 290 |
| Upper East | 8.5 | 13.6 | 6.3 | 8.5 | 3.8 | 21.2 | 640 |
| Upper West | 27.3 | 36.0 | 22.3 | 22.3 | 14.0 | 48.4 | 398 |
| Education |  |  |  |  |  |  |  |
| No education | 21.4 | 24.4 | 22.4 | 18.3 | 9.3 | 35.6 | 2,411 |
| Primary | 12.5 | 16.0 | 10.9 | 9.5 | 4.3 | 24.6 | 2,071 |
| Secondary | 7.4 | 10.6 | 6.8 | 4.5 | 2.7 | 16.2 | 8,999 |
| More than secondary | 1.5 | 3.3 | 1.7 | 1.4 | 0.5 | 4.5 | 1,533 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 20.9 | 23.8 | 20.2 | 16.0 | 9.0 | 34.2 | 2,447 |
| Second | 13.9 | 17.1 | 13.7 | 9.8 | 5.6 | 26.6 | 2,712 |
| Middle | 9.7 | 13.0 | 9.0 | 6.6 | 3.5 | 20.3 | 3,121 |
| Fourth | 5.9 | 9.6 | 5.2 | 4.2 | 1.4 | 14.2 | 3,379 |
| Highest | 2.3 | 4.3 | 2.4 | 1.9 | 0.9 | 6.6 | 3,355 |
| Total | 9.8 | 12.8 | 9.3 | 7.1 | 3.7 | 19.3 | 15,014 |

Note: The term husband includes a partner with whom a woman is living as if married.

Table 15.9.2 Attitude toward wife beating: Men
Percentage of all men age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Ghana DHS 2022

| Background characteristic | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Goes out without telling him | Neglects the children | Argues with him | Refuses to have sexual intercourse with him | Burns the food |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 10.2 | 16.7 | 13.1 | 7.6 | 3.9 | 25.9 | 1,424 |
| 20-24 | 6.1 | 9.8 | 9.4 | 4.2 | 1.9 | 17.6 | 1,033 |
| 25-29 | 6.1 | 7.7 | 6.9 | 4.1 | 1.7 | 13.3 | 888 |
| 30-34 | 5.4 | 6.3 | 4.7 | 2.5 | 1.4 | 10.8 | 853 |
| 35-39 | 6.2 | 7.6 | 4.7 | 2.8 | 1.3 | 12.0 | 809 |
| 40-44 | 5.7 | 8.8 | 7.2 | 3.2 | 0.9 | 11.9 | 713 |
| 45-49 | 4.1 | 4.5 | 4.2 | 2.1 | 0.7 | 9.0 | 557 |
| Employment (last 12 months) |  |  |  |  |  |  |  |
| Not employed | 6.5 | 11.2 | 8.7 | 5.6 | 3.1 | 17.7 | 899 |
| Employed for cash | 5.7 | 7.7 | 6.5 | 3.3 | 1.3 | 13.1 | 4,679 |
| Employed not for cash | 13.6 | 21.3 | 16.7 | 8.8 | 4.7 | 31.4 | 699 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 7.2 | 11.3 | 9.5 | 5.3 | 2.7 | 18.4 | 3,270 |
| 1-2 | 5.8 | 7.6 | 5.8 | 3.0 | 1.2 | 12.6 | 1,356 |
| 3-4 | 4.9 | 7.0 | 5.0 | 2.2 | 0.8 | 10.5 | 1,014 |
| 5+ | 9.2 | 10.5 | 9.0 | 4.6 | 1.6 | 17.9 | 636 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 6.8 | 11.3 | 9.5 | 5.2 | 2.7 | 18.3 | 3,208 |
| Married or living together | 6.5 | 8.1 | 6.1 | 3.2 | 1.2 | 13.0 | 2,828 |
| Divorced/separated/widowed | 8.0 | 8.2 | 8.7 | 3.0 | 0.8 | 16.6 | 242 |
| Residence |  |  |  |  |  |  |  |
| Urban | 4.1 | 5.8 | 5.3 | 2.3 | 1.0 | 10.2 | 3,442 |
| Rural | 9.8 | 14.5 | 11.1 | 6.6 | 3.1 | 22.7 | 2,835 |
| Region |  |  |  |  |  |  |  |
| Western | 7.0 | 12.7 | 17.3 | 3.3 | 4.2 | 24.2 | 414 |
| Central | 7.4 | 11.4 | 6.9 | 3.8 | 1.4 | 15.6 | 686 |
| Greater Accra | 1.3 | 1.9 | 1.5 | 0.6 | 0.6 | 3.5 | 1,076 |
| Volta | 1.7 | 4.1 | 2.5 | 1.0 | 0.8 | 6.0 | 235 |
| Eastern | 6.5 | 10.6 | 7.7 | 2.0 | 0.6 | 15.8 | 466 |
| Ashanti | 3.4 | 7.1 | 3.1 | 2.5 | 0.9 | 11.3 | 1,179 |
| Western North | 5.1 | 5.1 | 6.3 | 3.4 | 1.3 | 11.3 | 181 |
| Ahafo | 5.6 | 9.2 | 10.0 | 4.8 | 2.8 | 17.0 | 133 |
| Bono | 6.3 | 12.3 | 8.7 | 5.0 | 3.0 | 15.9 | 222 |
| Bono East | 3.7 | 4.0 | 6.7 | 2.8 | 0.2 | 10.0 | 316 |
| Oti | 9.2 | 8.2 | 8.8 | 4.2 | 1.9 | 19.1 | 187 |
| Northern | 19.1 | 24.4 | 19.7 | 12.2 | 4.6 | 37.4 | 484 |
| Savannah | 25.1 | 22.7 | 26.7 | 20.1 | 6.1 | 43.2 | 155 |
| North East | 11.8 | 13.5 | 14.6 | 9.0 | 3.8 | 21.4 | 119 |
| Upper East | 7.4 | 11.8 | 8.4 | 8.3 | 4.3 | 19.5 | 267 |
| Upper West | 17.9 | 25.2 | 16.3 | 9.8 | 5.8 | 36.5 | 155 |
| Education |  |  |  |  |  |  |  |
| No education | 15.0 | 16.2 | 15.8 | 9.1 | 3.1 | 27.9 | 628 |
| Primary | 12.0 | 15.8 | 13.3 | 7.5 | 3.9 | 23.8 | 725 |
| Secondary | 5.8 | 9.4 | 7.3 | 3.7 | 1.8 | 15.3 | 3,990 |
| More than secondary | 1.2 | 2.2 | 1.3 | 0.7 | 0.5 | 3.8 | 935 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 13.2 | 16.8 | 14.1 | 10.2 | 4.4 | 27.1 | 1,089 |
| Second | 11.2 | 16.1 | 11.8 | 6.3 | 3.5 | 24.2 | 1,133 |
| Middle | 6.9 | 9.3 | 9.8 | 3.2 | 1.0 | 17.1 | 1,137 |
| Fourth | 3.6 | 6.3 | 4.4 | 1.9 | 0.7 | 10.6 | 1,466 |
| Highest | 1.4 | 3.3 | 2.3 | 1.3 | 0.9 | 5.1 | 1,453 |
| Total 15-49 | 6.7 | 9.7 | 7.9 | 4.2 | 1.9 | 15.8 | 6,277 |
| 50-59 | 6.4 | 5.0 | 4.9 | 3.5 | 0.4 | 10.3 | 767 |
| Total 15-59 | 6.7 | 9.2 | 7.6 | 4.2 | 1.8 | 15.2 | 7,044 |

Note: The term wife includes a partner with whom a man is living as if married.

Table 15.10 Attitudes toward negotiating safer sexual relations with husband
Percentage of women and men age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sexual intercourse with other women, and percentage who believe that a woman is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection (STI), according to background characteristics, Ghana DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of women | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of men |
| Age |  |  |  |  |  |  |
| 15-24 | 72.3 | 84.2 | 5,376 | 69.4 | 85.7 | 2,458 |
| 15-19 | 72.0 | 82.3 | 2,682 | 67.5 | 82.6 | 1,424 |
| 20-24 | 72.6 | 86.0 | 2,695 | 72.0 | 89.9 | 1,033 |
| 25-29 | 71.4 | 87.0 | 2,340 | 69.4 | 86.7 | 888 |
| 30-39 | 70.5 | 84.8 | 4,311 | 71.3 | 89.1 | 1,662 |
| 40-49 | 69.4 | 83.9 | 2,987 | 72.9 | 87.3 | 1,270 |
| Marital status |  |  |  |  |  |  |
| Never married | 75.0 | 86.5 | 5,268 | 70.7 | 86.1 | 3,208 |
| Ever had sex | 77.7 | 90.3 | 3,134 | 75.3 | 89.0 | 1,922 |
| Never had sex | 71.0 | 81.0 | 2,134 | 63.9 | 81.6 | 1,286 |
| Married/living together | 68.0 | 83.0 | 8,205 | 69.9 | 88.1 | 2,828 |
| Divorced/separated/widowed | 73.9 | 87.8 | 1,542 | 78.7 | 88.3 | 242 |
| Residence |  |  |  |  |  |  |
| Urban | 75.2 | 87.7 | 8,557 | 73.3 | 88.9 | 3,442 |
| Rural | 65.7 | 80.8 | 6,457 | 67.4 | 84.9 | 2,835 |
| Region |  |  |  |  |  |  |
| Western | 61.0 | 82.6 | 955 | 67.9 | 90.3 | 414 |
| Central | 78.6 | 95.1 | 1,703 | 77.8 | 85.3 | 686 |
| Greater Accra | 84.5 | 88.5 | 2,327 | 80.6 | 92.1 | 1,076 |
| Volta | 70.0 | 86.9 | 713 | 71.3 | 92.9 | 235 |
| Eastern | 74.6 | 87.3 | 1,220 | 77.3 | 95.5 | 466 |
| Ashanti | 75.1 | 92.4 | 2,928 | 70.1 | 90.5 | 1,179 |
| Western North | 78.2 | 88.2 | 411 | 75.3 | 81.0 | 181 |
| Ahafo | 75.3 | 92.9 | 317 | 72.7 | 93.0 | 133 |
| Bono | 68.7 | 81.4 | 567 | 72.2 | 89.3 | 222 |
| Bono East | 73.3 | 81.5 | 676 | 64.1 | 80.2 | 316 |
| Oti | 66.7 | 85.1 | 403 | 72.1 | 88.8 | 187 |
| Northern | 50.1 | 67.7 | 1,149 | 49.2 | 74.6 | 484 |
| Savannah | 55.4 | 70.9 | 319 | 51.1 | 72.0 | 155 |
| North East | 35.8 | 54.3 | 290 | 56.7 | 73.3 | 119 |
| Upper East | 58.6 | 63.7 | 640 | 64.0 | 81.0 | 267 |
| Upper West | 58.6 | 72.2 | 398 | 69.8 | 77.2 | 155 |
| Education |  |  |  |  |  |  |
| No education | 53.6 | 69.4 | 2,411 | 56.5 | 72.6 | 628 |
| Primary | 69.1 | 81.8 | 2,071 | 65.0 | 81.3 | 725 |
| Secondary | 75.0 | 88.2 | 8,999 | 72.8 | 89.3 | 3,990 |
| More than secondary | 78.1 | 92.4 | 1,533 | 75.0 | 91.8 | 935 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 57.3 | 71.5 | 2,447 | 59.1 | 76.8 | 1,089 |
| Second | 65.9 | 80.7 | 2,712 | 68.4 | 87.1 | 1,133 |
| Middle | 75.3 | 86.8 | 3,121 | 71.8 | 85.9 | 1,137 |
| Fourth | 75.8 | 89.7 | 3,379 | 74.8 | 91.2 | 1,466 |
| Highest | 76.7 | 90.8 | 3,355 | 75.9 | 91.4 | 1,453 |
| Total 15-49 | 71.1 | 84.7 | 15,014 | 70.6 | 87.1 | 6,277 |
| 50-59 | na | na | na | 74.4 | 83.8 | 767 |
| Total 15-59 | na | na | na | 71.0 | 86.7 | 7,044 |

na $=$ not applicable

Table 15.11 Ability to negotiate sexual relations with husband
Percentage of currently married women age 15-49 who can say no to their husband if they do not want to have sexual intercourse, and percentage who can ask their husband to use a condom, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who can say no to their husband if they do not want to have sexual intercourse | Percentage who can ask their husband to use a condom | Number of women |
| :---: | :---: | :---: | :---: |
| Age |  |  |  |
| 15-24 | 69.5 | 68.9 | 1,207 |
| 15-19 | 66.7 | 63.4 | 194 |
| 20-24 | 70.1 | 69.9 | 1,013 |
| 25-29 | 71.2 | 70.1 | 1,457 |
| 30-39 | 74.2 | 73.0 | 3,360 |
| 40-49 | 71.5 | 66.2 | 2,180 |
| Residence |  |  |  |
| Urban | 77.5 | 77.6 | 4,248 |
| Rural | 66.6 | 61.9 | 3,956 |
| Region |  |  |  |
| Western | 81.5 | 66.6 | 487 |
| Central | 72.3 | 82.4 | 816 |
| Greater Accra | 84.9 | 86.5 | 1,144 |
| Volta | 79.5 | 74.5 | 375 |
| Eastern | 75.5 | 76.6 | 633 |
| Ashanti | 64.0 | 68.8 | 1,426 |
| Western North | 65.3 | 57.9 | 231 |
| Ahafo | 74.2 | 71.6 | 183 |
| Bono | 79.4 | 73.8 | 284 |
| Bono East | 70.9 | 64.4 | 376 |
| Oti | 80.5 | 66.3 | 248 |
| Northern | 66.1 | 53.6 | 870 |
| Savannah | 61.6 | 49.1 | 218 |
| North East | 55.3 | 46.0 | 229 |
| Upper East | 68.2 | 68.2 | 426 |
| Upper West | 68.9 | 64.9 | 258 |
| Education |  |  |  |
| No education | 59.1 | 49.3 | 2,015 |
| Primary | 72.6 | 65.5 | 1,233 |
| Secondary | 75.6 | 77.6 | 4,174 |
| More than secondary | 87.8 | 90.2 | 783 |
| Wealth quintile |  |  |  |
| Lowest | 62.0 | 53.7 | 1,662 |
| Second | 67.9 | 61.2 | 1,513 |
| Middle | 73.5 | 72.3 | 1,545 |
| Fourth | 74.7 | 78.4 | 1,743 |
| Highest | 82.3 | 83.1 | 1,742 |
| Total | 72.3 | 70.1 | 8,205 |

Note: The term husband includes a partner with whom a woman is living as if married.

Table 15.12 Women's participation in decision making regarding sexual and reproductive health

Percentage of currently married women age 15-49 years who make their own informed decisions regarding sexual relations, contraceptive use, and reproductive health care, Ghana DHS 2022

| Background characteristic | Percentage who make decisions regarding sexual relations, contraceptive use, and reproductive care ${ }^{1}$ | Number of currently married women |
| :---: | :---: | :---: |
| Age |  |  |
| 15-19 | 32.4 | 194 |
| 20-24 | 43.7 | 1,013 |
| 25-29 | 48.1 | 1,457 |
| 30-34 | 55.2 | 1,719 |
| 35-39 | 55.5 | 1,641 |
| 40-44 | 51.5 | 1,239 |
| 45-49 | 57.3 | 941 |
| Employment (last 12 months) |  |  |
| Not employed | 34.4 | 986 |
| Employed for cash | 57.4 | 5,832 |
| Employed not for cash | 40.2 | 1,387 |
| Residence |  |  |
| Urban | 59.3 | 4,248 |
| Rural | 43.6 | 3,956 |
| Region |  |  |
| Western | 69.0 | 487 |
| Central | 59.4 | 816 |
| Greater Accra | 69.0 | 1,144 |
| Volta | 54.5 | 375 |
| Eastern | 42.1 | 633 |
| Ashanti | 47.8 | 1,426 |
| Western North | 40.5 | 231 |
| Ahafo | 37.4 | 183 |
| Bono | 61.7 | 284 |
| Bono East | 50.9 | 376 |
| Oti | 50.5 | 248 |
| Northern | 40.1 | 870 |
| Savannah | 39.1 | 218 |
| North East | 28.5 | 229 |
| Upper East | 52.5 | 426 |
| Upper West | 40.8 | 258 |
| Education |  |  |
| No education | 35.7 | 2,015 |
| Primary | 50.3 | 1,233 |
| Secondary | 55.6 | 4,174 |
| More than secondary | 74.5 | 783 |
| Wealth quintile |  |  |
| Lowest | 38.4 | 1,662 |
| Second | 43.3 | 1,513 |
| Middle | 51.2 | 1,545 |
| Fourth | 56.4 | 1,743 |
| Highest | 67.6 | 1,742 |
| Total | 51.7 | 8,205 |

${ }^{1}$ Percentages of currently married women who make decisions regarding sexua relations, contraceptive use, and health care are presented in Table 15.11, Table 7.17, and Table 15.8.1, respectively.

## Key Findings

- Drinking water sources, availability, and treatment: $84 \%$ of de jure household members have at least basic drinking water service, $81 \%$ report that they have enough drinking water, and $92 \%$ do not use any method or treatment to make their water safer to drink.
- Person collecting drinking water: In the $60 \%$ of households that do not have drinking water on the premises, the person responsible for collecting drinking water is most often a female adult age 15 or older (62\%).
- Sanitation: 69\% of households have an improved sanitation facility, while $19 \%$ have no sanitation facility or practice open defecation. Overall, $24 \%$ of the household population has at least basic sanitation service.
- Management of excreta: $58 \%$ of household members manage their excreta appropriately.
- Handwashing: Overall, $44 \%$ of the household population has access to a basic handwashing facility.
- Menstrual hygiene: $88 \%$ of women use disposable sanitary pads; nearly all women were able to wash and change in privacy during their last menstruation.

TThe extent to which households have access to and use safe drinking water and sanitation facilities and engage in hygienic practices has profound implications for the health, safety, and overall wellbeing of the population. This chapter presents information on source of drinking water, type of sanitation facility, disposal of excreta (including disposal of young children's stools), handwashing, and menstrual hygiene.

### 16.1 Drinking Water Sources, Availability, and Treatment

## Improved sources of drinking water

Include piped water, public taps, standpipes, tube wells, boreholes, protected dug wells and springs, rainwater, water delivered via tanker truck or a cart with a small tank, and bottled and sachet water.
Sample: Households and de jure population
Improved sources of water protect against outside contamination so that water is more likely to be safe to drink. Table $\mathbf{1 6 . 1}$ shows that $91 \%$ of households use improved sources of drinking water. Sachet water is the most common improved drinking water used by households ( $41 \%$ ), followed by tube wells or boreholes ( $20 \%$ ) and public taps/standpipes ( $11 \%$ ). Seven percent of households use surface water as their main source of drinking water.

Forty-four percent of households have water on the premises, and $50 \%$ report traveling 30 minutes or less (round trip) to obtain drinking water.

Trends: The percentage of households with drinking water from an improved source increased from $56 \%$ in 1993 to $91 \%$ in 2022.

### 16.1.1 Drinking Water Service Ladder

## Drinking water service ladder <br> Safely managed

Drinking water from an improved water source that is located on the premises, available when needed, and free from faecal and priority chemical contamination.

## Basic

Drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less.

## Limited

Drinking water from an improved source, and round-trip collection time is more than 30 minutes.

## Unimproved

Drinking water from an unprotected dug well or unprotected spring.

## Surface water

Drinking water directly from a river, dam, lake, pond, stream, canal, or irrigation canal.
Sample: De jure population

Building off the classification of drinking water sources as improved or unimproved, the Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) has devised a five-rung drinking water service ladder to benchmark and compare progress towards achieving Sustainable Development Goal (SDG) targets (WHO/UNICEF 2018). The 2022 GDHS captured information on four out of the five rungs; because the survey did not include testing drinking water for faecal or chemical contamination, safely managed and basic drinking water services cannot be distinguished and are grouped together in Table 16.2 as "at least basic service."

Figure 16.1 Household population drinking water service

Percent distribution of de jure population by drinking water


Overall, $84 \%$ of the population has access to at least basic drinking water service. Three percent of household residents use drinking water from an unimproved source, $4 \%$ have limited service, and $9 \%$ use surface water as their main source of drinking water (Table 16.2 and Figure 16.1). These numbers are calculated for the de jure population to report on SDG indicators. Subnational estimates of access to at least basic drinking water service can be seen in Map 16.1.

Trends: The population living in households with at least basic water service increased from $52 \%$ in 1993 to $84 \%$ in 2022.

## Map 16.1 At least basic drinking water service by region

Percentage of household population with at least basic drinking water service


Figure 16.2 Person collecting drinking water

Among de jure household population without drinking water on premises, percent distribution by person who collects drinking water


### 16.1.3 Availability of Drinking Water

## Availability of sufficient drinking water

Percentage of the population with sufficient quantities of drinking water in the last month.
Sample: De jure population

The majority ( $81 \%$ ) of the population has sufficient quantities of drinking water (Table 16.4).

### 16.1.4 Treatment of Drinking Water

Table 16.5 shows that only $5 \%$ of household members who use an unimproved source of water and $6 \%$ of those who drink surface water use an appropriate treatment method (boiling, bleaching, filtering, or solar disinfecting). Eighty-two percent of household members who use an unimproved source of drinking water and $84 \%$ of household members using surface water do not use an appropriate method to treat their drinking water.

### 16.2 Sanitation

## Improved sanitation facilities

Include flush/pour flush toilets that flush water and waste to a piped sewer system, septic tank, pit latrine, or unknown destination; ventilated improved pit (VIP) latrines; pit latrines with slabs; and composting toilets.
Sample: Households and de jure population

Table 16.6 shows that $69 \%$ of households have improved toilet facilities, which are facilities that prevent people from coming into contact with human waste and can reduce the transmission of cholera, typhoid, and other diseases. Toilets that flush/pour flush water and waste to a septic tank are the most common type of sanitation facility (24\%), followed by ventilated improved pit (VIP) latrines (19\%) and pit latrines with slabs ( $18 \%$ ). Twelve percent of households use unimproved toilet facilities.

One in five households ( $20 \%$ ) have toilet facilities in their own dwelling, and $42 \%$ have facilities in their own yard/plot; $38 \%$ of households use toilet facilities located elsewhere (Table 16.6).

Trends: The percentage of households with an improved toilet facility increased from $21 \%$ in 1993 to $69 \%$ in 2022.

### 16.2.1 Sanitation Service Ladder

## Sanitation service ladder

## Safely managed

Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or transported and treated off-site.

## Basic

Use of improved facilities that are not shared with other households.

## Limited

Use of improved facilities shared by two or more households.

## Unimproved

Use of pit latrines without a slab or platform, hanging latrines, or bucket latrines.
Open defecation
Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches, or other open spaces or with solid waste.
Sample: De jure population

The JMP has also devised a five-rung sanitation service ladder to benchmark and compare progress towards achieving SDG targets related to sanitation. The 2022 GDHS captured information about all five rungs. However, for those households whose excreta were taken off-site, it is not possible to know if they were treated appropriately; therefore, safely managed and basic sanitation services are grouped together in Table 16.7 as "at least basic service."

Overall, only $24 \%$ of the population has at least basic sanitation service, while $39 \%$ has limited service, $12 \%$ has unimproved sanitation, and $25 \%$ has no sanitation facility or practices open defecation (Table 16.7 and Figure 16.3).

Trends: The percentage of the population with at least basic sanitation service increased from $7 \%$ in 2003 to $24 \%$ in 2022.

### 16.2.2 Removal and Disposal of Excreta

Figure 16.3 Household population sanitation service

| Percent distribution of de jure <br> population by sanitation service <br> ladder |  |
| :---: | :---: |
| 25 | Open <br> defecation |
| 12 | Unimproved |
| 39 | Limited <br> service |
|  | ■ At least basic <br> service |
| 24 | Total |

## Disposal of excreta from on-site facilities

## Excreta safely disposed of in situ

Includes septic tanks and latrines in which waste is buried in a covered pit, waste is never emptied, and it is unknown if waste is ever emptied.

## Excreta disposed of unsafely

Includes septic tanks and latrines in which waste is emptied to uncovered pits, open ground, a water body, or other locations.

## Excreta removed for treatment

Includes septic tanks and latrines in which waste is removed by a service provider to a treatment plant or an unknown location or is removed by a nonservice provider to an unknown location.
Sample: De jure population with on-site sanitation facilities (septic tanks, pit latrines, and composting toilets)

Information on the disposal of excreta from sanitation facilities that are not connected to a sewer system is essential for assessing the proportion of the population using safely managed sanitation services.

Among de jure residents living in households with septic tanks, $20 \%$ have their excreta removed by a service provider to an unknown location and $69 \%$ have never emptied their septic tanks. Among residents living in households with on-site sanitation facilities, $75 \%$ safely dispose of their excreta in situ and $24 \%$ have their excreta removed for treatment (Table 16.8).

Slightly less than half (45\%) of the household population safely disposes of excreta from on-site sanitation facilities in situ, and $12 \%$ removes excreta for treatment off-site. Twelve percent of the household population uses unimproved sanitation facilities, and $25 \%$ practices open defecation. Overall, $58 \%$ of household members manage their excreta appropriately (Table 16.9 and Figure 16.4).

Figure 16.4 Appropriate management of household excreta

Percent distribution of household population by management of household excreta


### 16.3 Disposal of Children’s Stools

Appropriate disposal of children's stools
The child's last stools were put or rinsed into a toilet or latrine, or the child used a toilet or latrine.
Sample: Youngest children under age 2 living with their mother

Proper disposal of human waste is important to prevent diseases transmitted through faeces. Only $16 \%$ of children under age 2 living with their mother had their last stool disposed of appropriately. Fifteen percent of children's last stools were put/rinsed into a toilet or latrine, while $65 \%$ were thrown into the garbage, $8 \%$ were put/rinsed into a drain or ditch, and $3 \%$ were left in the open (Table 16.10).

### 16.4 Handwashing

## Handwashing facilities

## Basic

Availability of a handwashing facility on the premises with soap and water.

## Limited

Availability of a handwashing facility on the premises without soap and water.
Sample: De jure population for whom a place for handwashing was observed or with no place for handwashing in dwelling, yard, or plot; excludes the de jure population for whom permission to see the facility was not granted

Handwashing is an important step in monitoring hygiene and preventing the spread of disease. Rather than asking direct questions on the practice of handwashing, which can be subject to overreporting, interviewers asked to see the place where members of the household most often washed their hands. A place for washing hands was observed for $87 \%$ of the de jure population (Table 16.11). Of the handwashing places observed, $19 \%$ were in a fixed location and $69 \%$ were mobile.

According to the definition of handwashing facilities developed by the JMP, $44 \%$ of the population has a basic handwashing facility and $46 \%$ has a limited handwashing facility. Among the population living in households where handwashing facilities were observed, $50 \%$ had soap available and $66 \%$ had water available.

### 16.5 Menstrual Hygiene

## Appropriate menstrual hygiene materials

Reusable sanitary pads, disposable sanitary pads, tampons, menstrual cup, cloth, toilet paper, and/or cotton wool.
Sample: Women age 15-49 with a menstrual period in the last year
Privacy and use of appropriate menstrual hygiene materials
Percentage of women who were able to wash and change in privacy and who used appropriate materials during their last menstruation.
Sample: Women age 15-49 with a menstrual period in the last year who were home during their last menstrual period

Using appropriate menstrual hygiene materials is important for women's health in general and their menstrual health in particular. In the 2022 GDHS, women age 15-49 were asked what materials they use for menstrual hygiene. Eighty-eight percent of women use disposable sanitary pads, $9 \%$ use cloth, and $2 \%$ use reusable sanitary pads (Table 16.12).

Women were also asked if they were able to wash and change in privacy during their last menstrual period; $98 \%$ of respondents reported that they were able to do so. Overall, $97 \%$ of women were able to wash and change in privacy and used appropriate materials during their last menstrual period (Table 16.12).

## List of Tables

For more information on water and sanitation characteristics, see the following tables:

- Table 16.1 Household drinking water
- Table 16.2 Drinking water service ladder
- Table 16.3 Person collecting drinking water
- Table 16.4 Availability of sufficient drinking water
- Table 16.5 Treatment of household drinking water
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- Table 16.9 Management of household excreta
- Table 16.10 Disposal of children's stools
- Table 16.11 Handwashing
- Table 16.12 Menstrual hygiene

Table 16.1 Household drinking water
Percent distribution of households and de jure population by source of drinking water and by time to obtain drinking water, according to residence, Ghana DHS 2022

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Source of drinking water |  |  |  |  |  |  |
| Improved source | 98.3 | 80.0 | 90.5 | 97.5 | 77.4 | 87.9 |
| Piped into dwelling/yard/plot | 9.2 | 4.2 | 7.1 | 9.9 | 4.1 | 7.2 |
| Piped to neighbour | 5.2 | 3.5 | 4.5 | 6.0 | 3.0 | 4.6 |
| Public tap/standpipe | 8.4 | 15.2 | 11.3 | 10.2 | 16.4 | 13.1 |
| Tube well or borehole | 9.4 | 33.2 | 19.5 | 11.5 | 35.4 | 22.9 |
| Protected dug well | 2.9 | 4.4 | 3.5 | 3.6 | 4.7 | 4.2 |
| Protected spring | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
| Rainwater | 0.4 | 1.1 | 0.7 | 0.4 | 0.8 | 0.6 |
| Tanker truck/cart with small tank | 0.2 | 0.0 | 0.1 | 0.3 | 0.0 | 0.2 |
| Bottled water | 3.9 | 0.5 | 2.4 | 2.5 | 0.3 | 1.4 |
| Sachet water | 58.5 | 17.6 | 41.1 | 53.0 | 12.4 | 33.6 |
| Unimproved source | 0.8 | 4.1 | 2.2 | 1.1 | 4.4 | 2.7 |
| Unprotected dug well | 0.8 | 2.6 | 1.5 | 1.1 | 2.8 | 1.9 |
| Unprotected spring | 0.0 | 1.5 | 0.6 | 0.1 | 1.6 | 0.8 |
| Surface water | 0.9 | 15.9 | 7.3 | 1.3 | 18.2 | 9.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Time to obtain drinking water (round trip) |  |  |  |  |  |  |
| Water on premises ${ }^{1}$ | 62.5 | 20.0 | 44.4 | 60.9 | 17.3 | 40.1 |
| 30 minutes or less | 35.1 | 71.2 | 50.4 | 36.0 | 71.9 | 53.1 |
| More than 30 minutes | 2.0 | 8.6 | 4.8 | 2.7 | 10.6 | 6.5 |
| Don't know | 0.4 | 0.2 | 0.3 | 0.4 | 0.1 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 10,320 | 7,613 | 17,933 | 33,294 | 30,317 | 63,611 |

${ }^{1}$ Includes water piped to a neighbour and those reporting a round-trip collection time of zero minutes

Table 16.2 Drinking water service ladder
Percent distribution of de jure population by drinking water service ladder, according to background characteristics, Ghana DHS 2022
$\left.\begin{array}{lcccccc}\hline \begin{array}{l}\text { Background } \\ \text { characteristic }\end{array} & \begin{array}{c}\text { At least basic } \\ \text { service }\end{array} & \begin{array}{l}\text { Limited } \\ \text { service }^{2}\end{array} & & \text { Unimproved }{ }^{3} & \begin{array}{c}\text { Surface } \\ \text { water }\end{array} & \text { Total }\end{array} \begin{array}{c}\text { Number of } \\ \text { persons }\end{array}\right]$

Note: Service ladder concept/definitions are based on the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP)
${ }^{1}$ Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.
${ }^{2}$ Drinking water from an improved source, and round-trip collection time is more than 30 minutes or is unknown
${ }^{3}$ Drinking water from an unprotected dug well or unprotected spring

Table 16.3 Person collecting drinking water
Percentage of de jure population in households without drinking water on premises, and percent distribution of de jure population in households without drinking water on premises by the person who usually collects drinking water used in the household, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of de jure population without drinking water on premises ${ }^{1}$ | Number of persons | Person who usually collects drinking water |  |  |  |  | Total | Number of persons without drinking water on premises ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Adult female age 15 or older | Adult male age 15 or older | Female child under age 15 | Male child under age 15 | Person not in household |  |  |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 39.1 | 33,294 | 56.2 | 17.4 | 11.1 | 8.6 | 6.7 | 100.0 | 13,023 |
| Rural | 82.7 | 30,317 | 65.2 | 12.0 | 11.9 | 6.9 | 4.0 | 100.0 | 25,073 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 66.1 | 3,944 | 49.0 | 17.8 | 17.0 | 9.4 | 6.9 | 100.0 | 2,607 |
| Central | 61.2 | 6,957 | 50.1 | 16.6 | 13.3 | 13.2 | 6.8 | 100.0 | 4,257 |
| Greater Accra | 22.0 | 9,217 | 43.0 | 27.6 | 8.1 | 12.1 | 9.2 | 100.0 | 2,029 |
| Volta | 47.1 | 2,902 | 62.8 | 14.0 | 9.5 | 8.4 | 5.2 | 100.0 | 1,367 |
| Eastern | 60.1 | 5,234 | 48.6 | 20.5 | 13.9 | 8.9 | 8.1 | 100.0 | 3,148 |
| Ashanti | 56.8 | 11,844 | 54.3 | 16.9 | 13.4 | 10.5 | 4.9 | 100.0 | 6,727 |
| Western North | 77.9 | 1,775 | 53.7 | 19.4 | 11.0 | 12.6 | 3.2 | 100.0 | 1,383 |
| Ahafo | 78.5 | 1,397 | 59.7 | 16.0 | 12.6 | 6.1 | 5.6 | 100.0 | 1,097 |
| Bono | 63.9 | 2,262 | 66.9 | 9.6 | 14.3 | 4.7 | 4.4 | 100.0 | 1,445 |
| Bono East | 65.3 | 2,831 | 77.2 | 9.8 | 8.0 | 2.8 | 2.2 | 100.0 | 1,849 |
| Oti | 83.5 | 1,937 | 72.8 | 9.7 | 11.7 | 2.9 | 2.9 | 100.0 | 1,618 |
| Northern | 72.9 | 5,493 | 84.8 | 4.2 | 6.1 | 2.4 | 2.6 | 100.0 | 4,005 |
| Savannah | 89.8 | 1,586 | 74.5 | 7.1 | 11.2 | 2.1 | 5.0 | 100.0 | 1,425 |
| North East | 86.5 | 1,552 | 80.7 | 6.0 | 6.7 | 3.5 | 3.1 | 100.0 | 1,343 |
| Upper East | 77.8 | 2,904 | 75.0 | 8.9 | 10.6 | 4.3 | 1.2 | 100.0 | 2,261 |
| Upper West | 86.5 | 1,774 | 74.1 | 6.7 | 14.4 | 0.9 | 3.8 | 100.0 | 1,535 |
| Source of drinking water ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Improved | 55.0 | 55,937 | 60.6 | 14.5 | 12.0 | 7.6 | 5.2 | 100.0 | 30,787 |
| Unimproved | 82.2 | 1,704 | 61.3 | 14.6 | 11.5 | 8.1 | 4.5 | 100.0 | 1,400 |
| Surface | 99.0 | 5,970 | 70.1 | 10.3 | 9.6 | 6.6 | 3.3 | 100.0 | 5,910 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 93.6 | 12,721 | 71.4 | 9.7 | 10.9 | 4.7 | 3.3 | 100.0 | 11,907 |
| Second | 82.8 | 12,725 | 63.6 | 13.6 | 12.1 | 7.4 | 3.4 | 100.0 | 10,542 |
| Middle | 63.1 | 12,719 | 58.9 | 14.1 | 12.4 | 10.0 | 4.6 | 100.0 | 8,025 |
| Fourth | 42.4 | 12,726 | 51.2 | 21.0 | 11.8 | 8.7 | 7.3 | 100.0 | 5,401 |
| Highest | 17.5 | 12,719 | 43.8 | 18.9 | 10.3 | 10.4 | 16.6 | 100.0 | 2,222 |
| Total | 59.9 | 63,611 | 62.1 | 13.9 | 11.6 | 7.4 | 4.9 | 100.0 | 38,096 |

${ }^{1}$ Excludes water piped to a neighbour and those reporting a round-trip collection time of zero minutes

Table 16.4 Availability of sufficient drinking water
Percentage of de jure population with sufficient quantities of drinking water when needed, according to background characteristics, Ghana DHS 2022

${ }^{1}$ Defined as having sufficient quantities of drinking water in the last month
2 Includes water piped to a neighbour and those reporting a round-trip collection time of zero minutes

Table 16.5 Treatment of household drinking water
Percentage of de jure population using various methods to treat drinking water, and percentage using an appropriate treatment method, according to background characteristics, Ghana DHS 2022

| Background characteristic | Boiled | Bleach/ chlorine added | Strained through cloth | Ceramic, sand, or other filter | Solar disinfection | Let stand and settle | Other | Don't know | No treatment | Percentage using an appropriate treatment method ${ }^{1}$ | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { persons } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.5 | 1.6 | 0.6 | 0.7 | 0.0 | 0.8 | 2.7 | 0.1 | 92.5 | 3.7 | 33,294 |
| Rural | 2.0 | 0.8 | 1.9 | 0.3 | 0.1 | 2.0 | 2.7 | 0.1 | 91.4 | 3.1 | 30,317 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| Western | 0.6 | 0.6 | 0.5 | 0.3 | 0.0 | 1.4 | 0.9 | 0.0 | 96.0 | 1.5 | 3,944 |
| Central | 1.9 | 0.1 | 0.9 | 0.1 | 0.0 | 2.4 | 3.6 | 0.0 | 91.9 | 2.2 | 6,957 |
| Greater Accra | 0.8 | 0.0 | 0.5 | 0.6 | 0.0 | 0.5 | 0.6 | 0.1 | 97.4 | 1.4 | 9,217 |
| Volta | 2.1 | 0.6 | 4.7 | 0.3 | 0.0 | 1.9 | 3.7 | 0.0 | 88.8 | 3.0 | 2,902 |
| Eastern | 2.1 | 3.0 | 0.8 | 0.3 | 0.0 | 4.0 | 3.5 | 0.0 | 86.6 | 5.2 | 5,234 |
| Ashanti | 2.6 | 3.1 | 0.6 | 1.2 | 0.0 | 0.7 | 4.7 | 0.4 | 87.5 | 6.8 | 11,844 |
| Western North | 4.0 | 1.5 | 1.3 | 0.2 | 0.1 | 3.0 | 2.1 | 0.1 | 89.3 | 5.7 | 1,775 |
| Ahafo | 3.1 | 0.4 | 1.0 | 0.2 | 0.0 | 0.9 | 1.4 | 0.0 | 93.4 | 3.6 | 1,397 |
| Bono | 0.3 | 0.4 | 0.2 | 0.2 | 0.0 | 0.5 | 0.3 | 0.0 | 98.3 | 0.9 | 2,262 |
| Bono East | 0.5 | 0.9 | 1.1 | 0.0 | 0.0 | 0.9 | 1.7 | 0.1 | 95.2 | 1.4 | 2,831 |
| Oti | 3.8 | 0.6 | 2.6 | 0.5 | 0.0 | 1.6 | 2.5 | 0.0 | 91.0 | 4.6 | 1,937 |
| Northern | 2.0 | 1.2 | 2.3 | 0.5 | 0.4 | 1.1 | 2.8 | 0.0 | 91.6 | 3.8 | 5,493 |
| Savannah | 1.2 | 1.3 | 4.3 | 0.3 | 0.0 | 0.8 | 2.9 | 0.0 | 90.2 | 2.8 | 1,586 |
| North East | 1.3 | 1.0 | 4.3 | 0.0 | 0.0 | 0.6 | 3.7 | 0.0 | 89.7 | 2.3 | 1,552 |
| Upper East | 1.1 | 1.3 | 0.5 | 0.4 | 0.0 | 1.5 | 3.8 | 0.1 | 91.9 | 2.7 | 2,904 |
| Upper West | 0.4 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 0.0 | 98.6 | 0.5 | 1,774 |
| Source of drinking water ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| Improved | 1.4 | 1.2 | 0.7 | 0.5 | 0.0 | 1.0 | 2.5 | 0.1 | 93.1 | 3.1 | 55,937 |
| Unimproved | 2.3 | 2.9 | 3.9 | 0.0 | 0.2 | 4.8 | 4.9 | 0.0 | 82.3 | 5.4 | 1,704 |
| Surface | 4.3 | 1.1 | 5.2 | 0.7 | 0.3 | 3.9 | 3.8 | 0.0 | 84.3 | 6.1 | 5,970 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 2.1 | 0.8 | 3.0 | 0.4 | 0.1 | 2.1 | 2.9 | 0.0 | 90.1 | 3.4 | 12,721 |
| Second | 1.8 | 0.9 | 1.6 | 0.2 | 0.1 | 2.0 | 2.4 | 0.2 | 91.9 | 2.9 | 12,725 |
| Middle | 1.4 | 1.0 | 0.6 | 0.0 | 0.0 | 1.5 | 2.9 | 0.1 | 93.0 | 2.5 | 12,719 |
| Fourth | 1.3 | 1.1 | 0.5 | 0.1 | 0.0 | 0.7 | 2.3 | 0.2 | 94.3 | 2.4 | 12,726 |
| Highest | 1.9 | 2.5 | 0.3 | 1.7 | 0.0 | 0.5 | 3.1 | 0.1 | 90.5 | 6.0 | 12,719 |
| Total | 1.7 | 1.3 | 1.2 | 0.5 | 0.0 | 1.4 | 2.7 | 0.1 | 91.9 | 3.4 | 63,611 |

[^31]Table 16.6 Household sanitation facilities
Percent distribution of households and de jure population by type of toilet/latrine facilities, and percent distribution of households and de jure population with a toilet/latrine facility by location of the facility, according to residence, Ghana DHS 2022

| Type and location of toilet/ latrine facility | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Improved sanitation facility | 83.7 | 49.4 | 69.1 | 81.0 | 43.6 | 63.2 |
| Flush/pour flush to piped sewer system | 2.2 | 0.3 | 1.4 | 2.2 | 0.3 | 1.3 |
| Flush/pour flush to septic tank | 36.7 | 6.5 | 23.9 | 34.7 | 5.0 | 20.5 |
| Flush/pour flush to pit latrine | 4.1 | 1.2 | 2.9 | 4.1 | 1.1 | 2.7 |
| Flush, biodigester (Biofil) | 4.6 | 1.2 | 3.2 | 4.6 | 1.0 | 2.9 |
| Flush/pour flush, don't know where | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| Ventilated improved pit (VIP) latrine | 22.1 | 15.5 | 19.3 | 21.1 | 13.8 | 17.6 |
| Pit latrine with slab | 13.7 | 24.6 | 18.3 | 14.0 | 22.4 | 18.0 |
| Composting toilet | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Unimproved sanitation facility | 6.9 | 17.7 | 11.5 | 7.4 | 17.5 | 12.2 |
| Flush/pour flush not to sewer/septic tank/pit latrine | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| Pit latrine without slab/open pit | 6.3 | 17.4 | 11.0 | 6.8 | 17.3 | 11.8 |
| Bucket | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hanging toilet/hanging latrine | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| Other | 0.5 | 0.1 | 0.4 | 0.5 | 0.1 | 0.3 |
| Open defecation (no facility/bush/ field) | 9.4 | 32.9 | 19.4 | 11.7 | 38.8 | 24.6 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 10,320 | 7,613 | 17,933 | 33,294 | 30,317 | 63,611 |
| Location of toilet facility |  |  |  |  |  |  |
| In own dwelling | 26.8 | 7.2 | 19.9 | 28.5 | 6.3 | 19.9 |
| In own yard/plot | 40.5 | 45.8 | 42.4 | 40.2 | 46.4 | 42.6 |
| Elsewhere | 32.7 | 47.0 | 37.8 | 31.4 | 47.3 | 37.6 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population with a toilet/latrine facility | 9,354 | 5,109 | 14,463 | 29,415 | 18,542 | 47,957 |

Table 16.7 Sanitation service ladder
Percent distribution of de jure population by type of sanitation service, according to background characteristics, Ghana DHS 2022

| Background <br> characteristic | At least basic <br> service ${ }^{1}$ | Limited $^{\text {service }}{ }^{2}$ | Unimproved ${ }^{3}$ | Open <br> defecation | Total | Number of <br> persons |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |  |  |
| Urban | 33.5 | 47.5 | 7.4 | 11.7 | 100.0 | 33,294 |
| Rural | 14.2 | 29.5 | 17.5 | 38.8 | 100.0 | 30,317 |
| Region |  |  |  |  |  |  |
| Western | 24.1 | 46.1 | 20.2 | 9.6 | 100.0 | 3,944 |
| Central | 21.7 | 48.1 | 17.5 | 12.7 | 100.0 | 6,957 |
| Greater Accra | 40.0 | 51.2 | 3.9 | 4.9 | 100.0 | 9,217 |
| Volta | 28.1 | 39.1 | 11.0 | 21.7 | 100.0 | 2,902 |
| Eastern | 25.1 | 48.4 | 20.8 | 5.7 | 100.0 | 5,234 |
| Ashanti | 29.2 | 52.2 | 9.3 | 9.3 | 100.0 | 11,844 |
| Western North | 18.4 | 30.6 | 44.7 | 6.3 | 100.0 | 1,775 |
| Ahafo | 19.1 | 30.7 | 38.4 | 11.8 | 100.0 | 1,397 |
| Bono | 28.8 | 40.4 | 17.8 | 13.0 | 100.0 | 2,262 |
| Bono East | 18.6 | 31.0 | 6.4 | 44.0 | 100.0 | 2,831 |
| Oti | 13.9 | 28.9 | 6.6 | 50.6 | 100.0 | 1,937 |
| Northern | 12.9 | 13.0 | 3.6 | 70.6 | 100.0 | 5,493 |
| Savannah | 11.0 | 12.5 | 2.8 | 73.6 | 100.0 | 1,586 |
| North East | 11.4 | 9.1 | 15.3 | 64.2 | 100.0 | 1,552 |
| Upper East | 13.9 | 13.3 | 1.6 | 71.3 | 100.0 | 2,904 |
| Upper West | 11.8 | 13.2 | 18.6 | 56.4 | 100.0 | 1,774 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 5.3 | 11.8 | 18.7 | 64.3 | 100.0 | 12,721 |
| Second | 9.3 | 33.7 | 19.6 | 37.4 | 100.0 | 12,725 |
| Middle | 15.8 | 54.7 | 13.2 | 16.4 | 100.0 | 12,719 |
| Fourth | 23.0 | 64.9 | 7.5 | 4.6 | 100.0 | 12,726 |
| Highest | 68.2 | 29.3 | 2.0 | 0.4 | 100.0 | 12,719 |
| Total | 24.3 | 38.9 | 12.2 | 24.6 | 100.0 | 63,611 |

Note: Service ladder concept/definitions are based on the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP).
${ }^{1}$ Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately.
${ }^{2}$ Defined as use of improved facilities shared by two or more households
${ }^{3}$ Use of flush/pour flush toilet not to sewer, septic tank, or pit latrine; pit latrine without a slab/open pit; hanging toilet/latrine; or bucket

Table 16.8 Emptying and removal of waste from on-site sanitation facilities
Percent distribution of de jure population in households with septic tanks and improved latrines by method of emptying and removal, and percentage of the population with on-site sanitation facilities for which excreta was safely disposed of in situ, percentage with on-site sanitation facilities for which excreta was disposed of unsafely, and percentage with on-site sanitation facilities for which excreta was removed for treatment, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percent distribution of method of emptying and disposal of waste from septic tanks or other on-site sanitation facilities |  |  |  |  |  |  |  | Percentage of population with on-site sanitation facilities for which: |  |  |  | Number of persons with improved on-site sanitation facilities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Removed by a service provider to treatment plant | Removed by a service provider, don't know where | $\qquad$ | Emptied to uncovered pit, open ground, water body, or elsewhere | Other | Don't know where waste was taken | Never emptied | Don't know if ever emptied | Total | Excreta was safely disposed of in situ ${ }^{1}$ | Excreta was disposed of unsafely ${ }^{2}$ | Excreta was removed for treatment ${ }^{3}$ |  |
| Sanitation facility type |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Latrines and other improved facilities | 1.6 | 13.4 | 1.0 | 0.2 | 0.0 | 0.9 | 76.6 | 6.3 | 100.0 | 83.9 | 0.2 | 15.9 | 24,428 |
| Flush to pit latrine | 2.1 | 24.8 | 0.2 | 0.1 | 0.0 | 1.1 | 65.9 | 5.7 | 100.0 | 71.8 | 0.1 | 28.0 | 1,692 |
| Ventilated improved pit (VIP) latrine | 2.8 | 20.2 | 1.5 | 0.2 | 0.1 | 1.0 | 64.2 | 10.0 | 100.0 | 75.7 | 0.3 | 24.0 | 11,200 |
| Pit latrine with slab | 0.3 | 5.1 | 0.7 | 0.1 | 0.0 | 0.8 | 90.3 | 2.6 | 100.0 | 93.6 | 0.1 | 6.3 | 11,467 |
| Composting toilet | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 68.2 | 27.0 | 100.0 | 95.2 | 0.0 | 4.8 | 68 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 4.8 | 27.1 | 0.2 | 0.1 | 0.1 | 1.3 | 59.6 | 6.9 | 100.0 | 66.7 | 0.2 | 33.1 | 24,641 |
| Rural | 0.3 | 6.8 | 1.5 | 0.1 | 0.0 | 0.7 | 87.0 | 3.6 | 100.0 | 92.1 | 0.1 | 7.8 | 12,847 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 1.2 | 11.6 | 0.0 | 0.4 | 0.0 | 1.1 | 81.7 | 4.0 | 100.0 | 85.7 | 0.4 | 13.9 | 2,640 |
| Central | 1.6 | 17.5 | 0.3 | 0.0 | 0.2 | 0.2 | 79.4 | 0.8 | 100.0 | 80.5 | 0.2 | 19.3 | 4,514 |
| Greater Accra | 11.3 | 40.3 | 0.0 | 0.2 | 0.0 | 0.9 | 41.0 | 6.3 | 100.0 | 47.2 | 0.2 | 52.6 | 7,001 |
| Volta | 1.2 | 15.1 | 0.6 | 0.4 | 0.0 | 1.1 | 76.1 | 5.4 | 100.0 | 82.1 | 0.4 | 17.5 | 1,840 |
| Eastern | 0.7 | 20.4 | 0.5 | 0.0 | 0.1 | 2.4 | 70.4 | 5.5 | 100.0 | 76.4 | 0.1 | 23.5 | 3,667 |
| Ashanti | 1.6 | 17.9 | 1.2 | 0.1 | 0.0 | 1.0 | 69.5 | 8.7 | 100.0 | 79.4 | 0.1 | 20.5 | 9,337 |
| Western North | 0.4 | 5.1 | 0.1 | 0.4 | 0.0 | 0.9 | 87.9 | 5.3 | 100.0 | 93.3 | 0.4 | 6.3 | 850 |
| Ahafo | 0.3 | 11.0 | 0.3 | 0.2 | 0.0 | 0.8 | 82.4 | 4.9 | 100.0 | 87.6 | 0.2 | 12.1 | 690 |
| Bono | 2.1 | 7.4 | 0.0 | 0.0 | 0.0 | 1.0 | 80.9 | 8.7 | 100.0 | 89.5 | 0.0 | 10.5 | 1,535 |
| Bono East | 0.4 | 17.0 | 1.0 | 0.0 | 0.0 | 1.0 | 73.5 | 7.0 | 100.0 | 81.5 | 0.0 | 18.5 | 1,381 |
| Oti | 2.8 | 5.1 | 0.7 | 0.1 | 0.0 | 0.7 | 89.5 | 1.2 | 100.0 | 91.4 | 0.1 | 8.5 | 806 |
| Northern | 2.6 | 18.1 | 4.2 | 0.3 | 0.0 | 1.3 | 71.2 | 2.2 | 100.0 | 77.7 | 0.3 | 22.0 | 1,345 |
| Savannah | 0.2 | 5.8 | 2.1 | 0.0 | 0.5 | 3.3 | 85.1 | 3.0 | 100.0 | 90.2 | 0.5 | 9.3 | 373 |
| North East | 0.0 | 0.9 | 0.0 | 0.5 | 0.0 | 0.4 | 94.8 | 3.4 | 100.0 | 98.2 | 0.5 | 1.3 | 317 |
| Upper East | 0.9 | 14.4 | 0.3 | 0.3 | 0.0 | 0.9 | 79.2 | 3.9 | 100.0 | 83.4 | 0.3 | 16.3 | 751 |
| Upper West | 0.0 | 10.8 | 0.0 | 0.0 | 0.0 | 1.9 | 73.3 | 13.9 | 100.0 | 87.2 | 0.0 | 12.8 | 441 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.1 | 5.1 | 1.1 | 0.3 | 0.0 | 2.0 | 87.9 | 3.6 | 100.0 | 92.6 | 0.3 | 7.1 | 2,164 |
| Second | 0.2 | 9.5 | 2.1 | 0.1 | 0.0 | 0.3 | 81.3 | 6.3 | 100.0 | 89.8 | 0.2 | 10.0 | 5,439 |
| Middle | 1.4 | 14.4 | 1.1 | 0.1 | 0.1 | 1.1 | 75.1 | 6.7 | 100.0 | 82.9 | 0.2 | 16.9 | 8,749 |
| Fourth | 3.2 | 23.1 | 0.1 | 0.2 | 0.0 | 1.5 | 64.7 | 7.1 | 100.0 | 72.0 | 0.2 | 27.8 | 10,443 |
| Highest | 6.8 | 30.4 | 0.0 | 0.0 | 0.0 | 0.9 | 58.1 | 3.8 | 100.0 | 61.8 | 0.1 | 38.1 | 10,692 |
| Total | 3.2 | 20.1 | 0.7 | 0.1 | 0.0 | 1.1 | 69.0 | 5.8 | 100.0 | 75.4 | 0.2 | 24.4 | 37,488 |

Note: On-site sanitation facilities are those where excreta are stored in a septic tank, pit latrine, or composting toilet.
${ }^{1}$ Includes septic tanks and latrines in which waste was buried in a covered pit, never emptied, and don't know if ever emptied
${ }^{2}$ Includes septic tanks and latrines in which waste was emptied to uncovered pits, open ground, water body, or other locations
${ }^{3}$ Includes septic tanks and latrines in which waste was removed by a service provider to a treatment plant or an unknown location or was removed by a non-service provider to an unknown location

Table 16.9 Management of household excreta
Percent distribution of de jure population by management of excreta from household sanitation facilities, according to background characteristics, Ghana DHS 2022

| Background characteristic | Connected to sewer | Using improved on-site sanitation facilities |  |  | Using improved sanitation facilities, on-site status unknown | Using unimproved sanitation facilities | Practicing open defecation | Total | ```Percent- age connected to sewer, with safe disposal on-site, or with removal for treatment off-site``` | Number of persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Safe disposal in situ of excreta from onsite sanitation facilities | Unsafe disposal of excreta from onsite sanitation facilities | Removal of excreta for treatment off-site |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.2 | 49.8 | 3.1 | 21.1 | 4.7 | 7.4 | 11.7 | 100.0 | 73.2 | 33,294 |
| Rural | 0.3 | 39.6 | 0.5 | 2.3 | 1.0 | 17.5 | 38.8 | 100.0 | 42.2 | 30,317 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 0.7 | 58.3 | 2.0 | 6.6 | 2.6 | 20.2 | 9.6 | 100.0 | 65.5 | 3,944 |
| Central | 0.9 | 52.3 | 3.1 | 9.5 | 4.1 | 17.5 | 12.7 | 100.0 | 62.6 | 6,957 |
| Greater Accra | 5.1 | 36.0 | 5.9 | 34.1 | 10.1 | 3.9 | 4.9 | 100.0 | 75.2 | 9,217 |
| Volta | 0.5 | 52.8 | 0.7 | 9.9 | 3.4 | 11.0 | 21.7 | 100.0 | 63.1 | 2,902 |
| Eastern | 1.1 | 53.7 | 1.3 | 15.0 | 2.3 | 20.8 | 5.7 | 100.0 | 69.8 | 5,234 |
| Ashanti | 1.0 | 64.0 | 0.1 | 14.7 | 1.6 | 9.3 | 9.3 | 100.0 | 79.7 | 11,844 |
| Western North | 0.3 | 44.7 | 0.3 | 2.9 | 0.9 | 44.7 | 6.3 | 100.0 | 47.9 | 1,775 |
| Ahafo | 0.2 | 43.4 | 1.2 | 4.7 | 0.2 | 38.4 | 11.8 | 100.0 | 48.4 | 1,397 |
| Bono | 0.6 | 61.5 | 0.9 | 5.5 | 0.7 | 17.8 | 13.0 | 100.0 | 67.6 | 2,262 |
| Bono East | 0.5 | 40.6 | 2.9 | 5.2 | 0.3 | 6.4 | 44.0 | 100.0 | 46.3 | 2,831 |
| Oti | 0.0 | 38.8 | 0.2 | 2.7 | 1.1 | 6.6 | 50.6 | 100.0 | 41.5 | 1,937 |
| Northern | 0.6 | 19.3 | 0.9 | 4.2 | 0.8 | 3.6 | 70.6 | 100.0 | 24.1 | 5,493 |
| Savannah | 0.0 | 21.4 | 0.4 | 1.7 | 0.1 | 2.8 | 73.6 | 100.0 | 23.1 | 1,586 |
| North East | 0.0 | 20.1 | 0.1 | 0.3 | 0.0 | 15.3 | 64.2 | 100.0 | 20.4 | 1,552 |
| Upper East | 0.2 | 21.6 | 0.9 | 3.4 | 1.1 | 1.6 | 71.3 | 100.0 | 25.1 | 2,904 |
| Upper West | 0.1 | 21.7 | 0.3 | 2.8 | 0.0 | 18.6 | 56.4 | 100.0 | 24.7 | 1,774 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 15.8 | 0.3 | 1.0 | 0.0 | 18.7 | 64.3 | 100.0 | 16.8 | 12,721 |
| Second | 0.1 | 39.2 | 0.5 | 3.1 | 0.1 | 19.6 | 37.4 | 100.0 | 42.3 | 12,725 |
| Middle | 0.5 | 57.6 | 1.5 | 9.7 | 1.1 | 13.2 | 16.4 | 100.0 | 67.8 | 12,719 |
| Fourth | 1.0 | 59.7 | 2.9 | 19.5 | 4.8 | 7.5 | 4.6 | 100.0 | 80.2 | 12,726 |
| Highest | 4.8 | 52.6 | 3.9 | 27.6 | 8.7 | 2.0 | 0.4 | 100.0 | 84.9 | 12,719 |
| Total | 1.3 | 45.0 | 1.8 | 12.1 | 2.9 | 12.2 | 24.6 | 100.0 | 58.4 | 63,611 |

Note: On-site sanitation facilities are those where excreta are stored in a septic tank, pit latrine, or composting toilet.

Table 16.10 Disposal of children's stools
Percent distribution of youngest children under age 2 living with their mother by the manner of disposal of the child's last faecal matter, and percentage of children whose stools are disposed of appropriately, according to background characteristics, Ghana DHS 2022

| Background characteristic | Manner of disposal of children's stools |  |  |  |  |  |  |  | Percentage of children whose stools are disposed of appropriately ${ }^{1}$ | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Child used toilet or latrine | Put/rinsed into toilet or latrine | Buried | Put/rinsed into drain or ditch | Thrown into garbage | Left in the open | Other | Total |  |  |
| Age of child in months |  |  |  |  |  |  |  |  |  |  |
| 0-1 | 0.0 | 5.2 | 5.7 | 16.7 | 65.2 | 1.5 | 5.7 | 100.0 | 5.2 | 304 |
| 2-3 | 0.6 | 10.4 | 5.5 | 11.3 | 69.7 | 0.3 | 2.1 | 100.0 | 11.0 | 260 |
| 4-5 | 0.4 | 9.7 | 5.0 | 12.2 | 68.3 | 0.9 | 3.5 | 100.0 | 10.1 | 262 |
| 6-8 | 0.2 | 10.4 | 5.1 | 8.0 | 70.1 | 3.3 | 2.9 | 100.0 | 10.5 | 429 |
| 9-11 | 0.2 | 13.4 | 5.4 | 7.7 | 70.0 | 1.3 | 2.0 | 100.0 | 13.6 | 416 |
| 12-17 | 0.4 | 16.2 | 6.4 | 6.0 | 65.7 | 3.9 | 1.5 | 100.0 | 16.5 | 887 |
| 18-23 | 0.7 | 24.1 | 6.8 | 4.8 | 56.5 | 4.5 | 2.5 | 100.0 | 24.8 | 830 |
| 6-23 | 0.4 | 17.3 | 6.1 | 6.2 | 64.2 | 3.6 | 2.1 | 100.0 | 17.7 | 2,562 |
| Type of toilet facility ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Improved sanitation facility | 0.4 | 17.0 | 3.4 | 5.1 | 71.7 | 1.1 | 1.2 | 100.0 | 17.4 | 1,984 |
| Unimproved facility | 1.0 | 35.0 | 3.9 | 6.6 | 51.0 | 1.0 | 1.4 | 100.0 | 36.1 | 398 |
| Open defecation | 0.1 | 3.5 | 11.8 | 14.2 | 57.3 | 7.3 | 5.8 | 100.0 | 3.6 | 1,007 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 0.4 | 12.6 | 3.6 | 5.2 | 75.5 | 1.2 | 1.5 | 100.0 | 13.0 | 1,573 |
| Rural | 0.3 | 17.4 | 8.0 | 10.4 | 55.9 | 4.5 | 3.5 | 100.0 | 17.7 | 1,815 |
| Region |  |  |  |  |  |  |  |  |  |  |
| Western | 0.0 | 30.6 | 3.3 | 2.7 | 61.2 | 2.2 | 0.0 | 100.0 | 30.6 | 200 |
| Central | 0.0 | 15.4 | 4.3 | 3.3 | 76.2 | 0.4 | 0.5 | 100.0 | 15.4 | 347 |
| Greater Accra | 0.0 | 9.5 | 3.7 | 5.7 | 80.2 | 0.0 | 0.9 | 100.0 | 9.5 | 398 |
| Volta | 0.8 | 18.5 | 8.7 | 13.1 | 55.8 | 0.0 | 3.1 | 100.0 | 19.3 | 130 |
| Eastern | 0.9 | 11.2 | 1.3 | 5.2 | 79.9 | 0.0 | 1.5 | 100.0 | 12.1 | 239 |
| Ashanti | 0.5 | 18.4 | 2.9 | 1.6 | 72.4 | 3.6 | 0.4 | 100.0 | 19.0 | 603 |
| Western North | 0.0 | 53.3 | 0.0 | 1.4 | 43.7 | 0.0 | 1.5 | 100.0 | 53.3 | 96 |
| Ahafo | 0.0 | 25.9 | 2.0 | 6.1 | 65.9 | 0.0 | 0.0 | 100.0 | 25.9 | 75 |
| Bono | 2.9 | 19.2 | 6.2 | 16.2 | 48.4 | 3.1 | 4.0 | 100.0 | 22.1 | 110 |
| Bono East | 0.7 | 11.1 | 5.2 | 4.7 | 72.5 | 1.4 | 4.4 | 100.0 | 11.8 | 183 |
| Oti | 0.3 | 12.9 | 8.5 | 21.5 | 47.5 | 0.3 | 8.9 | 100.0 | 13.2 | 118 |
| Northern | 0.3 | 4.4 | 6.4 | 16.2 | 61.1 | 10.1 | 1.5 | 100.0 | 4.7 | 386 |
| Savannah | 0.6 | 10.3 | 5.5 | 7.6 | 43.9 | 2.4 | 29.6 | 100.0 | 11.0 | 103 |
| North East | 0.2 | 15.5 | 4.1 | 27.5 | 43.6 | 6.9 | 2.1 | 100.0 | 15.7 | 110 |
| Upper East | 0.0 | 7.3 | 36.6 | 13.5 | 34.6 | 6.9 | 1.1 | 100.0 | 7.3 | 187 |
| Upper West | 0.0 | 11.9 | 3.1 | 8.3 | 66.9 | 3.7 | 6.0 | 100.0 | 11.9 | 103 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 0.7 | 13.4 | 6.2 | 15.6 | 51.7 | 7.0 | 5.4 |  | 14.1 |  |
| Primary | 0.2 | 14.6 | 7.2 | 9.4 | 61.1 | 3.8 | 3.7 | 100.0 | 14.8 | 522 |
| Secondary 0.3 16.1 5.9 5.8 68.8 1.6 1.5 100.0 16.4 1,835 <br> More than           |  |  |  |  |  |  |  |  |  |  |
| More than secondary | 0.5 | 14.5 | 4.0 | 1.5 | 79.1 | 0.2 | 0.3 | 100.0 | 14.9 | 320 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.6 | 13.6 | 11.6 | 15.6 | 46.0 | 7.5 | 5.2 | 100.0 | 14.2 | 829 |
| Second | 0.4 | 16.3 | 5.5 | 9.8 | 61.2 | 3.4 | 3.3 | 100.0 | 16.7 | 692 |
| Middle | 0.2 | 18.6 | 5.1 | 6.5 | 66.2 | 1.6 | 1.9 | 100.0 | 18.8 | 687 |
| Fourth | 0.5 | 16.4 | 3.0 | 3.5 | 75.1 | 0.3 | 1.2 | 100.0 | 16.9 | 618 |
| Highest | 0.2 | 10.4 | 2.7 | 1.5 | 85.0 | 0.0 | 0.2 | 100.0 | 10.6 | 562 |
| Total | 0.4 | 15.1 | 6.0 | 8.0 | 65.0 | 2.9 | 2.6 | 100.0 | 15.5 | 3,388 |

${ }^{1}$ Children's stools are considered to be disposed of appropriately if the child used a toilet or latrine or if the faecal matter was put/rinsed into a toilet or atrine
${ }^{2}$ See Table 16.6 for definition of categories.

## Table 16.11 Handwashing

Percentage of the de jure population for whom the place most often used for washing hands was observed, by whether the location was fixed or mobile, and total percentage of the de jure population for whom the place for handwashing was observed; among the de jure population for whom the place for handwashing was observed, percentage with water available, percentage with soap available, and percentage with a cleansing agent other than soap available; percentage of the de jure population with a basic handwashing facility; and percentage with a limited handwashing facility, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of de jure population for whom place for washing hands was observed: |  |  | Place for handwashing observed and: |  |  |  | Number of persons for whom place for handwashing was observed | Percentage of the de jure population with a basic handwashing facility ${ }^{3}$ | Percentage of the de jure population with a limited handwashing facility ${ }^{4}$ | Number of persons for whom a place for handwashing was observed or with no place for handwashing in the dwelling, yard, or plot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Place for handwashing was a fixed place | Place for handwashing was mobile | Total | Number of persons | Water available | Soap available ${ }^{1}$ | Cleansing agent other than soap available ${ }^{2}$ |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 27.5 | 61.8 | 89.3 | 33,294 | 74.0 | 59.1 | 0.7 | 29,726 | 52.8 | 38.3 | 32,643 |
| Rural | 9.3 | 75.9 | 85.2 | 30,317 | 57.7 | 39.9 | 1.9 | 25,820 | 33.3 | 53.8 | 29,622 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| Western | 25.8 | 73.4 | 99.2 | 3,944 | 93.6 | 85.0 | 0.0 | 3,910 | 83.6 | 15.9 | 3,930 |
| Central | 21.1 | 65.0 | 86.1 | 6,957 | 53.0 | 41.7 | 0.0 | 5,989 | 33.1 | 53.1 | 6,943 |
| Greater Accra | 38.4 | 59.8 | 98.2 | 9,217 | 89.9 | 70.3 | 0.9 | 9,048 | 68.5 | 30.0 | 9,180 |
| Volta | 15.8 | 81.9 | 97.7 | 2,902 | 79.7 | 55.9 | 1.1 | 2,837 | 54.6 | 43.1 | 2,902 |
| Eastern | 15.8 | 79.6 | 95.4 | 5,234 | 80.8 | 54.8 | 0.0 | 4,993 | 53.8 | 44.7 | 5,066 |
| Ashanti | 19.5 | 66.5 | 86.0 | 11,844 | 56.9 | 49.2 | 0.3 | 10,187 | 42.9 | 49.1 | 11,066 |
| Western North | 8.7 | 81.6 | 90.2 | 1,775 | 41.9 | 23.0 | 0.1 | 1,602 | 20.1 | 72.2 | 1,736 |
| Ahafo | 9.5 | 66.6 | 76.1 | 1,397 | 70.0 | 52.3 | 0.0 | 1,063 | 39.5 | 37.1 | 1,388 |
| Bono | 11.4 | 70.0 | 81.4 | 2,262 | 51.4 | 41.1 | 0.4 | 1,840 | 32.6 | 49.5 | 2,241 |
| Bono East | 7.5 | 57.9 | 65.5 | 2,831 | 74.0 | 50.1 | 9.8 | 1,854 | 32.5 | 34.1 | 2,784 |
| Oti | 5.8 | 81.0 | 86.9 | 1,937 | 59.2 | 30.8 | 0.0 | 1,682 | 26.4 | 60.5 | 1,935 |
| Northern | 14.8 | 63.1 | 78.0 | 5,493 | 44.3 | 26.0 | 4.0 | 4,283 | 19.8 | 58.7 | 5,450 |
| Savannah | 4.3 | 86.5 | 90.8 | 1,586 | 76.8 | 43.4 | 12.6 | 1,440 | 39.5 | 51.9 | 1,574 |
| North East | 8.4 | 66.9 | 75.3 | 1,552 | 17.8 | 5.2 | 0.1 | 1,169 | 3.2 | 74.7 | 1,501 |
| Upper East | 12.0 | 59.3 | 71.3 | 2,904 | 67.9 | 47.0 | 0.2 | 2,070 | 32.4 | 40.6 | 2,836 |
| Upper West | 6.0 | 83.0 | 89.1 | 1,774 | 30.3 | 28.5 | 0.1 | 1,581 | 25.7 | 65.6 | 1,732 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 5.8 | 74.2 | 80.0 | 12,721 | 55.0 | 31.3 | 3.5 | 10,173 | 25.0 | 56.4 | 12,505 |
| Second | 6.4 | 77.3 | 83.7 | 12,725 | 56.6 | 38.3 | 1.5 | 10,651 | 31.8 | 54.5 | 12,339 |
| Middle | 8.9 | 79.7 | 88.5 | 12,719 | 59.9 | 44.7 | 0.9 | 11,262 | 39.3 | 51.2 | 12,437 |
| Fourth | 16.7 | 73.7 | 90.4 | 12,726 | 68.5 | 53.4 | 0.4 | 11,504 | 47.3 | 44.8 | 12,490 |
| Highest | 56.2 | 37.8 | 94.0 | 12,719 | 89.0 | 78.8 | 0.3 | 11,956 | 74.1 | 21.6 | 12,494 |
| Total | 18.8 | 68.5 | 87.3 | 63,611 | 66.4 | 50.2 | 1.3 | 55,546 | 43.5 | 45.7 | 62,264 |

${ }^{1}$ Soap includes soap or detergent in bar, liquid, powder, or paste form.
${ }^{2}$ Cleansing agents other than soap include locally available materials such as ash, mud, or sand.
${ }^{3}$ The availability of a handwashing facility on premises with soap and water
${ }^{4}$ The availability of a handwashing facility on premises without soap and/or water

## Table 16.12 Menstrual hygiene

Among women age 15-49 whose most recent menstrual period was in the last year, percentage who used specified materials to collect or absorb blood from the most recent menstrual period, and among women age 15-49 whose most recent menstrual period was in the last year and who were at home during their last menstrual period, percentage who were able to wash and change in privacy while at home and percentage who were able to both wash and change in privacy and who used appropriate materials during their last menstruation, according to background characteristics, Ghana DHS 2022

| Background characteristic | Among women whose most recent menstrual period was in the last year, percentage who used the specified materials to collect or absorb blood from the most recent menstrual period |  |  |  |  |  |  |  |  |  |  | Among women whose most recent menstrual period was in the last year and who were at home during their last menstrual period |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Reusable sanitary pads | Disposable sanitary pads | Tampons | Menstrual cup | Cloth | Toilet paper | Cotton wool | Underwear only | Other | Nothing | Number of women | Percentage able to wash and change in privacy | Percentage able <br> to wash <br> and <br> change <br> in <br> privacy <br> and who <br> used <br> appro- <br> priate <br> materials <br> during <br> last <br> men- <br> strua- <br> tion ${ }^{1}$ |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.2 | 93.4 | 0.1 | 0.0 | 4.4 | 1.4 | 0.0 | 0.2 | 0.5 | 0.1 | 2,491 | 96.9 | 96.4 | 2,460 |
| 20-24 | 2.0 | 94.1 | 0.0 | 0.1 | 4.1 | 0.2 | 0.1 | 0.2 | 1.0 | 0.0 | 2,334 | 97.2 | 96.8 | 2,311 |
| 25-29 | 2.2 | 92.0 | 0.5 | 0.0 | 5.5 | 1.0 | 0.2 | 0.3 | 0.9 | 0.1 | 1,848 | 98.7 | 98.0 | 1,830 |
| 30-34 | 1.9 | 87.8 | 0.2 | 0.1 | 11.0 | 0.8 | 0.2 | 0.4 | 1.4 | 0.2 | 1,784 | 98.0 | 96.7 | 1,779 |
| 35-39 | 2.4 | 84.4 | 0.0 | 0.2 | 12.2 | 1.6 | 0.3 | 0.5 | 2.1 | 0.2 | 1,709 | 97.8 | 96.0 | 1,702 |
| 40-44 | 2.7 | 79.1 | 0.3 | 0.0 | 16.3 | 1.5 | 0.3 | 0.8 | 2.3 | 0.1 | 1,431 | 97.9 | 95.4 | 1,414 |
| 45-49 | 1.5 | 75.9 | 0.0 | 0.0 | 20.6 | 3.2 | 0.6 | 0.5 | 2.7 | 0.4 | 900 | 97.6 | 95.9 | 894 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.2 | 92.4 | 0.2 | 0.1 | 4.5 | 1.1 | 0.1 | 0.1 | 1.3 | 0.1 | 7,386 | 97.5 | 96.6 | 7,354 |
| Rural | 2.1 | 82.6 | 0.1 | 0.0 | 15.6 | 1.3 | 0.3 | 0.8 | 1.4 | 0.2 | 5,111 | 97.9 | 96.4 | 5,037 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western | 0.5 | 89.1 | 0.0 | 0.2 | 10.4 | 1.2 | 0.0 | 0.2 | 1.6 | 0.0 | 814 | 97.9 | 96.4 | 806 |
| Central | 3.1 | 89.2 | 0.1 | 0.0 | 8.9 | 0.8 | 0.2 | 0.1 | 1.1 | 0.0 | 1,450 | 98.4 | 98.3 | 1,429 |
| Greater Accra | 0.3 | 95.5 | 0.4 | 0.2 | 1.7 | 2.0 | 0.0 | 0.0 | 1.7 | 0.0 | 2,004 | 97.8 | 96.8 | 2,003 |
| Volta | 0.2 | 87.6 | 0.3 | 0.0 | 13.5 | 0.4 | 0.5 | 0.2 | 0.7 | 0.0 | 600 | 97.6 | 96.9 | 595 |
| Eastern | 5.3 | 88.4 | 0.0 | 0.0 | 6.0 | 2.6 | 0.3 | 0.0 | 1.0 | 0.2 | 1,041 | 99.6 | 98.7 | 1,039 |
| Ashanti | 1.5 | 92.6 | 0.2 | 0.0 | 4.6 | 1.6 | 0.3 | 0.2 | 2.5 | 0.1 | 2,504 | 95.5 | 94.2 | 2,476 |
| Western North | 1.6 | 93.8 | 0.0 | 0.0 | 5.0 | 1.8 | 0.2 | 0.3 | 1.5 | 0.2 | 353 | 98.6 | 97.4 | 351 |
| Ahafo | 0.1 | 95.0 | 0.3 | 0.0 | 4.9 | 0.8 | 0.1 | 0.1 | 1.6 | 0.1 | 274 | 98.0 | 96.7 | 273 |
| Bono | 0.0 | 97.2 | 0.0 | 0.0 | 1.7 | 0.6 | 0.0 | 0.2 | 1.0 | 0.0 | 484 | 97.9 | 97.1 | 478 |
| Bono East | 15.7 | 75.0 | 0.0 | 0.0 | 10.0 | 0.6 | 0.1 | 0.3 | 0.6 | 0.6 | 561 | 97.8 | 96.9 | 557 |
| Oti | 4.7 | 71.1 | 0.0 | 0.0 | 24.7 | 0.4 | 0.1 | 1.3 | 0.9 | 0.0 | 305 | 98.3 | 96.5 | 305 |
| Northern | 0.7 | 65.7 | 0.2 | 0.1 | 34.2 | 0.0 | 0.4 | 2.2 | 0.3 | 0.8 | 884 | 98.0 | 95.2 | 866 |
| Savannah | 0.2 | 80.8 | 0.0 | 0.0 | 19.5 | 0.4 | 0.4 | 1.1 | 0.4 | 0.0 | 245 | 99.2 | 98.2 | 235 |
| North East | 1.2 | 79.6 | 0.0 | 0.0 | 19.3 | 1.1 | 0.2 | 0.3 | 0.0 | 0.0 | 202 | 99.7 | 99.4 | 202 |
| Upper East | 0.7 | 92.0 | 0.0 | 0.0 | 7.6 | 0.2 | 0.1 | 0.4 | 0.2 | 0.1 | 471 | 97.7 | 96.9 | 470 |
| Upper West | 0.3 | 90.5 | 0.2 | 0.0 | 8.5 | 0.0 | 0.0 | 1.4 | 0.6 | 0.2 | 306 | 97.1 | 95.4 | 305 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 2.1 | 65.4 | 0.1 | 0.0 | 32.1 | 0.9 | 0.2 | 1.9 | 1.4 | 0.5 | 1,749 | 98.4 | 95.3 | 1,721 |
| Primary | 3.2 | 83.0 | 0.3 | 0.0 | 14.0 | 0.9 | 0.4 | 0.5 | 1.3 | 0.2 | 1,602 | 97.2 | 95.8 | 1,594 |
| Secondary | 2.0 | 93.2 | 0.1 | 0.0 | 4.3 | 1.4 | 0.2 | 0.1 | 1.5 | 0.1 | 7,780 | 97.3 | 96.5 | 7,716 |
| More than secondary | 2.2 | 96.8 | 0.5 | 0.3 | 0.5 | 0.6 | 0.0 | 0.0 | 0.3 | 0.0 | 1,367 | 99.1 | 99.0 | 1,359 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 2.9 | 72.3 | 0.2 | 0.0 | 25.6 | 0.6 | 0.1 | 1.5 | 0.7 | 0.4 | 1,779 | 98.1 | 96.2 | 1,744 |
| Second | 1.9 | 83.1 | 0.2 | 0.0 | 15.5 | 0.8 | 0.2 | 0.5 | 1.3 | 0.2 | 2,193 | 98.0 | 96.7 | 2,166 |
| Middle | 1.9 | 89.5 | 0.0 | 0.0 | 7.9 | 1.7 | 0.3 | 0.2 | 2.1 | 0.0 | 2,624 | 97.4 | 96.1 | 2,610 |
| Fourth | 2.8 | 92.7 | 0.1 | 0.0 | 3.5 | 1.7 | 0.1 | 0.1 | 1.4 | 0.1 | 2,913 | 96.8 | 95.8 | 2,895 |
| Highest | 1.6 | 96.7 | 0.3 | 0.2 | 0.9 | 0.9 | 0.2 | 0.0 | 1.0 | 0.0 | 2,987 | 98.1 | 97.8 | 2,974 |
| Total | 2.2 | 88.4 | 0.2 | 0.0 | 9.0 | 1.2 | 0.2 | 0.4 | 1.3 | 0.1 | 12,497 | 97.7 | 96.5 | 12,390 |

[^32]
## Key Findings

- Experience of violence: $33 \%$ of women age 15-49 have experienced physical violence since age 15.
- Controlling behaviours: $61 \%$ of women who have ever had a husband/intimate partner reported that they have experienced at least one specific type of controlling behaviour by their current or most recent husband/intimate partner.
- Violence by current or most recent husband/intimate partner: 36\% of women who have ever had a husband/intimate partner report having experienced emotional, physical, or sexual violence by their current or most recent husband/intimate partner, and 28\% experienced such violence in the 12 months preceding the survey.
- Trends in intimate partner violence by current or most recent husband/partner: The percentage of evermarried women who have experienced physical, sexual, or emotional violence committed by their current or most recent husband/partner decreased from $40 \%$ in 2008 to $36 \%$ in 2022.
- Injuries due to intimate partner violence: 32\% of evermarried/partnered women who experienced intimate partner physical or sexual violence in the 12 months preceding the survey sustained an injury.
- Help seeking: 38\% of women who have ever experienced physical or sexual violence have sought help to stop the violence.

Gender-based violence is defined by the United Nations as any act of violence that results in physical, sexual, or psychological harm or suffering to women, girls, men, and boys, as well as threats of such acts, coercion, or the arbitrary deprivation of liberty. Increasing research has highlighted the health burdens, intergenerational effects, and demographic consequences of such violence (United Nations 2006).

A common form of gender-based violence is intimate partner violence, which refers to behaviour within an intimate relationship that causes physical, sexual, or psychological harm and includes acts of physical aggression, sexual coercion, psychological abuse, and controlling behaviour. This definition of intimate partner violence covers violence by both current and former spouses and partners. ${ }^{1}$ This chapter focuses on intimate partner violence, a form of gender-based violence, and other forms of domestic violence.

Historically, The DHS Program has collected detailed information only on intimate partner violence experienced by ever-married women, defined as women who are currently married or living with a man as if married and women who were formerly married or lived with a man as if married. More recently, the questionnaire module used to capture intimate partner violence in a DHS survey was revised to also capture intimate partner violence experienced by never-married women who reported that they currently or

[^33]formerly had an intimate partner. In the 2022 Ghana DHS, the revised version of the domestic violence questionnaire module was used for the first time, and therefore indicators on intimate partner violence are reported for women who have ever had a husband or other intimate partner. In the context of the revised questionnaire module and this report, the term "boyfriend" excludes anyone reported as an intimate partner. Given these changes, when examining trends in intimate partner violence, only the estimates provided separately for ever-married women and women living with a man as if married should be compared with corresponding estimates from previous surveys.

The 2022 Ghana DHS implemented the module of questions on domestic violence in accordance with the World Health Organization's guidelines on the ethical collection of information on domestic violence (WHO 2001). Only one eligible woman per household was selected to answer this module. In households with more than one eligible woman, one respondent was randomly selected. The module was administered only if complete privacy could be obtained; among the women eligible, less than $1 \%$ were unable to be interviewed because privacy could not be obtained. Overall, among women eligible for the 2022 GDHS, $38 \%$ were eligible for the module, and 15,317 women were successfully interviewed.

### 17.1 Measurement of Violence

## Terminology for this chapter

Husband: a man with whom a woman is married or living with as if married.
Intimate partner: a man with whom a never-married woman is in a relationship that involves physical and/or emotional intimacy and for which the relationship is or has the expectation of being longer lasting. As defined for the purposes of this chapter, an intimate partner is not a husband or a man a woman is living with and is also not a boyfriend with whom her relationship is casual or a man with whom she has a one-time encounter.
Husband/intimate partner: the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past.
Boyfriend: a man with whom a woman has a casual relationship and who she did not mention as an intimate partner.

In the 2022 Ghana DHS, information was obtained from women age 15-49 on their experience of violence committed by any perpetrator, including current and former husbands or other intimate partners. To capture intimate partner violence, ever-married women were asked about their experience of violence committed by their current and former husbands/live-in partners, and, if applicable, never-married women were asked about their experience of violence committed by their current and former intimate partners. More specifically, intimate partner violence was measured by asking women if their current or former husband/intimate partner ever did the following to them:

Physical violence: push you, shake you, or throw something at you; slap you; twist your arm or pull your hair; punch you with his fist or with something that could hurt you; kick you, drag you, or beat you up; choke you or burn you on purpose; or attack you with a knife, gun, or other weapon.

Sexual violence: physically force you to have sexual intercourse with him when you did not want to, physically force you to perform any other sexual acts you did not want to, or force you with threats or in any other way to perform sexual acts you did not want to.

Emotional violence: say or do something to humiliate you in front of others, threaten to hurt or harm you or someone you care about, or insult you or make you feel bad about yourself.

In addition to the questions on different forms of intimate partner violence, information was also obtained from all women about physical violence committed by anyone other than any husband/intimate partner since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, women were asked if they had experienced sexual violence committed by anyone other than any husband/intimate partner. Specifically, they were asked if at any time in their life, as a child or as an adult, they were forced in any way to have sexual intercourse or to perform any other sexual acts when they did not want to. Additionally, women who had ever been pregnant were asked about their experience of physical violence during any pregnancy.

### 17.2 Women’s Experience of Physical Violence

Physical violence by any perpetrator
Percentage of women who have experienced any physical violence (committed by a husband, intimate partner, or anyone else) since age 15 and in the 12 months before the survey.
Sample: Women age 15-49

Thirty-three percent of women age 15-49 have experienced physical violence since age 15 . Twelve percent of women experienced physical violence in the 12 months preceding the survey (Figure 17.1 and Table 17.1).

Trends: The percentage of women who have experienced physical violence since age 15 decreased from $37 \%$ in 2008 to $33 \%$ in 2022.

### 17.2.1 Perpetrators of Physical Violence

Figure 17.1 Women's experience of physical violence by marital status

| Never married, <br> never had an <br> intimate partner | Never married, <br> ever had an <br> intimate partner | Married/ | Divorced/ <br> living together |
| :---: | :---: | :---: | :---: |
| separated/ |  |  |  |
| widowed |  |  |  |

Among ever-married women and women who have had an intimate partner and have experienced physical violence since age 15, the most common perpetrators of violence were the current husband/intimate partner (37\%) and a former husband/intimate partner (33\%). Among never-married women who have never had an intimate partner, the most common perpetrators were mothers or stepmothers $(28 \%)$ and fathers or stepfathers ( $24 \%$ ); 18\% of these women reported experiencing violence by a teacher and $13 \%$ by a schoolmate or classmate (Table 17.2).

### 17.2.2 Experience of Physical Violence during Pregnancy

## Physical violence during pregnancy

Percentage of women who have experienced physical violence (committed by a husband, intimate partner, or anyone else) during any pregnancy.
Sample: Women age 15-49 who have ever been pregnant

In Ghana, $7 \%$ of women age 15-49 who have ever been pregnant have experienced physical violence during a pregnancy (Table 17.3).

### 17.3 Experience of Sexual Violence

## Sexual violence by any perpetrator

Percentage of women who have experienced any sexual violence (committed by a husband, intimate partner, or anyone else) ever and in the 12 months before the survey.
Sample: Women age 15-49

### 17.3.1 Prevalence of Sexual Violence

Fourteen percent of women age 1549 have ever experienced sexual violence by any perpetrator, and 6\% of women experienced sexual violence in the 12 months preceding the survey (Table 17.4). Experience of sexual violence is higher among divorced, separated, or widowed women ( $21 \%$ ) than among currently married women and never-married women who have ever had an intimate partner ( $14 \%$ and $16 \%$, respectively); sexual violence is lowest among never-married women who have never had an intimate partner (8\%) (Table 17.4 and Figure 17.2).

Figure 17.2 Women's experience of sexual violence by marital status

| $\square$ Never married, | $\boxed{\text { Never married, }}$never had an | ever had an <br> nitimate partner <br> intimate partner | living together |
| :---: | :---: | :---: | :---: | | Sivorced/ |
| :---: |
| separated/ |
| widowed |



Percentage who have ever experienced sexual violence

Trends: The percentage of women who have ever experienced sexual violence has declined steadily over time, from $19 \%$ in 2008 to $14 \%$ in 2022.

### 17.3.2 Perpetrators of Sexual Violence

Among women age 15-49 who have ever been married or had an intimate partner and have experienced sexual violence, the most common perpetrators were their current husband/intimate partner (54\%) and a former husband/intimate partner ( $26 \%$ ). Ten percent of women experienced sexual violence by a stranger and $6 \%$ by a friend or acquaintance (Table 17.5).

### 17.3.3 Experience of Sexual Violence by a Non-intimate Partner

In Ghana, $6 \%$ of women age 15-49 have ever experienced sexual violence by a non-intimate partner, and less than $1 \%$ experienced such violence in the 12 months preceding the survey. Experience of sexual violence by any non-intimate partner generally decreases with age, from $8 \%$ among women age $15-19$ to $5 \%$ among women age 40-49 (Table 17.6).

### 17.3.4 Age at First Experience of Sexual Violence

Three percent of women first experienced sexual violence by age 15 , while $6 \%$ first experienced such violence by age 18 and $10 \%$ by age 22 (Table 17.7).

### 17.4 Experience of Different Forms of Violence

Physical and sexual violence may not occur in isolation; rather, women may experience a combination of forms of violence. Nearly 4 in 10 women ( $38 \%$ ) have experienced physical or sexual violence: $24 \%$ have
experienced physical violence only, $5 \%$ have experienced sexual violence only, and $9 \%$ have experienced both physical and sexual violence (Table 17.8).

### 17.5 Forms of Controlling Behaviours and Intimate Partner Violence

## Controlling behaviour

Percentage of women whose current or most recent husband/intimate partner demonstrates one or more controlling behaviours.
Sample: Women age 15-49 who ever had a husband or an intimate partner

## Intimate partner violence

Percentage of women who have experienced any of the specified acts of physical, sexual, or emotional violence committed by their current or most recent husband/intimate partner, ever and in the 12 months preceding the survey.
Sample: Women age 15-49 who ever had a husband or an intimate partner

### 17.5.1 Prevalence of Controlling Behaviours and Intimate Partner Violence

## Controlling Behaviours

Marital controlling behaviours are important early warning signs and correlates of violence in a relationship. Because the concentration of behaviours is more significant than the display of any single behaviour, the percentage of women whose husbands/partners display at least three such behaviours is also an important indicator.

Overall, about 6 in 10 women (61\%) age 15-49 who have ever had a husband/intimate partner reported that they have experienced at least one specific type of controlling behaviour by their current or most recent husband/intimate partner. The most common controlling behaviours women reported were insisting on knowing where they are at all times ( $44 \%$ ) and jealousy or anger if they talk to other men ( $42 \%$ ). Twentyone percent of women said that their husband/intimate partner has wrongly accused them of being unfaithful (Figure 17.3 and Tables 17.9 and 17.10).

Trends: The percentage of ever-married women whose husband/partner displays three or more controlling behaviours has remained steady over the years at $20 \%$ in 2008 and 2022.

## Violence by Current or Most Recent Husband/Intimate Partner

Nearly 4 out of 10 women ( $36 \%$ ) who have ever had a husband/intimate partner report having experienced emotional, physical, or sexual violence by their current or most recent husband/intimate partner. Thirtyone percent of women have experienced emotional violence, $17 \%$ have experienced physical violence, and $8 \%$ have experienced sexual violence. Four percent of women have experienced all three types of violence (Table 17.11).

Women whose husband/intimate partner does not drink alcohol are much less likely ( $29 \%$ ) to have experienced physical, sexual, or emotional violence than women whose husband/intimate partner is often drunk (74\%) (Table 17.12 and Figure 17.4).

Trends: The percentage of ever-married women age 15-49 who have experienced physical, sexual, or emotional intimate partner violence has decreased over time, from $40 \%$ in 2008 to $36 \%$ in 2022.

Figure 17.4 Intimate partner violence by husband's/intimate partner's alcohol consumption

Percentage of women who have ever had a husband/intimate partner and have ever experienced emotional, physical, or sexual violence by their husband/intimate partner


### 17.5.2 Intimate Partner Violence in the Last 12 Months Perpetrated by any Husband/Intimate Partner

Intimate partner violence by any partner in the last 12 months
Percentage of women who experienced any of the specified acts of physical, sexual, or emotional violence committed by any husband or any intimate partner in the 12 months preceding the survey. These indicators correspond to SDG 5.2.1.
Sample: Women age 15-49 who ever had a husband or an intimate partner

Overall, $28 \%$ of women who have ever had one or more husbands or intimate partners experienced physical, sexual, or emotional violence by any husband/intimate partner in the past 12 months. By region, the percentage of women who experienced such violence ranges from a high of $47 \%$ in Savanah to a low of $18 \%$ in Bono (Table 17.13).

### 17.6 Injuries to Women due to Intimate Partner Violence

## Injuries due to intimate partner violence

Percentage of women who have the following types of injuries from intimate partner violence: cuts, bruises, or aches; eye injuries, sprains, dislocations, or burns; or deep wounds, broken bones, broken teeth, or any other serious injury.
Sample: Women age 15-49 who have experienced physical or sexual violence committed by their current or most recent husband or intimate partner

Three in 10 (31\%) ever-married/partnered women who have experienced sexual or physical violence committed by their current or most recent husband/intimate partner have sustained injuries; $32 \%$ sustained
injuries after experiencing such violence in the 12 months preceding the survey. The most common injuries reported are cuts, bruises, or aches (26\%), followed by eye injuries, sprains, dislocations, or burns (14\%). Eight percent of women who have experienced physical or sexual intimate partner violence reported deep wounds, broken bones, broken teeth, or other serious injuries (Table 17.14).

### 17.7 Violence Initiated by Women against Their Husband/Intimate Partner

## Initiation of physical violence by women

Percentage of women who have ever hit, slapped, kicked, or done anything else to physically hurt their current or most recent husband/intimate partner at times when he was not already beating or physically hurting them.
Sample: Women age 15-49 who ever had a husband or an intimate partner

Either spouse can play a role in instigating domestic violence. The 2022 GDHS asked all women responding to the domestic violence module who have ever had a husband or intimate partner if they had ever initiated acts of physical violence against their husband/intimate partner when he was not already hitting or beating them. Seven percent of women who have ever had a husband/intimate partner reported that they have initiated physical violence against their current or most recent husband/intimate partner, and $5 \%$ reported having done so in the 12 months preceding the survey. Initiation of violence against husbands or intimate partners is much more common among women who have experienced physical intimate partner violence (23\%) than among women who have never experienced such violence (4\%) (Table 17.15 and Table 17.16).

Trends: The percentage of ever-married women who have initiated violence against their husbands/partners has remained unchanged over time ( $7 \%$ in both 2008 and 2022). Similarly, the percentage of women who initiated violence against their husbands or partners in the 12 months preceding the survey was $5 \%$ in both 2008 and 2022.

### 17.8 Help Seeking among Women Who Have Experienced Violence

Fifty-one percent of women age 15-49 who have experienced physical or sexual violence have never sought help to end the violence or told anyone about the violence; $10 \%$ of women who have experienced violence told someone about the violence but did not seek help. Thirty-eight percent of women sought help to stop the violence (Table 17.17). Women who have experienced both physical and sexual violence are more likely ( $50 \%$ ) to have sought help than women who have experienced physical violence only (36\%) or sexual violence only (28\%) (Figure 17.5).

## Sources for Help

Among women who have experienced physical or sexual violence and sought help, the most common source of help is their own family ( $71 \%$ ), followed by their husband/intimate partner's family ( $23 \%$ ) and friends (10\%) (Table 17.18).

Figure 17.5 Help seeking by type of violence experienced
Percentage of women age 15-49 who have experienced physical or sexual violence and sought help


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For more information on domestic violence, see the following tables:

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- Table 17.2 Persons committing physical violence
- Table 17.3 Experience of physical violence during pregnancy
- Table 17.4 Experience of sexual violence by any perpetrator
- Table 17.5 Persons committing sexual violence
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- Table 17.7 Age at first experience of sexual violence
- Table 17.8 Experience of different forms of violence
- Table 17.9 Forms of controlling behaviours and intimate partner violence
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Table 17.1 Experience of physical violence by any perpetrator
Percentage of women age 15-49 who have experienced physical violence by any perpetrator since age 15 and percentage who experienced physical violence by any perpetrator in the 12 months preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who have experienced physical violence since age $15^{1}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |
| Age |  |  |  |  |  |
| 15-19 | 25.6 | 2.6 | 12.5 | 15.6 | 966 |
| 20-24 | 33.7 | 2.6 | 10.0 | 13.2 | 1,005 |
| 25-29 | 31.5 | 3.4 | 8.9 | 12.9 | 920 |
| 30-39 | 33.4 | 3.1 | 7.1 | 10.3 | 1,662 |
| 40-49 | 39.7 | 3.3 | 7.0 | 10.6 | 1,184 |
| Religion |  |  |  |  |  |
| Catholic | 28.3 | 2.5 | 9.4 | 12.3 | 497 |
| Anglican | (30.8) | (1.8) | (8.1) | (9.9) | 53 |
| Methodist | 33.3 | 3.3 | 7.5 | 10.9 | 316 |
| Presbyterian | 30.3 | 2.3 | 5.9 | 9.3 | 341 |
| Pentecostal/Charismatic | 35.1 | 3.2 | 8.0 | 11.6 | 2,414 |
| Other Christian | 32.6 | 3.6 | 8.8 | 12.9 | 816 |
| Islam | 30.2 | 1.9 | 9.9 | 11.8 | 1,094 |
| Traditional/spiritualist | 39.5 | 11.1 | 14.6 | 25.7 | 95 |
| No religion | 51.2 | 1.8 | 22.1 | 23.9 | 105 |
| Other | * | * | * | * | 7 |
| Ethnic group |  |  |  |  |  |
| Akan | 33.6 | 3.3 | 7.9 | 11.7 | 2,670 |
| Ga/Dangme | 31.4 | 1.5 | 9.9 | 12.3 | 389 |
| Ewe | 40.4 | 3.2 | 9.1 | 12.4 | 665 |
| Guan | 33.4 | 3.1 | 7.7 | 10.8 | 181 |
| Mole-Dagbani | 29.4 | 2.6 | 9.8 | 12.8 | 1,065 |
| Grusi | 25.6 | 1.1 | 8.8 | 9.8 | 201 |
| Gurma | 36.1 | 5.4 | 11.8 | 17.3 | 370 |
| Mande | 25.3 | 1.6 | 7.8 | 9.4 | 159 |
| Other | (39.1) | (1.5) | (4.3) | (5.7) | 36 |
| Residence |  |  |  |  |  |
| Urban | 32.0 | 2.5 | 8.0 | 11.1 | 3,296 |
| Rural | 34.7 | 3.7 | 9.8 | 13.6 | 2,441 |
| Region |  |  |  |  |  |
| Western | 30.5 | 5.0 | 6.5 | 11.8 | 373 |
| Central | 44.6 | 2.7 | 7.2 | 11.5 | 665 |
| Greater Accra | 29.3 | 1.2 | 7.0 | 8.4 | 937 |
| Volta | 40.2 | 4.1 | 9.2 | 13.3 | 252 |
| Eastern | 29.5 | 3.4 | 10.0 | 13.7 | 479 |
| Ashanti | 33.8 | 3.4 | 6.2 | 9.9 | 1,124 |
| Western North | 31.7 | 1.9 | 10.8 | 13.0 | 137 |
| Ahafo | 30.6 | 2.3 | 13.8 | 16.1 | 123 |
| Bono | 26.2 | 1.9 | 7.7 | 9.7 | 224 |
| Bono East | 25.7 | 3.7 | 5.5 | 9.5 | 240 |
| Oti | 36.8 | 2.6 | 14.4 | 17.2 | 146 |
| Northern | 33.9 | 5.0 | 12.7 | 17.6 | 420 |
| Savannah | 42.9 | 5.3 | 13.0 | 18.6 | 123 |
| North East | 23.7 | 3.5 | 12.7 | 16.2 | 100 |
| Upper East | 35.0 | 1.7 | 19.2 | 21.1 | 245 |
| Upper West | 23.7 | 2.3 | 9.1 | 11.4 | 148 |
| Marital status |  |  |  |  |  |
| Never married | 26.2 | 1.7 | 8.8 | 11.1 | 1,912 |
| Never ever had intimate partner | 24.3 | 2.0 | 11.7 | 13.8 | 818 |
| Ever had intimate partner | 27.6 | 1.4 | 6.7 | 9.0 | 1,094 |
| Ever married | 36.6 | 3.7 | 8.8 | 12.7 | 3,825 |
| Married/living together | 33.8 | 3.4 | 9.2 | 12.8 | 3,259 |
| Divorced/separated/widowed | 53.3 | 5.4 | 6.1 | 12.1 | 566 |
| Education |  |  |  |  |  |
| No education | 35.8 | 4.9 | 10.1 | 15.1 | 947 |
| Primary | 42.1 | 5.4 | 9.8 | 16.0 | 784 |
| Secondary | 32.2 | 2.3 | 8.7 | 11.4 | 3,422 |
| More than secondary | 22.2 | 1.3 | 5.7 | 7.1 | 584 |

Continued...

Table 17.1-Continued

| Background characteristic | Percentage who have experienced physical violence since age $15^{1}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |
| Wealth quintile |  |  |  |  |  |
| Lowest | 32.5 | 3.4 | 10.8 | 14.3 | 904 |
| Second | 36.3 | 3.9 | 9.8 | 13.9 | 1,014 |
| Middle | 39.8 | 3.8 | 10.4 | 15.1 | 1,182 |
| Fourth | 33.0 | 1.9 | 9.4 | 11.9 | 1,335 |
| Highest | 25.3 | 2.6 | 4.4 | 7.1 | 1,302 |
| Total | 33.2 | 3.0 | 8.8 | 12.2 | 5,737 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes physical violence in the last 12 months. For women who were married or living together before age 15 and reported violence only by their husband and for never-married women who had an intimate partner before age 15 and reported violence only by their intimate partner, the violence could have occurred before age 15.
${ }^{2}$ Includes women for whom frequency in the last 12 months is not known

## Table 17.2 Persons committing physical violence

Among women age 15-49 who have experienced physical violence since age 15, percentage who report specific persons who committed the violence, according to the respondent's partnership status, Ghana DHS 2022

|  | Partnership status |  |  |
| :--- | ---: | ---: | ---: |
|  | Ever <br> married/ever <br> had intimate <br> partner | Never <br> married/never <br> had intimate <br> partner |  |
| Person | 37.1 | na |  |
| Current husband/intimate partner | 33.4 | na | 33.2 |
| Former husband/intimate partner | 0.3 | 1.2 | 29.9 |
| Current boyfriend | 3.6 | 1.1 | 0.4 |
| Former boyfriend | 10.5 | 23.7 | 11.3 |
| Father/stepfather | 10.0 | 28.3 | 11.9 |
| Mother/stepmother | 10.5 | 9.9 | 10.4 |
| Sister/brother | 9.4 | 15.2 | 10.0 |
| Other relative | 0.3 | na | 0.3 |
| Mother-in-law | 0.2 | na | 0.2 |
| Father-in-law | 0.7 | na | 0.6 |
| Other in-law | 3.4 | 17.9 | 4.9 |
| Teacher | 3.5 | 13.3 | 4.6 |
| Schoolmate/classmate | 1.1 | 0.0 | 1.0 |
| Employer/someone at work | 0.0 | 0.0 | 0.0 |
| Police/soldier | 5.3 | 12.6 | 6.1 |
| Other |  |  |  |
| Number of women who have |  |  |  |
| experienced physical violence since | 1,704 | 198 | 1,902 |
| age 15 |  |  |  |

Note: The term husband includes a partner with whom a woman is living as if married. Percentages may add to more than $100 \%$ since women can report more than one perpetrator.
na $=$ not applicable

Table 17.3 Experience of physical violence during pregnancy
Among women age 15-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who experienced violence during pregnancy | Number of women who have ever been pregnant |
| :---: | :---: | :---: |
| Age |  |  |
| 15-19 | 11.3 | 158 |
| 20-24 | 5.8 | 582 |
| 25-29 | 6.1 | 753 |
| 30-39 | 7.3 | 1,574 |
| 40-49 | 6.6 | 1,159 |
| Religion |  |  |
| Catholic | 6.2 | 326 |
| Anglican | (0.0) | 42 |
| Methodist | 5.1 | 216 |
| Presbyterian | 7.5 | 248 |
| Pentecostal/Charismatic | 7.5 | 1,792 |
| Other Christian | 7.4 | 614 |
| Islam | 5.2 | 814 |
| Traditional/spiritualist | 10.9 | 84 |
| No religion | 9.7 | 85 |
| Other | * | 4 |
| Ethnic group |  |  |
| Akan | 8.0 | 1,965 |
| $\mathrm{Ga} /$ Dangme | 3.4 | 262 |
| Ewe | 5.4 | 484 |
| Guan | 13.1 | 119 |
| Mole-Dagbani | 5.6 | 804 |
| Grusi | 4.8 | 143 |
| Gurma | 7.3 | 308 |
| Mande | 5.9 | 113 |
| Other | (1.4) | 29 |
| Residence |  |  |
| Urban | 6.6 | 2,334 |
| Rural | 7.1 | 1,891 |
| Region |  |  |
| Western | 4.5 | 272 |
| Central | 7.7 | 476 |
| Greater Accra | 4.2 | 650 |
| Volta | 7.3 | 186 |
| Eastern | 9.5 | 340 |
| Ashanti | 10.0 | 868 |
| Western North | 7.2 | 111 |
| Ahafo | 6.5 | 88 |
| Bono | 3.8 | 148 |
| Bono East | 4.8 | 181 |
| Oti | 11.3 | 115 |
| Northern | 5.9 | 333 |
| Savannah | 3.6 | 90 |
| North East | 4.3 | 81 |
| Upper East | 3.8 | 182 |
| Upper West | 5.1 | 105 |
| Marital status |  |  |
| Never married | 9.1 | 522 |
| Never ever had intimate partner | (10.2) | 23 |
| Ever had intimate partner | 9.0 | 499 |
| Ever married | 6.5 | 3,704 |
| Married/living together | 6.0 | 3,158 |
| Divorced/separated/widowed | 9.4 | 546 |
| Number of living children |  |  |
| 0 | 5.2 | 310 |
| 1-2 | 6.2 | 1,755 |
| 3-4 | 8.1 | 1,340 |
| 5+ | 6.8 | 820 |
| Education |  |  |
| No education | 6.1 | 891 |
| Primary | 9.3 | 664 |
| Secondary | 6.8 | 2,329 |
| More than secondary | 4.0 | 341 |

[^34]Table 17.3-Continued

| Background | Percentage who <br> experienced <br> violence during <br> pregnancy | Number of women <br> who have ever <br> been pregnant |
| :--- | :---: | :---: |
| characteristic |  |  |
| Wealth quintile | 5.5 | 723 |
| Lowest | 8.7 | 806 |
| Second | 10.3 | 857 |
| Middle | 5.9 | 958 |
| Fourth | 3.8 | 882 |
| Highest | 6.8 | 4,226 |
| Total |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 17.4 Experience of sexual violence by any perpetrator
Percentage of women age 15-49 who have ever experienced sexual violence by any perpetrator and percentage who experienced sexual violence by any perpetrator in the 12 months preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who have experienced sexual violence by any perpetrator: |  | Number of women |
| :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | In the last 12 months |  |
| Age |  |  |  |
| 15-19 | 10.3 | 4.7 | 966 |
| 20-24 | 12.6 | 5.0 | 1,005 |
| 25-29 | 13.6 | 5.1 | 920 |
| 30-39 | 16.6 | 7.1 | 1,662 |
| 40-49 | 15.4 | 5.0 | 1,184 |
| Religion |  |  |  |
| Catholic | 11.4 | 5.0 | 497 |
| Anglican | (13.4) | (2.0) | 53 |
| Methodist | 13.9 | 3.7 | 316 |
| Presbyterian | 12.8 | 7.8 | 341 |
| Pentecostal/Charismatic | 16.9 | 5.9 | 2,414 |
| Other Christian | 15.2 | 6.8 | 816 |
| Islam | 8.6 | 3.8 | 1,094 |
| Traditional/spiritualist | 15.4 | 12.0 | 95 |
| No religion | 17.8 | 5.2 | 105 |
| Other | * | * | 7 |
| Ethnic group |  |  |  |
| Akan | 14.6 | 4.7 | 2,670 |
| $\mathrm{Ga} /$ Dangme | 18.3 | 8.7 | 389 |
| Ewe | 17.2 | 7.0 | 665 |
| Guan | 15.7 | 6.4 | 181 |
| Mole-Dagbani | 10.9 | 5.5 | 1,065 |
| Grusi | 8.2 | 3.0 | 201 |
| Gurma | 13.2 | 6.5 | 370 |
| Mande | 11.0 | 6.8 | 159 |
| Other | (14.7) | (3.2) | 36 |
| Residence |  |  |  |
| Urban | 14.8 | 5.4 | 3,296 |
| Rural | 13.1 | 5.9 | 2,441 |
| Region |  |  |  |
| Western | 11.4 | 5.0 | 373 |
| Central | 19.6 | 6.9 | 665 |
| Greater Accra | 14.4 | 4.5 | 937 |
| Volta | 22.3 | 11.6 | 252 |
| Eastern | 12.9 | 4.7 | 479 |
| Ashanti | 16.8 | 5.3 | 1,124 |
| Western North | 11.5 | 7.4 | 137 |
| Ahafo | 11.0 | 6.6 | 123 |
| Bono | 9.2 | 2.1 | 224 |
| Bono East | 7.4 | 3.8 | 240 |
| Oti | 18.9 | 9.5 | 146 |
| Northern | 7.5 | 4.9 | 420 |
| Savannah | 19.6 | 11.1 | 123 |
| North East | 5.2 | 2.9 | 100 |
| Upper East | 9.0 | 3.7 | 245 |
| Upper West | 10.9 | 6.4 | 148 |
| Marital status |  |  |  |
| Never married | 12.5 | 4.1 | 1,912 |
| Never ever had intimate partner | 7.7 | 1.7 | 818 |
| Ever had intimate partner | 16.1 | 5.9 | 1,094 |
| Ever married | 14.9 | 6.3 | 3,825 |
| Married/living together | 13.9 | 6.5 | 3,259 |
| Divorced/separated/widowed | 20.7 | 4.8 | 566 |
| Employment |  |  |  |
| Employed for cash | 15.6 | 5.8 | 3,507 |
| Employed not for cash | 10.8 | 5.1 | 993 |
| Not employed | 12.6 | 5.4 | 1,236 |
| Education |  |  |  |
| No education | 13.1 | 7.1 | 947 |
| Primary | 16.1 | 7.3 | 784 |
| Secondary | 14.0 | 5.1 | 3,422 |
| More than secondary | 13.9 | 3.5 | 584 |

Table 17.4-Continued

|  | Percentage who have experienced sexual <br> violence by any perpetrator: |  |  |
| :--- | :---: | :---: | :---: |
| Background | In the last <br> characteristic | Number <br> of women |  |
| Wealth quintile |  |  |  |
| Lowest | 10.7 | 5.8 | 904 |
| Second | 13.3 | 5.1 | 1,014 |
| Middle | 14.9 | 7.1 | 1,182 |
| Fourth | 16.7 | 5.9 | 1,335 |
| Highest | 13.7 | 4.0 | 1,302 |
| Total | 14.1 | 5.6 | 5,737 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes experience of sexual violence in the last 12 months

Table 17.5 Persons committing sexual violence
Among women age 15-49 who have experienced sexual violence, percentage who report specific persons who committed the violence, according to the respondent's partnership status, Ghana DHS 2022

|  | Partnership status |  |  |
| :--- | :---: | :---: | ---: |
|  | Ever <br> married/ever <br> had intimate <br> partner | Never <br> married/never <br> had intimate <br> partner |  |
| Person | 54.3 | Total |  |
| Current husband/intimate partner | 26.3 | na | 50.1 |
| Former husband/intimate partner | 3.4 | $(11.0)$ | 24.2 |
| Current/former boyfriend | 0.1 | $(11.9)$ | 4.0 |
| Father/stepfather | 1.3 | 1.0 |  |
| Brother/stepbrother | 4.3 | $(22.6)$ | 1.4 |
| Other relative | 6.3 | $(12.0)$ | 5.6 |
| Own friend/acquaintance | 4.8 | $(11.5)$ | 6.8 |
| Family friend | 2.4 | $(0.0)$ | 5.3 |
| Teacher | 1.7 | $(14.9)$ | 2.2 |
| Schoolmate/classmate | 0.8 | $(0.0)$ | 0.8 |
| Employer/someone at work | 0.0 | $(0.0)$ | 0.0 |
| Police/soldier | 0.2 | $(0.0)$ | 0.2 |
| Priest/religious leader | 9.6 | $(32.0)$ | 11.3 |
| Stranger | 5.5 | $(5.8)$ | 5.5 |
| Other |  |  |  |
| Number women who have experienced | 747 | 63 | 810 |
| sexual violence |  |  |  |

Note: The term husband includes a partner with whom a woman is living as if married. Percentages may add to more than $100 \%$ since women can report more than one perpetrator. Figures in parentheses are based on 25-49 unweighted cases. na $=$ not applicable

Table 17.6 Experience of sexual violence by any non-intimate partner
Percentage of women age 15-49 who have ever experienced sexual violence by someone who is not a husband or intimate partner, and percentage who experienced sexual violence by someone who is not a husband or intimate partner in the 12 months preceding the survey, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who have experienced sexual violence by someone other than a husband/intimate partner |  | Number of women |
| :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | In the last 12 months |  |
| Age |  |  |  |
| 15-19 | 8.1 | 2.1 | 966 |
| 20-24 | 6.0 | 0.5 | 1,005 |
| 25-29 | 6.6 | 0.0 | 920 |
| 30-39 | 5.8 | 0.2 | 1,662 |
| 40-49 | 4.9 | 0.3 | 1,184 |
| Religion |  |  |  |
| Catholic | 5.5 | 0.5 | 497 |
| Anglican | (1.1) | (0.0) | 53 |
| Methodist | 5.3 | 0.9 | 316 |
| Presbyterian | 6.0 | 1.2 | 341 |
| Pentecostal/Charismatic | 7.7 | 0.7 | 2,414 |
| Other Christian | 5.9 | 0.0 | 816 |
| Islam | 3.8 | 0.3 | 1,094 |
| Traditional/spiritualist | 2.1 | 1.6 | 95 |
| No religion | 10.1 | 0.0 | 105 |
| Other | * | * | 7 |
| Ethnic group |  |  |  |
| Akan | 6.4 | 0.2 | 2,670 |
| $\mathrm{Ga} /$ Dangme | 8.3 | 3.2 | 389 |
| Ewe | 7.7 | 0.6 | 665 |
| Guan | 7.3 | 2.2 | 181 |
| Mole-Dagbani | 4.9 | 0.2 | 1,065 |
| Grusi | 3.1 | 0.8 | 201 |
| Gurma | 4.4 | 0.5 | 370 |
| Mande | 3.9 | 1.2 | 159 |
| Other | (11.5) | (0.0) | 36 |
| Residence |  |  |  |
| Urban | 7.0 | 0.6 | 3,296 |
| Rural | 5.0 | 0.6 | 2,441 |
| Region |  |  |  |
| Western | 3.9 | 0.5 | 373 |
| Central | 8.7 | 0.9 | 665 |
| Greater Accra | 8.4 | 0.9 | 937 |
| Volta | 10.5 | 0.6 | 252 |
| Eastern | 6.2 | 1.2 | 479 |
| Ashanti | 6.4 | 0.0 | 1,124 |
| Western North | 1.5 | 0.0 | 137 |
| Ahafo | 5.1 | 0.7 | 123 |
| Bono | 6.7 | 0.9 | 224 |
| Bono East | 2.8 | 0.4 | 240 |
| Oti | 5.8 | 0.2 | 146 |
| Northern | 2.6 | 0.4 | 420 |
| Savannah | 6.5 | 1.8 | 123 |
| North East | 0.9 | 0.2 | 100 |
| Upper East | 4.5 | 0.2 | 245 |
| Upper West | 3.7 | 0.3 | 148 |
| Marital status |  |  |  |
| Never married | 8.0 | 1.2 | 1,912 |
| Never ever had intimate partner | 7.7 | 1.7 | 818 |
| Ever had intimate partner | 8.2 | 0.8 | 1,094 |
| Ever married | 5.3 | 0.3 | 3,825 |
| Married/living together | 5.3 | 0.3 | 3,259 |
| Divorced/separated/widowed | 4.8 | 0.0 | 566 |
| Education |  |  |  |
| No education | 2.8 | 0.2 | 947 |
| Primary | 5.5 | 1.7 | 784 |
| Secondary | 6.9 | 0.5 | 3,422 |
| More than secondary | 8.4 | 0.3 | 584 |

Continued...
$\left.\begin{array}{llll}\hline \text { Table 17.6—Continued } & & \\ \hline & \begin{array}{c}\text { Percentage who have } \\ \text { experienced sexual } \\ \text { violence by someone } \\ \text { other than a }\end{array} \\ \text { husband/intimate } \\ \text { partner }\end{array}\right]$.

Note: The term husband includes a partner with whom a woman is living as if married. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes experience of violence in the last 12 months

Table 17.7 Age at first experience of sexual violence
Percentage of women age 15-49 who experienced sexual violence by specific exact ages, according to current age and type of perpetrator, Ghana DHS 2022

| Background characteristic | Percentage who first experienced sexual violence by exact age: |  |  |  |  | Percentage who have not experienced sexual violence | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | 12 | 15 | 18 | 22 |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 1.2 | 1.2 | 4.0 | na | na | 89.7 | 966 |
| 20-24 | 0.5 | 1.4 | 2.9 | 7.0 | na | 87.4 | 1,005 |
| 25-29 | 0.7 | 1.0 | 3.3 | 6.2 | 9.3 | 86.4 | 920 |
| 30-39 | 0.6 | 1.5 | 2.5 | 5.7 | 9.7 | 83.4 | 1,662 |
| 40-49 | 0.3 | 0.7 | 1.7 | 4.3 | 7.4 | 84.6 | 1,184 |
| 18-29 | 0.8 | 1.4 | 3.1 | 6.9 | na | 87.5 | 2,263 |
| Total | 0.7 | 1.2 | 2.8 | 6.4 | 9.5 | 85.9 | 5,737 |
| Type of perpetrator |  |  |  |  |  |  |  |
| Any husband/intimate partner ${ }^{1}$ | 0.1 | 0.2 | 0.6 | 2.6 | 5.6 | 84.8 | 4,919 |
| Any non-intimate partner ${ }^{2}$ | 0.6 | 1.0 | 2.4 | 4.7 | 5.6 | 93.6 | 5,737 |

Note: The term husband includes a partner with whom a woman is living as if married.
na $=$ not applicable
${ }^{1}$ Includes only ever-married women and never-married women who have ever had an intimate partner
${ }^{2}$ Includes all women

## Table 17.8 Experience of different forms of violence

Percentage of women age 15-49 who have ever experienced different forms of violence, by current age, Ghana DHS 2022

|  | Physical <br> violence only | Sexual <br> violence only | Physical and <br> sexual <br> violence | Physical or <br> sexual <br> violence | Number of <br> women |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $15-19$ | 20.4 | 5.1 | 5.2 | 30.7 | 966 |
| $15-17$ | 18.7 | 4.7 | 6.2 | 29.6 | 628 |
| $18-19$ | 23.5 | 5.7 | 3.4 | 32.6 | 339 |
| $20-24$ | 25.9 | 4.8 | 7.8 | 38.5 | 1,005 |
| $25-29$ | 22.7 | 4.8 | 8.8 | 36.3 | 920 |
| $30-39$ | 22.6 | 5.7 | 10.8 | 39.2 | 1,662 |
| 40-49 | 28.3 | 4.0 | 11.4 | 43.7 | 1,184 |
| Total | 24.0 | 5.0 | 9.2 | 38.1 | 5,737 |

Table 17.9 Forms of controlling behaviours and intimate partner violence
Percentage of women age 15-49 who have ever had a husband or intimate partner and have experienced controlling behaviours and various forms of intimate partner violence ever or in the 12 months preceding the survey perpetrated by a husband or intimate partner, Ghana DHS 2022

| Type of violence experienced | Ever experienced | Experienced in the last 12 months | Frequency in the last 12 months |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Often | Sometimes |
| Controlling behaviour |  |  |  |  |
| Any controlling behaviour | 61.0 | 55.4 | 32.9 | 22.5 |
| Is jealous or angry if she talks to other men | 41.9 | 36.6 | 15.7 | 20.9 |
| Wrongly accuses her of being unfaithful | 20.8 | 17.7 | 7.2 | 10.4 |
| Does not permit her to meet her female friends | 15.7 | 13.8 | 7.1 | 6.7 |
| Tries to limit her contact with her family | 6.6 | 5.7 | 2.3 | 3.4 |
| Insists on knowing where she is at all times | 44.4 | 40.6 | 24.4 | 16.2 |
| Physical violence |  |  |  |  |
| Any physical violence | 16.9 | 9.4 | 2.8 | 6.6 |
| Pushed her, shook her, or threw something at her | 9.4 | 5.8 | 1.6 | 4.2 |
| Slapped her | 11.6 | 5.7 | 1.3 | 4.4 |
| Twisted her arm or pulled her hair | 4.2 | 2.4 | 0.7 | 1.8 |
| Punched her with his fist or with something that could hurt her | 6.3 | 3.5 | 0.9 | 2.7 |
| Kicked her, dragged her, or beat her up | 6.6 | 3.5 | 1.2 | 2.3 |
| Tried to choke her or burn her on purpose | 1.9 | 1.2 | 0.3 | 0.9 |
| Attacked her with a knife, gun, or other weapon | 1.1 | 0.5 | 0.1 | 0.4 |
| Sexual violence |  |  |  |  |
| Any sexual violence | 8.2 | 5.9 | 1.6 | 4.2 |
| Physically forced her to have sexual intercourse with him when she did not want to | 7.4 | 5.2 | 1.4 | 3.9 |
| Physically forced her to perform any other sexual acts she did not want to | 3.4 | 2.3 | 0.5 | 1.9 |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 2.5 | 1.8 | 0.6 | 1.2 |
| Emotional violence |  |  |  |  |
| Any emotional violence | 31.3 | 25.1 | 7.9 | 17.3 |
| Said or did something to humiliate her in front of others | 16.9 | 12.8 | 4.8 | 8.1 |
| Threatened to hurt or harm her or someone she cared about | 6.9 | 5.1 | 2.0 | 3.1 |
| Insulted her or made her feel bad about herself | 27.1 | 21.7 | 6.3 | 15.4 |
| At least three forms of controlling behaviours | 20.2 | 18.7 | 14.5 | 4.1 |
| Any form of physical and/or sexual violence | 20.6 | 12.6 | 3.9 | 8.7 |
| Any form of emotional and/or physical and/or sexual violence | 36.2 | 27.9 | 8.8 | 19.1 |
| Intimate partner violence perpetrated by any current or previous husband or intimate partner |  |  |  |  |
| Physical violence | 22.7 | 9.8 | na | na |
| Sexual violence | 11.2 | 6.1 | na | na |
| Emotional violence | 35.2 | 25.5 | na | na |
| Any form of physical or sexual violence | 27.1 | 13.0 | na | na |
| Any form of emotional or physical or sexual violence | 41.6 | 28.4 | na | na |
| Number of women ever-married or nevermarried who ever had an intimate partner | 4,919 | 4,919 | 4,919 | 4,919 |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for nevermarried women who do not currently have an intimate partner but had one in the past.
na = not available

Table 17.10 Controlling behaviours of husband/intimate partner by background characteristics
Percentage of women age 15-49 who have ever had a husband or intimate partner whose husband/intimate partner has ever demonstrated specific types of controlling behaviours, according to background characteristics, Ghana DHS 2022

| Background characteristic | Percentage of women whose husband/intimate partner: |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Is jealous or angry if she talks to other men | Wrongly accuses her of being unfaithful | Does not permit her to meet her female friends | Tries to limit her contact with her family | Insists on knowing where she is at all times | Does not trust her with any money | Displays 3 or more of the specific behaviours | Displays none of the specific behaviours | Number of women who ever had a husband/ intimate partner |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 48.3 | 27.5 | 10.8 | 3.2 | 50.9 | 0.0 | 23.9 | 32.5 | 351 |
| 20-24 | 52.3 | 25.8 | 20.7 | 5.3 | 54.0 | 0.0 | 25.4 | 27.5 | 872 |
| 25-29 | 47.4 | 22.7 | 14.4 | 6.0 | 46.0 | 0.0 | 21.7 | 33.2 | 884 |
| 30-39 | 37.8 | 16.6 | 15.8 | 6.9 | 41.5 | 0.0 | 17.3 | 44.1 | 1,635 |
| 40-49 | 33.7 | 19.5 | 14.4 | 8.5 | 38.1 | 0.0 | 18.3 | 46.7 | 1,177 |
| Religion |  |  |  |  |  |  |  |  |  |
| Catholic | 38.5 | 22.6 | 13.7 | 6.8 | 41.3 | 0.0 | 19.3 | 40.0 | 394 |
| Anglican | (53.6) | (27.0) | (26.5) | (12.9) | (41.1) | (0.0) | (27.4) | (33.3) | 50 |
| Methodist | 50.6 | 27.8 | 14.4 | 9.3 | 46.5 | 0.0 | 22.4 | 32.4 | 265 |
| Presbyterian | 39.8 | 22.2 | 14.7 | 9.4 | 48.4 | 0.0 | 22.1 | 39.7 | 287 |
| Pentecostal/Charismatic | 43.7 | 21.5 | 16.0 | 5.7 | 46.7 | 0.0 | 21.4 | 37.2 | 2,094 |
| Other Christian | 37.9 | 22.8 | 17.9 | 5.7 | 40.7 | 0.0 | 20.4 | 40.8 | 720 |
| Islam | 39.3 | 13.1 | 13.9 | 6.4 | 39.8 | 0.0 | 15.0 | 44.6 | 926 |
| Traditional/spiritualist | 40.5 | 23.1 | 21.1 | 18.5 | 52.3 | 0.0 | 28.6 | 33.9 | 85 |
| No religion | 44.1 | 27.0 | 16.3 | 5.0 | 54.3 | 0.0 | 22.6 | 30.6 | 95 |
| Other | * | * | * | * | * | * | * | * | 4 |
| Ethnic group |  |  |  |  |  |  |  |  |  |
| Akan | 42.9 | 24.5 | 17.3 | 6.0 | 45.4 | 0.0 | 22.7 | 36.5 | 2,312 |
| $\mathrm{Ga} /$ Dangme | 44.8 | 17.7 | 11.0 | 4.5 | 44.5 | 0.0 | 18.5 | 41.4 | 318 |
| Ewe | 42.3 | 23.7 | 17.3 | 7.6 | 45.8 | 0.0 | 22.4 | 39.2 | 562 |
| Guan | 45.1 | 20.8 | 19.9 | 6.5 | 45.9 | 0.0 | 17.7 | 36.2 | 148 |
| Mole-Dagbani | 39.7 | 14.9 | 12.6 | 6.8 | 41.6 | 0.0 | 15.8 | 42.6 | 906 |
| Grusi | 37.7 | 14.3 | 12.1 | 7.1 | 38.6 | 0.0 | 17.0 | 42.8 | 156 |
| Gurma | 37.5 | 15.5 | 16.1 | 10.1 | 46.0 | 0.0 | 19.4 | 42.4 | 345 |
| Mande | 39.5 | 15.3 | 15.3 | 8.2 | 37.9 | 0.0 | 13.7 | 42.1 | 140 |
| Other | (50.1) | (12.4) | (4.7) | (1.7) | (48.6) | (0.0) | (12.7) | (37.4) | 32 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 42.7 | 20.3 | 16.1 | 5.8 | 43.3 | 0.0 | 19.6 | 38.9 | 2,772 |
| Rural | 40.8 | 21.5 | 15.2 | 7.6 | 45.8 | 0.0 | 21.1 | 39.2 | 2,148 |
| Region |  |  |  |  |  |  |  |  |  |
| Western | 42.7 | 14.6 | 11.6 | 5.8 | 47.9 | 0.0 | 15.4 | 35.3 | 317 |
| Central | 50.7 | 31.1 | 23.1 | 7.9 | 55.5 | 0.0 | 31.1 | 29.7 | 558 |
| Greater Accra | 39.8 | 17.8 | 9.4 | 3.5 | 36.7 | 0.0 | 17.1 | 47.9 | 784 |
| Volta | 47.3 | 22.7 | 18.2 | 12.2 | 48.4 | 0.0 | 24.0 | 33.9 | 225 |
| Eastern | 42.1 | 26.0 | 17.7 | 4.7 | 41.1 | 0.0 | 21.9 | 39.6 | 403 |
| Ashanti | 41.0 | 24.0 | 18.2 | 4.7 | 42.2 | 0.0 | 20.2 | 36.9 | 986 |
| Western North | 34.8 | 16.9 | 9.3 | 2.7 | 49.5 | 0.0 | 14.9 | 40.0 | 128 |
| Ahafo | 40.9 | 16.5 | 16.0 | 6.6 | 56.1 | 0.0 | 18.2 | 31.5 | 105 |
| Bono | 41.1 | 21.5 | 11.3 | 8.2 | 39.4 | 0.0 | 17.9 | 42.8 | 184 |
| Bono East | 28.4 | 13.2 | 7.2 | 3.2 | 34.9 | 0.0 | 11.7 | 55.3 | 204 |
| Oti | 38.4 | 19.3 | 20.2 | 8.3 | 49.0 | 0.0 | 21.7 | 35.1 | 130 |
| Northern | 44.7 | 12.0 | 16.0 | 12.0 | 51.6 | 0.0 | 18.6 | 34.0 | 367 |
| Savannah | 49.9 | 25.6 | 31.7 | 12.3 | 63.5 | 0.0 | 28.9 | 23.5 | 104 |
| North East | 37.1 | 16.7 | 16.6 | 9.3 | 36.5 | 0.0 | 19.0 | 45.5 | 90 |
| Upper East | 38.6 | 15.7 | 11.3 | 10.5 | 34.0 | 0.0 | 15.2 | 47.2 | 208 |
| Upper West | 37.9 | 17.0 | 17.2 | 9.4 | 42.4 | 0.0 | 21.4 | 43.9 | 126 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 50.1 | 25.0 | 12.6 | 3.1 | 49.3 | 0.0 | 20.3 | 30.0 | 1,094 |
| Currently has intimate partner | 51.5 | 25.9 | 11.1 | 2.6 | 51.0 | 0.0 | 20.3 | 28.1 | 846 |
| Had intimate partner | 45.3 | 22.2 | 17.6 | 4.5 | 43.6 | 0.0 | 20.0 | 36.5 | 248 |
| Ever married | 39.5 | 19.6 | 16.6 | 7.6 | 42.9 | 0.0 | 20.2 | 41.6 | 3,825 |
| Married/living together | 37.4 | 17.6 | 15.9 | 6.5 | 41.4 | 0.0 | 18.3 | 43.0 | 3,259 |
| Divorced/separated/ widowed | 51.8 | 30.7 | 20.6 | 14.3 | 51.8 | 0.0 | 31.4 | 33.6 | 566 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 35.5 | 15.1 | 16.6 | 8.9 | 41.3 | 0.0 | 16.8 | 44.1 | 914 |
| Primary | 44.4 | 27.2 | 17.8 | 8.1 | 46.2 | 0.0 | 27.1 | 37.4 | 696 |
| Secondary | 44.2 | 22.4 | 15.7 | 5.9 | 46.2 | 0.0 | 21.2 | 37.1 | 2,789 |
| More than secondary | 36.9 | 13.5 | 11.7 | 4.3 | 37.3 | 0.0 | 12.0 | 42.3 | 521 |

Continued...

Table 17.10-Continued

|  | Percentage of women whose husband/intimate partner: |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Is jealous or angry if she talks to other men | Wrongly accuses her of being unfaithful | Does not permit her to meet her female friends | Tries to limit her contact with her family | Insists on knowing where she is at all times | Does not trust her with any money | Displays 3 or more of the specific behaviours | Displays none of the specific behaviours | Number of women who ever had a husband/ intimate partner |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 37.1 | 19.2 | 16.0 | 10.0 | 43.6 | 0.0 | 19.5 | 41.6 | 797 |
| Second | 45.3 | 22.6 | 16.5 | 8.1 | 49.2 | 0.0 | 24.3 | 37.1 | 887 |
| Middle | 44.8 | 25.8 | 16.1 | 6.2 | 47.9 | 0.0 | 24.5 | 37.2 | 983 |
| Fourth | 42.2 | 20.5 | 16.4 | 5.2 | 44.6 | 0.0 | 17.9 | 36.9 | 1,157 |
| Highest | 39.5 | 16.3 | 13.8 | 4.8 | 37.6 | 0.0 | 16.1 | 42.5 | 1,095 |
| Woman afraid of husband/ intimate partner |  |  |  |  |  |  |  |  |  |
| Afraid most of the time | 53.6 | 30.1 | 30.8 | 19.0 | 62.9 | 0.0 | 39.3 | 25.6 | 321 |
| Sometimes afraid | 51.5 | 27.1 | 19.7 | 9.2 | 52.0 | 0.0 | 28.2 | 29.9 | 946 |
| Never afraid | 38.3 | 18.3 | 13.4 | 4.8 | 40.8 | 0.0 | 16.5 | 42.5 | 3,653 |
| Total | 41.9 | 20.8 | 15.7 | 6.6 | 44.4 | 0.0 | 20.2 | 39.0 | 4,919 |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 17.11 Intimate partner violence by background characteristics
Percentage of women age 15-49 who have ever had a husband or intimate partner and have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/intimate partner, according to background characteristics, Ghana DHS 2022

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Number of women who ever had a husband/ intimate partner |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 19.7 | 11.6 | 7.2 | 2.1 | 2.0 | 16.6 | 26.0 | 351 |
| 20-24 | 28.8 | 15.3 | 7.2 | 3.2 | 2.9 | 19.2 | 33.7 | 872 |
| 25-29 | 28.7 | 12.0 | 6.3 | 3.6 | 3.6 | 14.7 | 33.0 | 884 |
| 30-39 | 29.3 | 15.9 | 9.0 | 4.5 | 4.3 | 20.4 | 34.8 | 1,635 |
| 40-49 | 41.4 | 24.6 | 9.8 | 6.9 | 6.0 | 27.5 | 45.3 | 1,177 |
| Religion |  |  |  |  |  |  |  |  |
| Catholic | 26.2 | 12.0 | 7.2 | 2.6 | 2.5 | 16.7 | 31.0 | 394 |
| Anglican | (25.8) | (19.6) | (5.7) | (0.2) | (0.2) | (25.0) | (42.9) | 50 |
| Methodist | 35.6 | 19.2 | 7.2 | 5.3 | 4.2 | 21.0 | 39.4 | 265 |
| Presbyterian | 34.2 | 12.8 | 9.9 | 3.9 | 3.9 | 18.8 | 37.3 | 287 |
| Pentecostal/Charismatic | 31.6 | 17.2 | 9.0 | 5.2 | 4.8 | 21.0 | 36.1 | 2,094 |
| Other Christian | 34.2 | 17.6 | 9.6 | 5.0 | 4.7 | 22.3 | 39.2 | 720 |
| Islam | 27.5 | 15.3 | 5.3 | 2.9 | 2.8 | 17.7 | 32.2 | 926 |
| Traditional/spiritualist | 38.7 | 27.8 | 12.4 | 9.1 | 9.1 | 31.1 | 44.8 | 85 |
| No religion | 35.3 | 30.9 | 9.1 | 5.7 | 5.7 | 34.3 | 49.0 | 95 |
| Other |  | * | * | * | * |  |  | 4 |
| Ethnic group |  |  |  |  |  |  |  |  |
| Akan | 30.9 | 16.5 | 8.1 | 4.8 | 4.5 | 19.8 | 35.4 | 2,312 |
| $\mathrm{Ga} /$ Dangme | 33.1 | 17.9 | 8.7 | 4.5 | 4.4 | 22.0 | 35.7 | 318 |
| Ewe | 35.4 | 19.7 | 10.8 | 6.9 | 5.9 | 23.5 | 41.0 | 562 |
| Guan | 37.8 | 20.8 | 10.3 | 5.3 | 4.6 | 25.9 | 43.4 | 148 |
| Mole-Dagbani | 27.8 | 15.4 | 6.9 | 2.7 | 2.6 | 19.6 | 34.1 | 906 |
| Grusi | 29.4 | 14.2 | 5.2 | 0.7 | 0.4 | 18.7 | 33.8 | 156 |
| Gurma | 34.4 | 18.3 | 8.5 | 4.8 | 4.6 | 22.0 | 39.3 | 345 |
| Mande | 26.5 | 13.4 | 9.7 | 4.3 | 4.3 | 18.8 | 28.5 | 140 |
| Other | (37.2) | (18.9) | (3.6) | (2.2) | (0.5) | (20.3) | (43.6) | 32 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 29.9 | 15.2 | 8.4 | 5.0 | 4.5 | 18.6 | 34.2 | 2,772 |
| Rural | 33.2 | 19.0 | 8.1 | 3.9 | 3.7 | 23.2 | 38.7 | 2,148 |
| Region |  |  |  |  |  |  |  |  |
| Western | 36.1 | 20.6 | 8.0 | 4.2 | 4.2 | 24.3 | 40.2 | 317 |
| Central | 38.7 | 20.8 | 11.5 | 6.7 | 5.9 | 25.5 | 44.0 | 558 |
| Greater Accra | 31.2 | 12.4 | 6.9 | 4.3 | 3.7 | 15.0 | 33.5 | 784 |
| Volta | 39.0 | 18.1 | 14.2 | 7.2 | 7.0 | 25.0 | 43.6 | 225 |
| Eastern | 30.6 | 17.4 | 6.1 | 4.0 | 3.6 | 19.5 | 34.2 | 403 |
| Ashanti | 27.2 | 15.1 | 9.4 | 4.5 | 4.4 | 19.9 | 33.5 | 986 |
| Western North | 25.7 | 14.9 | 8.5 | 5.4 | 5.4 | 18.1 | 30.4 | 128 |
| Ahafo | 32.6 | 20.1 | 8.0 | 2.2 | 1.3 | 25.9 | 44.0 | 105 |
| Bono | 23.5 | 14.7 | 3.1 | 2.9 | 2.6 | 15.0 | 26.3 | 184 |
| Bono East | 25.3 | 14.9 | 4.9 | 3.2 | 2.9 | 16.6 | 28.7 | 204 |
| Oti | 33.8 | 19.5 | 13.6 | 8.2 | 7.7 | 25.0 | 40.9 | 130 |
| Northern | 34.1 | 21.2 | 5.4 | 2.7 | 2.7 | 23.9 | 40.1 | 367 |
| Savannah | 43.6 | 25.6 | 16.0 | 7.4 | 6.1 | 34.1 | 53.4 | 104 |
| North East | 23.9 | 14.5 | 3.9 | 1.9 | 1.9 | 16.5 | 27.2 | 90 |
| Upper East | 29.8 | 16.4 | 5.2 | 2.2 | 2.0 | 19.4 | 34.0 | 208 |
| Upper West | 20.7 | 12.9 | 8.2 | 3.4 | 3.4 | 17.7 | 27.4 | 126 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 21.6 | 8.1 | 6.4 | 2.1 | 1.9 | 12.4 | 26.4 | 1,094 |
| Currently has intimate partner | 20.4 | 7.8 | 5.6 | 2.0 | 1.8 | 11.4 | 24.6 | 846 |
| Had intimate partner | 25.6 | 9.1 | 9.2 | 2.5 | 2.5 | 15.8 | 32.3 | 248 |
| Ever married | 34.1 | 19.4 | 8.8 | 5.2 | 4.8 | 22.9 | 39.0 | 3,825 |
| Married/living together | 31.4 | 17.2 | 7.6 | 4.1 | 3.8 | 20.7 | 36.2 | 3,259 |
| Divorced/separated/widowed | 49.8 | 31.8 | 15.6 | 11.6 | 10.5 | 35.8 | 54.7 | 566 |
| Employment |  |  |  |  |  |  |  |  |
| Employed for cash | 34.6 | 18.4 | 8.6 | 4.9 | 4.5 | 22.0 | 39.5 | 3,365 |
| Employed not for cash | 25.1 | 14.6 | 5.9 | 3.7 | 3.6 | 16.8 | 28.9 | 835 |
| Not employed | 23.2 | 12.4 | 9.5 | 3.6 | 3.4 | 18.3 | 29.1 | 719 |
| Education |  |  |  |  |  |  |  |  |
| No education | 35.8 | 23.7 | 9.3 | 5.1 | 4.9 | 27.9 | 42.1 | 914 |
| Primary | 40.4 | 22.2 | 9.2 | 3.5 | 3.4 | 27.9 | 44.9 | 696 |
| Secondary | 29.8 | 15.4 | 8.3 | 5.1 | 4.6 | 18.6 | 34.5 | 2,789 |
| More than secondary | 19.4 | 5.6 | 4.8 | 1.6 | 1.6 | 8.8 | 23.0 | 521 |

Continued.

Table 17.11—Continued
$\left.\begin{array}{lccccccc}\hline & & & & & & & \begin{array}{c}\text { Number of } \\ \text { women who } \\ \text { ever had a } \\ \text { husband/ } \\ \text { intimate }\end{array} \\ \text { partner }\end{array}\right]$

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 17.12 Intimate partner violence by husband's/intimate partner's characteristics and women's empowerment indicators
Percentage of women age 15-49 who have ever had a husband or intimate partner and have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/intimate partner, according to the husband's/intimate partner's characteristics and women's empowerment indicators, Ghana DHS 2022

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Number of women who ever had a husband/ intimate partner |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Husband's/intimate partner's alcohol consumption |  |  |  |  |  |  |  |  |
| Does not drink alcohol | 24.6 | 12.3 | 5.0 | 2.1 | 2.0 | 15.2 | 29.2 | 3,447 |
| Drinks alcohol but is never drunk | 43.2 | 18.2 | 8.8 | 6.4 | 4.8 | 20.7 | 45.7 | 263 |
| Is sometimes drunk | 40.7 | 22.7 | 13.3 | 8.0 | 7.2 | 28.0 | 46.9 | 887 |
| Is often drunk | 67.7 | 48.1 | 28.8 | 19.4 | 18.9 | 57.5 | 73.5 | 323 |
| Husband's education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 34.9 | 20.7 | 7.2 | 3.9 | 3.4 | 24.1 | 40.6 | 690 |
| Primary | 42.9 | 30.7 | 7.4 | 4.3 | 3.5 | 33.7 | 53.5 | 296 |
| Secondary | 30.5 | 16.0 | 7.9 | 4.6 | 4.4 | 19.3 | 34.3 | 1,752 |
| More than secondary | 21.4 | 7.2 | 7.3 | 2.6 | 2.5 | 11.9 | 25.5 | 483 |
| Don't know/missing | (43.6) | (31.4) | (4.9) | (2.1) | (2.1) | (34.2) | (48.7) | 38 |
| Spousal education difference ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Husband better educated | 32.5 | 17.9 | 9.0 | 4.5 | 4.2 | 22.5 | 37.4 | 1,264 |
| Wife better educated | 35.6 | 18.6 | 6.6 | 4.3 | 3.6 | 20.9 | 41.8 | 570 |
| Both equally educated | 26.2 | 12.6 | 6.6 | 3.9 | 3.8 | 15.4 | 29.7 | 901 |
| Neither educated | 32.2 | 21.0 | 7.0 | 3.4 | 3.1 | 24.7 | 38.1 | 486 |
| Don't know/missing | (43.6) | (31.4) | (4.9) | (2.1) | (2.1) | (34.2) | (48.7) | 38 |
| Spousal age difference ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Wife older | 30.2 | 18.9 | 12.1 | 7.4 | 6.2 | 23.6 | 36.1 | 155 |
| Wife is same age | 31.9 | 19.6 | 6.1 | 2.9 | 2.9 | 22.8 | 34.7 | 135 |
| Wife 1-4 years younger | 29.3 | 18.1 | 8.2 | 4.7 | 4.6 | 21.6 | 35.2 | 1,102 |
| Wife 5-9 years younger | 30.4 | 16.7 | 6.6 | 3.8 | 3.7 | 19.5 | 34.7 | 1,045 |
| Wife 10 or more years younger | 35.5 | 16.0 | 7.4 | 3.1 | 2.6 | 20.3 | 39.9 | 821 |
| Number of decisions in which women participate ${ }^{2}$ |  |  |  |  |  |  |  |  |
| 0 | 27.6 | 15.8 | 7.0 | 3.2 | 3.1 | 19.6 | 32.0 | 368 |
| 1-2 | 33.4 | 18.4 | 8.8 | 4.3 | 4.2 | 22.8 | 39.6 | 1,105 |
| 3 | 30.9 | 16.8 | 7.0 | 4.2 | 3.7 | 19.6 | 35.1 | 1,785 |
| Number of controlling behaviours displayed by husband/intimate partner ${ }^{3}$ |  |  |  |  |  |  |  |  |
| 0 | 16.3 | 6.7 | 2.5 | 0.7 | 0.6 | 8.5 | 19.8 | 1,918 |
| 1-2 | 31.3 | 15.9 | 8.1 | 3.6 | 3.2 | 20.4 | 37.4 | 2,006 |
| 3-4 | 57.1 | 36.5 | 17.5 | 12.9 | 12.0 | 41.1 | 62.2 | 871 |
| 5 | 82.1 | 52.1 | 35.7 | 20.3 | 20.1 | 67.6 | 86.0 | 125 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |  |  |
| 0 | 29.2 | 14.2 | 7.8 | 4.3 | 4.0 | 17.7 | 33.5 | 3,956 |
| 1-2 | 39.4 | 25.5 | 11.3 | 5.3 | 5.0 | 31.5 | 45.6 | 635 |
| 3-4 | 39.0 | 31.7 | 7.3 | 5.9 | 5.0 | 33.0 | 48.1 | 244 |
| 5 | 45.7 | 32.8 | 9.2 | 2.7 | 2.7 | 39.3 | 55.7 | 84 |
| Woman's father beat mother |  |  |  |  |  |  |  |  |
| Yes | 43.5 | 26.2 | 15.0 | 7.3 | 7.0 | 33.9 | 52.3 | 608 |
| No | 29.3 | 15.3 | 7.2 | 4.0 | 3.7 | 18.5 | 33.5 | 4,191 |
| Don't know | 39.5 | 24.2 | 10.2 | 8.6 | 7.2 | 25.7 | 47.8 | 120 |
| Woman afraid of husband/ intimate partner |  |  |  |  |  |  |  |  |
| Afraid most of the time | 61.4 | 51.9 | 25.1 | 19.6 | 18.9 | 57.4 | 71.1 | 321 |
| Sometimes afraid | 45.8 | 26.7 | 13.1 | 6.8 | 6.5 | 33.1 | 52.1 | 946 |
| Never afraid | 24.9 | 11.2 | 5.5 | 2.6 | 2.3 | 14.1 | 29.0 | 3,653 |
| Total | 31.3 | 16.9 | 8.2 | 4.5 | 4.2 | 20.6 | 36.2 | 4,919 |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes only currently married women
${ }^{2}$ According to the wife's report. Includes only currently married women. See Table 15.8.1 for list of decisions.
${ }^{3}$ According to the woman's report. See Table 17.9 for list of behaviours.
${ }^{4}$ According to the woman's report. See Table 15.9.1 for list of reasons.

Table 17.13 Violence by any husband or intimate partner in the last 12 months
Percentage of women age 15-49 who have ever had a husband or intimate partner and experienced emotional, physical, or sexual violence by any husband/intimate partner in the last 12 months, according to background characteristics, Ghana DHS 2022

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Physical and sexual and emotional | Physical or sexual | Physical or sexual or emotional | Number of women who ever had a husband/ intimate partner |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 19.3 | 10.5 | 7.6 | 1.9 | 1.9 | 16.1 | 25.0 | 351 |
| 20-24 | 27.5 | 13.1 | 5.5 | 2.5 | 2.3 | 16.1 | 31.1 | 872 |
| 25-29 | 24.7 | 8.2 | 5.3 | 3.1 | 3.0 | 10.4 | 27.3 | 884 |
| 30-39 | 24.5 | 9.2 | 7.2 | 3.1 | 3.1 | 13.3 | 27.7 | 1,635 |
| 40-49 | 27.8 | 9.3 | 5.0 | 2.8 | 2.6 | 11.5 | 29.1 | 1,177 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 23.9 | 8.7 | 6.0 | 3.1 | 3.0 | 11.6 | 26.6 | 2,772 |
| Rural | 27.5 | 11.3 | 6.1 | 2.5 | 2.4 | 14.9 | 30.7 | 2,148 |
| Region |  |  |  |  |  |  |  |  |
| Western | 25.7 | 10.3 | 5.7 | 3.0 | 3.0 | 12.9 | 28.2 | 317 |
| Central | 32.6 | 10.1 | 8.3 | 3.7 | 3.5 | 14.6 | 34.8 | 558 |
| Greater Accra | 23.3 | 4.9 | 4.5 | 2.4 | 2.4 | 6.9 | 24.0 | 784 |
| Volta | 33.3 | 11.5 | 12.3 | 5.4 | 5.4 | 18.4 | 36.3 | 225 |
| Eastern | 24.5 | 12.4 | 4.1 | 2.9 | 2.7 | 13.6 | 27.0 | 403 |
| Ashanti | 20.8 | 7.3 | 6.0 | 2.2 | 2.2 | 11.1 | 24.1 | 986 |
| Western North | 22.6 | 9.4 | 7.9 | 3.5 | 3.5 | 13.8 | 25.8 | 128 |
| Ahafo | 30.7 | 15.3 | 6.8 | 2.3 | 1.3 | 19.8 | 38.5 | 105 |
| Bono | 16.1 | 8.4 | 1.5 | 1.5 | 1.2 | 8.4 | 18.3 | 184 |
| Bono East | 22.5 | 10.0 | 4.0 | 2.4 | 2.0 | 11.6 | 24.6 | 204 |
| Oti | 28.2 | 13.9 | 10.6 | 6.2 | 6.2 | 18.2 | 32.3 | 130 |
| Northern | 31.7 | 16.8 | 5.2 | 2.5 | 2.5 | 19.5 | 36.7 | 367 |
| Savannah | 39.4 | 17.0 | 12.6 | 4.7 | 4.3 | 24.9 | 46.9 | 104 |
| North East | 23.0 | 13.1 | 3.2 | 1.4 | 1.4 | 14.8 | 25.6 | 90 |
| Upper East | 26.4 | 12.4 | 4.2 | 1.8 | 1.8 | 14.8 | 29.5 | 208 |
| Upper West | 18.0 | 8.2 | 7.3 | 2.7 | 2.5 | 12.7 | 22.2 | 126 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 19.4 | 5.9 | 5.3 | 1.7 | 1.6 | 9.4 | 22.7 | 1,094 |
| Currently has intimate partner | 20.4 | 6.6 | 5.6 | 1.8 | 1.6 | 10.4 | 24.3 | 846 |
| Had intimate partner | 15.7 | 3.4 | 4.2 | 1.5 | 1.5 | 6.2 | 17.3 | 248 |
| Ever married | 27.3 | 11.0 | 6.3 | 3.2 | 3.1 | 14.1 | 30.0 | 3,825 |
| Married/living together | 28.1 | 11.2 | 6.5 | 3.2 | 3.1 | 14.5 | 31.1 | 3,259 |
| Divorced/separated/widowed | 22.6 | 9.6 | 4.8 | 2.9 | 2.9 | 11.5 | 23.8 | 566 |
| Education |  |  |  |  |  |  |  |  |
| No education | 30.6 | 13.8 | 7.2 | 3.5 | 3.4 | 17.6 | 34.3 | 914 |
| Primary | 34.6 | 12.9 | 7.0 | 2.3 | 2.3 | 17.6 | 37.1 | 696 |
| Secondary | 23.6 | 9.1 | 5.9 | 3.1 | 2.9 | 12.0 | 26.5 | 2,789 |
| More than secondary | 14.3 | 2.5 | 3.5 | 1.3 | 1.3 | 4.7 | 16.3 | 521 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 29.3 | 13.1 | 6.0 | 2.3 | 2.0 | 16.8 | 33.2 | 797 |
| Second | 28.3 | 10.2 | 5.5 | 2.3 | 2.2 | 13.4 | 31.1 | 887 |
| Middle | 30.3 | 13.3 | 8.0 | 4.1 | 4.0 | 17.1 | 33.9 | 983 |
| Fourth | 23.1 | 9.9 | 6.8 | 3.6 | 3.5 | 13.1 | 25.9 | 1,157 |
| Highest | 18.8 | 4.0 | 4.1 | 1.8 | 1.7 | 6.3 | 20.3 | 1,095 |
| Total | 25.5 | 9.8 | 6.1 | 2.9 | 2.7 | 13.0 | 28.4 | 4,919 |

Note: The term husband includes a partner with whom a woman is living as if married. Any husband/intimate partner includes all current, most recent, and former husbands for ever-married women and all current, most recent, or former intimate partners for never-married women.

Table 17.14 Injuries to women due to intimate partner violence
Among women age 15-49 who have ever had a husband or intimate partner and have experienced violence committed by their current or most recent husband/intimate partner, percentage who have been injured as a result of the violence, by types of injuries, according to type of violence, Ghana DHS 2022

| Type of violence experienced | Cuts, bruises, or aches | Eye injuries, sprains, dislocations, or burns | Deep wounds, broken bones, broken teeth, or any other serious injury | Any of these injuries | Number of women who have experienced specified type of violence |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical violence ${ }^{1}$ |  |  |  |  |  |
| Ever ${ }^{2}$ | 31.1 | 17.0 | 9.7 | 37.2 | 829 |
| Last 12 months | 31.8 | 19.5 | 10.2 | 39.5 | 463 |
| Sexual violence |  |  |  |  |  |
| Ever ${ }^{2}$ | 29.6 | 16.7 | 9.0 | 34.0 | 406 |
| Last 12 months | 24.3 | 16.2 | 10.2 | 30.1 | 289 |
| Physical or sexual violence ${ }^{1}$ |  |  |  |  |  |
| Ever ${ }^{2}$ | 26.1 | 14.3 | 8.0 | 31.4 | 1,013 |
| Last 12 months | 25.0 | 15.5 | 7.8 | 31.5 | 617 |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past.
${ }^{1}$ Excludes women who reported violence only in response to a direct question on violence during pregnancy
${ }^{2}$ Includes in the last 12 months

Table 17.15 Violence by women against their husband/intimate partner by women's background characteristics

Percentage of women age 15-49 who have ever had a husband or intimate partner and have committed physical violence against their current or most recent husband/intimate partner when he was not already beating or physically hurting them, ever and in the last 12 months, according to women's own experience of intimate partner violence and background characteristics, Ghana DHS 2022

| Background characteristic | Percentage who have committed physical violence against their husband/ intimate partner |  | Number of women who ever had a husband/ intimate partner |
| :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | In the last 12 months |  |
| Women's experience of physical intimate partner violence |  |  |  |
| Ever ${ }^{1}$ | 23.4 | 14.9 | 829 |
| In the last 12 months | 24.2 | 21.4 | 463 |
| Never | 3.6 | 2.4 | 4,090 |
| Age |  |  |  |
| 15-19 | 5.3 | 4.6 | 351 |
| 20-24 | 7.0 | 5.8 | 872 |
| 25-29 | 5.6 | 4.4 | 884 |
| 30-39 | 6.5 | 4.3 | 1,635 |
| 40-49 | 9.1 | 3.9 | 1,177 |
| Religion |  |  |  |
| Catholic | 4.3 | 2.5 | 394 |
| Anglican | (9.3) | (3.4) | 50 |
| Methodist | 10.8 | 9.1 | 265 |
| Presbyterian | 6.8 | 4.0 | 287 |
| Pentecostal/Charismatic | 7.7 | 4.8 | 2,094 |
| Other Christian | 10.2 | 6.5 | 720 |
| Islam | 2.5 | 1.6 | 926 |
| Traditional/spiritualist | 3.5 | 3.5 | 85 |
| No religion | 13.4 | 10.7 | 95 |
| Other | * | * | 4 |
| Ethnic group |  |  |  |
| Akan | 10.5 | 6.6 | 2,312 |
| $\mathrm{Ga} /$ Dangme | 6.6 | 3.8 | 318 |
| Ewe | 6.3 | 5.4 | 562 |
| Guan | 3.4 | 2.9 | 148 |
| Mole-Dagbani | 2.3 | 1.5 | 906 |
| Grusi | 4.2 | 3.6 | 156 |
| Gurma | 1.6 | 0.7 | 345 |
| Mande | 2.5 | 1.3 | 140 |
| Other | (8.3) | (0.5) | 32 |
| Residence |  |  |  |
| Urban | 7.2 | 4.6 | 2,772 |
| Rural | 6.7 | 4.4 | 2,148 |
| Region |  |  |  |
| Western | 7.4 | 4.7 | 317 |
| Central | 8.7 | 5.3 | 558 |
| Greater Accra | 4.0 | 2.2 | 784 |
| Volta | 5.2 | 4.0 | 225 |
| Eastern | 7.8 | 6.6 | 403 |
| Ashanti | 14.9 | 9.4 | 986 |
| Western North | 9.3 | 4.7 | 128 |
| Ahafo | 4.5 | 3.0 | 105 |
| Bono | 2.5 | 2.2 | 184 |
| Bono East | 2.6 | 0.9 | 204 |
| Oti | 1.7 | 1.3 | 130 |
| Northern | 1.9 | 1.9 | 367 |
| Savannah | 1.1 | 0.5 | 104 |
| North East | 3.4 | 3.4 | 90 |
| Upper East | 3.7 | 1.5 | 208 |
| Upper West | 2.1 | 1.5 | 126 |
| Marital status |  |  |  |
| Never married | 5.1 | 3.6 | 1,094 |
| Currently has intimate partner | 5.8 | 4.0 | 846 |
| Had intimate partner | 2.9 | 2.1 | 248 |
| Ever married | 7.5 | 4.8 | 3,825 |
| Married/living together | 6.6 | 4.6 | 3,259 |
| Divorced/separated/widowed | 12.9 | 6.0 | 566 |
| Employment |  |  |  |
| Employed for cash | 8.0 | 4.8 | 3,365 |
| Employed not for cash | 5.2 | 4.4 | 835 |
| Not employed | 4.1 | 3.5 | 719 |

Continued...

Table 17.15-Continued

|  | Percentage who have <br> committed physical violence <br> against their husband/ <br> intimate partner | Number of <br> women who <br> ever had a <br> husband/ |  |
| :--- | :---: | :---: | ---: |
| intimate |  |  |  |
| Background | Ever ${ }^{1}$ | In the last <br> partner |  |
| characteristic |  |  |  |
| Education | 5.6 | 3.9 | 914 |
| No education | 8.4 | 5.7 | 696 |
| Primary | 7.6 | 4.9 | 2,789 |
| Secondary | 3.9 | 1.7 | 521 |
| More than secondary |  |  |  |
| Wealth quintile | 2.7 | 1.4 | 797 |
| Lowest | 9.9 | 6.7 | 887 |
| Second | 8.6 | 6.0 | 983 |
| Middle | 7.6 | 4.7 | 1,157 |
| Fourth | 5.6 | 3.4 | 1,095 |
| Highest | 7.0 | 4.5 | 4,919 |
| Total |  |  |  |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past. Figures in parentheses are based on $25-$ 49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes in the last 12 months

Table 17.16 Violence by women against their husband/intimate partner by husband's/intimate partner's characteristics and women's empowerment indicators
Percentage of women age 15-49 who have ever had a husband or intimate partner and have committed physical violence against their current or most recent husband/intimate partner when he was not already beating or physically hurting them, ever and in the last 12 months, according to their husband's/intimate partner's characteristics and women's empowerment indicators, Ghana DHS 2022

| Background characteristic | Percentage who committed physical violence against their husband/ intimate partner |  | Number of women who ever had a husband/ intimate partner |
| :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | Last 12 months |  |
| Husband's/intimate partner's alcohol consumption |  |  |  |
| Does not drink alcohol | 4.4 | 3.1 | 3,447 |
| Drinks alcohol but is never drunk | 7.1 | 2.7 | 263 |
| Is sometimes drunk | 11.5 | 6.5 | 887 |
| Is often drunk | 22.3 | 15.8 | 323 |
| Husband's education ${ }^{2}$ |  |  |  |
| No education | 6.0 | 3.8 | 690 |
| Primary | 7.9 | 6.2 | 296 |
| Secondary | 7.5 | 5.6 | 1,752 |
| More than secondary | 2.9 | 0.8 | 483 |
| Don't know/missing | (9.6) | (9.6) | 38 |
| Spousal education difference ${ }^{2}$ |  |  |  |
| Husband better educated | 6.7 | 4.5 | 1,264 |
| Wife better educated | 8.4 | 5.3 | 570 |
| Both equally educated | 6.5 | 4.9 | 901 |
| Neither educated | 3.9 | 2.8 | 486 |
| Don't know /missing | (9.6) | (9.6) | 38 |
| Spousal age difference ${ }^{2}$ |  |  |  |
| Wife older | 3.5 | 1.5 | 155 |
| Wife is same age | 7.9 | 7.5 | 135 |
| Wife 1-4 years younger | 6.9 | 4.8 | 1,102 |
| Wife 5-9 years younger | 6.7 | 5.2 | 1,045 |
| Wife 10 or more years younger | 6.2 | 3.7 | 821 |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |
| 0 | 3.3 | 2.8 | 368 |
| 1-2 | 7.9 | 6.5 | 1,105 |
| 3 | 6.4 | 3.8 | 1,785 |
| Number of controlling behaviours displayed by husband/intimate partner ${ }^{4}$ |  |  |  |
| 0 | 2.6 | 1.0 | 1,918 |
| 1-2 | 7.8 | 5.0 | 2,006 |
| 3-4 | 12.1 | 9.4 | 871 |
| 5 | 25.5 | 17.3 | 125 |
| Number of reasons for which wife beating is justified ${ }^{5}$ |  |  |  |
| 0 | 6.5 | 4.0 | 3,956 |
| 1-2 | 11.7 | 9.1 | 635 |
| 3-4 | 4.7 | 2.5 | 244 |
| 5 | 1.6 | 1.6 | 84 |
| Woman's father beat mother |  |  |  |
| Yes | 16.1 | 10.8 | 608 |
| No | 5.6 | 3.7 | 4,191 |
| Don't know | 7.0 | 0.8 | 120 |
| Woman afraid of husband/intimate partner |  |  |  |
| Afraid most of the time | 8.1 | 5.8 | 321 |
| Sometimes afraid | 7.7 | 6.1 | 946 |
| Never afraid | 6.7 | 4.0 | 3,653 |
| Total | 7.0 | 4.5 | 4,919 |

Note: The term husband includes a partner with whom a woman is living as if married. Husband/intimate partner refers to the current husband for currently married women; the most recent husband for divorced, separated, or widowed women; the current intimate partner for never-married women who currently have an intimate partner; and the most recent intimate partner for never-married women who do not currently have an intimate partner but had one in the past. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes in the last 12 months
${ }^{2}$ Includes only currently married women
${ }^{3}$ According to the wife's report. Includes only currently married women. See Table 15.8.1 for list of decisions.
${ }^{4}$ According to the woman's report. See Table 17.9 for list of behaviours.
${ }^{5}$ According to the woman's report. See Table 15.9.1 for list of reasons.

Table 17.17 Help seeking to stop violence
Percent distribution of women age 15-49 who have ever experienced physical or sexual violence by their help-seeking behaviour, according to type of violence and background characteristics, Ghana DHS 2022

| Type of violence/ background characteristic | Sought help to stop violence | Never sought help but told someone | Never sought help, never told anyone | Don't know | Total | Number of women who have ever experienced any physical or sexual violence |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of violence experienced |  |  |  |  |  |  |
| Physical only | 36.1 | 9.7 | 54.2 | 0.0 | 100.0 | 1,377 |
| Sexual only | 28.0 | 13.5 | 58.5 | 0.0 | 100.0 | 284 |
| Both physical and sexual | 50.1 | 9.6 | 40.3 | 0.0 | 100.0 | 525 |
| Age |  |  |  |  |  |  |
| 15-19 | 32.4 | 13.5 | 54.1 | 0.0 | 100.0 | 296 |
| 20-24 | 37.6 | 7.8 | 54.6 | 0.0 | 100.0 | 387 |
| 25-29 | 39.1 | 12.2 | 48.7 | 0.0 | 100.0 | 334 |
| 30-39 | 38.5 | 8.8 | 52.7 | 0.0 | 100.0 | 651 |
| 40-49 | 41.9 | 10.5 | 47.7 | 0.0 | 100.0 | 518 |
| Religion |  |  |  |  |  |  |
| Catholic | 40.3 | 9.9 | 49.8 | 0.0 | 100.0 | 163 |
| Anglican | * | * |  | * | 100.0 | 22 |
| Methodist | 49.3 | 14.1 | 36.6 | 0.0 | 100.0 | 115 |
| Presbyterian | 43.2 | 12.2 | 44.6 | 0.0 | 100.0 | 124 |
| Pentecostal/Charismatic | 40.2 | 10.9 | 48.8 | 0.0 | 100.0 | 983 |
| Other Christian | 34.6 | 10.1 | 55.2 | 0.0 | 100.0 | 317 |
| Islam | 29.9 | 9.1 | 61.1 | 0.0 | 100.0 | 362 |
| Traditional/spiritualist | (28.8) | (6.1) | (65.1) | (0.0) | 100.0 | 40 |
| No religion | 42.1 | 0.0 | 57.9 | 0.0 | 100.0 | 56 |
| Other | * |  |  |  | 100.0 | 3 |
| Ethnic group |  |  |  |  |  |  |
| Akan | 43.2 | 11.6 | 45.2 | 0.0 | 100.0 | 1,020 |
| Ga/Dangme | 34.9 | 9.5 | 55.6 | 0.0 | 100.0 | 154 |
| Ewe | 38.9 | 10.5 | 50.6 | 0.0 | 100.0 | 304 |
| Guan | 42.4 | 9.8 | 47.8 | 0.0 | 100.0 | 69 |
| Mole-Dagbani | 30.8 | 8.5 | 60.6 | 0.0 | 100.0 | 366 |
| Grusi | 25.0 | 14.8 | 60.1 | 0.0 | 100.0 | 59 |
| Gurma | 32.0 | 2.9 | 65.1 | 0.0 | 100.0 | 152 |
| Mande | 40.9 | 11.6 | 47.5 | 0.0 | 100.0 | 46 |
| Other | * | * | * | * | 100.0 | 15 |
| Residence |  |  |  |  |  |  |
| Urban | 38.1 | 11.7 | 50.2 | 0.0 | 100.0 | 1,229 |
| Rural | 38.7 | 8.2 | 53.0 | 0.0 | 100.0 | 958 |
| Region |  |  |  |  |  |  |
| Western | 43.9 | 3.3 | 52.9 | 0.0 | 100.0 | 132 |
| Central | 40.6 | 9.0 | 50.4 | 0.0 | 100.0 | 325 |
| Greater Accra | 30.7 | 19.2 | 50.1 | 0.0 | 100.0 | 333 |
| Volta | 45.5 | 7.2 | 47.3 | 0.0 | 100.0 | 121 |
| Eastern | 50.6 | 9.0 | 40.4 | 0.0 | 100.0 | 166 |
| Ashanti | 47.9 | 10.3 | 41.8 | 0.0 | 100.0 | 452 |
| Western North | 37.3 | 14.0 | 48.8 | 0.0 | 100.0 | 47 |
| Ahafo | 28.4 | 6.7 | 64.9 | 0.0 | 100.0 | 44 |
| Bono | 31.7 | 17.0 | 51.3 | 0.0 | 100.0 | 63 |
| Bono East | 32.3 | 6.5 | 61.2 | 0.0 | 100.0 | 66 |
| Oti | 46.5 | 1.5 | 52.0 | 0.0 | 100.0 | 64 |
| Northern | 16.3 | 5.1 | 78.6 | 0.0 | 100.0 | 152 |
| Savannah | 30.6 | 6.0 | 63.4 | 0.0 | 100.0 | 59 |
| North East | 49.9 | 2.7 | 47.3 | 0.0 | 100.0 | 25 |
| Upper East | 25.5 | 17.2 | 57.3 | 0.0 | 100.0 | 93 |
| Upper West | 25.8 | 3.0 | 71.2 | 0.0 | 100.0 | 43 |
| Marital status |  |  |  |  |  |  |
| Never married | 33.6 | 15.4 | 51.0 | 0.0 | 100.0 | 612 |
| Never ever had intimate partner | 27.3 | 16.7 | 55.9 | 0.0 | 100.0 | 226 |
| Ever had intimate partner | 37.2 | 14.6 | 48.2 | 0.0 | 100.0 | 386 |
| Ever married | 40.3 | 8.2 | 51.6 | 0.0 | 100.0 | 1,574 |
| Married/living together | 37.7 | 7.6 | 54.6 | 0.0 | 100.0 | 1,248 |
| Divorced/separated/widowed | 49.9 | 10.3 | 39.8 | 0.0 | 100.0 | 326 |
| Employment |  |  |  |  |  |  |
| Employed for cash | 40.9 | 10.1 | 49.0 | 0.0 | 100.0 | 1,442 |
| Employed not for cash | 37.5 | 9.3 | 53.2 | 0.0 | 100.0 | 356 |
| Not employed | 29.7 | 11.4 | 58.9 | 0.0 | 100.0 | 388 |
| Education |  |  |  |  |  |  |
| No education | 30.6 | 4.5 | 64.9 | 0.0 | 100.0 | 378 |
| Primary | 44.4 | 5.3 | 50.2 | 0.0 | 100.0 | 380 |
| Secondary | 40.2 | 12.1 | 47.7 | 0.0 | 100.0 | 1,263 |
| More than secondary | 28.4 | 19.7 | 51.9 | 0.0 | 100.0 | 165 |

Continued...

Table 17.17—Continued
$\left.\begin{array}{lccccc}\hline & & & \begin{array}{c}\text { Number of } \\ \text { women who } \\ \text { have ever }\end{array} \\ \text { experienced any } \\ \text { physical or }\end{array}\right\}$

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

## Table 17.18 Sources for help to stop the violence

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help by sources from which they sought help, according to the type of violence that women reported, Ghana DHS 2022

|  | Type of violence experienced |  |  | Physical or <br> sexual |
| :--- | ---: | ---: | ---: | ---: |
| Source | Physical <br> only | Sexual <br> only | Both physical <br> and sexual |  |
| Own family | 71.9 | 77.1 | 68.5 | 71.3 |
| Husband/intimate partner's family | 25.9 | 7.2 | 22.7 | 23.1 |
| Current/former husband/intimate partner | 1.2 | 2.3 | 1.9 | 1.5 |
| Current/former boyfriend | 0.3 | 5.5 | 0.3 | 0.8 |
| Friend | 7.5 | 13.0 | 12.9 | 9.7 |
| Neighbour | 3.1 | 4.9 | 7.3 | 4.6 |
| Religious leader | 4.2 | 0.9 | 6.0 | 4.5 |
| Doctor/medical personnel | 1.2 | 1.0 | 1.7 | 1.3 |
| Police | 5.2 | 7.7 | 9.1 | 6.7 |
| Lawyer | 0.2 | 0.0 | 1.5 | 0.6 |
| Social work organisation | 0.6 | 0.0 | 1.1 | 0.7 |
| Other | 3.7 | 0.6 | 3.7 | 3.4 |
| Number of women who have sought help | 497 | 80 | 263 | 839 |

Note: Women can report more than one source from which they sought help.

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## A. 1 Introduction

The 2022 Ghana Demographic and Health Survey ( 2022 GDHS) is the seventh of its kind and follows those implemented in 1988, 1993, 1998, 2003, 2008, and 2014. The country's number of administrative regions has increased from 10 to 16 since the 2014 survey, requiring a substantial increase in sample size. A nationally representative sample of 618 clusters and 18,540 households was selected. All women age 15-49 who were usual residents of the selected households or who slept in the households the night before the survey were eligible to be interviewed. The survey resulted in 13,517 interviews with women age 1549. As with the previous surveys, the main objective of the 2022 GDHS was to provide up-to-date information on fertility and childhood mortality levels; fertility preferences; awareness, approval, and use of family planning methods; maternal and child health; knowledge and attitudes toward HIV/AIDS and other sexually transmitted infections (STIs); and the prevalence of HIV among the adult population.

A male survey was conducted at the same time in every second household selected for the female survey. All men age 15-59 who were usual residents of the selected households or who slept in the households the night before the survey were eligible for the male survey. The survey resulted in 7,044 interviews with men age 15-59. The survey collected information on their basic demographic and social status, their knowledge and use of family planning methods, and their knowledge of and attitudes toward HIV/AIDS and other sexually transmitted infections. Also in this subsample, all women age 15-49 who were eligible for the survey and all children under age 5 were measured for height and weight and tested for anaemia.

The survey was designed to provide representative estimates for the main demographic and health indictors for Ghana, for urban and rural areas separately, and for each of the 16 administrative regions.

## A. 2 Sampling Frame

The sampling frame used for the 2022 GDHS is the frame of the 2021 Ghana Population and Housing Census (PHC), provided by the Ghana Statistical Service (GSS). The census frame is a complete list of all census enumeration areas (EAs) created for the 2021 PHC, with a total number of 51,917 EAs. Ghana is administratively divided into 16 geographical regions, and each region is subdivided into districts. There are 261 districts in total.

Table A. 1 gives the population distribution by region and by type of residence. The regional distribution of the population varies greatly, from $1.8 \%$ in Ahafo to $17.9 \%$ in Greater Accra. The urbanisation of the regions also varies greatly; Greater Accra is $91.6 \%$ urban, while Upper East is only $24.6 \%$ urban. In Ghana, $56.0 \%$ of the population lives in urban areas.

Table A. 2 shows the household distribution by region and residence. The household distribution is slightly different from the population distribution because the average urban household size is smaller than the average rural household size. In Ghana, $60.7 \%$ of households are located in urban areas.

Table A. 3 gives the distribution of EAs and their average size in number of households by region and residence. There are in total 51,917 EAs, 26,295 in urban areas and 25,622 in rural areas. The average EA size is 161 households; urban EAs are larger on average (193 households) than rural EAs (128 households). The EA size is adequate for a primary sampling unit (PSU) with a sample take of 30 households per EA. The census frame includes some nonresidential EAs, most of which comprise temporary residents who may not have been present during the GDHS data collection; these EAs were excluded from sample selection for the 2022 GDHS.

Table A. 1 Distribution of the household population by region and type of residence

|  | Household population |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Region | Urban | Rural | Total | Urban $\%$ | Region $\%$ |
| Western | $1,030,916$ | 991,900 | $2,022,816$ | 51.0 | 6.7 |
| Central | $1,587,750$ | $1,183,736$ | $2,771,486$ | 57.3 | 9.2 |
| Greater Accra | $4,933,620$ | 450,648 | $5,384,268$ | 91.6 | 17.9 |
| Volta | 66,996 | 939,943 | $1,600,939$ | 41.3 | 5.3 |
| Eastern | $1,416,406$ | $1,404,354$ | $2,820,760$ | 50.2 | 9.4 |
| Ashanti | $3,181,537$ | $2,066,333$ | $5,247,870$ | 60.6 | 17.4 |
| Western North | 254,206 | 615,550 | 869,756 | 29.2 | 2.9 |
| Ahafo | 261,735 | 287,354 | 549,089 | 47.7 | 1.8 |
| Bono | 678,376 | 496,454 | $1,174,830$ | 57.7 | 3.9 |
| Bono East | 616,477 | 568,157 | $1,184,634$ | 52.0 | 3.9 |
| Oti | 233,329 | 499,418 | 732,747 | 318 | 2.4 |
| Northern | $1,063,664$ | $1,211,533$ | $2,275,197$ | 46.8 | 7.6 |
| Savannah | 188,512 | 458,269 | 646,781 | 29.1 | 2.2 |
| North East | 207,881 | 443,202 | 651,083 | 31.9 | 2.2 |
| Upper East | 313,325 | 958,747 | $1,272,072$ | 24.6 | 4.2 |
| Upper West | 220,020 | 655,454 | 875,474 | 25.1 | 2.9 |
| Ghana | $16,848,750$ | $13,231,052$ | $30,079,802$ | 56.0 | 100.0 |

Source: 2021 Population and Housing Census

| Table A. 2 Distribution of residential households by region and type of residence |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | Households |  |  |  |  |
| Region | Urban | Rural | Total | Urban $\%$ | Region $\%$ |
| Western | 328,507 | 292,842 | 621,349 | 52.9 | 7.4 |
| Central | 493,729 | 344,764 | 838,493 | 58.9 | 10.0 |
| Greater Accra | $1,578,935$ | 123,225 | $1,702,160$ | 92.8 | 20.3 |
| Volta | 213,475 | 277,898 | 491,373 | 43.4 | 5.9 |
| Eastern | 467,958 | 413,370 | 881,328 | 53.1 | 10.5 |
| Ashanti | 957,058 | 566,043 | $1,523,101$ | 62.8 | 18.2 |
| Western North | 77,168 | 162,918 | 240,086 | 32.1 | 2.9 |
| Ahafo | 79,497 | 73,304 | 152,801 | 52.0 | 1.8 |
| Bono | 197,788 | 120,206 | 317,994 | 62.2 | 3.8 |
| Bono East | 165,563 | 123,162 | 288,725 | 57.3 | 3.5 |
| Oti | 61,312 | 112,719 | 174,031 | 35.2 | 2.1 |
| Northern | 236,207 | 201,727 | 437,934 | 53.9 | 5.2 |
| Savannah | 43,558 | 89,556 | 133,114 | 32.7 | 1.6 |
| North East | 38,166 | 69,922 | 108,088 | 35.3 | 1.3 |
| Upper East | 75,114 | 189,290 | 264,404 | 28.4 | 3.2 |
| Upper West | 61,045 | 129,148 | 190,193 | 32.1 | 2.3 |
| Ghana | $5,075,080$ | $3,290,094$ | $8,365,174$ | 60.7 | 100.0 |

Source: 2021 Population and Housing Census

| Region | Number of EAs |  |  | Average EA size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Western | 1,603 | 1,555 | 3,158 | 205 | 188 | 197 |
| Central | 2,255 | 2,023 | 4,278 | 219 | 170 | 196 |
| Greater Accra | 6,352 | 597 | 6,949 | 249 | 206 | 245 |
| Volta | 1,016 | 1,885 | 2,901 | 210 | 147 | 169 |
| Eastern | 2,148 | 2,773 | 4,921 | 218 | 149 | 179 |
| Ashanti | 6,157 | 4,126 | 10,283 | 155 | 137 | 148 |
| Western North | 392 | 1,231 | 1,623 | 197 | 132 | 148 |
| Ahafo | 461 | 707 | 1,168 | 172 | 104 | 131 |
| Bono | 1,094 | 955 | 2,049 | 181 | 126 | 155 |
| Bono East | 969 | 1,192 | 2,161 | 171 | 103 | 134 |
| Oti | 401 | 1,105 | 1,506 | 153 | 102 | 116 |
| Northern | 1,830 | 2,402 | 4,232 | 129 | 84 | 103 |
| Savannah | 285 | 852 | 1,137 | 153 | 105 | 117 |
| North East | 365 | 848 | 1,213 | 105 | 82 | 89 |
| Upper East | 557 | 1,936 | 2,493 | 135 | 98 | 106 |
| Upper West | 410 | 1,435 | 1,845 | 149 | 90 | 103 |
| Ghana | 26,295 | 25,622 | 51,917 | 193 | 128 | 161 |

Source: 2021 Population and Housing Census

## A. 3 Structure of the Sample and Sampling Procedure

The sample for the 2022 GDHS was a stratified sample selected in two stages from the sampling frame. Stratification was achieved by separating each region into urban and rural areas; in total, 32 sampling strata were created. Samples were selected independently in each sampling stratum via two-stage selection. In the first stage, 618 EAs were selected with a probability proportional to size selection procedure according to the sample allocation given in Table A.4. EA size is the number of residential households in the EA censured in the 2021 PHC. Implicit stratification with proportional allocation was achieved at each of the lower administrative unit levels by sorting the EA frame within the explicit stratum according to lower administrative units before sample selection and by using a probability proportional to size selection procedure.

After the selection of EAs and before the main survey, a household listing operation was carried out in all of the selected EAs. The household listing operation consisted of visiting each of the 618 selected EAs, drawing a location map and a detailed sketch map, and recording on the household listing forms all occupied residential households found in the EA with the address and the name of the head of the household. The resulting list of households served as the sampling frame for the selection of households in the second stage. Some of the selected EAs were large in size. In order to limit the workload during the household listing, selected EAs with more than 300 households (estimated by the listing team in the field) were segmented by the listing team in the field before the household listing. Only one segment was selected for the survey with probability proportional to segment size. Household listing was conducted only in the selected segment (see detailed instructions for segmentation in the Manual for Household Listing). Therefore, a 2022 GDHS cluster was either an EA or a segment of an EA.

In the second stage of selection, a fixed number of 30 households were selected in every urban cluster and rural cluster through equal probability systematic sampling based on the newly updated household listing. A spreadsheet indicating the selected household numbers for each cluster was prepared. The survey interviewers interviewed only the preselected households. No replacements and no changes of the preselected households were allowed in the implementing stages in order to prevent bias.

Table A. 4 shows the sample allocation of EAs and households by region and type of residence. Among the 618 EAs selected, 304 were from urban areas and 314 were from rural areas. The survey selected 30 households per cluster, and the total sample size in number of households was 18,540 ( 9,120 in urban areas and 9,420 in rural areas). The sample allocation for the 2022 GDHS featured a power allocation with adjustments because of the large disparity in region size; there was a minimum sample size of 1,080 households per region, resulting in about 800 interviews with women age 15-49. Greater Accra and Ashanti, the two largest and mainly urban regions, were undersampled because of the tight total sample
size. This resulted in undersampling of urban areas. Rural areas were oversampled because of the oversampling in small regions, which are mainly rural. However, this undersampling and oversampling will not pose any concerns with respect to bias because sampling weights were calculated by taking undersampling and oversampling into account.

Table A. 5 shows the sample allocation of expected numbers of interviews with women and men by region and according to type of residence. The survey was expected to include interviews with 13,537 women age 15-49 (6,536 from urban areas and 7,001 from rural areas) and 6,639 interviews with men age 15-59.

The parameters used in the sample calculations came from the previous DHS conducted in Ghana in 2014. In that survey, the results showed that there were on average 0.805 women age 15-49 per household in urban areas and 0.827 per household in rural areas, with small variations across regions; the response rates among women were $96.8 \%$ in urban areas and $97.7 \%$ in rural areas. The household response rate was $92 \%$ in both urban and rural areas. On average, there were 0.82 men age $15-49$ per household, and the response rate among men was $95 \%$.

| Region | Allocation of cluster |  |  | Allocation of households |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Western | 19 | 18 | 37 | 570 | 540 | 1,110 |
| Central | 22 | 18 | 40 | 660 | 540 | 1,200 |
| Greater Accra | 39 | 9 | 48 | 1,170 | 270 | 1,440 |
| Volta | 17 | 20 | 37 | 510 | 600 | 1,110 |
| Eastern | 21 | 20 | 41 | 630 | 600 | 1,230 |
| Ashanti | 28 | 20 | 48 | 840 | 600 | 1,440 |
| Western North | 14 | 23 | 37 | 420 | 690 | 1,110 |
| Ahafo | 18 | 18 | 36 | 540 | 540 | 1,080 |
| Bono | 20 | 16 | 36 | 600 | 480 | 1,080 |
| Bono East | 19 | 17 | 36 | 570 | 510 | 1,080 |
| Oti | 14 | 22 | 36 | 420 | 660 | 1,080 |
| Northern | 19 | 20 | 39 | 570 | 600 | 1,170 |
| Savannah | 14 | 23 | 37 | 420 | 690 | 1,110 |
| North East | 14 | 22 | 36 | 420 | 660 | 1,080 |
| Upper East | 13 | 24 | 37 | 390 | 720 | 1,110 |
| Upper West | 13 | 24 | 37 | 390 | 720 | 1,110 |
| Ghana | 304 | 314 | 618 | 9,120 | 9,420 | 18,540 |


| Region | Women age 15-49 interviewed |  |  | Men age 15-59 interviewed |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Western | 408 | 402 | 810 | 204 | 193 | 397 |
| Central | 473 | 402 | 875 | 237 | 193 | 430 |
| Greater Accra | 838 | 200 | 1,038 | 419 | 97 | 516 |
| Volta | 366 | 446 | 812 | 183 | 215 | 398 |
| Eastern | 452 | 446 | 898 | 226 | 215 | 441 |
| Ashanti | 602 | 446 | 1,048 | 301 | 215 | 516 |
| Western North | 301 | 513 | 814 | 150 | 247 | 397 |
| Ahafo | 387 | 402 | 789 | 193 | 193 | 386 |
| Bono | 430 | 358 | 788 | 215 | 172 | 387 |
| Bono East | 408 | 379 | 787 | 204 | 183 | 387 |
| Oti | 301 | 490 | 791 | 150 | 237 | 387 |
| Northern | 408 | 446 | 854 | 204 | 215 | 419 |
| Savannah | 301 | 513 | 814 | 150 | 247 | 397 |
| North East | 301 | 490 | 791 | 150 | 237 | 387 |
| Upper East | 280 | 534 | 814 | 139 | 258 | 397 |
| Upper West | 280 | 534 | 814 | 139 | 258 | 397 |
| Ghana | 6,536 | 7,001 | 13,537 | 3,264 | 3,375 | 6,639 |

Note: The male survey was conducted in every second household selected for the female survey.

## A. 4 Selection Probability and Sampling Weights

Due to the nonproportional allocation of the sample to the different regions and the possible differences in response rates, sampling weights will be required for any analysis using the 2022 GDHS data to ensure the actual representation of the survey results at the national level as well as at the domain level. Since the 2022 GDHS sample was a two-stage stratified cluster sample, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster. The following notations were used:

$$
\begin{array}{ll}
P_{1 h i}: & \text { first-stage sampling probability of the } i^{\text {th }} \mathrm{EA} \text { in stratum } h \text { from the sampling frame } \\
P_{2 h i}: & \text { second-stage sampling probability within the } i^{t h} \mathrm{EA} \text { (household selection) }
\end{array}
$$

Let $n_{h}$ be the number of EAs selected in stratum $h, M_{h i}$ the measure of size (number of residential households) according to the sampling frame in the $i^{\text {th }} \mathrm{EA}$, and $\sum_{h i}$ the total measure of size (total number of residential households) in stratum $h$. The probability of selecting the $i^{\text {th }}$ EA in stratum $h$ from the sampling frame is calculated as follows:

$$
P_{1 h i}=\frac{n_{h} M_{h i}}{\sum M_{h i}}
$$

Let $S_{h i}$ be the proportion of households in the selected segment compared to the total number of households in EA $i$ in stratum $h$ if the EA is segmented; otherwise, $s_{h i}=1$. Let $L_{h i}$ be the number of households listed in the household listing operation in cluster $i$ in stratum $h$, and let $m_{h i}$ be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$
P_{2 h i}=\frac{m_{h i}}{L_{h i}} \times s_{h i}
$$

The overall selection probability of each household in cluster $i$ of stratum $h$ is therefore the product of the selection probabilities:

$$
P_{h i}=P_{1 h i} \times P_{2 h i}
$$

Therefore, the design weight for each household in cluster $i$ of stratum $h$ is the inverse of its overall selection probability:

$$
W_{h i}=1 / P_{h i}
$$

A spreadsheet containing all of the sampling parameters and selection probabilities was prepared to facilitate the calculation of design weights. Design weights were adjusted for household nonresponse and for individual nonresponse to obtain the sampling weights for households and for women, respectively. The differences between the household sampling weights and the individual sampling weights are introduced by individual nonresponse. The final sampling weights were normalized so that the total number of unweighted cases was equal to the total number of weighted cases at the national level for both household weights and individual weights. The normalized weights are relative weights that are valid for estimating means, proportions, and ratios but are not valid for estimating population totals or for pooled data.

Sampling errors were calculated for selected indicators for the national sample, for urban and rural areas separately, and for each of the 16 regions.

## A. 5 SURVEY IMPLEMENTATION

Table A. 6 and Table A. 7 present response rates for women and men, respectively, by urban and rural areas and by region. The male subsample constituted one in three of the households selected for the women's sample.
Table A. 7 Sample implementation: Men
Percent distribution of households and eligible men age 15-59 by results of the household and individual interviews, and household, eligible men, and overall men response rates, according to residence and region Percent distribution of household
(unweighted), Ghana DHS 2022

| Result | Residence |  | Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Western | Central | Greater Accra | Volta | Eastern | Ashanti | Western North | Ahafo | Bono | Bono East | Oti | Northern | Savannah | North East | Upper East | Upper West |  |
| Selected households |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed (C) | 96.5 | 97.0 | 97.8 | 97.3 | 96.3 | 98.2 | 99.2 | 96.7 | 95.1 | 98.1 | 95.0 | 97.2 | 96.9 | 95.7 | 95.1 | 95.7 | 97.3 | 96.2 | 96.8 |
| Household present but no competent respondent at home (HP) | 0.2 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.5 | 0.4 | 0.4 | 0.0 | 0.1 |
| Refused (R) | 0.7 | 0.4 | 0.2 | 1.2 | 1.1 | 0.4 | 0.3 | 1.0 | 0.4 | 0.4 | 0.2 | 0.6 | 0.2 | 0.7 | 0.4 | 0.6 | 0.4 | 0.4 | 0.5 |
| Dwelling not found (DNF) | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.2 | 0.0 | 0.2 | 0.1 |
| Household absent (HA) | 1.9 | 1.5 | 0.7 | 1.0 | 1.3 | 1.1 | 0.0 | 1.7 | 3.6 | 0.4 | 3.3 | 0.9 | 2.2 | 1.7 | 2.7 | 1.9 | 1.6 | 3.2 | 1.7 |
| Dwelling vacant/address not a dwelling (DV) | 0.6 | 0.7 | 0.9 | 0.2 | 1.0 | 0.2 | 0.2 | 0.7 | 0.9 | 0.7 | 0.6 | 1.1 | 0.6 | 1.0 | 0.9 | 1.3 | 0.4 | 0.0 | 0.7 |
| Dwelling destroyed (DD) | 0.0 | 0.1 | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other (O) | 0.1 | 0.0 | 0.4 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of sampled households | 4,560 | 4,709 | 555 | 600 | 720 | 555 | 615 | 720 | 554 | 540 | 540 | 540 | 540 | 585 | 555 | 540 | 555 | 555 | 9,269 |
| Household response rate (HRR) ${ }^{1}$ | 99.1 | 99.4 | 99.8 | 98.6 | 98.7 | 99.6 | 99.5 | 99.0 | 99.6 | 99.3 | 99.8 | 99.4 | 99.6 | 98.4 | 99.1 | 98.9 | 99.3 | 99.4 | 99.2 |
| Eligible men |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed (EMC) | 96.5 | 97.4 | 98.7 | 97.1 | 95.7 | 98.0 | 99.0 | 95.2 | 97.3 | 97.5 | 97.5 | 96.9 | 97.9 | 98.0 | 97.3 | 94.3 | 95.3 | 97.2 | 97.0 |
| Not at home (EMNH) | 1.9 | 1.7 | 0.5 | 1.1 | 1.9 | 1.8 | 0.0 | 2.9 | 1.7 | 1.4 | 1.7 | 2.3 | 1.3 | 1.7 | 1.2 | 5.0 | 2.7 | 1.7 | 1.8 |
| Refused (EMR) | 1.2 | 0.5 | 0.5 | 1.5 | 2.1 | 0.3 | 0.8 | 1.4 | 0.7 | 0.7 | 0.0 | 0.6 | 0.0 | 0.2 | 1.1 | 0.2 | 1.2 | 1.2 | 0.8 |
| Incapacitated (EMI) | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.6 | 0.2 | 0.5 | 0.8 | 0.2 | 0.8 | 0.2 | 0.4 | 0.5 | 0.8 | 0.0 | 0.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of men | 3,369 | 3,894 | 387 | 455 | 515 | 342 | 393 | 516 | 413 | 433 | 360 | 516 | 477 | 542 | 563 | 441 | 487 | 423 | 7,263 |
| Eligible men response rate (EMRR) ${ }^{2}$ | 96.5 | 97.4 | 98.7 | 97.1 | 95.7 | 98.0 | 99.0 | 95.2 | 97.3 | 97.5 | 97.5 | 96.9 | 97.9 | 98.0 | 97.3 | 94.3 | 95.3 | 97.2 | 97.0 |
| Overall men response rate (OMRR) ${ }^{3}$ | 95.6 | 96.8 | 98.5 | 95.8 | 94.5 | 97.6 | 98.5 | 94.2 | 97.0 | 96.7 | 97.3 | 96.3 | 97.5 | 96.4 | 96.4 | 93.2 | 94.6 | 96.6 | 96.2 |

${ }^{1}$ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:
${ }^{2}$ The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC).
OMRR $=$ HRR * $\operatorname{EMRR} / 100$

## ESTIMATES OF SAMPLING ERRORS

TThe estimates from a sample survey are affected by two types of errors: (1) nonsampling errors and (2) sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2022 Ghana Demographic and Health Survey (2022 GDHS) to minimize this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2022 GDHS is only one of many samples that could have been selected from the same population, using the same design and identical size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results. A sampling error is usually measured in terms of the standard error for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in $95 \%$ of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2022 GDHS sample was the result of a multistage stratified design, and, consequently, it was necessary to use more complex formulas. The computer software used to calculate sampling errors for the GDHS 2022 is an SAS program. This program used the Taylor linearization method to estimate variances for survey estimates that are means, proportions, or ratios. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearization method treats any percentage or average as a ratio estimate, $r=y / x$, where $y$ represents the total sample value for variable $y$ and $x$ represents the total number of cases in the group or subgroup under consideration. The variance of $r$ is computed using the formula given below, with the standard error being the square root of the variance:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1}{x^{2}} \sum_{h=1}^{H}\left[\left(1-f_{h}\right) \frac{m_{h}}{m_{h}-1}\left(\sum_{i=1}^{m_{h}} z_{h i}^{2}-\frac{z_{h}^{2}}{m_{h}}\right)\right]
$$

in which

$$
z_{h i}=y_{h i}-r x_{h i} \text { and } z_{h}=y_{h}-r x_{h}
$$

where $h$
$m_{h}$
$y_{h i}$
$x_{h i}$
$f_{h}$
represents the stratum, which varies from 1 to $H$; is the total number of clusters selected in the $h^{\text {th }}$ stratum; is the sum of the weighted values of variable $y$ in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum; is the sum of the weighted number of cases in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum; and is the sampling fraction of PSU in the $h^{\text {th }}$ stratum.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample and calculates standard errors for these estimates using simple formulas. Each replication considers all but one cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2022 GDHS, there were 618 non-empty clusters. Hence, 618 replications were created. The variance of a ratio $r$ is calculated as follows:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1}{k(k-1)} \sum_{i=1}^{k}\left(r_{i}-r\right)^{2}
$$

in which

$$
r_{i}=k r-(k-1) r_{(i)}
$$

where $r$ is the estimate computed from the full sample of 618 clusters, $r_{(i)} \quad$ is the estimate computed from the reduced sample of 617 clusters ( $i^{\text {th }}$ cluster excluded), and
$k \quad$ is the total number of clusters.

In addition to the standard error, the program computes the design effect (DEFT) for each estimate, which is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design such as multistage or cluster sampling. The program also computes the relative standard error and the confidence limits for the estimates.

Sampling errors for the 2022 GDHS are calculated for selected variables considered to be of primary interest for the survey. The results are presented in this appendix for Ghana as a whole, for urban and rural areas separately, and for each of the 16 administrative regions of the country. For each variable, the type of statistic (mean, proportion, ratio, or rate) and the base population are given in Table B.1. Tables B. 2 to B. 20 present the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95\% confidence limits ( $\mathrm{R} \pm 2 \mathrm{SE}$ ) for each variable. The DEFT is considered undefined when the standard error considering a simple random sample is zero (when the estimate is close to 0 or 1 ).

The confidence interval (e.g., as calculated for mean number of children ever born to women age 15-49) can be interpreted as follows: the sample estimate from the national sample is $2.190(\mathrm{R})$, and its standard error is 0.028 (SE). Therefore, to obtain the $95 \%$ confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is, $\mathrm{R} \pm 2 \times \mathrm{SE}$. There is a high probability ( $95 \%$ ) that the true mean number of children ever born to women age $15-49$ is between 2.134 and 2.245.

For the total sample, the value of the design effect (DEFT), averaged over all variables for the women's survey, is 1.52 . This means that, due to multistage clustering of the sample, the average standard error is increased by a factor of 1.52 over that in an equivalent simple random sample

Table B. 1 List of selected variables for sampling errors, Ghana DHS 2022

| Variable | Estimate | Base population | Table number |
| :---: | :---: | :---: | :---: |
| HOUSEHOLDS AND POPULATION |  |  |  |
| Electricity primary source of lighting | Proportion | De jure household population | 2.3 |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | Proportion | De jure household population | 2.4 |
| Births registered with civil authority | Proportion | De jure household population under 5 | 2.10 |
| Ownership of at least one ITN | Proportion | Households | 12.1 |
| Ownership of at least one ITN for every two persons | Proportion | Households (with at least one person who stayed in the household the night before the survey) | 12.1 |
| Improved drinking water source | Proportion | De jure household population | 16.1 |
| At least basic drinking water service | Proportion | De jure household population | 16.2 |
| Water available when needed | Proportion | De jure household population | 16.4 |
| Improved sanitation facility | Proportion | De jure household population | 16.6 |
| At least basic sanitation service | Proportion | De jure household population | 16.7 |
| Using open defecation | Proportion | De jure household population | 16.7 |
| Using a handwashing facility with soap and water | Proportion | De jure household population for whom handwashing place was observed or with no on-site place for handwashing | 16.11 |
| WOMEN |  |  |  |
| Urban residence | Proportion | Women 15-49 | 3.1 |
| No education | Proportion | Women 15-49 | 3.2.1 |
| Secondary education or higher | Proportion | Women 15-49 | 3.2.1 |
| Literacy | Proportion | Women 15-49 | 3.3.1 |
| Use of the internet in last 12 months | Proportion | Women 15-49 | 3.5.1 |
| Current tobacco use | Proportion | Women 15-49 | 3.13 .1 |
| Currently married/in union | Proportion | Women 15-49 | 4.1 |
| Married before age 15 | Proportion | Women 20-49 | 4.4 |
| Married before age 18 | Proportion | Women 20-49 | 4.4 |
| Had sexual intercourse before age 18 | Proportion | Women 20-49 | 4.6 |
| Age-specific fertility rate 15-19 | Rate | Woman-years of exposure to childbearing at age 15-19 in the 3 years preceding the survey | 5.1 |
| Total fertility rate (3 years) | Rate | Woman-years of exposure to childbearing | 5.2 |
| Currently pregnant | Proportion | Women 15-49 | 5.2 |
| Mean number of children ever born to women age 4049 | Mean | Women 40-49 | 5.2 |
| Mean number of children ever born to women age 1549 | Mean | Women 15-49 | 5.4 |
| Mean number of living children among women age 15- |  |  |  |
| 49 | Mean | Women 15-49 | 5.4 |
| Median birth interval | Median | Non-first births in the 5 years preceding the survey | 5.5 |
| First birth before age 18 | Proportion | Women 20-49 | 5.10 |
| Want to delay next birth at least 2 years | Proportion | Currently married women 15-49 | 6.1 |
| Want no more children | Proportion | Currently married women 15-49 | 6.2.1 |
| Ideal number of children | Mean | Women 15-49 with numeric responses | 6.3 |
| Total wanted fertility rate (3 years) | Rate | Woman-years of exposure to childbearing | 6.6 |
| Currently using any contraceptive method | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using any modern method | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using pill | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using injectables | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using implants | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using male condoms | Proportion | Currently married women 15-49 | 7.4.1 |
| Currently using any traditional method | Proportion | Currently married women 15-49 | 7.4.1 |
| 12-month discontinuation rate due to method failure | Rate | Women 15-49 | 7.13 |
| 12-month discontinuation rate due to any reason | Rate | Women 15-49 | 7.13 |
| 12-month discontinuation rate due to switching to another method | Rate | Women 15-49 | 7.13 |
| Unmet need for spacing | Proportion | Currently married women 15-49 | 7.15 .1 |
| Unmet need for limiting | Proportion | Currently married women 15-49 | 7.15 .1 |
| Unmet need total | Proportion | Currently married women 15-49 | 7.15 .1 |
| Demand satisfied by modern methods | Proportion | Currently married women 15-49 | 7.15 .1 |
| Demand satisfied by modern methods (all women) | Proportion | Women 15-49 | 7.15 .2 |
| Participation in decision making about family planning | Proportion | Currently married women 15-49 | 7.17 |
| Not exposed to any of the eight media sources | Proportion | Women 15-49 | 7.20 .1 |
| Neonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality | 8.1 |
| Postneonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality | 8.1 |
| Infant mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality | 8.1 |
| Child mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality | 8.1 |
| Under-5 mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality | 8.1 |
| Perinatal mortality rate | Rate | Pregnancies of 28 or more weeks' duration to women 15-49 in the 5 years preceding the survey | 8.4 |
| Stillbirth rate | Rate | Pregnancies of 28 or more weeks' duration to women 15-49 in the 5 years preceding the survey | 8.4 |
| Early neonatal mortality rate | Rate | Pregnancies of 28 or more weeks' duration to women 15-49 in the 5 years preceding the survey | 8.4 |
| In any avoidable high-risk category | Proportion | Children born in the 5 years preceding the survey to women 15-49 | 8.5 |
| Received ANC from a skilled provider | Proportion | Women 15-49 who had a live birth in the 2 years preceding the survey | 9.1 |
| 4+ ANC visits | Proportion | Women 15-49 who had a live birth in the 2 years preceding the survey | 9.2 |
| 8+ ANC visits | Proportion | Women 15-49 who had a live birth in the 2 years preceding the survey | 9.2 |


| Variable | Estimate | Base population | Table number |
| :---: | :---: | :---: | :---: |
|  | WOMEN (Continued) |  |  |
| Took any iron-containing supplements | Proportion | Women 15-49 who had a live birth in the 2 years preceding the survey | 9.4 |
| Mothers protected against tetanus for last birth | Proportion | Women 15-49 with a live birth in the 2 years preceding the survey | 9.6 |
| Delivered in a health facility (live births) | Proportion | Live births in the 2 years preceding the survey | 9.7 |
| Delivered by a skilled provider (live births) | Proportion | Live births in the 2 years preceding the survey | 9.9 |
| Delivered by C-section (live births) | Proportion | Live births in the 2 years preceding the survey | 9.8 |
| Women with postnatal check during first 2 days | Proportion | Women 15-49 with a live birth in the 2 years preceding the survey | 9.11 |
| Newborns with postnatal check during first 2 days | Proportion | Most recent live births in the 2 years preceding the survey | 9.14 |
| Any problem accessing health care | Proportion | Women 15-49 | 9.20 |
| Ever had vaccination card | Proportion | Children 12-23 months | 10.2 |
| Received BCG vaccination | Proportion | Children 12-23 months | 10.4 |
| Received DPT-HepB-Hib vaccination (3 doses) | Proportion | Children 12-23 months | 10.4 |
| Received pneumococcal vaccination (3 doses) | Proportion | Children 12-23 months | 10.4 |
| Received measles and rubella 1 vaccination | Proportion | Children 12-23 months | 10.4 |
| Fully vaccinated according to national schedule (12-23 months) | Proportion | Children 12-23 months | 10.4 |
| Received measles and rubella 2 vaccination | Proportion | Children 24-35 months | 10.4 |
| Fully vaccinated according to national schedule (24-35 months) | Proportion | Children 24-35 months | 10.4 |
| Sought treatment for diarrhoea | Proportion | Children under 5 with diarrhoea in last 2 weeks | 10.9 |
| Treated with ORS | Proportion | Children under 5 with diarrhoea in last 2 weeks | 10.11 |
| Height-for-age (-3 SD) | Proportion | Children under 5 who were measured | 11.1 |
| Height-for-age (-2 SD) | Proportion | Children under 5 who were measured | 11.1 |
| Weight-for-height (-2 SD) | Proportion | Children under 5 who were measured | 11.1 |
| Weight-for-height (+2 SD) | Proportion | Children under 5 who were measured | 11.1 |
| Weight-for-age (-2 SD) | Proportion | Children under 5 who were measured | 11.1 |
| Exclusive breastfeeding | Proportion | Youngest children 0-5 months living with their mother | 11.4 |
| Minimum dietary diversity (children 6-23 months) | Proportion | Youngest children 6-23 months living with their mother | 11.8 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | Proportion | Children 6-59 months who were tested | 11.12 |
| Body mass index (BMI) < 18.5 | Proportion | Women 20-49 who were measured | 11.14 .1 |
| Body mass index (BMI) $\geq 25$ | Proportion | Women 20-49 who were measured | 11.14 .1 |
| Body mass index-for-age (-2 SD) | Proportion | Adolescent women 15-19 who were measured | 11.14 .2 |
| Body mass index-for-age (+1 SD) | Proportion | Adolescent women 15-19 who were measured | 11.14.2 |
| Minimum dietary diversity (women 15-49) | Proportion | Women 15-49 | 11.16 |
| Prevalence of any anaemia (women 15-49) | Proportion | Women 15-49 who were tested | 11.17.1 |
| Prevalence of any anaemia (nonpregnant women 1549) (haemoglobin $<12.0 \mathrm{~g} / \mathrm{dl}$ ) | Proportion | Nonpregnant women 15-49 who were tested | 11.17.1 |
| Prevalence of any anaemia (pregnant women 15-49) (haemoglobin < $11.0 \mathrm{~g} / \mathrm{dl}$ ) | Proportion | Pregnant women 15-49 who were tested | 11.17 .1 |
| Child slept under an ITN last night | Proportion | Children under 5 in households | 12.6 |
| Pregnant women slept under an ITN last night | Proportion | Pregnant women 15-49 | 12.7 |
| Received 3+ doses of SP/Fansidar | Proportion | Women 15-49 with a live birth in the 2 years preceding the survey | 12.9 |
| Child had fever in last 2 weeks | Proportion |  | 12.10 |
| Child had blood taken from finger/heel | Proportion | Child under 5 who had a fever in the last 2 weeks | 12.10 |
| Child took ACT | Proportion | Child under 5 with a fever in the last 2 weeks who received any antimalarial medications | 12.12 |
| Child has malaria (based on rapid test) | Proportion | Children 6-59 tested (rapid test) for malaria | 12.15 |
| Child has malaria (based on microscopy test) | Proportion | Children 6-59 tested (on microscopy) for malaria | 12.15 |
| Discriminatory attitudes towards people with HIV | Proportion | Women 15-49 who have heard of HIV/AIDS <br> Women 15-49 with nonmarital, noncohabiting partner in last 12 | 13.2 |
| Condom use at last sex | Proportion | months | 13.3.1 |
| Tested for HIV in the past 12 months and received the results of the last test | Proportion | Women 15-49 | 13.5.1 |
| Employed in last 12 months | Proportion | Currently married women 15-49 | 15.1 |
| Employed in last 12 months but not paid | Proportion | Currently married women 15-49 employed in last 12 months | 15.1 |
| Mobile phone ownership | Proportion | Women 15-49 | 15.6.1 |
| Have and use a bank account or mobile phone for financial transactions | Proportion | Women 15-49 | 15.6.1 |
| Participate in decision making (all three decisions) | Proportion | Currently married women 15-49 | 15.8.1 |
| Agree with at least one specified reason a husband is justified in wife beating | Proportion | Women 15-49 | 15.9.1 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | Proportion | Currently married women 15-49 | 15.12 |
| Experienced physical violence since age 15 by any perpetrator | Proportion | All women 15-49 | 17.1 |
| Experienced sexual violence by any perpetrator ever | Proportion | All women 15-49 | 17.4 |
| Experienced sexual violence by any non-intimate partner | Proportion | All women 15-49 | 17.6 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner ever | Proportion | Ever-married women 15-49 | 17.11 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | Proportion | Ever-married women 15-49 | 17.11 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | Proportion | Ever-married women 15-49 | 17.13 |

Table B.1—Continued

| Variable | Estimate |  | Base population |
| :--- | :--- | :--- | :--- |
|  | MEN |  |  |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
${ }^{1}$ Mortality rates are calculated for 5 years before the survey for the national sample, urban, and rural samples and for the 10 years before the survey for the regional samples.

Table B. 2 Sampling errors: Total sample, Ghana DHS 2022

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> ( N ) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Electricity primary source of lighting | 0.820 | 0.013 | 68,887 | 63,611 | 3.453 | 0.015 | 0.795 | 0.845 |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.236 | 0.009 | 68,887 | 63,611 | 2.654 | 0.039 | 0.217 | 0.254 |
| Births registered with civil authority | 0.745 | 0.009 | 9,779 | 8,508 | 1.676 | 0.012 | 0.727 | 0.763 |
| Ownership of at least one ITN | 0.667 | 0.007 | 17,933 | 17,933 | 2.034 | 0.011 | 0.652 | 0.681 |
| Ownership of at least one ITN for every two persons | 0.474 | 0.007 | 17,836 | 17,818 | 1.922 | 0.015 | 0.460 | 0.489 |
| Improved drinking water source | 0.879 | 0.010 | 68,887 | 63,611 | 3.163 | 0.012 | 0.859 | 0.900 |
| At least basic drinking water service | 0.838 | 0.010 | 68,887 | 63,611 | 2.805 | 0.012 | 0.818 | 0.858 |
| Water available when needed | 0.809 | 0.008 | 68,887 | 63,611 | 2.294 | 0.010 | 0.792 | 0.826 |
| Improved sanitation facility | 0.632 | 0.013 | 68,887 | 63,611 | 2.964 | 0.021 | 0.605 | 0.658 |
| At least basic sanitation service | 0.243 | 0.011 | 68,887 | 63,611 | 2.876 | 0.045 | 0.221 | 0.265 |
| Using open defecation | 0.246 | 0.012 | 68,887 | 63,611 | 2.818 | 0.048 | 0.223 | 0.270 |
| Using a handwashing facility with soap and water | 0.435 | 0.011 | 67,662 | 62,264 | 2.543 | 0.026 | 0.413 | 0.458 |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.570 | 0.008 | 15,014 | 15,014 | 2.069 | 0.015 | 0.553 | 0.587 |
| No education | 0.161 | 0.006 | 15,014 | 15,014 | 1.841 | 0.034 | 0.150 | 0.172 |
| Secondary education or higher | 0.702 | 0.008 | 15,014 | 15,014 | 2.009 | 0.011 | 0.687 | 0.717 |
| Literacy | 0.608 | 0.008 | 15,014 | 15,014 | 2.027 | 0.013 | 0.592 | 0.624 |
| Use of the internet in last 12 months | 0.433 | 0.009 | 15,014 | 15,014 | 2.299 | 0.021 | 0.415 | 0.452 |
| Current tobacco use | 0.009 | 0.002 | 15,014 | 15,014 | 1.909 | 0.160 | 0.006 | 0.012 |
| Currently married/in union | 0.546 | 0.006 | 15,014 | 15,014 | 1.564 | 0.012 | 0.534 | 0.559 |
| Married before age 15 | 0.052 | 0.003 | 12,179 | 12,332 | 1.386 | 0.054 | 0.046 | 0.057 |
| Married before age 18 | 0.217 | 0.006 | 12,179 | 12,332 | 1.547 | 0.027 | 0.205 | 0.228 |
| Had sexual intercourse before age 18 | 0.488 | 0.008 | 12,179 | 12,332 | 1.810 | 0.017 | 0.472 | 0.505 |
| Age-specific fertility rate 15-19 | 62.915 | 3.257 | 8,140 | 7,798 | 1.200 | 0.052 | 56.401 | 69.429 |
| Total fertility rate (3 years) | 3.902 | 0.085 | 42,155 | 42,292 | 1.416 | 0.022 | 3.732 | 4.071 |
| Currently pregnant | 0.068 | 0.003 | 15,014 | 15,014 | 1.356 | 0.041 | 0.063 | 0.074 |
| Mean number of children ever born to women age 40-49 | 4.501 | 0.069 | 2,875 | 2,987 | 1.643 | 0.015 | 4.362 | 4.639 |
| Mean number of children ever born to women age 15-49 | 2.190 | 0.028 | 15,014 | 15,014 | 1.518 | 0.013 | 2.134 | 2.245 |
| Mean number of living children among women age 15-49 | 2.053 | 0.025 | 15,014 | 15,014 | 1.477 | 0.012 | 2.002 | 2.103 |
| Median birth interval | 40.619 | 0.474 | 6,930 | 6,247 | 1.550 | 0.012 | 39.671 | 41.567 |
| First birth before age 18 | 0.157 | 0.005 | 12,179 | 12,332 | 1.461 | 0.031 | 0.147 | 0.166 |
| Want to delay next birth at least 2 years | 0.298 | 0.007 | 8,811 | 8,205 | 1.487 | 0.024 | 0.284 | 0.313 |
| Want no more children | 0.328 | 0.008 | 8,811 | 8,205 | 1.529 | 0.023 | 0.313 | 0.344 |
| Ideal number of children | 4.504 | 0.032 | 14,840 | 14,798 | 1.937 | 0.007 | 4.441 | 4.567 |
| Total wanted fertility rate (3 years) | 3.427 | 0.080 | 42,155 | 42,292 | 1.438 | 0.023 | 3.267 | 3.587 |
| Currently using any contraceptive method | 0.363 | 0.008 | 8,811 | 8,205 | 1.572 | 0.022 | 0.347 | 0.379 |
| Currently using any modern method | 0.278 | 0.007 | 8,811 | 8,205 | 1.468 | 0.025 | 0.264 | 0.292 |
| Currently using pill | 0.041 | 0.003 | 8,811 | 8,205 | 1.494 | 0.077 | 0.035 | 0.047 |
| Currently using injectables | 0.079 | 0.004 | 8,811 | 8,205 | 1.477 | 0.054 | 0.071 | 0.088 |
| Currently using implants | 0.079 | 0.004 | 8,811 | 8,205 | 1.391 | 0.051 | 0.071 | 0.087 |
| Currently using male condoms | 0.014 | 0.002 | 8,811 | 8,205 | 1.434 | 0.127 | 0.011 | 0.018 |
| Currently using any traditional method | 0.085 | 0.005 | 8,811 | 8,205 | 1.549 | 0.054 | 0.076 | 0.094 |
| 12-month discontinuation rate due to method failure | 3.055 | 1.018 | 7,879 | 8,457 | 1.440 | 0.333 | 1.019 | 5.090 |
| 12-month discontinuation rate due to any reason | 45.370 | 0.330 | 7,879 | 8,457 | 1.832 | 0.007 | 44.711 | 46.029 |
| 12-month discontinuation rate due to switching to another method | 6.118 | 0.464 | 7,879 | 8,457 | 1.409 | 0.076 | 5.190 | 7.045 |
| Unmet need for spacing | 0.142 | 0.005 | 8,811 | 8,205 | 1.470 | 0.038 | 0.131 | 0.153 |
| Unmet need for limiting | 0.092 | 0.004 | 8,811 | 8,205 | 1.393 | 0.047 | 0.083 | 0.100 |
| Unmet need total | 0.234 | 0.006 | 8,811 | 8,205 | 1.409 | 0.027 | 0.221 | 0.247 |
| Demand satisfied by modern methods | 0.465 | 0.010 | 5,011 | 4,902 | 1.432 | 0.021 | 0.446 | 0.485 |
| Demand satisfied by modern methods (all women) | 0.495 | 0.008 | 7,031 | 7,113 | 1.411 | 0.017 | 0.478 | 0.511 |
| Participation in decision making about family planning | 0.842 | 0.008 | 8,811 | 8,205 | 1.976 | 0.009 | 0.826 | 0.857 |
| Not exposed to any of the eight media sources | 0.296 | 0.008 | 15,014 | 15,014 | 2.182 | 0.027 | 0.280 | 0.312 |
| Neonatal mortality (last 0-4 years) | 17.164 | 1.826 | 9,355 | 8,572 | 1.246 | 0.106 | 13.511 | 20.816 |
| Postneonatal mortality (last 0-4 years) | 10.830 | 1.319 | 9,339 | 8,557 | 1.180 | 0.122 | 8.191 | 13.469 |
| Infant mortality (last 0-4 years) | 27.994 | 2.149 | 9,359 | 8,575 | 1.174 | 0.077 | 23.695 | 32.292 |
| Child mortality (last 0-4 years) | 11.863 | 1.379 | 9,158 | 8,425 | 1.177 | 0.116 | 9.104 | 14.622 |
| Under-5 mortality (last 0-4 years) | 39.525 | 2.453 | 9,403 | 8,614 | 1.155 | 0.062 | 34.619 | 44.431 |
| Perinatal mortality rate | 28.306 | 2.212 | 9,484 | 8,708 | 1.214 | 0.078 | 23.882 | 32.729 |
| Stillbirth rate | 15.158 | 1.764 | 9,484 | 8,708 | 1.340 | 0.116 | 11.630 | 18.687 |
| Early neonatal mortality rate | 13.343 | 1.644 | 9,353 | 8,581 | 1.265 | 0.123 | 10.056 | 16.630 |
| In any avoidable high-risk category | 0.477 | 0.008 | 9,353 | 8,581 | 1.398 | 0.017 | 0.460 | 0.493 |
| Received ANC from a skilled provider | 0.978 | 0.004 | 3,850 | 3,491 | 1.503 | 0.004 | 0.971 | 0.985 |
| 4+ ANC visits | 0.878 | 0.009 | 3,850 | 3,491 | 1.761 | 0.011 | 0.859 | 0.896 |
| $8+$ ANC visits | 0.386 | 0.013 | 3,850 | 3,491 | 1.627 | 0.033 | 0.360 | 0.412 |
| Took any iron-containing supplements | 0.923 | 0.006 | 3,850 | 3,491 | 1.461 | 0.007 | 0.910 | 0.935 |
| Mothers protected against tetanus for last birth | 0.738 | 0.012 | 3,850 | 3,491 | 1.669 | 0.016 | 0.714 | 0.762 |
| Delivered in a health facility (live births) | 0.862 | 0.010 | 4,011 | 3,638 | 1.796 | 0.012 | 0.842 | 0.883 |
| Delivered by a skilled provider (live births) | 0.876 | 0.010 | 4,011 | 3,638 | 1.816 | 0.011 | 0.855 | 0.896 |
| Delivered by C-section (live births) | 0.208 | 0.010 | 4,011 | 3,638 | 1.431 | 0.049 | 0.187 | 0.228 |
| Women with postnatal check during first 2 days | 0.873 | 0.009 | 3,850 | 3,491 | 1.657 | 0.010 | 0.855 | 0.891 |
| Newborns with postnatal check during first 2 days | 0.869 | 0.009 | 3,850 | 3,491 | 1.611 | 0.010 | 0.851 | 0.886 |
| Any problem accessing health care | 0.536 | 0.010 | 15,014 | 15,014 | 2.413 | 0.018 | 0.517 | 0.556 |

Table B.2-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Ever had vaccination card | 0.981 | 0.004 | 1,973 | 1,823 | 1.218 | 0.004 | 0.973 | 0.989 |
| Received BCG vaccination | 0.953 | 0.006 | 1,973 | 1,823 | 1.171 | 0.006 | 0.942 | 0.965 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.890 | 0.010 | 1,973 | 1,823 | 1.298 | 0.011 | 0.871 | 0.909 |
| Received pneumococcal vaccination (3 doses) | 0.882 | 0.010 | 1,973 | 1,823 | 1.271 | 0.011 | 0.863 | 0.902 |
| Received measles and rubella 1 vaccination | 0.870 | 0.011 | 1,973 | 1,823 | 1.318 | 0.012 | 0.849 | 0.891 |
| Fully vaccinated according to national schedule (12-23 months) | 0.564 | 0.016 | 1,973 | 1,823 | 1.375 | 0.029 | 0.532 | 0.597 |
| Received measles and rubella 2 vaccination | 0.725 | 0.016 | 1,702 | 1,546 | 1.426 | 0.023 | 0.692 | 0.757 |
| Fully vaccinated according to national schedule (24-35 months) | 0.424 | 0.018 | 1,702 | 1,546 | 1.396 | 0.042 | 0.389 | 0.460 |
| Sought treatment for diarrhoea | 0.505 | 0.019 | 1,207 | 1,054 | 1.217 | 0.038 | 0.467 | 0.544 |
| Treated with ORS | 0.398 | 0.024 | 1,207 | 1,054 | 1.570 | 0.061 | 0.350 | 0.447 |
| Height-for-age (-3 SD) | 0.042 | 0.004 | 4,928 | 4,293 | 1.158 | 0.089 | 0.034 | 0.049 |
| Height-for-age (-2 SD) | 0.174 | 0.008 | 4,928 | 4,293 | 1.289 | 0.046 | 0.158 | 0.190 |
| Weight-for-height (-2 SD) | 0.060 | 0.005 | 4,931 | 4,291 | 1.295 | 0.081 | 0.050 | 0.069 |
| Weight-for-height (+2 SD) | 0.020 | 0.003 | 4,931 | 4,291 | 1.238 | 0.133 | 0.014 | 0.025 |
| Weight-for-age (-2 SD) | 0.123 | 0.007 | 4,935 | 4,299 | 1.304 | 0.056 | 0.109 | 0.137 |
| Exclusive breastfeeding | 0.526 | 0.022 | 958 | 826 | 1.361 | 0.042 | 0.482 | 0.570 |
| Minimum dietary diversity (children 6-23 months) | 0.414 | 0.015 | 2,786 | 2,562 | 1.623 | 0.037 | 0.384 | 0.445 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.489 | 0.011 | 4,395 | 3,837 | 1.262 | 0.022 | 0.468 | 0.511 |
| Body mass index (BMI) < 18.5 | 0.046 | 0.003 | 5,501 | 5,704 | 1.229 | 0.076 | 0.039 | 0.053 |
| Body mass index (BMI) $\geq 25.0$ | 0.502 | 0.010 | 5,501 | 5,704 | 1.490 | 0.020 | 0.482 | 0.522 |
| Body mass index-for-age (-2 SD) | 0.024 | 0.005 | 1,374 | 1,338 | 1.224 | 0.211 | 0.014 | 0.034 |
| Body mass index-for-age (+1 SD) | 0.136 | 0.012 | 1,374 | 1,338 | 1.347 | 0.092 | 0.111 | 0.161 |
| Minimum dietary diversity (women 15-49) | 0.499 | 0.008 | 15,014 | 15,014 | 1.939 | 0.016 | 0.484 | 0.515 |
| Prevalence of any anaemia (women 15-49) | 0.411 | 0.008 | 7,557 | 7,655 | 1.368 | 0.019 | 0.396 | 0.427 |
| Prevalence of any anaemia (nonpregnant women 15-49) (haemoglobin $<12.0 \mathrm{~g} / \mathrm{dl})$ | 0.404 | 0.008 | 7,004 | 7,141 | 1.369 | 0.020 | 0.388 | 0.420 |
| Prevalence of any anaemia (pregnant women 15-49) (haemoglobin <11.0 g/dl) | 0.514 | 0.025 | 553 | 514 | 1.160 | 0.048 | 0.465 | 0.564 |
| Child slept under an ITN last night | 0.490 | 0.011 | 9,850 | 8,580 | 1.675 | 0.022 | 0.468 | 0.512 |
| Pregnant women slept under an ITN last night | 0.477 | 0.020 | 1,111 | 984 | 1.219 | 0.041 | 0.438 | 0.516 |
| Received 3+ doses of SP/Fansidar | 0.602 | 0.013 | 3,850 | 3,491 | 1.633 | 0.021 | 0.577 | 0.628 |
| Child had fever in last 2 weeks | 0.151 | 0.006 | 9,062 | 8,315 | 1.554 | 0.042 | 0.138 | 0.163 |
| Child had blood taken from finger/heel | 0.400 | 0.020 | 1,451 | 1,252 | 1.422 | 0.051 | 0.360 | 0.440 |
| Child took ACT | 0.783 | 0.023 | 707 | 560 | 1.272 | 0.029 | 0.737 | 0.828 |
| Child has malaria (based on rapid test) | 0.165 | 0.008 | 4,397 | 3,838 | 1.297 | 0.051 | 0.148 | 0.182 |
| Child has malaria (based on microscopy test) | 0.086 | 0.006 | 4,397 | 3,838 | 1.212 | 0.069 | 0.074 | 0.098 |
| Discriminatory attitudes towards people with HIV | 0.784 | 0.007 | 13,980 | 14,280 | 1.933 | 0.009 | 0.771 | 0.798 |
| Condom use at last sex | 0.106 | 0.007 | 3,131 | 3,458 | 1.190 | 0.062 | 0.093 | 0.119 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.150 | 0.004 | 15,014 | 15,014 | 1.442 | 0.028 | 0.142 | 0.159 |
| Employed in last 12 months | 0.880 | 0.006 | 8,811 | 8,205 | 1.633 | 0.006 | 0.868 | 0.891 |
| Employed in last 12 months but not paid | 0.142 | 0.008 | 7,623 | 7,218 | 2.102 | 0.059 | 0.125 | 0.158 |
| Mobile phone ownership | 0.796 | 0.005 | 15,014 | 15,014 | 1.544 | 0.006 | 0.786 | 0.806 |
| Have and use a bank account or mobile phone for financial transactions | 0.729 | 0.008 | 15,014 | 15,014 | 2.078 | 0.010 | 0.714 | 0.744 |
| Participate in decision making (all three decisions) | 0.556 | 0.010 | 8,811 | 8,205 | 1.920 | 0.018 | 0.536 | 0.576 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.193 | 0.006 | 15,014 | 15,014 | 1.949 | 0.033 | 0.180 | 0.205 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.517 | 0.010 | 8,811 | 8,205 | 1.854 | 0.019 | 0.498 | 0.537 |
| Experienced physical violence since age 15 by any perpetrator | 0.332 | 0.010 | 5,737 | 5,737 | 1.674 | 0.031 | 0.311 | 0.352 |
| Experienced sexual violence by any perpetrator ever | 0.141 | 0.007 | 5,737 | 5,737 | 1.565 | 0.051 | 0.127 | 0.156 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner ever | 0.062 | 0.005 | 5,737 | 5,737 | 1.476 | 0.076 | 0.052 | 0.071 |
|  | 0.416 | 0.012 | 5,137 | 4,919 | 1.677 | 0.028 | 0.393 | 0.439 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.206 | 0.008 | 5,137 | 4,919 | 1.469 | 0.040 | 0.189 | 0.223 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.284 | 0.010 | 5,137 | 4,919 | 1.536 | 0.034 | 0.264 | 0.303 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.548 | 0.011 | 6,293 | 6,277 | 1.784 | 0.020 | 0.526 | 0.571 |
| No education | 0.100 | 0.006 | 6,293 | 6,277 | 1.569 | 0.059 | 0.088 | 0.112 |
| Secondary education or higher | 0.785 | 0.009 | 6,293 | 6,277 | 1.771 | 0.012 | 0.766 | 0.803 |
| Literacy | 0.738 | 0.010 | 6,293 | 6,277 | 1.737 | 0.013 | 0.719 | 0.758 |
| Use of the internet in last 12 months | 0.616 | 0.010 | 6,293 | 6,277 | 1.654 | 0.016 | 0.595 | 0.636 |
| Current tobacco use | 0.043 | 0.004 | 6,293 | 6,277 | 1.535 | 0.091 | 0.035 | 0.051 |
| Currently married/in union | 0.450 | 0.008 | 6,293 | 6,277 | 1.225 | 0.017 | 0.435 | 0.466 |
| Had sexual intercourse before age 18 | 0.260 | 0.010 | 4,863 | 4,853 | 1.559 | 0.038 | 0.240 | 0.280 |
| Want no more children | 0.276 | 0.012 | 3,020 | 2,828 | 1.473 | 0.043 | 0.252 | 0.300 |
| Want to delay next birth at least 2 years | 0.379 | 0.015 | 3,020 | 2,828 | 1.649 | 0.038 | 0.350 | 0.408 |
| Ideal number of children | 4.971 | 0.071 | 6,184 | 6,153 | 1.620 | 0.014 | 4.830 | 5.113 |
| Discriminatory attitudes towards people with HIV | 0.721 | 0.010 | 6,031 | 6,093 | 1.817 | 0.015 | 0.700 | 0.742 |
| Condom use at last sex | 0.281 | 0.015 | 1,997 | 2,164 | 1.519 | 0.054 | 0.250 | 0.311 |
| Ever tested for HIV and received results of last test | 0.067 | 0.004 | 6,293 | 6,277 | 1.404 | 0.066 | 0.058 | 0.076 |
| Male circumcision | 0.952 | 0.005 | 6,293 | 6,277 | 1.881 | 0.005 | 0.942 | 0.962 |
| Mobile phone ownership | 0.875 | 0.006 | 6,293 | 6,277 | 1.395 | 0.007 | 0.863 | 0.886 |
| Have and use a bank account or mobile phone for financial transactions | 0.791 | 0.008 | 6,293 | 6,277 | 1.559 | 0.010 | 0.775 | 0.807 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.158 | 0.007 | 6,293 | 6,277 | 1.567 | 0.046 | 0.144 | 0.173 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 3 Sampling errors: Urban sample, Ghana DHS 2022

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Electricity primary source of lighting | 0.946 | 0.006 | 30,760 | 33,294 | 2.156 | 0.007 | 0.933 | 0.958 |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.378 | 0.016 | 30,760 | 33,294 | 2.616 | 0.042 | 0.347 | 0.410 |
| Births registered with civil authority | 0.775 | 0.012 | 4,021 | 4,093 | 1.509 | 0.015 | 0.752 | 0.799 |
| Ownership of at least one ITN | 0.582 | 0.010 | 8,795 | 10,320 | 1.886 | 0.017 | 0.562 | 0.602 |
| Ownership of at least one ITN for every two persons | 0.415 | 0.009 | 8,746 | 10,256 | 1.798 | 0.023 | 0.396 | 0.434 |
| Improved drinking water source | 0.975 | 0.004 | 30,760 | 33,294 | 1.904 | 0.005 | 0.966 | 0.984 |
| At least basic drinking water service | 0.949 | 0.006 | 30,760 | 33,294 | 1.811 | 0.006 | 0.937 | 0.961 |
| Water available when needed | 0.802 | 0.011 | 30,760 | 33,294 | 2.150 | 0.014 | 0.779 | 0.825 |
| Improved sanitation facility | 0.810 | 0.016 | 30,760 | 33,294 | 3.009 | 0.020 | 0.777 | 0.842 |
| At least basic sanitation service | 0.335 | 0.019 | 30,760 | 33,294 | 3.112 | 0.057 | 0.297 | 0.373 |
| Using open defecation | 0.117 | 0.013 | 30,760 | 33,294 | 2.986 | 0.115 | 0.090 | 0.143 |
| Using a handwashing facility with soap and water | 0.528 | 0.017 | 30,192 | 32,643 | 2.600 | 0.032 | 0.494 | 0.561 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.092 | 0.005 | 7,362 | 8,557 | 1.616 | 0.059 | 0.081 | 0.103 |
| Secondary education or higher | 0.795 | 0.008 | 7,362 | 8,557 | 1.803 | 0.011 | 0.778 | 0.812 |
| Literacy | 0.715 | 0.010 | 7,362 | 8,557 | 1.841 | 0.014 | 0.695 | 0.734 |
| Use of the internet in last 12 months | 0.578 | 0.013 | 7,362 | 8,557 | 2.203 | 0.022 | 0.553 | 0.604 |
| Current tobacco use | 0.011 | 0.002 | 7,362 | 8,557 | 1.928 | 0.209 | 0.007 | 0.016 |
| Age-specific fertility rate 15-19 | 42.616 | 4.081 | 3,910 | 4,305 | 1.214 | 0.096 | 34.454 | 50.778 |
| Total fertility rate (3 years) | 3.213 | 0.093 | 20,748 | 24,171 | 1.370 | 0.029 | 3.027 | 3.399 |
| Currently pregnant | 0.062 | 0.004 | 7,362 | 8,557 | 1.448 | 0.066 | 0.053 | 0.070 |
| Mean number of children ever born to women age 40-49 | 3.878 | 0.084 | 1,390 | 1,681 | 1.534 | 0.022 | 3.710 | 4.047 |
| Median birth interval | 42.262 | 0.717 | 2,732 | 2,910 | 1.373 | 0.017 | 40.829 | 43.696 |
| Want no more children | 0.347 | 0.011 | 3,884 | 4,248 | 1.454 | 0.032 | 0.325 | 0.369 |
| Ideal number of children | 4.171 | 0.038 | 7,278 | 8,441 | 1.807 | 0.009 | 4.096 | 4.246 |
| Total wanted fertility rate (3 years) | 2.820 | 0.086 | 20,748 | 24,171 | 1.370 | 0.031 | 2.647 | 2.993 |
| Currently using any contraceptive method | 0.371 | 0.013 | 3,884 | 4,248 | 1.630 | 0.034 | 0.346 | 0.396 |
| Currently using any modern method | 0.266 | 0.010 | 3,884 | 4,248 | 1.416 | 0.038 | 0.246 | 0.286 |
| Currently using pill | 0.040 | 0.004 | 3,884 | 4,248 | 1.158 | 0.091 | 0.033 | 0.047 |
| Currently using injectables | 0.066 | 0.006 | 3,884 | 4,248 | 1.433 | 0.087 | 0.054 | 0.077 |
| Currently using implants | 0.065 | 0.005 | 3,884 | 4,248 | 1.235 | 0.075 | 0.056 | 0.075 |
| Currently using male condoms | 0.020 | 0.003 | 3,884 | 4,248 | 1.409 | 0.157 | 0.014 | 0.027 |
| Currently using any traditional method | 0.104 | 0.007 | 3,884 | 4,248 | 1.491 | 0.070 | 0.090 | 0.119 |
| Unmet need for spacing | 0.128 | 0.008 | 3,884 | 4,248 | 1.534 | 0.064 | 0.111 | 0.144 |
| Unmet need for limiting | 0.096 | 0.006 | 3,884 | 4,248 | 1.357 | 0.067 | 0.083 | 0.109 |
| Unmet need total | 0.223 | 0.009 | 3,884 | 4,248 | 1.374 | 0.041 | 0.205 | 0.242 |
| Demand satisfied by modern methods | 0.448 | 0.014 | 2,236 | 2,524 | 1.341 | 0.031 | 0.421 | 0.476 |
| Demand satisfied by modern methods (all women) | 0.490 | 0.011 | 3,376 | 3,877 | 1.290 | 0.023 | 0.468 | 0.513 |
| Participation in decision making about family planning | 0.868 | 0.010 | 3,884 | 4,248 | 1.886 | 0.012 | 0.848 | 0.889 |
| Not exposed to any of the eight media sources | 0.241 | 0.010 | 7,362 | 8,557 | 1.965 | 0.041 | 0.222 | 0.261 |
| Neonatal mortality (last 0-4 years) | 16.889 | 3.042 | 3,859 | 4,161 | 1.325 | 0.180 | 10.805 | 22.973 |
| Postneonatal mortality (last 0-4 years) | 10.356 | 2.025 | 3,867 | 4,165 | 1.182 | 0.196 | 6.305 | 14.407 |
| Infant mortality (last 0-4 years) | 27.245 | 3.400 | 3,861 | 4,163 | 1.188 | 0.125 | 20.445 | 34.046 |
| Child mortality (last 0-4 years) | 9.787 | 1.860 | 3,822 | 4,135 | 1.161 | 0.190 | 6.067 | 13.506 |
| Under-5 mortality (last 0-4 years) | 36.765 | 3.732 | 3,874 | 4,175 | 1.156 | 0.102 | 29.302 | 44.229 |
| Perinatal mortality rate | 27.588 | 3.368 | 3,902 | 4,226 | 1.206 | 0.122 | 20.852 | 34.323 |
| Stillbirth rate | 13.332 | 2.510 | 3,902 | 4,226 | 1.323 | 0.188 | 8.313 | 18.351 |
| Early neonatal mortality rate | 14.438 | 2.778 | 3,857 | 4,172 | 1.314 | 0.192 | 8.882 | 19.995 |
| Received ANC from a skilled provider | 0.986 | 0.005 | 1,561 | 1,623 | 1.538 | 0.005 | 0.977 | 0.995 |
| 4+ ANC visits | 0.912 | 0.010 | 1,561 | 1,623 | 1.459 | 0.011 | 0.892 | 0.933 |
| 8+ ANC visits | 0.462 | 0.018 | 1,561 | 1,623 | 1.401 | 0.038 | 0.427 | 0.497 |
| Took any iron-containing supplements | 0.944 | 0.008 | 1,561 | 1,623 | 1.323 | 0.008 | 0.928 | 0.959 |
| Mothers protected against tetanus for last birth | 0.792 | 0.015 | 1,561 | 1,623 | 1.500 | 0.020 | 0.761 | 0.822 |
| Delivered in a health facility (live births) | 0.943 | 0.008 | 1,628 | 1,700 | 1.295 | 0.008 | 0.928 | 0.959 |
| Delivered by a skilled provider (live births) | 0.953 | 0.007 | 1,628 | 1,700 | 1.310 | 0.008 | 0.938 | 0.967 |
| Delivered by C-section (live births) | 0.270 | 0.017 | 1,628 | 1,700 | 1.368 | 0.062 | 0.237 | 0.304 |
| Women with postnatal check during first 2 days | 0.924 | 0.009 | 1,561 | 1,623 | 1.404 | 0.010 | 0.905 | 0.942 |
| Newborns with postnatal check during first 2 days | 0.905 | 0.010 | 1,561 | 1,623 | 1.359 | 0.011 | 0.885 | 0.926 |
| Any problem accessing health care | 0.467 | 0.012 | 7,362 | 8,557 | 2.120 | 0.026 | 0.443 | 0.492 |
| Ever had vaccination card | 0.994 | 0.002 | 827 | 858 | 0.851 | 0.003 | 0.989 | 0.999 |
| Received BCG vaccination | 0.979 | 0.007 | 827 | 858 | 1.195 | 0.007 | 0.966 | 0.992 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.914 | 0.012 | 827 | 858 | 1.160 | 0.013 | 0.890 | 0.938 |
| Received pneumococcal vaccination (3 doses) | 0.888 | 0.014 | 827 | 858 | 1.211 | 0.016 | 0.859 | 0.917 |
| Received measles and rubella 1 vaccination | 0.880 | 0.016 | 827 | 858 | 1.283 | 0.018 | 0.849 | 0.911 |
| Fully vaccinated according to national schedule (12-23 months) | 0.633 | 0.022 | 827 | 858 | 1.203 | 0.034 | 0.589 | 0.676 |
| Received measles and rubella 2 vaccination | 0.693 | 0.026 | 716 | 786 | 1.450 | 0.038 | 0.641 | 0.746 |
| Fully vaccinated according to national schedule (24-35 months) | 0.437 | 0.027 | 716 | 786 | 1.430 | 0.063 | 0.382 | 0.492 |
| Sought treatment for diarrhoea | 0.473 | 0.030 | 470 | 443 | 1.139 | 0.063 | 0.413 | 0.532 |
| Treated with ORS | 0.332 | 0.031 | 470 | 443 | 1.278 | 0.094 | 0.270 | 0.395 |
| Height-for-age (-3 SD) | 0.034 | 0.005 | 2,024 | 2,096 | 1.183 | 0.154 | 0.023 | 0.044 |
| Height-for-age (-2 SD) | 0.151 | 0.012 | 2,024 | 2,096 | 1.364 | 0.082 | 0.126 | 0.175 |
| Weight-for-height (-2 SD) | 0.058 | 0.008 | 2,023 | 2,092 | 1.374 | 0.133 | 0.043 | 0.074 |
| Weight-for-height (+2 SD) | 0.023 | 0.004 | 2,023 | 2,092 | 1.236 | 0.192 | 0.014 | 0.032 |
| Weight-for-age (-2 SD) | 0.112 | 0.011 | 2,028 | 2,101 | 1.406 | 0.099 | 0.090 | 0.135 |

Table B.3-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.489 | 0.036 | 352 | 367 | 1.360 | 0.074 | 0.416 | 0.562 |
| Minimum dietary diversity (children 6-23 months) | 0.459 | 0.025 | 1,159 | 1,206 | 1.737 | 0.055 | 0.408 | 0.510 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.414 | 0.015 | 1,819 | 1,881 | 1.192 | 0.037 | 0.383 | 0.445 |
| Body mass index (BMI) <18.5 | 0.035 | 0.004 | 2,776 | 3,342 | 1.238 | 0.124 | 0.026 | 0.043 |
| Body mass index (BMI) $\geq 25.0$ | 0.597 | 0.013 | 2,776 | 3,342 | 1.415 | 0.022 | 0.571 | 0.623 |
| Body mass index-for-age (-2 SD) | 0.014 | 0.005 | 672 | 748 | 1.182 | 0.384 | 0.003 | 0.025 |
| Body mass index-for-age (+1 SD) | 0.180 | 0.020 | 672 | 748 | 1.338 | 0.110 | 0.140 | 0.220 |
| Minimum dietary diversity (women 15-49) | 0.524 | 0.010 | 7,362 | 8,557 | 1.772 | 0.020 | 0.503 | 0.544 |
| Prevalence of any anaemia (women 15-49) | 0.394 | 0.011 | 3,708 | 4,377 | 1.331 | 0.027 | 0.373 | 0.415 |
| Child slept under an ITN last night | 0.360 | 0.014 | 4,047 | 4,141 | 1.491 | 0.040 | 0.331 | 0.388 |
| Pregnant women slept under an ITN last night | 0.328 | 0.025 | 464 | 505 | 1.092 | 0.076 | 0.278 | 0.378 |
| Received 3+ doses of SP/Fansidar | 0.628 | 0.017 | 1,561 | 1,623 | 1.421 | 0.028 | 0.593 | 0.663 |
| Child had fever in last 2 weeks | 0.121 | 0.008 | 3,740 | 4,048 | 1.381 | 0.067 | 0.105 | 0.137 |
| Child had blood taken from finger/heel | 0.339 | 0.033 | 509 | 490 | 1.392 | 0.097 | 0.274 | 0.404 |
| Child took ACT | 0.749 | 0.044 | 227 | 190 | 1.297 | 0.059 | 0.661 | 0.837 |
| Child has malaria (based on rapid test) | 0.075 | 0.010 | 1,819 | 1,881 | 1.481 | 0.134 | 0.055 | 0.095 |
| Child has malaria (based on microscopy test) | 0.043 | 0.007 | 1,819 | 1,881 | 1.326 | 0.161 | 0.029 | 0.057 |
| Discriminatory attitudes towards people with HIV | 0.734 | 0.010 | 7,124 | 8,383 | 1.861 | 0.013 | 0.715 | 0.754 |
| Condom use at last sex | 0.117 | 0.009 | 1,776 | 2,159 | 1.166 | 0.076 | 0.099 | 0.135 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.157 | 0.006 | 7,362 | 8,557 | 1.473 | 0.040 | 0.144 | 0.169 |
| Mobile phone ownership | 0.866 | 0.006 | 7,362 | 8,557 | 1.437 | 0.007 | 0.854 | 0.877 |
| Have and use a bank account or mobile phone for financial transactions | 0.823 | 0.008 | 7,362 | 8,557 | 1.883 | 0.010 | 0.807 | 0.840 |
| Participate in decision making (all three decisions) | 0.611 | 0.014 | 3,884 | 4,248 | 1.803 | 0.023 | 0.583 | 0.639 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.143 | 0.007 | 7,362 | 8,557 | 1.763 | 0.050 | 0.128 | 0.157 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.593 | 0.015 | 3,884 | 4,248 | 1.852 | 0.025 | 0.564 | 0.622 |
| Experienced physical violence since age 15 by any perpetrator | 0.320 | 0.015 | 2,803 | 3,296 | 1.681 | 0.046 | 0.291 | 0.350 |
| Experienced sexual violence by any perpetrator ever | 0.148 | 0.010 | 2,803 | 3,296 | 1.539 | 0.070 | 0.128 | 0.169 |
| Experienced sexual violence by any non-intimate partner | 0.070 | 0.007 | 2,803 | 3,296 | 1.406 | 0.097 | 0.057 | 0.084 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.186 | 0.012 | 2,470 | 2,772 | 1.503 | 0.063 | 0.162 | 0.209 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.266 | 0.013 | 2,470 | 2,772 | 1.506 | 0.050 | 0.239 | 0.293 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.047 | 0.005 | 2,925 | 3,442 | 1.323 | 0.110 | 0.037 | 0.058 |
| Secondary education or higher | 0.874 | 0.010 | 2,925 | 3,442 | 1.656 | 0.012 | 0.854 | 0.895 |
| Literacy | 0.852 | 0.010 | 2,925 | 3,442 | 1.546 | 0.012 | 0.832 | 0.872 |
| Use of the internet in last 12 months | 0.744 | 0.013 | 2,925 | 3,442 | 1.582 | 0.017 | 0.718 | 0.769 |
| Current tobacco use | 0.036 | 0.006 | 2,925 | 3,442 | 1.699 | 0.162 | 0.024 | 0.048 |
| Want no more children | 0.302 | 0.019 | 1,297 | 1,479 | 1.478 | 0.062 | 0.264 | 0.340 |
| Discriminatory attitudes towards people with HIV | 0.673 | 0.015 | 2,863 | 3,393 | 1.727 | 0.023 | 0.643 | 0.703 |
| Condom use at last sex | 0.332 | 0.022 | 1,050 | 1,286 | 1.504 | 0.066 | 0.288 | 0.375 |
| Ever tested for HIV and received results of last test | 0.085 | 0.007 | 2,925 | 3,442 | 1.316 | 0.080 | 0.072 | 0.099 |
| Male circumcision | 0.978 | 0.004 | 2,925 | 3,442 | 1.419 | 0.004 | 0.970 | 0.985 |
| Mobile phone ownership | 0.913 | 0.007 | 2,925 | 3,442 | 1.400 | 0.008 | 0.898 | 0.928 |
| Have and use a bank account or mobile phone for financial transactions | 0.856 | 0.010 | 2,925 | 3,442 | 1.517 | 0.011 | 0.837 | 0.876 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.102 | 0.008 | 2,925 | 3,442 | 1.490 | 0.082 | 0.085 | 0.119 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 4 Sampling errors: Rural sample, Ghana DHS 2022

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted <br> (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Electricity primary source of lighting | 0.681 | 0.025 | 38,127 | 30,317 | 4.150 | 0.036 | 0.632 | 0.731 |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.079 | 0.007 | 38,127 | 30,317 | 2.426 | 0.083 | 0.066 | 0.093 |
| Births registered with civil authority | 0.717 | 0.014 | 5,758 | 4,415 | 1.870 | 0.019 | 0.689 | 0.745 |
| Ownership of at least one ITN | 0.781 | 0.009 | 9,138 | 7,613 | 2.175 | 0.012 | 0.763 | 0.800 |
| Ownership of at least one ITN for every two persons | 0.554 | 0.011 | 9,090 | 7,562 | 2.067 | 0.019 | 0.533 | 0.576 |
| Improved drinking water source | 0.774 | 0.020 | 38,127 | 30,317 | 3.759 | 0.026 | 0.733 | 0.815 |
| At least basic drinking water service | 0.716 | 0.020 | 38,127 | 30,317 | 3.418 | 0.028 | 0.677 | 0.756 |
| Water available when needed | 0.817 | 0.012 | 38,127 | 30,317 | 2.481 | 0.015 | 0.792 | 0.842 |
| Improved sanitation facility | 0.436 | 0.020 | 38,127 | 30,317 | 3.210 | 0.045 | 0.397 | 0.476 |
| At least basic sanitation service | 0.142 | 0.009 | 38,127 | 30,317 | 2.054 | 0.063 | 0.124 | 0.159 |
| Using open defecation | 0.388 | 0.019 | 38,127 | 30,317 | 2.960 | 0.048 | 0.351 | 0.425 |
| Using a handwashing facility with soap and water | 0.333 | 0.014 | 37,470 | 29,622 | 2.495 | 0.043 | 0.304 | 0.362 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.252 | 0.010 | 7,652 | 6,457 | 1.933 | 0.038 | 0.233 | 0.271 |
| Secondary education or higher | 0.577 | 0.012 | 7,652 | 6,457 | 2.141 | 0.021 | 0.553 | 0.602 |
| Literacy | 0.466 | 0.012 | 7,652 | 6,457 | 2.100 | 0.026 | 0.442 | 0.490 |
| Use of the internet in last 12 months | 0.241 | 0.011 | 7,652 | 6,457 | 2.285 | 0.046 | 0.218 | 0.263 |
| Current tobacco use | 0.007 | 0.001 | 7,652 | 6,457 | 1.595 | 0.222 | 0.004 | 0.010 |
| Age-specific fertility rate 15-19 | 87.930 | 4.864 | 4,230 | 3,493 | 1.153 | 0.055 | 78.203 | 97.658 |
| Total fertility rate (3 years) | 4.828 | 0.114 | 21,407 | 18,120 | 1.361 | 0.024 | 4.601 | 5.055 |
| Currently pregnant | 0.077 | 0.004 | 7,652 | 6,457 | 1.206 | 0.048 | 0.070 | 0.085 |
| Mean number of children ever born to women age 40-49 | 5.302 | 0.099 | 1,485 | 1,306 | 1.669 | 0.019 | 5.104 | 5.499 |
| Median birth interval | 39.280 | 0.600 | 4,198 | 3,337 | 1.665 | 0.015 | 38.081 | 40.479 |
| Want no more children | 0.308 | 0.010 | 4,927 | 3,956 | 1.568 | 0.033 | 0.288 | 0.329 |
| Ideal number of children | 4.947 | 0.048 | 7,562 | 6,357 | 1.956 | 0.010 | 4.850 | 5.043 |
| Total wanted fertility rate (3 years) | 4.239 | 0.111 | 21,407 | 18,120 | 1.387 | 0.026 | 4.017 | 4.460 |
| Currently using any contraceptive method | 0.355 | 0.010 | 4,927 | 3,956 | 1.422 | 0.027 | 0.336 | 0.375 |
| Currently using any modern method | 0.291 | 0.010 | 4,927 | 3,956 | 1.503 | 0.033 | 0.271 | 0.310 |
| Currently using pill | 0.043 | 0.005 | 4,927 | 3,956 | 1.830 | 0.124 | 0.032 | 0.053 |
| Currently using injectables | 0.094 | 0.006 | 4,927 | 3,956 | 1.551 | 0.069 | 0.081 | 0.107 |
| Currently using implants | 0.094 | 0.006 | 4,927 | 3,956 | 1.516 | 0.067 | 0.082 | 0.107 |
| Currently using male condoms | 0.008 | 0.002 | 4,927 | 3,956 | 1.246 | 0.199 | 0.005 | 0.011 |
| Currently using any traditional method | 0.065 | 0.005 | 4,927 | 3,956 | 1.478 | 0.080 | 0.054 | 0.075 |
| Unmet need for spacing | 0.158 | 0.007 | 4,927 | 3,956 | 1.339 | 0.044 | 0.144 | 0.172 |
| Unmet need for limiting | 0.088 | 0.006 | 4,927 | 3,956 | 1.393 | 0.064 | 0.076 | 0.099 |
| Unmet need total | 0.246 | 0.009 | 4,927 | 3,956 | 1.413 | 0.035 | 0.228 | 0.263 |
| Demand satisfied by modern methods | 0.483 | 0.014 | 2,775 | 2,378 | 1.518 | 0.029 | 0.456 | 0.511 |
| Demand satisfied by modern methods (all women) | 0.500 | 0.013 | 3,655 | 3,236 | 1.558 | 0.025 | 0.475 | 0.525 |
| Participation in decision making about family planning | 0.813 | 0.011 | 4,927 | 3,956 | 2.054 | 0.014 | 0.791 | 0.836 |
| Not exposed to any of the eight media sources | 0.368 | 0.013 | 7,652 | 6,457 | 2.348 | 0.035 | 0.342 | 0.394 |
| Neonatal mortality (last 0-4 years) | 17.424 | 2.111 | 5,496 | 4,411 | 1.136 | 0.121 | 13.202 | 21.645 |
| Postneonatal mortality (last 0-4 years) | 11.291 | 1.711 | 5,472 | 4,392 | 1.185 | 0.152 | 7.868 | 14.713 |
| Infant mortality (last 0-4 years) | 28.714 | 2.695 | 5,498 | 4,412 | 1.157 | 0.094 | 23.324 | 34.104 |
| Child mortality (last 0-4 years) | 13.949 | 2.023 | 5,336 | 4,290 | 1.219 | 0.145 | 9.903 | 17.995 |
| Under-5 mortality (last 0-4 years) | 42.263 | 3.208 | 5,529 | 4,438 | 1.161 | 0.076 | 35.847 | 48.679 |
| Perinatal mortality rate | 28.982 | 2.900 | 5,582 | 4,483 | 1.233 | 0.100 | 23.182 | 34.782 |
| Stillbirth rate | 16.880 | 2.478 | 5,582 | 4,483 | 1.385 | 0.147 | 11.924 | 21.836 |
| Early neonatal mortality rate | 12.306 | 1.809 | 5,496 | 4,409 | 1.148 | 0.147 | 8.687 | 15.925 |
| Received ANC from a skilled provider | 0.971 | 0.005 | 2,289 | 1,868 | 1.526 | 0.006 | 0.960 | 0.981 |
| 4+ ANC visits | 0.848 | 0.015 | 2,289 | 1,868 | 1.973 | 0.017 | 0.818 | 0.877 |
| 8+ ANC visits | 0.320 | 0.018 | 2,289 | 1,868 | 1.850 | 0.056 | 0.284 | 0.356 |
| Took any iron-containing supplements | 0.905 | 0.010 | 2,289 | 1,868 | 1.574 | 0.011 | 0.885 | 0.924 |
| Mothers protected against tetanus for last birth | 0.692 | 0.017 | 2,289 | 1,868 | 1.796 | 0.025 | 0.657 | 0.726 |
| Delivered in a health facility (live births) | 0.791 | 0.018 | 2,383 | 1,938 | 2.047 | 0.022 | 0.756 | 0.827 |
| Delivered by a skilled provider (live births) | 0.808 | 0.017 | 2,383 | 1,938 | 2.058 | 0.021 | 0.773 | 0.842 |
| Delivered by C-section (live births) | 0.153 | 0.011 | 2,383 | 1,938 | 1.428 | 0.074 | 0.130 | 0.175 |
| Women with postnatal check during first 2 days | 0.829 | 0.014 | 2,289 | 1,868 | 1.786 | 0.017 | 0.801 | 0.857 |
| Newborns with postnatal check during first 2 days | 0.837 | 0.014 | 2,289 | 1,868 | 1.770 | 0.016 | 0.810 | 0.865 |
| Any problem accessing health care | 0.628 | 0.016 | 7,652 | 6,457 | 2.842 | 0.025 | 0.596 | 0.659 |
| Ever had vaccination card | 0.970 | 0.007 | 1,146 | 965 | 1.369 | 0.007 | 0.956 | 0.985 |
| Received BCG vaccination | 0.930 | 0.009 | 1,146 | 965 | 1.231 | 0.010 | 0.911 | 0.949 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.869 | 0.014 | 1,146 | 965 | 1.416 | 0.017 | 0.840 | 0.897 |
| Received pneumococcal vaccination (3 doses) | 0.877 | 0.013 | 1,146 | 965 | 1.338 | 0.015 | 0.851 | 0.904 |
| Received measles and rubella 1 vaccination | 0.861 | 0.014 | 1,146 | 965 | 1.359 | 0.016 | 0.833 | 0.890 |
| Fully vaccinated according to national schedule (12-23 months) | 0.504 | 0.023 | 1,146 | 965 | 1.501 | 0.045 | 0.458 | 0.549 |
| Received measles and rubella 2 vaccination | 0.757 | 0.019 | 986 | 760 | 1.320 | 0.025 | 0.719 | 0.795 |
| Fully vaccinated according to national schedule (24-35 months) | 0.411 | 0.022 | 986 | 760 | 1.322 | 0.054 | 0.367 | 0.456 |
| Sought treatment for diarrhoea | 0.529 | 0.024 | 737 | 611 | 1.275 | 0.046 | 0.480 | 0.578 |
| Treated with ORS | 0.446 | 0.036 | 737 | 611 | 1.842 | 0.080 | 0.375 | 0.518 |
| Height-for-age (-3 SD) | 0.050 | 0.005 | 2,904 | 2,197 | 1.179 | 0.106 | 0.039 | 0.060 |
| Height-for-age (-2 SD) | 0.196 | 0.010 | 2,904 | 2,197 | 1.230 | 0.051 | 0.176 | 0.216 |
| Weight-for-height (-2 SD) | 0.061 | 0.006 | 2,908 | 2,199 | 1.202 | 0.096 | 0.049 | 0.072 |
| Weight-for-height (+2 SD) | 0.017 | 0.003 | 2,908 | 2,199 | 1.198 | 0.179 | 0.011 | 0.022 |
| Weight-for-age (-2 SD) | 0.133 | 0.008 | 2,907 | 2,198 | 1.197 | 0.063 | 0.116 | 0.149 |

Table B.4-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.555 | 0.027 | 606 | 459 | 1.330 | 0.048 | 0.501 | 0.609 |
| Minimum dietary diversity (children 6-23 months) | 0.374 | 0.017 | 1,627 | 1,356 | 1.446 | 0.046 | 0.340 | 0.409 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.562 | 0.014 | 2,576 | 1,956 | 1.313 | 0.025 | 0.534 | 0.591 |
| Body mass index (BMI) <18.5 | 0.061 | 0.006 | 2,725 | 2,362 | 1.217 | 0.091 | 0.050 | 0.072 |
| Body mass index (BMI) $\geq 25.0$ | 0.367 | 0.015 | 2,725 | 2,362 | 1.585 | 0.040 | 0.338 | 0.397 |
| Body mass index-for-age (-2 SD) | 0.037 | 0.009 | 702 | 591 | 1.281 | 0.247 | 0.019 | 0.055 |
| Body mass index-for-age (+1 SD) | 0.080 | 0.012 | 702 | 591 | 1.187 | 0.152 | 0.056 | 0.105 |
| Minimum dietary diversity (women 15-49) | 0.467 | 0.012 | 7,652 | 6,457 | 2.163 | 0.026 | 0.443 | 0.492 |
| Prevalence of any anaemia (women 15-49) | 0.434 | 0.011 | 3,849 | 3,278 | 1.380 | 0.025 | 0.412 | 0.456 |
| Child slept under an ITN last night | 0.611 | 0.015 | 5,803 | 4,439 | 1.834 | 0.024 | 0.581 | 0.641 |
| Pregnant women slept under an ITN last night | 0.633 | 0.026 | 647 | 479 | 1.303 | 0.042 | 0.581 | 0.686 |
| Received 3+ doses of SP/Fansidar | 0.580 | 0.019 | 2,289 | 1,868 | 1.810 | 0.032 | 0.543 | 0.617 |
| Child had fever in last 2 weeks | 0.179 | 0.010 | 5,322 | 4,267 | 1.708 | 0.054 | 0.159 | 0.198 |
| Child had blood taken from finger/heel | 0.439 | 0.025 | 942 | 762 | 1.482 | 0.058 | 0.388 | 0.490 |
| Child took ACT | 0.800 | 0.026 | 480 | 370 | 1.285 | 0.032 | 0.748 | 0.851 |
| Child has malaria (based on rapid test) | 0.252 | 0.013 | 2,578 | 1,957 | 1.338 | 0.051 | 0.226 | 0.277 |
| Child has malaria (based on microscopy test) | 0.128 | 0.009 | 2,578 | 1,957 | 1.261 | 0.074 | 0.109 | 0.147 |
| Discriminatory attitudes towards people with HIV | 0.855 | 0.008 | 6,856 | 5,898 | 1.907 | 0.009 | 0.839 | 0.871 |
| Condom use at last sex | 0.087 | 0.009 | 1,355 | 1,300 | 1.173 | 0.103 | 0.069 | 0.105 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.142 | 0.005 | 7,652 | 6,457 | 1.304 | 0.037 | 0.131 | 0.152 |
| Mobile phone ownership | 0.704 | 0.008 | 7,652 | 6,457 | 1.600 | 0.012 | 0.688 | 0.721 |
| Have and use a bank account or mobile phone for financial transactions | 0.604 | 0.013 | 7,652 | 6,457 | 2.243 | 0.021 | 0.579 | 0.629 |
| Participate in decision making (all three decisions) | 0.497 | 0.015 | 4,927 | 3,956 | 2.038 | 0.029 | 0.468 | 0.526 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.259 | 0.011 | 7,652 | 6,457 | 2.126 | 0.041 | 0.238 | 0.280 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.436 | 0.012 | 4,927 | 3,956 | 1.750 | 0.028 | 0.412 | 0.461 |
| Experienced physical violence since age 15 by any perpetrator | 0.347 | 0.014 | 2,934 | 2,441 | 1.612 | 0.041 | 0.318 | 0.375 |
| Experienced sexual violence by any perpetrator ever | 0.131 | 0.010 | 2,934 | 2,441 | 1.533 | 0.073 | 0.112 | 0.150 |
| Experienced sexual violence by any non-intimate partner | 0.050 | 0.006 | 2,934 | 2,441 | 1.523 | 0.122 | 0.038 | 0.063 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.232 | 0.011 | 2,667 | 2,148 | 1.405 | 0.050 | 0.209 | 0.255 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.307 | 0.014 | 2,667 | 2,148 | 1.554 | 0.045 | 0.279 | 0.334 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.164 | 0.011 | 3,368 | 2,835 | 1.655 | 0.064 | 0.143 | 0.185 |
| Secondary education or higher | 0.676 | 0.014 | 3,368 | 2,835 | 1.796 | 0.021 | 0.647 | 0.705 |
| Literacy | 0.600 | 0.015 | 3,368 | 2,835 | 1.736 | 0.024 | 0.571 | 0.629 |
| Use of the internet in last 12 months | 0.460 | 0.015 | 3,368 | 2,835 | 1.725 | 0.032 | 0.430 | 0.490 |
| Current tobacco use | 0.051 | 0.005 | 3,368 | 2,835 | 1.315 | 0.097 | 0.041 | 0.061 |
| Want no more children | 0.248 | 0.014 | 1,723 | 1,349 | 1.352 | 0.057 | 0.220 | 0.276 |
| Discriminatory attitudes towards people with HIV | 0.781 | 0.014 | 3,168 | 2,700 | 1.859 | 0.017 | 0.754 | 0.808 |
| Condom use at last sex | 0.206 | 0.018 | 947 | 878 | 1.364 | 0.087 | 0.170 | 0.242 |
| Ever tested for HIV and received results of last test | 0.046 | 0.005 | 3,368 | 2,835 | 1.468 | 0.116 | 0.035 | 0.056 |
| Male circumcision | 0.920 | 0.010 | 3,368 | 2,835 | 2.169 | 0.011 | 0.900 | 0.940 |
| Mobile phone ownership | 0.828 | 0.009 | 3,368 | 2,835 | 1.374 | 0.011 | 0.810 | 0.846 |
| Have and use a bank account or mobile phone for financial transactions | 0.712 | 0.012 | 3,368 | 2,835 | 1.528 | 0.017 | 0.689 | 0.736 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.227 | 0.011 | 3,368 | 2,835 | 1.580 | 0.050 | 0.204 | 0.249 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 5 Sampling errors: Western sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, spac and lighting | 0.309 | 0.036 | 3,390 | 3,944 | 2.295 | 0.118 | 0.236 | 0.381 |
| Births registered with civil authority | 0.856 | 0.021 | 459 | 526 | 1.083 | 0.025 | 0.814 | 0.898 |
| Ownership of at least one ITN | 0.640 | 0.021 | 1,087 | 1,282 | 1.413 | 0.032 | 0.599 | 0.681 |
| Ownership of at least one ITN for every two persons | 0.494 | 0.020 | 1,073 | 1,265 | 1.341 | 0.041 | 0.453 | 0.535 |
| At least basic drinking water service | 0.904 | 0.035 | 3,390 | 3,944 | 3.036 | 0.039 | 0.834 | 0.975 |
| Water available when needed | 0.854 | 0.022 | 3,390 | 3,944 | 1.689 | 0.026 | 0.809 | 0.898 |
| At least basic sanitation service | 0.241 | 0.038 | 3,390 | 3,944 | 2.420 | 0.157 | 0.165 | 0.316 |
| Using open defecation | 0.096 | 0.026 | 3,390 | 3,944 | 2.399 | 0.268 | 0.045 | 0.148 |
| Using a handwashing facility with soap and water | 0.836 | 0.028 | 3,380 | 3,930 | 1.994 | 0.033 | 0.780 | 0.891 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.097 | 0.013 | 797 | 955 | 1.219 | 0.132 | 0.072 | 0.123 |
| Secondary education or higher | 0.769 | 0.024 | 797 | 955 | 1.619 | 0.032 | 0.720 | 0.817 |
| Literacy | 0.654 | 0.030 | 797 | 955 | 1.758 | 0.045 | 0.594 | 0.713 |
| Use of the internet in last 12 months | 0.477 | 0.032 | 797 | 955 | 1.828 | 0.068 | 0.412 | 0.541 |
| Current tobacco use | 0.004 | 0.002 | 797 | 955 | 0.984 | 0.581 | 0.000 | 0.008 |
| Total fertility rate (3 years) | 3.596 | 0.280 | 2,239 | 2,681 | 1.296 | 0.078 | 3.037 | 4.155 |
| Currently pregnant | 0.071 | 0.008 | 797 | 955 | 0.902 | 0.116 | 0.054 | 0.087 |
| Mean number of children ever born to women age 40-49 | 4.477 | 0.229 | 133 | 163 | 1.293 | 0.051 | 4.018 | 4.936 |
| Median birth interval | 39.166 | 1.727 | 335 | 394 | 1.184 | 0.044 | 35.712 | 42.620 |
| Ideal number of children | 4.145 | 0.065 | 794 | 951 | 1.188 | 0.016 | 4.015 | 4.275 |
| Total wanted fertility rate (3 years) | 3.042 | 0.213 | 2,239 | 2,681 | 1.160 | 0.070 | 2.617 | 3.468 |
| Currently using any contraceptive method | 0.448 | 0.029 | 408 | 487 | 1.184 | 0.065 | 0.390 | 0.507 |
| Currently using any modern method | 0.355 | 0.028 | 408 | 487 | 1.168 | 0.078 | 0.300 | 0.411 |
| Currently using pill | 0.036 | 0.010 | 408 | 487 | 1.048 | 0.269 | 0.017 | 0.055 |
| Currently using injectables | 0.098 | 0.017 | 408 | 487 | 1.144 | 0.172 | 0.064 | 0.132 |
| Currently using implants | 0.113 | 0.017 | 408 | 487 | 1.091 | 0.151 | 0.079 | 0.147 |
| Currently using male condoms | 0.026 | 0.009 | 408 | 487 | 1.186 | 0.360 | 0.007 | 0.045 |
| Currently using any traditional method | 0.093 | 0.015 | 408 | 487 | 1.041 | 0.161 | 0.063 | 0.123 |
| Unmet need for spacing | 0.084 | 0.015 | 408 | 487 | 1.112 | 0.183 | 0.053 | 0.114 |
| Unmet need for limiting | 0.102 | 0.020 | 408 | 487 | 1.306 | 0.193 | 0.063 | 0.141 |
| Unmet need total | 0.185 | 0.025 | 408 | 487 | 1.271 | 0.132 | 0.136 | 0.234 |
| Demand satisfied by modern methods | 0.561 | 0.036 | 259 | 309 | 1.162 | 0.064 | 0.489 | 0.633 |
| Demand satisfied by modern methods (all women) | 0.554 | 0.029 | 410 | 484 | 1.159 | 0.052 | 0.497 | 0.611 |
| Participation in decision making about family planning | 0.907 | 0.018 | 408 | 487 | 1.277 | 0.020 | 0.870 | 0.944 |
| Not exposed to any of the eight media sources | 0.140 | 0.018 | 797 | 955 | 1.489 | 0.131 | 0.104 | 0.177 |
| Neonatal mortality (last 0-9 years) | 24.763 | 5.265 | 871 | 1,036 | 0.955 | 0.213 | 14.234 | 35.292 |
| Postneonatal mortality (last 0-9 years) | 11.368 | 3.945 | 872 | 1,038 | 1.030 | 0.347 | 3.478 | 19.258 |
| Infant mortality (last 0-9 years) | 36.131 | 5.502 | 872 | 1,038 | 0.772 | 0.152 | 25.127 | 47.134 |
| Child mortality (last 0-9 years) | 12.109 | 3.493 | 886 | 1,056 | 0.947 | 0.288 | 5.123 | 19.095 |
| Under-5 mortality (last 0-9 years) | 47.802 | 5.865 | 873 | 1,039 | 0.792 | 0.123 | 36.072 | 59.532 |
| Perinatal mortality rate | 33.832 | 8.629 | 460 | 542 | 1.033 | 0.255 | 16.574 | 51.091 |
| Stillbirth rate | 15.915 | 6.343 | 460 | 542 | 1.084 | 0.399 | 3.228 | 28.602 |
| Early neonatal mortality rate | 18.158 | 6.431 | 454 | 535 | 1.029 | 0.354 | 5.297 | 31.020 |
| Received ANC from a skilled provider | 0.929 | 0.024 | 176 | 208 | 1.242 | 0.026 | 0.881 | 0.977 |
| 4+ ANC visits | 0.894 | 0.028 | 176 | 208 | 1.217 | 0.032 | 0.837 | 0.950 |
| 8+ ANC visits | 0.465 | 0.041 | 176 | 208 | 1.077 | 0.087 | 0.384 | 0.547 |
| Took any iron-containing supplements | 0.912 | 0.025 | 176 | 208 | 1.182 | 0.028 | 0.862 | 0.963 |
| Mothers protected against tetanus for last birth | 0.729 | 0.039 | 176 | 208 | 1.163 | 0.054 | 0.651 | 0.808 |
| Delivered in a health facility (live births) | 0.850 | 0.027 | 179 | 212 | 1.019 | 0.032 | 0.795 | 0.905 |
| Delivered by a skilled provider (live births) | 0.868 | 0.027 | 179 | 212 | 1.076 | 0.032 | 0.813 | 0.923 |
| Delivered by C-section (live births) | 0.196 | 0.032 | 179 | 212 | 1.066 | 0.165 | 0.131 | 0.260 |
| Women with postnatal check during first 2 days | 0.873 | 0.032 | 176 | 208 | 1.269 | 0.037 | 0.809 | 0.937 |
| Newborns with postnatal check during first 2 days | 0.891 | 0.025 | 176 | 208 | 1.078 | 0.028 | 0.840 | 0.942 |
| Any problem accessing health care | 0.529 | 0.037 | 797 | 955 | 2.072 | 0.069 | 0.456 | 0.602 |
| Ever had vaccination card | 0.947 | 0.025 | 95 | 112 | 0.924 | 0.027 | 0.896 | 0.998 |
| Received BCG vaccination | 0.932 | 0.027 | 95 | 112 | 0.892 | 0.028 | 0.879 | 0.985 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.828 | 0.041 | 95 | 112 | 1.007 | 0.050 | 0.746 | 0.911 |
| Received pneumococcal vaccination (3 doses) | 0.789 | 0.041 | 95 | 112 | 0.928 | 0.052 | 0.707 | 0.871 |
| Received measles and rubella 1 vaccination | 0.773 | 0.048 | 95 | 112 | 1.032 | 0.062 | 0.677 | 0.869 |
| Fully vaccinated according to national schedule (12-23 months) | 0.424 | 0.069 | 95 | 112 | 1.315 | 0.162 | 0.287 | 0.562 |
| Received measles and rubella 2 vaccination | 0.549 | 0.062 | 85 | 102 | 1.142 | 0.113 | 0.425 | 0.673 |
| Fully vaccinated according to national schedule (24-35 months) | 0.315 | 0.063 | 85 | 102 | 1.217 | 0.200 | 0.189 | 0.440 |
| Sought treatment for diarrhoea | 0.691 | 0.104 | 23 | 25 | 1.037 | 0.151 | 0.483 | 0.899 |
| Treated with ORS | 0.500 | 0.092 | 23 | 25 | 0.851 | 0.185 | 0.315 | 0.684 |
| Height-for-age (-3 SD) | 0.031 | 0.010 | 229 | 262 | 0.788 | 0.324 | 0.011 | 0.050 |
| Height-for-age (-2 SD) | 0.135 | 0.023 | 229 | 262 | 0.951 | 0.174 | 0.088 | 0.182 |
| Weight-for-height (-2 SD) | 0.053 | 0.013 | 230 | 264 | 0.870 | 0.239 | 0.028 | 0.078 |
| Weight-for-height (+2 SD) | 0.021 | 0.010 | 230 | 264 | 1.027 | 0.459 | 0.002 | 0.041 |
| Weight-for-age (-2 SD) | 0.099 | 0.021 | 230 | 264 | 1.018 | 0.212 | 0.057 | 0.141 |

Table B.5-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect <br> (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.376 | 0.082 | 34 | 42 | 0.971 | 0.218 | 0.212 | 0.540 |
| Minimum dietary diversity (children 6-23 months) | 0.447 | 0.053 | 134 | 157 | 1.226 | 0.118 | 0.341 | 0.553 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.461 | 0.040 | 212 | 241 | 1.168 | 0.086 | 0.382 | 0.541 |
| Body mass index (BMI) < 18.5 | 0.048 | 0.013 | 296 | 355 | 1.080 | 0.280 | 0.021 | 0.075 |
| Body mass index (BMI) $\geq 25.0$ | 0.530 | 0.033 | 296 | 355 | 1.121 | 0.061 | 0.465 | 0.595 |
| Body mass index-for-age (-2 SD) | 0.000 | 0.000 | 80 | 96 | na | na | 0.000 | 0.000 |
| Body mass index-for-age (+1 SD) | 0.146 | 0.049 | 80 | 96 | 1.224 | 0.334 | 0.049 | 0.244 |
| Minimum dietary diversity (women 15-49) | 0.608 | 0.028 | 797 | 955 | 1.638 | 0.047 | 0.551 | 0.665 |
| Prevalence of any anaemia (women 15-49) | 0.459 | 0.028 | 409 | 487 | 1.151 | 0.062 | 0.402 | 0.516 |
| Child slept under an ITN last night | 0.460 | 0.033 | 466 | 533 | 1.182 | 0.071 | 0.394 | 0.526 |
| Pregnant women slept under an ITN last night | 0.473 | 0.072 | 58 | 66 | 1.073 | 0.152 | 0.329 | 0.616 |
| Received 3+ doses of SP/Fansidar | 0.619 | 0.045 | 176 | 208 | 1.235 | 0.073 | 0.528 | 0.709 |
| Child had fever in last 2 weeks | 0.123 | 0.020 | 438 | 515 | 1.229 | 0.162 | 0.083 | 0.162 |
| Child had blood taken from finger/heel | 0.373 | 0.075 | 59 | 63 | 1.095 | 0.200 | 0.224 | 0.522 |
| Child took ACT | 0.867 | 0.072 | 22 | 25 | 0.971 | 0.083 | 0.723 | 1.010 |
| Child has malaria (based on rapid test) | 0.225 | 0.043 | 212 | 241 | 1.401 | 0.191 | 0.139 | 0.311 |
| Child has malaria (based on microscopy test) | 0.097 | 0.026 | 212 | 241 | 1.163 | 0.272 | 0.044 | 0.149 |
| Discriminatory attitudes towards people with HIV | 0.792 | 0.023 | 784 | 940 | 1.609 | 0.030 | 0.745 | 0.838 |
| Condom use at last sex | 0.091 | 0.022 | 208 | 244 | 1.081 | 0.238 | 0.048 | 0.134 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.164 | 0.012 | 797 | 955 | 0.951 | 0.076 | 0.139 | 0.189 |
| Mobile phone ownership | 0.820 | 0.020 | 797 | 955 | 1.473 | 0.024 | 0.780 | 0.860 |
| Have and use a bank account or mobile phone for financial transactions | 0.819 | 0.020 | 797 | 955 | 1.461 | 0.024 | 0.779 | 0.858 |
| Participate in decision making (all three decisions) | 0.689 | 0.038 | 408 | 487 | 1.634 | 0.055 | 0.614 | 0.764 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.126 | 0.014 | 797 | 955 | 1.213 | 0.114 | 0.097 | 0.154 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.690 | 0.032 | 408 | 487 | 1.405 | 0.047 | 0.626 | 0.754 |
| Experienced physical violence since age 15 by any perpetrator | 0.305 | 0.027 | 329 | 373 | 1.055 | 0.088 | 0.252 | 0.359 |
| Experienced sexual violence by any perpetrator ever | 0.114 | 0.020 | 329 | 373 | 1.135 | 0.175 | 0.074 | 0.153 |
| Experienced sexual violence by any non-intimate partner | 0.039 | 0.009 | 329 | 373 | 0.875 | 0.239 | 0.020 | 0.058 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.243 | 0.039 | 293 | 317 | 1.532 | 0.159 | 0.166 | 0.320 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.282 | 0.031 | 293 | 317 | 1.158 | 0.108 | 0.221 | 0.343 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.050 | 0.012 | 345 | 414 | 1.030 | 0.242 | 0.026 | 0.074 |
| Secondary education or higher | 0.835 | 0.024 | 345 | 414 | 1.212 | 0.029 | 0.786 | 0.883 |
| Literacy | 0.760 | 0.029 | 345 | 414 | 1.255 | 0.038 | 0.703 | 0.818 |
| Use of the internet in last 12 months | 0.664 | 0.034 | 345 | 414 | 1.320 | 0.051 | 0.596 | 0.731 |
| Current tobacco use | 0.024 | 0.011 | 345 | 414 | 1.364 | 0.470 | 0.001 | 0.046 |
| Want no more children | 0.355 | 0.032 | 160 | 190 | 0.855 | 0.091 | 0.290 | 0.419 |
| Discriminatory attitudes towards people with HIV | 0.769 | 0.029 | 342 | 411 | 1.285 | 0.038 | 0.710 | 0.827 |
| Condom use at last sex | 0.305 | 0.041 | 143 | 171 | 1.067 | 0.135 | 0.222 | 0.387 |
| Ever tested for HIV and received results of last test | 0.097 | 0.023 | 345 | 414 | 1.459 | 0.240 | 0.051 | 0.144 |
| Male circumcision | 0.986 | 0.006 | 345 | 414 | 0.948 | 0.006 | 0.973 | 0.998 |
| Mobile phone ownership | 0.903 | 0.019 | 345 | 414 | 1.178 | 0.021 | 0.866 | 0.941 |
| Have and use a bank account or mobile phone for financial transactions | 0.833 | 0.026 | 345 | 414 | 1.286 | 0.031 | 0.782 | 0.885 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.242 | 0.026 | 345 | 414 | 1.142 | 0.109 | 0.189 | 0.295 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 6 Sampling errors: Central sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.221 | 0.028 | 4,162 | 6,957 | 2.027 | 0.125 | 0.166 | 0.276 |
| Births registered with civil authority | 0.762 | 0.029 | 530 | 887 | 1.407 | 0.038 | 0.704 | 0.820 |
| Ownership of at least one ITN | 0.673 | 0.024 | 1,160 | 1,950 | 1.759 | 0.036 | 0.625 | 0.722 |
| Ownership of at least one ITN for every two persons | 0.490 | 0.027 | 1,148 | 1,929 | 1.821 | 0.055 | 0.436 | 0.544 |
| At least basic drinking water service | 0.850 | 0.038 | 4,162 | 6,957 | 2.948 | 0.045 | 0.773 | 0.927 |
| Water available when needed | 0.814 | 0.023 | 4,162 | 6,957 | 1.627 | 0.028 | 0.767 | 0.860 |
| At least basic sanitation service | 0.217 | 0.030 | 4,162 | 6,957 | 2.019 | 0.139 | 0.157 | 0.277 |
| Using open defecation | 0.127 | 0.043 | 4,162 | 6,957 | 3.575 | 0.338 | 0.041 | 0.213 |
| Using a handwashing facility with soap and water | 0.331 | 0.025 | 4,154 | 6,943 | 1.531 | 0.076 | 0.281 | 0.381 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.074 | 0.010 | 979 | 1,703 | 1.225 | 0.138 | 0.054 | 0.095 |
| Secondary education or higher | 0.766 | 0.022 | 979 | 1,703 | 1.603 | 0.028 | 0.722 | 0.809 |
| Literacy | 0.729 | 0.023 | 979 | 1,703 | 1.590 | 0.031 | 0.683 | 0.774 |
| Use of the internet in last 12 months | 0.467 | 0.033 | 979 | 1,703 | 2.064 | 0.071 | 0.401 | 0.533 |
| Current tobacco use | 0.008 | 0.003 | 979 | 1,703 | 1.015 | 0.352 | 0.002 | 0.014 |
| Total fertility rate (3 years) | 3.613 | 0.182 | 2,708 | 4,705 | 0.929 | 0.050 | 3.249 | 3.977 |
| Currently pregnant | 0.062 | 0.007 | 979 | 1,703 | 0.908 | 0.113 | 0.048 | 0.076 |
| Mean number of children ever born to women age 40-49 | 4.627 | 0.196 | 193 | 334 | 1.234 | 0.042 | 4.235 | 5.019 |
| Median birth interval | 40.887 | 2.209 | 376 | 646 | 1.095 | 0.054 | 36.468 | 45.306 |
| Ideal number of children | 4.046 | 0.069 | 971 | 1,690 | 1.359 | 0.017 | 3.908 | 4.184 |
| Total wanted fertility rate (3 years) | 2.810 | 0.164 | 2,708 | 4,705 | 0.956 | 0.058 | 2.482 | 3.139 |
| Currently using any contraceptive method | 0.508 | 0.020 | 469 | 816 | 0.881 | 0.040 | 0.467 | 0.549 |
| Currently using any modern method | 0.345 | 0.023 | 469 | 816 | 1.026 | 0.065 | 0.300 | 0.390 |
| Currently using pill | 0.038 | 0.010 | 469 | 816 | 1.185 | 0.276 | 0.017 | 0.059 |
| Currently using injectables | 0.097 | 0.017 | 469 | 816 | 1.226 | 0.173 | 0.064 | 0.131 |
| Currently using implants | 0.082 | 0.011 | 469 | 816 | 0.860 | 0.133 | 0.060 | 0.104 |
| Currently using male condoms | 0.015 | 0.006 | 469 | 816 | 1.128 | 0.429 | 0.002 | 0.027 |
| Currently using any traditional method | 0.163 | 0.016 | 469 | 816 | 0.937 | 0.098 | 0.131 | 0.194 |
| Unmet need for spacing | 0.117 | 0.017 | 469 | 816 | 1.157 | 0.147 | 0.082 | 0.151 |
| Unmet need for limiting | 0.096 | 0.012 | 469 | 816 | 0.876 | 0.124 | 0.073 | 0.120 |
| Unmet need total | 0.213 | 0.019 | 469 | 816 | 1.026 | 0.091 | 0.174 | 0.252 |
| Demand satisfied by modern methods | 0.479 | 0.028 | 338 | 588 | 1.019 | 0.058 | 0.424 | 0.534 |
| Demand satisfied by modern methods (all women) | 0.502 | 0.024 | 533 | 921 | 1.117 | 0.048 | 0.453 | 0.550 |
| Participation in decision making about family planning | 0.904 | 0.013 | 469 | 816 | 0.970 | 0.015 | 0.878 | 0.930 |
| Not exposed to any of the eight media sources | 0.190 | 0.016 | 979 | 1,703 | 1.314 | 0.087 | 0.157 | 0.223 |
| Neonatal mortality (last 0-9 years) | 14.109 | 3.666 | 981 | 1,676 | 0.988 | 0.260 | 6.777 | 21.442 |
| Postneonatal mortality (last 0-9 years) | 19.898 | 4.079 | 981 | 1,676 | 0.873 | 0.205 | 11.740 | 28.055 |
| Infant mortality (last 0-9 years) | 34.007 | 5.650 | 982 | 1,678 | 0.979 | 0.166 | 22.708 | 45.306 |
| Child mortality (last 0-9 years) | 12.575 | 3.855 | 997 | 1,713 | 1.078 | 0.307 | 4.865 | 20.285 |
| Under-5 mortality (last 0-9 years) | 46.155 | 6.665 | 986 | 1,686 | 0.985 | 0.144 | 32.825 | 59.485 |
| Perinatal mortality rate | 32.565 | 7.985 | 520 | 894 | 1.028 | 0.245 | 16.594 | 48.536 |
| Stillbirth rate | 20.156 | 7.953 | 520 | 894 | 1.286 | 0.395 | 4.250 | 36.063 |
| Early neonatal mortality rate | 12.664 | 4.431 | 510 | 876 | 0.893 | 0.350 | 3.802 | 21.525 |
| Received ANC from a skilled provider | 0.982 | 0.013 | 209 | 357 | 1.427 | 0.014 | 0.955 | 1.008 |
| 4+ ANC visits | 0.880 | 0.028 | 209 | 357 | 1.243 | 0.032 | 0.824 | 0.936 |
| 8+ ANC visits | 0.447 | 0.044 | 209 | 357 | 1.269 | 0.098 | 0.359 | 0.535 |
| Took any iron-containing supplements | 0.959 | 0.017 | 209 | 357 | 1.253 | 0.018 | 0.924 | 0.993 |
| Mothers protected against tetanus for last birth | 0.800 | 0.036 | 209 | 357 | 1.312 | 0.046 | 0.727 | 0.873 |
| Delivered in a health facility (live births) | 0.829 | 0.033 | 222 | 380 | 1.263 | 0.040 | 0.762 | 0.896 |
| Delivered by a skilled provider (live births) | 0.850 | 0.032 | 222 | 380 | 1.283 | 0.038 | 0.785 | 0.915 |
| Delivered by C-section (live births) | 0.189 | 0.028 | 222 | 380 | 0.954 | 0.147 | 0.134 | 0.245 |
| Women with postnatal check during first 2 days | 0.858 | 0.025 | 209 | 357 | 1.036 | 0.029 | 0.808 | 0.908 |
| Newborns with postnatal check during first 2 days | 0.892 | 0.022 | 209 | 357 | 1.038 | 0.025 | 0.848 | 0.937 |
| Any problem accessing health care | 0.569 | 0.031 | 979 | 1,703 | 1.955 | 0.055 | 0.507 | 0.631 |
| Ever had vaccination card | 1.000 | 0.000 | 111 | 193 | na | 0.000 | 1.000 | 1.000 |
| Received BCG vaccination | 0.991 | 0.009 | 111 | 193 | 1.001 | 0.009 | 0.974 | 1.009 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.934 | 0.022 | 111 | 193 | 0.923 | 0.023 | 0.891 | 0.978 |
| Received pneumococcal vaccination (3 doses) | 0.880 | 0.037 | 111 | 193 | 1.060 | 0.042 | 0.806 | 0.953 |
| Received measles and rubella 1 vaccination | 0.853 | 0.050 | 111 | 193 | 1.418 | 0.058 | 0.754 | 0.953 |
| Fully vaccinated according to national schedule (12-23 months) | 0.549 | 0.050 | 111 | 193 | 0.999 | 0.090 | 0.450 | 0.648 |
| Received measles and rubella 2 vaccination | 0.714 | 0.063 | 89 | 152 | 1.287 | 0.088 | 0.589 | 0.839 |
| Fully vaccinated according to national schedule (24-35 months) | 0.369 | 0.061 | 89 | 152 | 1.165 | 0.166 | 0.247 | 0.492 |
| Sought treatment for diarrhoea | 0.354 | 0.051 | 75 | 128 | 0.872 | 0.145 | 0.252 | 0.457 |
| Treated with ORS | 0.297 | 0.060 | 75 | 128 | 1.139 | 0.201 | 0.178 | 0.417 |
| Height-for-age (-3 SD) | 0.045 | 0.016 | 265 | 440 | 1.261 | 0.356 | 0.013 | 0.077 |
| Height-for-age (-2 SD) | 0.165 | 0.029 | 265 | 440 | 1.206 | 0.173 | 0.108 | 0.222 |
| Weight-for-height (-2 SD) | 0.068 | 0.016 | 265 | 440 | 0.998 | 0.236 | 0.036 | 0.100 |
| Weight-for-height (+2 SD) | 0.027 | 0.010 | 265 | 440 | 1.053 | 0.392 | 0.006 | 0.047 |
| Weight-for-age (-2 SD) | 0.120 | 0.024 | 265 | 440 | 1.142 | 0.197 | 0.073 | 0.167 |

Table B.6-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.405 | 0.081 | 46 | 79 | 1.106 | 0.200 | 0.243 | 0.568 |
| Minimum dietary diversity (children 6-23 months) | 0.461 | 0.043 | 155 | 268 | 1.076 | 0.094 | 0.374 | 0.547 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin $<11.0 \mathrm{~g} / \mathrm{dl}$ ) | 0.447 | 0.038 | 238 | 397 | 1.148 | 0.084 | 0.372 | 0.522 |
| Body mass index (BMI) <18.5 | 0.056 | 0.010 | 375 | 648 | 0.874 | 0.185 | 0.035 | 0.077 |
| Body mass index (BMI) $\geq 25.0$ | 0.564 | 0.030 | 375 | 648 | 1.164 | 0.053 | 0.504 | 0.624 |
| Body mass index-for-age (-2 SD) | 0.018 | 0.012 | 116 | 206 | 1.000 | 0.693 | 0.000 | 0.042 |
| Body mass index-for-age (+1 SD) | 0.129 | 0.030 | 116 | 206 | 0.969 | 0.235 | 0.068 | 0.189 |
| Minimum dietary diversity (women 15-49) | 0.557 | 0.020 | 979 | 1,703 | 1.231 | 0.035 | 0.518 | 0.596 |
| Prevalence of any anaemia (women 15-49) | 0.444 | 0.027 | 514 | 894 | 1.214 | 0.060 | 0.390 | 0.497 |
| Child slept under an ITN last night | 0.490 | 0.036 | 537 | 901 | 1.361 | 0.074 | 0.418 | 0.563 |
| Pregnant women slept under an ITN last night | 0.482 | 0.064 | 60 | 101 | 0.970 | 0.132 | 0.354 | 0.609 |
| Received 3+ doses of SP/Fansidar | 0.656 | 0.034 | 209 | 357 | 1.033 | 0.052 | 0.588 | 0.724 |
| Child had fever in last 2 weeks | 0.180 | 0.018 | 488 | 841 | 0.951 | 0.098 | 0.145 | 0.215 |
| Child had blood taken from finger/heel | 0.337 | 0.060 | 89 | 151 | 1.213 | 0.179 | 0.216 | 0.458 |
| Child took ACT | 0.887 | 0.052 | 34 | 54 | 0.918 | 0.059 | 0.783 | 0.991 |
| Child has malaria (based on rapid test) | 0.161 | 0.031 | 238 | 397 | 1.198 | 0.192 | 0.099 | 0.223 |
| Child has malaria (based on microscopy test) | 0.096 | 0.018 | 238 | 397 | 0.957 | 0.191 | 0.059 | 0.132 |
| Discriminatory attitudes towards people with HIV | 0.795 | 0.024 | 963 | 1,675 | 1.837 | 0.030 | 0.747 | 0.843 |
| Condom use at last sex | 0.114 | 0.017 | 280 | 482 | 0.892 | 0.149 | 0.080 | 0.147 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.160 | 0.012 | 979 | 1,703 | 1.051 | 0.077 | 0.135 | 0.185 |
| Mobile phone ownership | 0.804 | 0.017 | 979 | 1,703 | 1.302 | 0.021 | 0.771 | 0.837 |
| Have and use a bank account or mobile phone for financial transactions | 0.789 | 0.026 | 979 | 1,703 | 2.010 | 0.033 | 0.736 | 0.841 |
| Participate in decision making (all three decisions) | 0.569 | 0.029 | 469 | 816 | 1.278 | 0.051 | 0.510 | 0.627 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.193 | 0.015 | 979 | 1,703 | 1.222 | 0.080 | 0.163 | 0.224 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.594 | 0.025 | 469 | 816 | 1.086 | 0.041 | 0.545 | 0.643 |
| Experienced physical violence since age 15 by any perpetrator | 0.446 | 0.037 | 354 | 665 | 1.383 | 0.082 | 0.373 | 0.520 |
| Experienced sexual violence by any perpetrator ever | 0.196 | 0.027 | 354 | 665 | 1.290 | 0.139 | 0.141 | 0.251 |
| Experienced sexual violence by any non-intimate partner | 0.087 | 0.019 | 354 | 665 | 1.246 | 0.215 | 0.050 | 0.124 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.255 | 0.026 | 311 | 558 | 1.061 | 0.103 | 0.203 | 0.308 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.348 | 0.037 | 311 | 558 | 1.368 | 0.107 | 0.274 | 0.422 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.037 | 0.011 | 396 | 686 | 1.182 | 0.305 | 0.014 | 0.059 |
| Secondary education or higher | 0.847 | 0.030 | 396 | 686 | 1.660 | 0.036 | 0.787 | 0.907 |
| Literacy | 0.741 | 0.042 | 396 | 686 | 1.887 | 0.056 | 0.658 | 0.825 |
| Use of the internet in last 12 months | 0.579 | 0.035 | 396 | 686 | 1.423 | 0.061 | 0.509 | 0.650 |
| Current tobacco use | 0.030 | 0.008 | 396 | 686 | 0.963 | 0.276 | 0.013 | 0.046 |
| Want no more children | 0.307 | 0.045 | 147 | 256 | 1.179 | 0.147 | 0.217 | 0.397 |
| Discriminatory attitudes towards people with HIV | 0.733 | 0.036 | 378 | 657 | 1.596 | 0.050 | 0.660 | 0.806 |
| Condom use at last sex | 0.293 | 0.042 | 157 | 273 | 1.161 | 0.145 | 0.208 | 0.378 |
| Ever tested for HIV and received results of last test | 0.046 | 0.012 | 396 | 686 | 1.157 | 0.265 | 0.022 | 0.071 |
| Male circumcision | 0.983 | 0.012 | 396 | 686 | 1.815 | 0.012 | 0.959 | 1.007 |
| Mobile phone ownership | 0.890 | 0.017 | 396 | 686 | 1.056 | 0.019 | 0.856 | 0.923 |
| Have and use a bank account or mobile phone for financial transactions | 0.820 | 0.023 | 396 | 686 | 1.212 | 0.029 | 0.773 | 0.867 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.156 | 0.021 | 396 | 686 | 1.127 | 0.132 | 0.115 | 0.197 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 7 Sampling errors: Greater Accra sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.573 | 0.035 | 4,080 | 9,217 | 2.238 | 0.062 | 0.502 | 0.643 |
| Births registered with civil authority | 0.723 | 0.027 | 473 | 1,063 | 1.173 | 0.038 | 0.668 | 0.778 |
| Ownership of at least one ITN | 0.488 | 0.022 | 1,387 | 3,183 | 1.611 | 0.044 | 0.444 | 0.531 |
| Ownership of at least one ITN for every two persons | 0.341 | 0.020 | 1,379 | 3,168 | 1.563 | 0.059 | 0.301 | 0.381 |
| At least basic drinking water service | 0.977 | 0.014 | 4,080 | 9,217 | 2.776 | 0.015 | 0.949 | 1.005 |
| Water available when needed | 0.820 | 0.028 | 4,080 | 9,217 | 2.239 | 0.034 | 0.764 | 0.875 |
| At least basic sanitation service | 0.400 | 0.045 | 4,080 | 9,217 | 2.875 | 0.112 | 0.311 | 0.490 |
| Using open defecation | 0.049 | 0.016 | 4,080 | 9,217 | 2.290 | 0.330 | 0.017 | 0.081 |
| Using a handwashing facility with soap and water | 0.685 | 0.037 | 4,063 | 9,180 | 2.515 | 0.054 | 0.611 | 0.760 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.044 | 0.008 | 969 | 2,327 | 1.186 | 0.177 | 0.029 | 0.060 |
| Secondary education or higher | 0.846 | 0.017 | 969 | 2,327 | 1.436 | 0.020 | 0.812 | 0.879 |
| Literacy | 0.792 | 0.018 | 969 | 2,327 | 1.357 | 0.022 | 0.756 | 0.827 |
| Use of the internet in last 12 months | 0.678 | 0.027 | 969 | 2,327 | 1.784 | 0.040 | 0.624 | 0.732 |
| Current tobacco use | 0.006 | 0.003 | 969 | 2,327 | 1.119 | 0.478 | 0.000 | 0.011 |
| Total fertility rate (3 years) | 2.946 | 0.202 | 2,744 | 6,593 | 1.131 | 0.069 | 2.542 | 3.351 |
| Currently pregnant | 0.062 | 0.009 | 969 | 2,327 | 1.211 | 0.152 | 0.043 | 0.080 |
| Mean number of children ever born to women age 40-49 | 3.461 | 0.195 | 197 | 461 | 1.311 | 0.056 | 3.072 | 3.850 |
| Median birth interval | 42.335 | 2.344 | 319 | 745 | 1.203 | 0.055 | 37.647 | 47.023 |
| Ideal number of children | 3.770 | 0.064 | 962 | 2,306 | 1.376 | 0.017 | 3.642 | 3.897 |
| Total wanted fertility rate (3 years) | 2.559 | 0.178 | 2,744 | 6,593 | 1.141 | 0.070 | 2.203 | 2.915 |
| Currently using any contraceptive method | 0.320 | 0.029 | 491 | 1,144 | 1.363 | 0.090 | 0.263 | 0.378 |
| Currently using any modern method | 0.238 | 0.023 | 491 | 1,144 | 1.219 | 0.099 | 0.191 | 0.285 |
| Currently using pill | 0.024 | 0.007 | 491 | 1,144 | 0.987 | 0.287 | 0.010 | 0.037 |
| Currently using injectables | 0.045 | 0.012 | 491 | 1,144 | 1.249 | 0.261 | 0.021 | 0.068 |
| Currently using implants | 0.050 | 0.012 | 491 | 1,144 | 1.201 | 0.235 | 0.027 | 0.074 |
| Currently using male condoms | 0.020 | 0.006 | 491 | 1,144 | 1.005 | 0.314 | 0.008 | 0.033 |
| Currently using any traditional method | 0.083 | 0.015 | 491 | 1,144 | 1.181 | 0.178 | 0.053 | 0.112 |
| Unmet need for spacing | 0.129 | 0.019 | 491 | 1,144 | 1.258 | 0.147 | 0.091 | 0.168 |
| Unmet need for limiting | 0.131 | 0.016 | 491 | 1,144 | 1.040 | 0.121 | 0.099 | 0.163 |
| Unmet need total | 0.260 | 0.018 | 491 | 1,144 | 0.891 | 0.068 | 0.225 | 0.296 |
| Demand satisfied by modern methods | 0.410 | 0.032 | 288 | 664 | 1.096 | 0.078 | 0.346 | 0.474 |
| Demand satisfied by modern methods (all women) | 0.468 | 0.025 | 403 | 945 | 1.005 | 0.054 | 0.417 | 0.518 |
| Participation in decision making about family planning | 0.910 | 0.014 | 491 | 1,144 | 1.062 | 0.015 | 0.883 | 0.938 |
| Not exposed to any of the eight media sources | 0.193 | 0.015 | 969 | 2,327 | 1.177 | 0.077 | 0.163 | 0.223 |
| Neonatal mortality (last 0-9 years) | 9.554 | 4.341 | 892 | 2,104 | 1.303 | 0.454 | 0.871 | 18.237 |
| Postneonatal mortality (last 0-9 years) | 6.473 | 2.825 | 886 | 2,089 | 1.028 | 0.436 | 0.822 | 12.124 |
| Infant mortality (last 0-9 years) | 16.027 | 4.749 | 892 | 2,104 | 1.116 | 0.296 | 6.530 | 25.524 |
| Child mortality (last 0-9 years) | 3.615 | 2.230 | 888 | 2,096 | 1.083 | 0.617 | 0.000 | 8.074 |
| Under-5 mortality (last 0-9 years) | 19.584 | 5.073 | 892 | 2,104 | 1.079 | 0.259 | 9.437 | 29.730 |
| Perinatal mortality rate | 24.838 | 7.201 | 463 | 1,100 | 1.007 | 0.290 | 10.437 | 39.239 |
| Stillbirth rate | 18.161 | 6.784 | 463 | 1,100 | 1.104 | 0.374 | 4.593 | 31.729 |
| Early neonatal mortality rate | 6.801 | 3.604 | 455 | 1,080 | 0.931 | 0.530 | 0.000 | 14.009 |
| Received ANC from a skilled provider | 0.957 | 0.017 | 174 | 410 | 1.089 | 0.018 | 0.924 | 0.991 |
| 4+ ANC visits | 0.901 | 0.026 | 174 | 410 | 1.162 | 0.029 | 0.848 | 0.954 |
| 8+ ANC visits | 0.493 | 0.042 | 174 | 410 | 1.111 | 0.086 | 0.409 | 0.577 |
| Took any iron-containing supplements | 0.964 | 0.015 | 174 | 410 | 1.056 | 0.016 | 0.934 | 0.994 |
| Mothers protected against tetanus for last birth | 0.784 | 0.038 | 174 | 410 | 1.204 | 0.048 | 0.708 | 0.859 |
| Delivered in a health facility (live births) | 0.923 | 0.023 | 183 | 427 | 1.134 | 0.024 | 0.877 | 0.968 |
| Delivered by a skilled provider (live births) | 0.940 | 0.021 | 183 | 427 | 1.178 | 0.022 | 0.898 | 0.982 |
| Delivered by C-section (live births) | 0.342 | 0.048 | 183 | 427 | 1.304 | 0.140 | 0.246 | 0.437 |
| Women with postnatal check during first 2 days | 0.954 | 0.018 | 174 | 410 | 1.137 | 0.019 | 0.918 | 0.990 |
| Newborns with postnatal check during first 2 days | 0.932 | 0.023 | 174 | 410 | 1.178 | 0.024 | 0.887 | 0.977 |
| Any problem accessing health care | 0.427 | 0.030 | 969 | 2,327 | 1.879 | 0.070 | 0.367 | 0.487 |
| Ever had vaccination card | 1.000 | 0.000 | 89 | 207 | na | 0.000 | 1.000 | 1.000 |
| Received BCG vaccination | 0.988 | 0.012 | 89 | 207 | 1.040 | 0.012 | 0.964 | 1.012 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.940 | 0.023 | 89 | 207 | 0.889 | 0.024 | 0.895 | 0.985 |
| Received pneumococcal vaccination (3 doses) | 0.932 | 0.026 | 89 | 207 | 0.972 | 0.028 | 0.879 | 0.984 |
| Received measles and rubella 1 vaccination | 0.947 | 0.019 | 89 | 207 | 0.800 | 0.020 | 0.908 | 0.985 |
| Fully vaccinated according to national schedule (12-23 months) | 0.720 | 0.050 | 89 | 207 | 1.028 | 0.069 | 0.620 | 0.819 |
| Received measles and rubella 2 vaccination | 0.855 | 0.040 | 88 | 210 | 1.074 | 0.047 | 0.774 | 0.935 |
| Fully vaccinated according to national schedule (24-35 months) | 0.596 | 0.057 | 88 | 210 | 1.099 | 0.096 | 0.481 | 0.710 |
| Sought treatment for diarrhoea | 0.156 | 0.070 | 30 | 74 | 1.076 | 0.448 | 0.016 | 0.295 |
| Treated with ORS | 0.167 | 0.076 | 30 | 74 | 1.141 | 0.456 | 0.015 | 0.319 |
| Height-for-age (-3 SD) | 0.016 | 0.009 | 234 | 528 | 1.053 | 0.551 | 0.000 | 0.033 |
| Height-for-age (-2 SD) | 0.114 | 0.023 | 234 | 528 | 1.040 | 0.203 | 0.068 | 0.160 |
| Weight-for-height (-2 SD) | 0.047 | 0.021 | 233 | 525 | 1.454 | 0.454 | 0.004 | 0.089 |
| Weight-for-height (+2 SD) | 0.018 | 0.008 | 233 | 525 | 0.965 | 0.478 | 0.001 | 0.035 |
| Weight-for-age (-2 SD) | 0.085 | 0.025 | 235 | 530 | 1.241 | 0.295 | 0.035 | 0.134 |

Table B.7-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.429 | 0.080 | 49 | 110 | 1.115 | 0.186 | 0.269 | 0.588 |
| Minimum dietary diversity (children 6-23 months) | 0.447 | 0.069 | 120 | 289 | 1.501 | 0.154 | 0.310 | 0.585 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.362 | 0.040 | 202 | 462 | 1.151 | 0.111 | 0.282 | 0.443 |
| Body mass index (BMI) <18.5 | 0.026 | 0.008 | 390 | 970 | 0.950 | 0.293 | 0.011 | 0.042 |
| Body mass index (BMI) $\geq 25.0$ | 0.613 | 0.033 | 390 | 970 | 1.324 | 0.053 | 0.548 | 0.679 |
| Body mass index-for-age (-2 SD) | 0.010 | 0.008 | 84 | 193 | 0.728 | 0.777 | 0.000 | 0.027 |
| Body mass index-for-age (+1 SD) | 0.232 | 0.047 | 84 | 193 | 1.013 | 0.203 | 0.138 | 0.326 |
| Minimum dietary diversity (women 15-49) | 0.526 | 0.019 | 969 | 2,327 | 1.213 | 0.037 | 0.487 | 0.565 |
| Prevalence of any anaemia (women 15-49) | 0.388 | 0.022 | 508 | 1,246 | 1.017 | 0.057 | 0.344 | 0.432 |
| Child slept under an ITN last night | 0.306 | 0.036 | 475 | 1,068 | 1.451 | 0.119 | 0.234 | 0.379 |
| Pregnant women slept under an ITN last night | 0.235 | 0.051 | 60 | 136 | 0.934 | 0.219 | 0.132 | 0.337 |
| Received 3+ doses of SP/Fansidar | 0.648 | 0.042 | 174 | 410 | 1.156 | 0.065 | 0.564 | 0.732 |
| Child had fever in last 2 weeks | 0.087 | 0.019 | 445 | 1,057 | 1.337 | 0.217 | 0.049 | 0.125 |
| Child had blood taken from finger/heel | 0.120 | 0.043 | 42 | 92 | 0.861 | 0.362 | 0.033 | 0.207 |
| Child took ACT | 1.000 | 0.000 | 9 | 21 | na | 0.000 | 1.000 | 1.000 |
| Child has malaria (based on rapid test) | 0.034 | 0.014 | 202 | 462 | 1.073 | 0.402 | 0.007 | 0.062 |
| Child has malaria (based on microscopy test) | 0.020 | 0.012 | 202 | 462 | 1.196 | 0.588 | 0.000 | 0.044 |
| Discriminatory attitudes towards people with HIV | 0.705 | 0.022 | 962 | 2,308 | 1.478 | 0.031 | 0.662 | 0.749 |
| Condom use at last sex | 0.097 | 0.017 | 221 | 559 | 0.843 | 0.173 | 0.064 | 0.131 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.168 | 0.014 | 969 | 2,327 | 1.147 | 0.082 | 0.140 | 0.195 |
| Mobile phone ownership | 0.898 | 0.011 | 969 | 2,327 | 1.153 | 0.012 | 0.876 | 0.920 |
| Have and use a bank account or mobile phone for financial transactions | 0.872 | 0.013 | 969 | 2,327 | 1.173 | 0.014 | 0.847 | 0.897 |
| Participate in decision making (all three decisions) | 0.689 | 0.025 | 491 | 1,144 | 1.182 | 0.036 | 0.640 | 0.739 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.058 | 0.009 | 969 | 2,327 | 1.179 | 0.153 | 0.040 | 0.075 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.690 | 0.031 | 491 | 1,144 | 1.503 | 0.046 | 0.627 | 0.753 |
| Experienced physical violence since age 15 by any perpetrator | 0.293 | 0.032 | 418 | 937 | 1.432 | 0.109 | 0.229 | 0.357 |
| Experienced sexual violence by any perpetrator ever | 0.144 | 0.020 | 418 | 937 | 1.175 | 0.140 | 0.104 | 0.185 |
| Experienced sexual violence by any non-intimate partner | 0.084 | 0.014 | 418 | 937 | 1.018 | 0.165 | 0.056 | 0.112 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.150 | 0.017 | 366 | 784 | 0.903 | 0.112 | 0.116 | 0.184 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.240 | 0.021 | 366 | 784 | 0.924 | 0.086 | 0.199 | 0.282 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.018 | 0.006 | 438 | 1,076 | 0.947 | 0.334 | 0.006 | 0.030 |
| Secondary education or higher | 0.910 | 0.019 | 438 | 1,076 | 1.372 | 0.021 | 0.872 | 0.948 |
| Literacy | 0.939 | 0.011 | 438 | 1,076 | 0.999 | 0.012 | 0.916 | 0.962 |
| Use of the internet in last 12 months | 0.821 | 0.022 | 438 | 1,076 | 1.212 | 0.027 | 0.777 | 0.865 |
| Current tobacco use | 0.057 | 0.016 | 438 | 1,076 | 1.464 | 0.285 | 0.025 | 0.090 |
| Want no more children | 0.342 | 0.037 | 205 | 509 | 1.113 | 0.108 | 0.268 | 0.416 |
| Discriminatory attitudes towards people with HIV | 0.697 | 0.033 | 435 | 1,071 | 1.515 | 0.048 | 0.630 | 0.764 |
| Condom use at last sex | 0.399 | 0.049 | 162 | 414 | 1.260 | 0.122 | 0.302 | 0.497 |
| Ever tested for HIV and received results of last test | 0.091 | 0.015 | 438 | 1,076 | 1.112 | 0.168 | 0.060 | 0.122 |
| Male circumcision | 0.986 | 0.006 | 438 | 1,076 | 1.066 | 0.006 | 0.974 | 0.998 |
| Mobile phone ownership | 0.928 | 0.013 | 438 | 1,076 | 1.026 | 0.014 | 0.902 | 0.953 |
| Have and use a bank account or mobile phone for financial transactions | 0.895 | 0.017 | 438 | 1,076 | 1.142 | 0.019 | 0.861 | 0.928 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.035 | 0.012 | 438 | 1,076 | 1.363 | 0.341 | 0.011 | 0.059 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 8 Sampling errors: Volta sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.230 | 0.031 | 3,536 | 2,902 | 2.168 | 0.133 | 0.169 | 0.292 |
| Births registered with civil authority | 0.709 | 0.027 | 395 | 320 | 1.051 | 0.038 | 0.654 | 0.763 |
| Ownership of at least one ITN | 0.818 | 0.016 | 1,082 | 888 | 1.399 | 0.020 | 0.785 | 0.850 |
| Ownership of at least one ITN for every two persons | 0.646 | 0.020 | 1,079 | 885 | 1.372 | 0.031 | 0.606 | 0.686 |
| At least basic drinking water service | 0.848 | 0.038 | 3,536 | 2,902 | 2.789 | 0.045 | 0.772 | 0.924 |
| Water available when needed | 0.770 | 0.028 | 3,536 | 2,902 | 1.812 | 0.036 | 0.715 | 0.826 |
| At least basic sanitation service | 0.281 | 0.040 | 3,536 | 2,902 | 2.412 | 0.142 | 0.202 | 0.361 |
| Using open defecation | 0.217 | 0.040 | 3,536 | 2,902 | 2.567 | 0.183 | 0.138 | 0.297 |
| Using a handwashing facility with soap and water | 0.546 | 0.054 | 3,536 | 2,902 | 2.954 | 0.098 | 0.439 | 0.653 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.067 | 0.011 | 837 | 713 | 1.285 | 0.166 | 0.045 | 0.089 |
| Secondary education or higher | 0.764 | 0.027 | 837 | 713 | 1.821 | 0.035 | 0.710 | 0.817 |
| Literacy | 0.720 | 0.029 | 837 | 713 | 1.850 | 0.040 | 0.663 | 0.778 |
| Use of the internet in last 12 months | 0.364 | 0.032 | 837 | 713 | 1.893 | 0.087 | 0.301 | 0.427 |
| Current tobacco use | 0.004 | 0.002 | 837 | 713 | 0.904 | 0.474 | 0.000 | 0.008 |
| Total fertility rate (3 years) | 3.180 | 0.182 | 2,314 | 1,967 | 0.975 | 0.057 | 2.816 | 3.543 |
| Currently pregnant | 0.062 | 0.008 | 837 | 713 | 0.908 | 0.122 | 0.047 | 0.077 |
| Mean number of children ever born to women age 40-49 | 4.149 | 0.153 | 178 | 151 | 1.026 | 0.037 | 3.843 | 4.455 |
| Median birth interval | 43.393 | 2.785 | 286 | 233 | 1.309 | 0.064 | 37.824 | 48.963 |
| Ideal number of children | 3.786 | 0.073 | 827 | 705 | 1.307 | 0.019 | 3.640 | 3.933 |
| Total wanted fertility rate (3 years) | 2.676 | 0.163 | 2,314 | 1,967 | 0.922 | 0.061 | 2.350 | 3.002 |
| Currently using any contraceptive method | 0.356 | 0.020 | 446 | 375 | 0.899 | 0.057 | 0.315 | 0.397 |
| Currently using any modern method | 0.293 | 0.025 | 446 | 375 | 1.158 | 0.085 | 0.243 | 0.343 |
| Currently using pill | 0.033 | 0.010 | 446 | 375 | 1.180 | 0.303 | 0.013 | 0.053 |
| Currently using injectables | 0.080 | 0.015 | 446 | 375 | 1.190 | 0.191 | 0.049 | 0.110 |
| Currently using implants | 0.110 | 0.018 | 446 | 375 | 1.188 | 0.160 | 0.075 | 0.145 |
| Currently using male condoms | 0.019 | 0.007 | 446 | 375 | 1.036 | 0.352 | 0.006 | 0.033 |
| Currently using any traditional method | 0.063 | 0.013 | 446 | 375 | 1.102 | 0.202 | 0.038 | 0.088 |
| Unmet need for spacing | 0.167 | 0.016 | 446 | 375 | 0.901 | 0.095 | 0.135 | 0.199 |
| Unmet need for limiting | 0.114 | 0.019 | 446 | 375 | 1.250 | 0.165 | 0.076 | 0.152 |
| Unmet need total | 0.281 | 0.021 | 446 | 375 | 0.986 | 0.075 | 0.239 | 0.323 |
| Demand satisfied by modern methods | 0.460 | 0.036 | 285 | 239 | 1.207 | 0.078 | 0.388 | 0.531 |
| Demand satisfied by modern methods (all women) | 0.499 | 0.030 | 403 | 339 | 1.201 | 0.060 | 0.438 | 0.559 |
| Participation in decision making about family planning | 0.827 | 0.020 | 446 | 375 | 1.102 | 0.024 | 0.788 | 0.867 |
| Not exposed to any of the eight media sources | 0.330 | 0.034 | 837 | 713 | 2.088 | 0.103 | 0.262 | 0.398 |
| Neonatal mortality (last 0-9 years) | 29.205 | 7.143 | 794 | 666 | 1.132 | 0.245 | 14.919 | 43.491 |
| Postneonatal mortality (last 0-9 years) | 8.708 | 3.720 | 794 | 664 | 0.938 | 0.427 | 1.269 | 16.148 |
| Infant mortality (last 0-9 years) | 37.913 | 7.861 | 794 | 666 | 1.091 | 0.207 | 22.191 | 53.636 |
| Child mortality (last 0-9 years) | 9.839 | 3.294 | 802 | 673 | 0.878 | 0.335 | 3.252 | 16.427 |
| Under-5 mortality (last 0-9 years) | 47.380 | 7.766 | 794 | 666 | 0.968 | 0.164 | 31.847 | 62.912 |
| Perinatal mortality rate | 26.681 | 7.013 | 390 | 324 | 0.852 | 0.263 | 12.656 | 40.707 |
| Stillbirth rate | 21.158 | 6.747 | 390 | 324 | 0.915 | 0.319 | 7.665 | 34.652 |
| Early neonatal mortality rate | 5.642 | 4.051 | 383 | 317 | 1.046 | 0.718 | 0.000 | 13.745 |
| Received ANC from a skilled provider | 0.992 | 0.008 | 155 | 130 | 1.096 | 0.008 | 0.977 | 1.008 |
| 4+ ANC visits | 0.940 | 0.020 | 155 | 130 | 1.059 | 0.022 | 0.899 | 0.980 |
| 8+ ANC visits | 0.453 | 0.045 | 155 | 130 | 1.121 | 0.099 | 0.363 | 0.543 |
| Took any iron-containing supplements | 0.973 | 0.013 | 155 | 130 | 0.959 | 0.013 | 0.948 | 0.998 |
| Mothers protected against tetanus for last birth | 0.833 | 0.040 | 155 | 130 | 1.341 | 0.048 | 0.752 | 0.914 |
| Delivered in a health facility (live births) | 0.909 | 0.027 | 160 | 135 | 1.178 | 0.030 | 0.855 | 0.963 |
| Delivered by a skilled provider (live births) | 0.935 | 0.020 | 160 | 135 | 1.042 | 0.022 | 0.894 | 0.976 |
| Delivered by C-section (live births) | 0.284 | 0.033 | 160 | 135 | 0.898 | 0.116 | 0.218 | 0.349 |
| Women with postnatal check during first 2 days | 0.895 | 0.028 | 155 | 130 | 1.117 | 0.031 | 0.839 | 0.950 |
| Newborns with postnatal check during first 2 days | 0.885 | 0.029 | 155 | 130 | 1.142 | 0.033 | 0.826 | 0.944 |
| Any problem accessing health care | 0.466 | 0.022 | 837 | 713 | 1.293 | 0.048 | 0.421 | 0.510 |
| Ever had vaccination card | 0.970 | 0.020 | 89 | 75 | 1.085 | 0.020 | 0.930 | 1.009 |
| Received BCG vaccination | 0.991 | 0.009 | 89 | 75 | 0.901 | 0.009 | 0.973 | 1.009 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.876 | 0.030 | 89 | 75 | 0.817 | 0.035 | 0.815 | 0.936 |
| Received pneumococcal vaccination (3 doses) | 0.899 | 0.032 | 89 | 75 | 0.924 | 0.035 | 0.835 | 0.962 |
| Received measles and rubella 1 vaccination | 0.907 | 0.036 | 89 | 75 | 1.090 | 0.040 | 0.835 | 0.980 |
| Fully vaccinated according to national schedule (12-23 months) | 0.706 | 0.060 | 89 | 75 | 1.225 | 0.086 | 0.585 | 0.827 |
| Received measles and rubella 2 vaccination | 0.886 | 0.040 | 72 | 60 | 1.042 | 0.045 | 0.807 | 0.965 |
| Fully vaccinated according to national schedule (24-35 months) | 0.733 | 0.067 | 72 | 60 | 1.265 | 0.092 | 0.599 | 0.867 |
| Sought treatment for diarrhoea | 0.746 | 0.093 | 35 | 29 | 1.180 | 0.125 | 0.560 | 0.932 |
| Treated with ORS | 0.522 | 0.088 | 35 | 29 | 0.926 | 0.168 | 0.347 | 0.698 |
| Height-for-age (-3 SD) | 0.018 | 0.008 | 206 | 165 | 0.908 | 0.465 | 0.001 | 0.035 |
| Height-for-age (-2 SD) | 0.144 | 0.024 | 206 | 165 | 0.916 | 0.169 | 0.096 | 0.193 |
| Weight-for-height (-2 SD) | 0.074 | 0.020 | 206 | 165 | 1.079 | 0.267 | 0.034 | 0.113 |
| Weight-for-height (+2 SD) | 0.025 | 0.011 | 206 | 165 | 0.984 | 0.434 | 0.003 | 0.046 |
| Weight-for-age (-2 SD) | 0.131 | 0.022 | 206 | 165 | 0.888 | 0.165 | 0.088 | 0.175 |

Table B.8-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.780 | 0.073 | 28 | 23 | 0.919 | 0.094 | 0.633 | 0.926 |
| Minimum dietary diversity (children 6-23 months) | 0.401 | 0.044 | 127 | 107 | 0.997 | 0.108 | 0.314 | 0.488 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin $<11.0 \mathrm{~g} / \mathrm{dl}$ ) | 0.513 | 0.044 | 192 | 154 | 1.181 | 0.086 | 0.424 | 0.601 |
| Body mass index (BMI) <18.5 | 0.049 | 0.015 | 291 | 245 | 1.180 | 0.307 | 0.019 | 0.079 |
| Body mass index (BMI) $\geq 25.0$ | 0.508 | 0.037 | 291 | 245 | 1.244 | 0.072 | 0.435 | 0.582 |
| Body mass index-for-age (-2 SD) | 0.000 | 0.000 | 77 | 66 | na | na | 0.000 | 0.000 |
| Body mass index-for-age (+1 SD) | 0.080 | 0.035 | 77 | 66 | 1.114 | 0.435 | 0.010 | 0.149 |
| Minimum dietary diversity (women 15-49) | 0.461 | 0.027 | 837 | 713 | 1.554 | 0.058 | 0.408 | 0.515 |
| Prevalence of any anaemia (women 15-49) | 0.430 | 0.028 | 398 | 337 | 1.135 | 0.066 | 0.374 | 0.487 |
| Child slept under an ITN last night | 0.578 | 0.039 | 402 | 325 | 1.353 | 0.068 | 0.500 | 0.656 |
| Pregnant women slept under an ITN last night | 0.567 | 0.076 | 55 | 43 | 1.109 | 0.134 | 0.415 | 0.719 |
| Received 3+ doses of SP/Fansidar | 0.707 | 0.040 | 155 | 130 | 1.089 | 0.057 | 0.627 | 0.787 |
| Child had fever in last 2 weeks | 0.146 | 0.022 | 378 | 313 | 1.159 | 0.154 | 0.101 | 0.191 |
| Child had blood taken from finger/heel | 0.546 | 0.075 | 57 | 46 | 1.091 | 0.138 | 0.395 | 0.697 |
| Child took ACT | 0.759 | 0.080 | 30 | 25 | 1.011 | 0.106 | 0.599 | 0.920 |
| Child has malaria (based on rapid test) | 0.115 | 0.032 | 192 | 154 | 1.281 | 0.281 | 0.050 | 0.179 |
| Child has malaria (based on microscopy test) | 0.064 | 0.029 | 192 | 154 | 1.500 | 0.454 | 0.006 | 0.121 |
| Discriminatory attitudes towards people with HIV | 0.769 | 0.021 | 830 | 707 | 1.412 | 0.027 | 0.728 | 0.810 |
| Condom use at last sex | 0.175 | 0.031 | 187 | 160 | 1.106 | 0.176 | 0.113 | 0.236 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.151 | 0.018 | 837 | 713 | 1.415 | 0.116 | 0.115 | 0.186 |
| Mobile phone ownership | 0.757 | 0.016 | 837 | 713 | 1.099 | 0.022 | 0.724 | 0.789 |
| Have and use a bank account or mobile phone for financial transactions | 0.736 | 0.019 | 837 | 713 | 1.226 | 0.025 | 0.699 | 0.774 |
| Participate in decision making (all three decisions) | 0.568 | 0.031 | 446 | 375 | 1.303 | 0.054 | 0.507 | 0.629 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.127 | 0.021 | 837 | 713 | 1.819 | 0.165 | 0.085 | 0.169 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.545 | 0.030 | 446 | 375 | 1.282 | 0.056 | 0.484 | 0.605 |
| Experienced physical violence since age 15 by any perpetrator | 0.402 | 0.037 | 319 | 252 | 1.357 | 0.093 | 0.327 | 0.477 |
| Experienced sexual violence by any perpetrator ever | 0.223 | 0.025 | 319 | 252 | 1.065 | 0.111 | 0.173 | 0.273 |
| Experienced sexual violence by any non-intimate partner | 0.105 | 0.019 | 319 | 252 | 1.081 | 0.177 | 0.068 | 0.143 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.250 | 0.031 | 288 | 225 | 1.224 | 0.125 | 0.188 | 0.313 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.363 | 0.033 | 288 | 225 | 1.166 | 0.091 | 0.296 | 0.429 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.035 | 0.010 | 285 | 235 | 0.951 | 0.295 | 0.015 | 0.056 |
| Secondary education or higher | 0.846 | 0.024 | 285 | 235 | 1.129 | 0.029 | 0.797 | 0.894 |
| Literacy | 0.868 | 0.025 | 285 | 235 | 1.223 | 0.028 | 0.819 | 0.917 |
| Use of the internet in last 12 months | 0.663 | 0.033 | 285 | 235 | 1.173 | 0.050 | 0.597 | 0.729 |
| Current tobacco use | 0.024 | 0.009 | 285 | 235 | 0.952 | 0.363 | 0.006 | 0.041 |
| Want no more children | 0.370 | 0.038 | 135 | 113 | 0.921 | 0.104 | 0.293 | 0.447 |
| Discriminatory attitudes towards people with HIV | 0.619 | 0.040 | 284 | 234 | 1.371 | 0.064 | 0.540 | 0.698 |
| Condom use at last sex | 0.380 | 0.053 | 118 | 98 | 1.188 | 0.140 | 0.273 | 0.487 |
| Ever tested for HIV and received results of last test | 0.094 | 0.020 | 285 | 235 | 1.152 | 0.213 | 0.054 | 0.133 |
| Male circumcision | 1.000 | 0.000 | 285 | 235 | na | 0.000 | 1.000 | 1.000 |
| Mobile phone ownership | 0.864 | 0.022 | 285 | 235 | 1.059 | 0.025 | 0.821 | 0.907 |
| Have and use a bank account or mobile phone for financial transactions | 0.807 | 0.029 | 285 | 235 | 1.246 | 0.036 | 0.749 | 0.866 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.060 | 0.013 | 285 | 235 | 0.954 | 0.224 | 0.033 | 0.087 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 9 Sampling errors: Eastern sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.226 | 0.026 | 3,750 | 5,234 | 1.935 | 0.114 | 0.174 | 0.277 |
| Births registered with civil authority | 0.656 | 0.039 | 439 | 616 | 1.556 | 0.059 | 0.579 | 0.733 |
| Ownership of at least one ITN | 0.702 | 0.020 | 1,216 | 1,701 | 1.545 | 0.029 | 0.661 | 0.743 |
| Ownership of at least one ITN for every two persons | 0.533 | 0.023 | 1,214 | 1,698 | 1.575 | 0.042 | 0.488 | 0.578 |
| At least basic drinking water service | 0.855 | 0.035 | 3,750 | 5,234 | 2.865 | 0.041 | 0.785 | 0.926 |
| Water available when needed | 0.816 | 0.022 | 3,750 | 5,234 | 1.633 | 0.027 | 0.773 | 0.860 |
| At least basic sanitation service | 0.251 | 0.025 | 3,750 | 5,234 | 1.676 | 0.101 | 0.200 | 0.302 |
| Using open defecation | 0.057 | 0.026 | 3,750 | 5,234 | 3.333 | 0.449 | 0.006 | 0.108 |
| Using a handwashing facility with soap and water | 0.538 | 0.033 | 3,641 | 5,066 | 1.924 | 0.062 | 0.472 | 0.605 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.078 | 0.011 | 854 | 1,220 | 1.199 | 0.141 | 0.056 | 0.100 |
| Secondary education or higher | 0.755 | 0.018 | 854 | 1,220 | 1.193 | 0.023 | 0.720 | 0.791 |
| Literacy | 0.667 | 0.022 | 854 | 1,220 | 1.335 | 0.032 | 0.623 | 0.710 |
| Use of the internet in last 12 months | 0.400 | 0.027 | 854 | 1,220 | 1.598 | 0.067 | 0.347 | 0.454 |
| Current tobacco use | 0.004 | 0.003 | 854 | 1,220 | 1.158 | 0.604 | 0.000 | 0.009 |
| Total fertility rate (3 years) | 3.507 | 0.234 | 2,403 | 3,427 | 1.114 | 0.067 | 3.038 | 3.976 |
| Currently pregnant | 0.077 | 0.008 | 854 | 1,220 | 0.916 | 0.109 | 0.060 | 0.094 |
| Mean number of children ever born to women age 40-49 | 4.162 | 0.156 | 203 | 287 | 1.027 | 0.037 | 3.850 | 4.473 |
| Median birth interval | 42.105 | 1.486 | 313 | 456 | 1.307 | 0.035 | 39.132 | 45.077 |
| Ideal number of children | 4.121 | 0.068 | 841 | 1,201 | 1.145 | 0.016 | 3.985 | 4.256 |
| Total wanted fertility rate (3 years) | 2.994 | 0.209 | 2,403 | 3,427 | 1.177 | 0.070 | 2.576 | 3.412 |
| Currently using any contraceptive method | 0.353 | 0.024 | 445 | 633 | 1.080 | 0.069 | 0.304 | 0.402 |
| Currently using any modern method | 0.286 | 0.021 | 445 | 633 | 1.001 | 0.075 | 0.243 | 0.329 |
| Currently using pill | 0.050 | 0.010 | 445 | 633 | 0.983 | 0.203 | 0.030 | 0.070 |
| Currently using injectables | 0.054 | 0.012 | 445 | 633 | 1.108 | 0.221 | 0.030 | 0.077 |
| Currently using implants | 0.092 | 0.017 | 445 | 633 | 1.223 | 0.182 | 0.059 | 0.126 |
| Currently using male condoms | 0.023 | 0.006 | 445 | 633 | 0.865 | 0.269 | 0.011 | 0.035 |
| Currently using any traditional method | 0.067 | 0.013 | 445 | 633 | 1.130 | 0.199 | 0.041 | 0.094 |
| Unmet need for spacing | 0.143 | 0.018 | 445 | 633 | 1.078 | 0.125 | 0.107 | 0.178 |
| Unmet need for limiting | 0.131 | 0.017 | 445 | 633 | 1.071 | 0.131 | 0.096 | 0.165 |
| Unmet need total | 0.273 | 0.024 | 445 | 633 | 1.135 | 0.088 | 0.225 | 0.321 |
| Demand satisfied by modern methods | 0.456 | 0.030 | 277 | 396 | 1.001 | 0.066 | 0.396 | 0.516 |
| Demand satisfied by modern methods (all women) | 0.498 | 0.022 | 420 | 603 | 0.910 | 0.044 | 0.454 | 0.543 |
| Participation in decision making about family planning | 0.751 | 0.039 | 445 | 633 | 1.899 | 0.052 | 0.672 | 0.829 |
| Not exposed to any of the eight media sources | 0.210 | 0.021 | 854 | 1,220 | 1.472 | 0.098 | 0.169 | 0.251 |
| Neonatal mortality (last 0-9 years) | 14.939 | 4.197 | 841 | 1,205 | 0.941 | 0.281 | 6.545 | 23.333 |
| Postneonatal mortality (last 0-9 years) | 11.142 | 3.598 | 848 | 1,216 | 0.984 | 0.323 | 3.947 | 18.338 |
| Infant mortality (last 0-9 years) | 26.081 | 4.959 | 842 | 1,207 | 0.840 | 0.190 | 16.164 | 35.999 |
| Child mortality (last 0-9 years) | 16.340 | 4.199 | 837 | 1,196 | 0.957 | 0.257 | 7.943 | 24.738 |
| Under-5 mortality (last 0-9 years) | 41.996 | 6.411 | 844 | 1,210 | 0.885 | 0.153 | 29.173 | 54.818 |
| Perinatal mortality rate | 22.912 | 7.139 | 440 | 637 | 1.025 | 0.312 | 8.633 | 37.190 |
| Stillbirth rate | 10.426 | 4.497 | 440 | 637 | 0.940 | 0.431 | 1.432 | 19.421 |
| Early neonatal mortality rate | 12.586 | 6.334 | 436 | 631 | 1.207 | 0.503 | 0.000 | 25.254 |
| Received ANC from a skilled provider | 0.995 | 0.005 | 167 | 246 | 0.904 | 0.005 | 0.986 | 1.005 |
| 4+ ANC visits | 0.887 | 0.028 | 167 | 246 | 1.126 | 0.031 | 0.831 | 0.942 |
| 8+ ANC visits | 0.448 | 0.049 | 167 | 246 | 1.277 | 0.110 | 0.349 | 0.546 |
| Took any iron-containing supplements | 0.959 | 0.021 | 167 | 246 | 1.367 | 0.022 | 0.917 | 1.001 |
| Mothers protected against tetanus for last birth | 0.819 | 0.044 | 167 | 246 | 1.459 | 0.053 | 0.732 | 0.907 |
| Delivered in a health facility (live births) | 0.895 | 0.032 | 171 | 252 | 1.374 | 0.036 | 0.831 | 0.958 |
| Delivered by a skilled provider (live births) | 0.903 | 0.028 | 171 | 252 | 1.248 | 0.031 | 0.848 | 0.959 |
| Delivered by C-section (live births) | 0.255 | 0.028 | 171 | 252 | 0.849 | 0.111 | 0.198 | 0.312 |
| Women with postnatal check during first 2 days | 0.950 | 0.018 | 167 | 246 | 1.056 | 0.019 | 0.914 | 0.986 |
| Newborns with postnatal check during first 2 days | 0.943 | 0.016 | 167 | 246 | 0.902 | 0.017 | 0.910 | 0.975 |
| Any problem accessing health care | 0.518 | 0.028 | 854 | 1,220 | 1.615 | 0.053 | 0.463 | 0.574 |
| Ever had vaccination card | 0.989 | 0.011 | 79 | 115 | 0.941 | 0.011 | 0.967 | 1.011 |
| Received BCG vaccination | 0.905 | 0.032 | 79 | 115 | 0.965 | 0.035 | 0.841 | 0.968 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.854 | 0.038 | 79 | 115 | 0.958 | 0.045 | 0.778 | 0.930 |
| Received pneumococcal vaccination (3 doses) | 0.854 | 0.038 | 79 | 115 | 0.958 | 0.045 | 0.778 | 0.930 |
| Received measles and rubella 1 vaccination | 0.815 | 0.038 | 79 | 115 | 0.878 | 0.047 | 0.738 | 0.892 |
| Fully vaccinated according to national schedule (12-23 months) | 0.619 | 0.058 | 79 | 115 | 1.049 | 0.094 | 0.503 | 0.734 |
| Received measles and rubella 2 vaccination | 0.703 | 0.059 | 79 | 115 | 1.158 | 0.084 | 0.585 | 0.822 |
| Fully vaccinated according to national schedule (24-35 months) | 0.446 | 0.079 | 79 | 115 | 1.434 | 0.177 | 0.288 | 0.604 |
| Sought treatment for diarrhoea | 0.529 | 0.083 | 37 | 56 | 0.979 | 0.157 | 0.363 | 0.695 |
| Treated with ORS | 0.456 | 0.085 | 37 | 56 | 1.009 | 0.187 | 0.285 | 0.626 |
| Height-for-age (-3 SD) | 0.030 | 0.012 | 238 | 334 | 1.093 | 0.401 | 0.006 | 0.054 |
| Height-for-age (-2 SD) | 0.104 | 0.015 | 238 | 334 | 0.744 | 0.143 | 0.075 | 0.134 |
| Weight-for-height (-2 SD) | 0.043 | 0.015 | 238 | 334 | 1.115 | 0.341 | 0.014 | 0.072 |
| Weight-for-height (+2 SD) | 0.023 | 0.010 | 238 | 334 | 1.011 | 0.422 | 0.004 | 0.042 |
| Weight-for-age (-2 SD) | 0.110 | 0.025 | 238 | 334 | 1.165 | 0.228 | 0.060 | 0.161 |

Table B.9-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect <br> (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.401 | 0.084 | 43 | 64 | 1.109 | 0.210 | 0.232 | 0.569 |
| Minimum dietary diversity (children 6-23 months) | 0.320 | 0.046 | 119 | 175 | 1.069 | 0.143 | 0.229 | 0.412 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.383 | 0.029 | 210 | 294 | 0.860 | 0.076 | 0.324 | 0.441 |
| Body mass index (BMI) < 18.5 | 0.034 | 0.011 | 320 | 455 | 1.035 | 0.309 | 0.013 | 0.055 |
| Body mass index (BMI) $\geq 25.0$ | 0.558 | 0.033 | 320 | 455 | 1.176 | 0.059 | 0.493 | 0.624 |
| Body mass index-for-age (-2 SD) | 0.000 | 0.000 | 81 | 120 | na | na | 0.000 | 0.000 |
| Body mass index-for-age (+1 SD) | 0.167 | 0.041 | 81 | 120 | 0.991 | 0.248 | 0.084 | 0.249 |
| Minimum dietary diversity (women 15-49) | 0.534 | 0.018 | 854 | 1,220 | 1.075 | 0.034 | 0.497 | 0.571 |
| Prevalence of any anaemia (women 15-49) | 0.375 | 0.029 | 441 | 630 | 1.241 | 0.076 | 0.318 | 0.432 |
| Child slept under an ITN last night | 0.447 | 0.039 | 455 | 639 | 1.431 | 0.087 | 0.369 | 0.525 |
| Pregnant women slept under an ITN last night | 0.476 | 0.078 | 67 | 91 | 1.256 | 0.163 | 0.321 | 0.632 |
| Received 3+ doses of SP/Fansidar | 0.731 | 0.032 | 167 | 246 | 0.930 | 0.044 | 0.666 | 0.795 |
| Child had fever in last 2 weeks | 0.063 | 0.010 | 422 | 611 | 0.845 | 0.161 | 0.043 | 0.083 |
| Child had blood taken from finger/heel | 0.642 | 0.101 | 26 | 38 | 1.038 | 0.158 | 0.439 | 0.845 |
| Child took ACT | 0.796 | 0.136 | 15 | 22 | 1.311 | 0.171 | 0.524 | 1.067 |
| Child has malaria (based on rapid test) | 0.148 | 0.030 | 210 | 294 | 1.216 | 0.201 | 0.089 | 0.208 |
| Child has malaria (based on microscopy test) | 0.067 | 0.018 | 210 | 294 | 1.024 | 0.263 | 0.032 | 0.102 |
| Discriminatory attitudes towards people with HIV | 0.791 | 0.019 | 846 | 1,208 | 1.361 | 0.024 | 0.753 | 0.829 |
| Condom use at last sex | 0.100 | 0.017 | 218 | 311 | 0.851 | 0.173 | 0.066 | 0.135 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.176 | 0.017 | 854 | 1,220 | 1.309 | 0.097 | 0.142 | 0.210 |
| Mobile phone ownership | 0.829 | 0.012 | 854 | 1,220 | 0.962 | 0.015 | 0.804 | 0.854 |
| Have and use a bank account or mobile phone for financial transactions | 0.734 | 0.019 | 854 | 1,220 | 1.278 | 0.026 | 0.695 | 0.773 |
| Participate in decision making (all three decisions) | 0.432 | 0.029 | 445 | 633 | 1.229 | 0.067 | 0.374 | 0.490 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.075 | 0.011 | 854 | 1,220 | 1.199 | 0.144 | 0.054 | 0.097 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.421 | 0.033 | 445 | 633 | 1.413 | 0.079 | 0.354 | 0.487 |
| Experienced physical violence since age 15 by any perpetrator | 0.295 | 0.033 | 358 | 479 | 1.359 | 0.111 | 0.229 | 0.360 |
| Experienced sexual violence by any perpetrator ever | 0.129 | 0.023 | 358 | 479 | 1.315 | 0.181 | 0.083 | 0.176 |
| Experienced sexual violence by any non-intimate partner | 0.062 | 0.015 | 358 | 479 | 1.159 | 0.240 | 0.032 | 0.091 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.195 | 0.028 | 313 | 403 | 1.237 | 0.142 | 0.139 | 0.250 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.270 | 0.035 | 313 | 403 | 1.402 | 0.131 | 0.199 | 0.340 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.037 | 0.014 | 325 | 466 | 1.292 | 0.367 | 0.010 | 0.064 |
| Secondary education or higher | 0.826 | 0.032 | 325 | 466 | 1.531 | 0.039 | 0.762 | 0.891 |
| Literacy | 0.728 | 0.029 | 325 | 466 | 1.185 | 0.040 | 0.669 | 0.786 |
| Use of the internet in last 12 months | 0.592 | 0.037 | 325 | 466 | 1.361 | 0.063 | 0.518 | 0.667 |
| Current tobacco use | 0.022 | 0.010 | 325 | 466 | 1.200 | 0.441 | 0.003 | 0.042 |
| Want no more children | 0.427 | 0.046 | 133 | 192 | 1.078 | 0.109 | 0.334 | 0.520 |
| Discriminatory attitudes towards people with HIV | 0.680 | 0.029 | 322 | 461 | 1.105 | 0.042 | 0.622 | 0.737 |
| Condom use at last sex | 0.260 | 0.035 | 108 | 158 | 0.828 | 0.135 | 0.190 | 0.330 |
| Ever tested for HIV and received results of last test | 0.077 | 0.019 | 325 | 466 | 1.301 | 0.251 | 0.038 | 0.115 |
| Male circumcision | 0.992 | 0.005 | 325 | 466 | 0.924 | 0.005 | 0.983 | 1.001 |
| Mobile phone ownership | 0.868 | 0.019 | 325 | 466 | 1.014 | 0.022 | 0.830 | 0.907 |
| Have and use a bank account or mobile phone for financial transactions | 0.784 | 0.029 | 325 | 466 | 1.268 | 0.037 | 0.726 | 0.842 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.158 | 0.034 | 325 | 466 | 1.693 | 0.218 | 0.089 | 0.226 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 10 Sampling errors: Ashanti sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.279 | 0.028 | 4,761 | 11,844 | 2.022 | 0.099 | 0.224 | 0.334 |
| Births registered with civil authority | 0.747 | 0.023 | 608 | 1,518 | 1.203 | 0.031 | 0.701 | 0.793 |
| Ownership of at least one ITN | 0.660 | 0.019 | 1,397 | 3,469 | 1.521 | 0.029 | 0.621 | 0.698 |
| Ownership of at least one ITN for every two persons | 0.487 | 0.020 | 1,378 | 3,429 | 1.503 | 0.042 | 0.447 | 0.528 |
| At least basic drinking water service | 0.948 | 0.024 | 4,761 | 11,844 | 3.361 | 0.026 | 0.900 | 0.997 |
| Water available when needed | 0.855 | 0.025 | 4,761 | 11,844 | 2.073 | 0.029 | 0.805 | 0.904 |
| At least basic sanitation service | 0.292 | 0.034 | 4,761 | 11,844 | 2.322 | 0.118 | 0.223 | 0.361 |
| Using open defecation | 0.093 | 0.037 | 4,761 | 11,844 | 3.542 | 0.396 | 0.019 | 0.167 |
| Using a handwashing facility with soap and water | 0.429 | 0.039 | 4,453 | 11,066 | 2.409 | 0.091 | 0.351 | 0.508 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.090 | 0.012 | 1,131 | 2,928 | 1.450 | 0.137 | 0.066 | 0.115 |
| Secondary education or higher | 0.798 | 0.018 | 1,131 | 2,928 | 1.471 | 0.022 | 0.763 | 0.833 |
| Literacy | 0.615 | 0.022 | 1,131 | 2,928 | 1.503 | 0.035 | 0.572 | 0.659 |
| Use of the internet in last 12 months | 0.520 | 0.023 | 1,131 | 2,928 | 1.540 | 0.044 | 0.474 | 0.566 |
| Current tobacco use | 0.018 | 0.006 | 1,131 | 2,928 | 1.570 | 0.341 | 0.006 | 0.031 |
| Total fertility rate (3 years) | 3.516 | 0.241 | 3,238 | 8,381 | 1.147 | 0.068 | 3.035 | 3.997 |
| Currently pregnant | 0.058 | 0.008 | 1,131 | 2,928 | 1.207 | 0.145 | 0.041 | 0.075 |
| Mean number of children ever born to women age 40-49 | 4.350 | 0.171 | 240 | 633 | 1.233 | 0.039 | 4.008 | 4.692 |
| Median birth interval | 41.346 | 1.376 | 412 | 1,077 | 1.068 | 0.033 | 38.594 | 44.099 |
| Ideal number of children | 4.381 | 0.084 | 1,097 | 2,835 | 1.567 | 0.019 | 4.213 | 4.549 |
| Total wanted fertility rate (3 years) | 3.028 | 0.229 | 3,238 | 8,381 | 1.214 | 0.076 | 2.570 | 3.485 |
| Currently using any contraceptive method | 0.444 | 0.025 | 550 | 1,426 | 1.159 | 0.055 | 0.395 | 0.493 |
| Currently using any modern method | 0.321 | 0.022 | 550 | 1,426 | 1.095 | 0.068 | 0.278 | 0.365 |
| Currently using pill | 0.063 | 0.013 | 550 | 1,426 | 1.240 | 0.204 | 0.037 | 0.089 |
| Currently using injectables | 0.099 | 0.015 | 550 | 1,426 | 1.191 | 0.154 | 0.068 | 0.129 |
| Currently using implants | 0.070 | 0.011 | 550 | 1,426 | 0.975 | 0.152 | 0.049 | 0.091 |
| Currently using male condoms | 0.014 | 0.006 | 550 | 1,426 | 1.286 | 0.468 | 0.001 | 0.026 |
| Currently using any traditional method | 0.123 | 0.014 | 550 | 1,426 | 1.010 | 0.115 | 0.095 | 0.151 |
| Unmet need for spacing | 0.148 | 0.019 | 550 | 1,426 | 1.224 | 0.126 | 0.111 | 0.185 |
| Unmet need for limiting | 0.082 | 0.012 | 550 | 1,426 | 1.037 | 0.148 | 0.058 | 0.106 |
| Unmet need total | 0.230 | 0.023 | 550 | 1,426 | 1.258 | 0.098 | 0.184 | 0.275 |
| Demand satisfied by modern methods | 0.477 | 0.030 | 375 | 961 | 1.142 | 0.062 | 0.417 | 0.536 |
| Demand satisfied by modern methods (all women) | 0.524 | 0.025 | 586 | 1,503 | 1.186 | 0.047 | 0.475 | 0.573 |
| Participation in decision making about family planning | 0.905 | 0.016 | 550 | 1,426 | 1.285 | 0.018 | 0.872 | 0.937 |
| Not exposed to any of the eight media sources | 0.386 | 0.025 | 1,131 | 2,928 | 1.757 | 0.066 | 0.335 | 0.437 |
| Neonatal mortality (last 0-9 years) | 22.848 | 5.657 | 1,161 | 3,017 | 1.198 | 0.248 | 11.535 | 34.162 |
| Postneonatal mortality (last 0-9 years) | 11.500 | 2.733 | 1,159 | 3,007 | 0.877 | 0.238 | 6.034 | 16.966 |
| Infant mortality (last 0-9 years) | 34.348 | 5.848 | 1,162 | 3,020 | 1.058 | 0.170 | 22.653 | 46.044 |
| Child mortality (last 0-9 years) | 11.231 | 2.955 | 1,152 | 3,002 | 0.947 | 0.263 | 5.320 | 17.141 |
| Under-5 mortality (last 0-9 years) | 45.193 | 6.767 | 1,163 | 3,022 | 1.102 | 0.150 | 31.658 | 58.728 |
| Perinatal mortality rate | 31.029 | 7.333 | 600 | 1,572 | 0.980 | 0.236 | 16.363 | 45.694 |
| Stillbirth rate | 13.741 | 4.899 | 600 | 1,572 | 1.044 | 0.357 | 3.942 | 23.540 |
| Early neonatal mortality rate | 17.528 | 6.492 | 592 | 1,551 | 1.069 | 0.370 | 4.543 | 30.513 |
| Received ANC from a skilled provider | 1.000 | 0.000 | 246 | 631 | na | 0.000 | 1.000 | 1.000 |
| 4+ ANC visits | 0.897 | 0.025 | 246 | 631 | 1.259 | 0.027 | 0.848 | 0.946 |
| 8+ ANC visits | 0.388 | 0.037 | 246 | 631 | 1.185 | 0.095 | 0.314 | 0.462 |
| Took any iron-containing supplements | 0.942 | 0.016 | 246 | 631 | 1.070 | 0.017 | 0.910 | 0.974 |
| Mothers protected against tetanus for last birth | 0.808 | 0.035 | 246 | 631 | 1.394 | 0.043 | 0.738 | 0.878 |
| Delivered in a health facility (live births) | 0.924 | 0.019 | 259 | 666 | 1.146 | 0.021 | 0.886 | 0.962 |
| Delivered by a skilled provider (live births) | 0.936 | 0.017 | 259 | 666 | 1.123 | 0.018 | 0.902 | 0.970 |
| Delivered by C-section (live births) | 0.231 | 0.031 | 259 | 666 | 1.068 | 0.135 | 0.169 | 0.293 |
| Women with postnatal check during first 2 days | 0.879 | 0.024 | 246 | 631 | 1.147 | 0.027 | 0.831 | 0.927 |
| Newborns with postnatal check during first 2 days | 0.858 | 0.022 | 246 | 631 | 0.986 | 0.026 | 0.814 | 0.902 |
| Any problem accessing health care | 0.527 | 0.025 | 1,131 | 2,928 | 1.678 | 0.047 | 0.477 | 0.577 |
| Ever had vaccination card | 1.000 | 0.000 | 140 | 359 | na | 0.000 | 1.000 | 1.000 |
| Received BCG vaccination | 0.972 | 0.015 | 140 | 359 | 1.098 | 0.016 | 0.942 | 1.003 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.927 | 0.026 | 140 | 359 | 1.182 | 0.028 | 0.874 | 0.979 |
| Received pneumococcal vaccination (3 doses) | 0.948 | 0.019 | 140 | 359 | 1.009 | 0.020 | 0.910 | 0.986 |
| Received measles and rubella 1 vaccination | 0.919 | 0.023 | 140 | 359 | 0.991 | 0.025 | 0.873 | 0.965 |
| Fully vaccinated according to national schedule (12-23 months) | 0.638 | 0.051 | 140 | 359 | 1.176 | 0.079 | 0.537 | 0.739 |
| Received measles and rubella 2 vaccination | 0.668 | 0.060 | 95 | 255 | 1.212 | 0.090 | 0.547 | 0.789 |
| Fully vaccinated according to national schedule (24-35 months) | 0.409 | 0.058 | 95 | 255 | 1.103 | 0.141 | 0.294 | 0.524 |
| Sought treatment for diarrhoea | 0.445 | 0.049 | 94 | 240 | 0.971 | 0.111 | 0.346 | 0.544 |
| Treated with ORS | 0.419 | 0.077 | 94 | 240 | 1.474 | 0.183 | 0.266 | 0.572 |
| Height-for-age (-3 SD) | 0.042 | 0.011 | 315 | 784 | 0.963 | 0.252 | 0.021 | 0.063 |
| Height-for-age (-2 SD) | 0.172 | 0.027 | 315 | 784 | 1.177 | 0.159 | 0.118 | 0.227 |
| Weight-for-height (-2 SD) | 0.077 | 0.015 | 314 | 782 | 0.938 | 0.193 | 0.047 | 0.106 |
| Weight-for-height (+2 SD) | 0.024 | 0.008 | 314 | 782 | 0.983 | 0.355 | 0.007 | 0.040 |
| Weight-for-age (-2 SD) | 0.109 | 0.020 | 315 | 784 | 1.067 | 0.186 | 0.069 | 0.150 |

Table B.10-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted <br> (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.436 | 0.076 | 49 | 127 | 1.064 | 0.175 | 0.283 | 0.588 |
| Minimum dietary diversity (children 6-23 months) | 0.427 | 0.048 | 187 | 476 | 1.309 | 0.111 | 0.332 | 0.522 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.406 | 0.030 | 285 | 705 | 0.961 | 0.074 | 0.346 | 0.466 |
| Body mass index ( BMI ) < 18.5 | 0.026 | 0.008 | 445 | 1,152 | 1.115 | 0.321 | 0.009 | 0.043 |
| Body mass index (BMI) $\geq 25.0$ | 0.595 | 0.026 | 445 | 1,152 | 1.098 | 0.043 | 0.544 | 0.646 |
| Body mass index-for-age (-2 SD) | 0.049 | 0.022 | 86 | 223 | 0.956 | 0.455 | 0.004 | 0.094 |
| Body mass index-for-age (+1 SD) | 0.170 | 0.039 | 86 | 223 | 0.956 | 0.229 | 0.092 | 0.248 |
| Minimum dietary diversity (women 15-49) | 0.456 | 0.025 | 1,131 | 2,928 | 1.678 | 0.055 | 0.406 | 0.505 |
| Prevalence of any anaemia (women 15-49) | 0.375 | 0.021 | 576 | 1,486 | 1.017 | 0.055 | 0.334 | 0.416 |
| Child slept under an ITN last night | 0.445 | 0.031 | 610 | 1,523 | 1.330 | 0.071 | 0.382 | 0.508 |
| Pregnant women slept under an ITN last night | 0.369 | 0.050 | 68 | 163 | 0.833 | 0.135 | 0.270 | 0.468 |
| Received 3+ doses of SP/Fansidar | 0.499 | 0.040 | 246 | 631 | 1.249 | 0.080 | 0.419 | 0.579 |
| Child had fever in last 2 weeks | 0.171 | 0.016 | 571 | 1,495 | 0.986 | 0.095 | 0.138 | 0.203 |
| Child had blood taken from finger/heel | 0.339 | 0.057 | 95 | 255 | 1.097 | 0.168 | 0.225 | 0.453 |
| Child took ACT | 0.750 | 0.070 | 43 | 117 | 1.069 | 0.093 | 0.610 | 0.889 |
| Child has malaria (based on rapid test) | 0.111 | 0.023 | 285 | 705 | 1.208 | 0.208 | 0.065 | 0.157 |
| Child has malaria (based on microscopy test) | 0.075 | 0.019 | 285 | 705 | 1.174 | 0.256 | 0.036 | 0.113 |
| Discriminatory attitudes towards people with HIV | 0.796 | 0.015 | 1,116 | 2,891 | 1.251 | 0.019 | 0.766 | 0.826 |
| Condom use at last sex | 0.081 | 0.018 | 310 | 800 | 1.150 | 0.220 | 0.046 | 0.117 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.164 | 0.012 | 1,131 | 2,928 | 1.062 | 0.071 | 0.140 | 0.187 |
| Mobile phone ownership | 0.846 | 0.013 | 1,131 | 2,928 | 1.248 | 0.016 | 0.819 | 0.873 |
| Have and use a bank account or mobile phone for financial transactions | 0.782 | 0.023 | 1,131 | 2,928 | 1.868 | 0.029 | 0.736 | 0.828 |
| Participate in decision making (all three decisions) | 0.552 | 0.027 | 550 | 1,426 | 1.284 | 0.049 | 0.498 | 0.607 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.160 | 0.020 | 1,131 | 2,928 | 1.852 | 0.126 | 0.120 | 0.201 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.478 | 0.029 | 550 | 1,426 | 1.338 | 0.060 | 0.421 | 0.535 |
| Experienced physical violence since age 15 by any perpetrator | 0.338 | 0.028 | 443 | 1,124 | 1.256 | 0.084 | 0.281 | 0.394 |
| Experienced sexual violence by any perpetrator ever | 0.168 | 0.022 | 443 | 1,124 | 1.256 | 0.133 | 0.124 | 0.213 |
| Experienced sexual violence by any non-intimate partner | 0.064 | 0.014 | 443 | 1,124 | 1.170 | 0.213 | 0.037 | 0.091 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.199 | 0.027 | 405 | 986 | 1.374 | 0.137 | 0.145 | 0.254 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.241 | 0.029 | 405 | 986 | 1.349 | 0.119 | 0.184 | 0.299 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.041 | 0.014 | 438 | 1,179 | 1.463 | 0.337 | 0.014 | 0.069 |
| Secondary education or higher | 0.877 | 0.023 | 438 | 1,179 | 1.460 | 0.026 | 0.831 | 0.923 |
| Literacy | 0.768 | 0.027 | 438 | 1,179 | 1.334 | 0.035 | 0.715 | 0.822 |
| Use of the internet in last 12 months | 0.686 | 0.030 | 438 | 1,179 | 1.353 | 0.044 | 0.626 | 0.746 |
| Current tobacco use | 0.041 | 0.009 | 438 | 1,179 | 0.968 | 0.225 | 0.022 | 0.059 |
| Want no more children | 0.347 | 0.043 | 166 | 442 | 1.170 | 0.125 | 0.260 | 0.433 |
| Discriminatory attitudes towards people with HIV | 0.702 | 0.032 | 433 | 1,168 | 1.460 | 0.046 | 0.637 | 0.766 |
| Condom use at last sex | 0.136 | 0.030 | 161 | 429 | 1.112 | 0.222 | 0.076 | 0.196 |
| Ever tested for HIV and received results of last test | 0.045 | 0.009 | 438 | 1,179 | 0.903 | 0.198 | 0.027 | 0.063 |
| Male circumcision | 0.977 | 0.009 | 438 | 1,179 | 1.206 | 0.009 | 0.959 | 0.994 |
| Mobile phone ownership | 0.880 | 0.019 | 438 | 1,179 | 1.204 | 0.021 | 0.843 | 0.917 |
| Have and use a bank account or mobile phone for financial transactions | 0.811 | 0.022 | 438 | 1,179 | 1.184 | 0.027 | 0.766 | 0.855 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.113 | 0.018 | 438 | 1,179 | 1.172 | 0.157 | 0.077 | 0.148 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 11 Sampling errors: Western North sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, spac and lighting | 0.107 | 0.020 | 3,558 | 1,775 | 2.131 | 0.191 | 0.066 | 0.148 |
| Births registered with civil authority | 0.702 | 0.044 | 457 | 227 | 1.654 | 0.062 | 0.614 | 0.789 |
| Ownership of at least one ITN | 0.770 | 0.017 | 1,061 | 521 | 1.310 | 0.022 | 0.736 | 0.804 |
| Ownership of at least one ITN for every two persons | 0.586 | 0.022 | 1,053 | 517 | 1.430 | 0.037 | 0.542 | 0.629 |
| At least basic drinking water service | 0.750 | 0.048 | 3,558 | 1,775 | 2.834 | 0.063 | 0.655 | 0.846 |
| Water available when needed | 0.808 | 0.024 | 3,558 | 1,775 | 1.663 | 0.030 | 0.759 | 0.857 |
| At least basic sanitation service | 0.184 | 0.026 | 3,558 | 1,775 | 1.719 | 0.140 | 0.133 | 0.236 |
| Using open defecation | 0.063 | 0.024 | 3,558 | 1,775 | 2.718 | 0.385 | 0.014 | 0.111 |
| Using a handwashing facility with soap and water | 0.201 | 0.033 | 3,492 | 1,736 | 2.268 | 0.165 | 0.134 | 0.267 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.140 | 0.019 | 792 | 411 | 1.551 | 0.137 | 0.101 | 0.178 |
| Secondary education or higher | 0.711 | 0.025 | 792 | 411 | 1.561 | 0.035 | 0.661 | 0.761 |
| Literacy | 0.478 | 0.027 | 792 | 411 | 1.496 | 0.056 | 0.424 | 0.531 |
| Use of the internet in last 12 months | 0.285 | 0.028 | 792 | 411 | 1.750 | 0.099 | 0.229 | 0.341 |
| Current tobacco use | 0.004 | 0.002 | 792 | 411 | 0.922 | 0.494 | 0.000 | 0.009 |
| Total fertility rate (3 years) | 3.784 | 0.225 | 2,222 | 1,151 | 1.133 | 0.060 | 3.334 | 4.235 |
| Currently pregnant | 0.065 | 0.010 | 792 | 411 | 1.190 | 0.160 | 0.044 | 0.086 |
| Mean number of children ever born to women age 40-49 | 4.607 | 0.187 | 161 | 83 | 1.151 | 0.041 | 4.233 | 4.982 |
| Median birth interval | 41.723 | 1.603 | 322 | 169 | 1.221 | 0.038 | 38.518 | 44.929 |
| Ideal number of children | 4.412 | 0.075 | 788 | 408 | 1.066 | 0.017 | 4.263 | 4.561 |
| Total wanted fertility rate (3 years) | 3.308 | 0.232 | 2,222 | 1,151 | 1.182 | 0.070 | 2.843 | 3.773 |
| Currently using any contraceptive method | 0.392 | 0.025 | 439 | 231 | 1.061 | 0.063 | 0.343 | 0.442 |
| Currently using any modern method | 0.291 | 0.023 | 439 | 231 | 1.046 | 0.078 | 0.245 | 0.336 |
| Currently using pill | 0.045 | 0.013 | 439 | 231 | 1.330 | 0.292 | 0.019 | 0.072 |
| Currently using injectables | 0.102 | 0.015 | 439 | 231 | 1.002 | 0.142 | 0.073 | 0.131 |
| Currently using implants | 0.061 | 0.011 | 439 | 231 | 0.981 | 0.183 | 0.039 | 0.084 |
| Currently using male condoms | 0.010 | 0.005 | 439 | 231 | 0.985 | 0.462 | 0.001 | 0.020 |
| Currently using any traditional method | 0.102 | 0.018 | 439 | 231 | 1.228 | 0.175 | 0.066 | 0.137 |
| Unmet need for spacing | 0.149 | 0.018 | 439 | 231 | 1.069 | 0.122 | 0.113 | 0.186 |
| Unmet need for limiting | 0.078 | 0.013 | 439 | 231 | 1.021 | 0.168 | 0.052 | 0.104 |
| Unmet need total | 0.227 | 0.023 | 439 | 231 | 1.143 | 0.101 | 0.182 | 0.273 |
| Demand satisfied by modern methods | 0.469 | 0.032 | 274 | 143 | 1.068 | 0.069 | 0.404 | 0.534 |
| Demand satisfied by modern methods (all women) | 0.493 | 0.024 | 406 | 210 | 0.955 | 0.048 | 0.446 | 0.541 |
| Participation in decision making about family planning | 0.874 | 0.027 | 439 | 231 | 1.676 | 0.031 | 0.820 | 0.927 |
| Not exposed to any of the eight media sources | 0.261 | 0.033 | 792 | 411 | 2.122 | 0.127 | 0.195 | 0.328 |
| Neonatal mortality (last 0-9 years) | 13.317 | 4.179 | 863 | 454 | 0.936 | 0.314 | 4.959 | 21.674 |
| Postneonatal mortality (last 0-9 years) | 9.157 | 3.587 | 867 | 457 | 1.118 | 0.392 | 1.984 | 16.331 |
| Infant mortality (last 0-9 years) | 22.474 | 5.774 | 864 | 455 | 1.007 | 0.257 | 10.927 | 34.021 |
| Child mortality (last 0-9 years) | 15.227 | 5.511 | 855 | 448 | 1.150 | 0.362 | 4.205 | 26.249 |
| Under-5 mortality (last 0-9 years) | 37.359 | 8.849 | 868 | 457 | 1.228 | 0.237 | 19.660 | 55.058 |
| Perinatal mortality rate | 16.594 | 6.154 | 437 | 228 | 1.012 | 0.371 | 4.285 | 28.902 |
| Stillbirth rate | 6.406 | 3.630 | 437 | 228 | 0.953 | 0.567 | 0.000 | 13.665 |
| Early neonatal mortality rate | 10.254 | 5.396 | 434 | 226 | 1.121 | 0.526 | 0.000 | 21.045 |
| Received ANC from a skilled provider | 0.996 | 0.004 | 182 | 96 | 0.824 | 0.004 | 0.989 | 1.004 |
| 4+ ANC visits | 0.868 | 0.033 | 182 | 96 | 1.311 | 0.038 | 0.802 | 0.934 |
| 8+ ANC visits | 0.301 | 0.033 | 182 | 96 | 0.965 | 0.109 | 0.235 | 0.367 |
| Took any iron-containing supplements | 0.887 | 0.028 | 182 | 96 | 1.202 | 0.032 | 0.831 | 0.944 |
| Mothers protected against tetanus for last birth | 0.765 | 0.042 | 182 | 96 | 1.316 | 0.054 | 0.682 | 0.848 |
| Delivered in a health facility (live births) | 0.889 | 0.037 | 192 | 101 | 1.507 | 0.041 | 0.815 | 0.962 |
| Delivered by a skilled provider (live births) | 0.893 | 0.036 | 192 | 101 | 1.492 | 0.040 | 0.821 | 0.965 |
| Delivered by C-section (live births) | 0.181 | 0.032 | 192 | 101 | 1.096 | 0.176 | 0.118 | 0.245 |
| Women with postnatal check during first 2 days | 0.874 | 0.027 | 182 | 96 | 1.103 | 0.031 | 0.820 | 0.929 |
| Newborns with postnatal check during first 2 days | 0.849 | 0.037 | 182 | 96 | 1.401 | 0.044 | 0.775 | 0.924 |
| Any problem accessing health care | 0.536 | 0.034 | 792 | 411 | 1.905 | 0.063 | 0.468 | 0.603 |
| Ever had vaccination card | 1.000 | 0.000 | 98 | 51 | na | 0.000 | 1.000 | 1.000 |
| Received BCG vaccination | 0.977 | 0.017 | 98 | 51 | 1.099 | 0.017 | 0.944 | 1.010 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.942 | 0.022 | 98 | 51 | 0.924 | 0.023 | 0.898 | 0.986 |
| Received pneumococcal vaccination (3 doses) | 0.942 | 0.022 | 98 | 51 | 0.924 | 0.023 | 0.898 | 0.986 |
| Received measles and rubella 1 vaccination | 0.939 | 0.022 | 98 | 51 | 0.889 | 0.023 | 0.896 | 0.982 |
| Fully vaccinated according to national schedule (12-23 months) | 0.620 | 0.055 | 98 | 51 | 1.107 | 0.089 | 0.509 | 0.731 |
| Received measles and rubella 2 vaccination | 0.806 | 0.049 | 78 | 41 | 1.075 | 0.060 | 0.709 | 0.904 |
| Fully vaccinated according to national schedule (24-35 months) | 0.403 | 0.070 | 78 | 41 | 1.184 | 0.174 | 0.263 | 0.543 |
| Sought treatment for diarrhoea | 0.446 | 0.072 | 50 | 26 | 1.076 | 0.163 | 0.301 | 0.590 |
| Treated with ORS | 0.479 | 0.087 | 50 | 26 | 1.124 | 0.182 | 0.305 | 0.653 |
| Height-for-age (-3 SD) | 0.017 | 0.008 | 208 | 102 | 0.920 | 0.485 | 0.001 | 0.033 |
| Height-for-age (-2 SD) | 0.106 | 0.021 | 208 | 102 | 0.935 | 0.197 | 0.064 | 0.148 |
| Weight-for-height (-2 SD) | 0.018 | 0.009 | 209 | 103 | 0.953 | 0.488 | 0.000 | 0.035 |
| Weight-for-height (+2 SD) | 0.018 | 0.008 | 209 | 103 | 0.915 | 0.465 | 0.001 | 0.035 |
| Weight-for-age (-2 SD) | 0.075 | 0.020 | 208 | 102 | 1.067 | 0.265 | 0.035 | 0.115 |

Table B.11-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.275 | 0.061 | 47 | 24 | 0.933 | 0.223 | 0.153 | 0.398 |
| Minimum dietary diversity (children 6-23 months) | 0.365 | 0.051 | 134 | 72 | 1.230 | 0.141 | 0.262 | 0.468 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.451 | 0.039 | 182 | 90 | 0.965 | 0.086 | 0.373 | 0.529 |
| Body mass index (BMI) < 18.5 | 0.034 | 0.010 | 274 | 141 | 0.899 | 0.288 | 0.015 | 0.054 |
| Body mass index (BMI) $\geq 25.0$ | 0.501 | 0.036 | 274 | 141 | 1.194 | 0.072 | 0.429 | 0.573 |
| Body mass index-for-age (-2 SD) | 0.029 | 0.021 | 67 | 33 | 1.018 | 0.720 | 0.000 | 0.072 |
| Body mass index-for-age (+1 SD) | 0.136 | 0.046 | 67 | 33 | 1.083 | 0.337 | 0.044 | 0.227 |
| Minimum dietary diversity (women 15-49) | 0.504 | 0.025 | 792 | 411 | 1.386 | 0.049 | 0.454 | 0.553 |
| Prevalence of any anaemia (women 15-49) | 0.363 | 0.031 | 369 | 189 | 1.238 | 0.086 | 0.301 | 0.425 |
| Child slept under an ITN last night | 0.584 | 0.033 | 458 | 228 | 1.225 | 0.056 | 0.519 | 0.649 |
| Pregnant women slept under an ITN last night | 0.544 | 0.082 | 52 | 26 | 1.197 | 0.152 | 0.379 | 0.709 |
| Received 3+ doses of SP/Fansidar | 0.518 | 0.046 | 182 | 96 | 1.246 | 0.089 | 0.425 | 0.611 |
| Child had fever in last 2 weeks | 0.143 | 0.026 | 425 | 222 | 1.397 | 0.184 | 0.090 | 0.196 |
| Child had blood taken from finger/heel | 0.401 | 0.084 | 59 | 32 | 1.187 | 0.209 | 0.233 | 0.568 |
| Child took ACT | 0.887 | 0.058 | 22 | 11 | 0.840 | 0.065 | 0.771 | 1.002 |
| Child has malaria (based on rapid test) | 0.114 | 0.024 | 183 | 91 | 0.989 | 0.210 | 0.066 | 0.163 |
| Child has malaria (based on microscopy test) | 0.044 | 0.016 | 183 | 91 | 1.099 | 0.367 | 0.012 | 0.077 |
| Discriminatory attitudes towards people with HIV | 0.834 | 0.016 | 770 | 400 | 1.199 | 0.019 | 0.801 | 0.866 |
| Condom use at last sex | 0.107 | 0.022 | 217 | 108 | 1.051 | 0.206 | 0.063 | 0.152 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.143 | 0.017 | 792 | 411 | 1.364 | 0.119 | 0.109 | 0.177 |
| Mobile phone ownership | 0.741 | 0.026 | 792 | 411 | 1.698 | 0.036 | 0.688 | 0.794 |
| Have and use a bank account or mobile phone for financial transactions | 0.704 | 0.028 | 792 | 411 | 1.750 | 0.040 | 0.647 | 0.761 |
| Participate in decision making (all three decisions) | 0.411 | 0.037 | 439 | 231 | 1.582 | 0.091 | 0.337 | 0.486 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.273 | 0.021 | 792 | 411 | 1.346 | 0.078 | 0.230 | 0.315 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.405 | 0.036 | 439 | 231 | 1.544 | 0.090 | 0.333 | 0.478 |
| Experienced physical violence since age 15 by any perpetrator | 0.317 | 0.029 | 281 | 137 | 1.043 | 0.091 | 0.259 | 0.375 |
| Experienced sexual violence by any perpetrator ever | 0.115 | 0.019 | 281 | 137 | 0.986 | 0.163 | 0.077 | 0.153 |
| Experienced sexual violence by any non-intimate partner | 0.015 | 0.006 | 281 | 137 | 0.894 | 0.432 | 0.002 | 0.028 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.181 | 0.026 | 266 | 128 | 1.091 | 0.143 | 0.129 | 0.233 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.258 | 0.030 | 266 | 128 | 1.127 | 0.117 | 0.198 | 0.319 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.049 | 0.015 | 351 | 181 | 1.330 | 0.313 | 0.018 | 0.080 |
| Secondary education or higher | 0.810 | 0.032 | 351 | 181 | 1.543 | 0.040 | 0.745 | 0.875 |
| Literacy | 0.745 | 0.037 | 351 | 181 | 1.598 | 0.050 | 0.671 | 0.820 |
| Use of the internet in last 12 months | 0.591 | 0.031 | 351 | 181 | 1.180 | 0.052 | 0.529 | 0.653 |
| Current tobacco use | 0.093 | 0.018 | 351 | 181 | 1.145 | 0.191 | 0.057 | 0.129 |
| Want no more children | 0.367 | 0.044 | 161 | 82 | 1.145 | 0.119 | 0.280 | 0.454 |
| Discriminatory attitudes towards people with HIV | 0.707 | 0.027 | 347 | 179 | 1.124 | 0.039 | 0.652 | 0.762 |
| Condom use at last sex | 0.202 | 0.033 | 152 | 76 | 1.000 | 0.162 | 0.137 | 0.268 |
| Ever tested for HIV and received results of last test | 0.056 | 0.015 | 351 | 181 | 1.233 | 0.272 | 0.025 | 0.086 |
| Male circumcision | 0.961 | 0.014 | 351 | 181 | 1.372 | 0.015 | 0.933 | 0.989 |
| Mobile phone ownership | 0.876 | 0.015 | 351 | 181 | 0.868 | 0.017 | 0.845 | 0.906 |
| Have and use a bank account or mobile phone for financial transactions | 0.829 | 0.026 | 351 | 181 | 1.277 | 0.031 | 0.778 | 0.880 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.113 | 0.015 | 351 | 181 | 0.873 | 0.131 | 0.083 | 0.142 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 12 Sampling errors: Ahafo sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, spac and lighting | 0.090 | 0.014 | 3,802 | 1,397 | 1.639 | 0.159 | 0.062 | 0.119 |
| Births registered with civil authority | 0.751 | 0.036 | 505 | 185 | 1.661 | 0.048 | 0.679 | 0.822 |
| Ownership of at least one ITN | 0.798 | 0.013 | 1,062 | 388 | 1.064 | 0.016 | 0.771 | 0.824 |
| Ownership of at least one ITN for every two persons | 0.615 | 0.017 | 1,049 | 384 | 1.153 | 0.028 | 0.580 | 0.650 |
| At least basic drinking water service | 0.758 | 0.046 | 3,802 | 1,397 | 2.861 | 0.061 | 0.665 | 0.851 |
| Water available when needed | 0.799 | 0.030 | 3,802 | 1,397 | 2.105 | 0.038 | 0.739 | 0.860 |
| At least basic sanitation service | 0.191 | 0.025 | 3,802 | 1,397 | 1.727 | 0.133 | 0.140 | 0.242 |
| Using open defecation | 0.118 | 0.039 | 3,802 | 1,397 | 3.279 | 0.330 | 0.040 | 0.196 |
| Using a handwashing facility with soap and water | 0.395 | 0.053 | 3,776 | 1,388 | 3.021 | 0.135 | 0.288 | 0.502 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.175 | 0.021 | 849 | 317 | 1.603 | 0.120 | 0.133 | 0.217 |
| Secondary education or higher | 0.707 | 0.023 | 849 | 317 | 1.467 | 0.032 | 0.661 | 0.753 |
| Literacy | 0.483 | 0.022 | 849 | 317 | 1.275 | 0.045 | 0.439 | 0.527 |
| Use of the internet in last 12 months | 0.311 | 0.036 | 849 | 317 | 2.239 | 0.115 | 0.239 | 0.382 |
| Current tobacco use | 0.010 | 0.004 | 849 | 317 | 1.257 | 0.426 | 0.001 | 0.019 |
| Total fertility rate (3 years) | 4.272 | 0.263 | 2,376 | 888 | 1.160 | 0.062 | 3.747 | 4.798 |
| Currently pregnant | 0.064 | 0.007 | 849 | 317 | 0.890 | 0.117 | 0.049 | 0.079 |
| Mean number of children ever born to women age 40-49 | 4.757 | 0.159 | 169 | 64 | 1.006 | 0.033 | 4.439 | 5.076 |
| Median birth interval | 41.229 | 1.964 | 367 | 141 | 1.524 | 0.048 | 37.301 | 45.157 |
| Ideal number of children | 4.532 | 0.081 | 848 | 317 | 1.329 | 0.018 | 4.369 | 4.694 |
| Total wanted fertility rate (3 years) | 3.658 | 0.258 | 2,376 | 888 | 1.172 | 0.071 | 3.142 | 4.175 |
| Currently using any contraceptive method | 0.428 | 0.040 | 484 | 183 | 1.795 | 0.095 | 0.347 | 0.509 |
| Currently using any modern method | 0.358 | 0.035 | 484 | 183 | 1.593 | 0.097 | 0.288 | 0.427 |
| Currently using pill | 0.050 | 0.011 | 484 | 183 | 1.123 | 0.224 | 0.027 | 0.072 |
| Currently using injectables | 0.113 | 0.022 | 484 | 183 | 1.517 | 0.194 | 0.069 | 0.156 |
| Currently using implants | 0.088 | 0.014 | 484 | 183 | 1.052 | 0.154 | 0.061 | 0.115 |
| Currently using male condoms | 0.005 | 0.003 | 484 | 183 | 0.891 | 0.566 | 0.000 | 0.011 |
| Currently using any traditional method | 0.070 | 0.017 | 484 | 183 | 1.451 | 0.240 | 0.036 | 0.104 |
| Unmet need for spacing | 0.146 | 0.021 | 484 | 183 | 1.303 | 0.144 | 0.104 | 0.187 |
| Unmet need for limiting | 0.096 | 0.013 | 484 | 183 | 0.978 | 0.137 | 0.069 | 0.122 |
| Unmet need total | 0.241 | 0.026 | 484 | 183 | 1.346 | 0.109 | 0.189 | 0.294 |
| Demand satisfied by modern methods | 0.535 | 0.040 | 320 | 122 | 1.423 | 0.074 | 0.456 | 0.614 |
| Demand satisfied by modern methods (all women) | 0.529 | 0.028 | 473 | 179 | 1.210 | 0.052 | 0.474 | 0.585 |
| Participation in decision making about family planning | 0.759 | 0.041 | 484 | 183 | 2.110 | 0.054 | 0.676 | 0.841 |
| Not exposed to any of the eight media sources | 0.151 | 0.027 | 849 | 317 | 2.156 | 0.176 | 0.098 | 0.204 |
| Neonatal mortality (last 0-9 years) | 12.503 | 3.337 | 958 | 364 | 0.946 | 0.267 | 5.830 | 19.177 |
| Postneonatal mortality (last 0-9 years) | 4.744 | 2.112 | 950 | 361 | 0.913 | 0.445 | 0.520 | 8.969 |
| Infant mortality (last 0-9 years) | 17.248 | 4.018 | 959 | 365 | 0.976 | 0.233 | 9.212 | 25.284 |
| Child mortality (last 0-9 years) | 11.539 | 3.406 | 946 | 359 | 1.021 | 0.295 | 4.726 | 18.352 |
| Under-5 mortality (last 0-9 years) | 28.588 | 5.745 | 962 | 365 | 1.122 | 0.201 | 17.099 | 40.078 |
| Perinatal mortality rate | 19.523 | 6.079 | 503 | 192 | 1.007 | 0.311 | 7.365 | 31.680 |
| Stillbirth rate | 9.975 | 4.518 | 503 | 192 | 1.035 | 0.453 | 0.939 | 19.010 |
| Early neonatal mortality rate | 9.644 | 4.582 | 497 | 190 | 1.063 | 0.475 | 0.480 | 18.809 |
| Received ANC from a skilled provider | 0.977 | 0.011 | 205 | 77 | 1.058 | 0.011 | 0.955 | 0.999 |
| 4+ ANC visits | 0.886 | 0.025 | 205 | 77 | 1.116 | 0.028 | 0.836 | 0.936 |
| 8+ ANC visits | 0.424 | 0.046 | 205 | 77 | 1.327 | 0.109 | 0.332 | 0.516 |
| Took any iron-containing supplements | 0.958 | 0.014 | 205 | 77 | 0.988 | 0.015 | 0.930 | 0.985 |
| Mothers protected against tetanus for last birth | 0.778 | 0.030 | 205 | 77 | 1.022 | 0.038 | 0.718 | 0.837 |
| Delivered in a health facility (live births) | 0.922 | 0.020 | 214 | 81 | 1.077 | 0.021 | 0.883 | 0.962 |
| Delivered by a skilled provider (live births) | 0.934 | 0.016 | 214 | 81 | 0.968 | 0.018 | 0.901 | 0.967 |
| Delivered by C-section (live births) | 0.194 | 0.028 | 214 | 81 | 1.039 | 0.143 | 0.139 | 0.250 |
| Women with postnatal check during first 2 days | 0.882 | 0.036 | 205 | 77 | 1.590 | 0.041 | 0.810 | 0.954 |
| Newborns with postnatal check during first 2 days | 0.838 | 0.036 | 205 | 77 | 1.396 | 0.043 | 0.766 | 0.911 |
| Any problem accessing health care | 0.641 | 0.029 | 849 | 317 | 1.747 | 0.045 | 0.584 | 0.699 |
| Ever had vaccination card | 0.946 | 0.028 | 97 | 38 | 1.223 | 0.029 | 0.890 | 1.001 |
| Received BCG vaccination | 0.888 | 0.038 | 97 | 38 | 1.208 | 0.043 | 0.812 | 0.965 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.885 | 0.041 | 97 | 38 | 1.269 | 0.046 | 0.804 | 0.967 |
| Received pneumococcal vaccination (3 doses) | 0.859 | 0.042 | 97 | 38 | 1.207 | 0.049 | 0.774 | 0.943 |
| Received measles and rubella 1 vaccination | 0.841 | 0.048 | 97 | 38 | 1.315 | 0.058 | 0.744 | 0.937 |
| Fully vaccinated according to national schedule (12-23 months) | 0.538 | 0.061 | 97 | 38 | 1.214 | 0.114 | 0.416 | 0.661 |
| Received measles and rubella 2 vaccination | 0.855 | 0.042 | 89 | 36 | 1.167 | 0.049 | 0.771 | 0.939 |
| Fully vaccinated according to national schedule (24-35 months) | 0.494 | 0.055 | 89 | 36 | 1.036 | 0.111 | 0.384 | 0.604 |
| Sought treatment for diarrhoea | 0.557 | 0.087 | 50 | 18 | 1.152 | 0.156 | 0.384 | 0.730 |
| Treated with ORS | 0.427 | 0.078 | 50 | 18 | 1.020 | 0.183 | 0.270 | 0.583 |
| Height-for-age (-3 SD) | 0.047 | 0.012 | 269 | 98 | 0.922 | 0.252 | 0.023 | 0.070 |
| Height-for-age (-2 SD) | 0.165 | 0.019 | 269 | 98 | 0.804 | 0.113 | 0.127 | 0.202 |
| Weight-for-height (-2 SD) | 0.042 | 0.014 | 269 | 98 | 1.081 | 0.338 | 0.013 | 0.070 |
| Weight-for-height (+2 SD) | 0.043 | 0.013 | 269 | 98 | 1.010 | 0.305 | 0.017 | 0.069 |
| Weight-for-age (-2 SD) | 0.080 | 0.015 | 269 | 98 | 0.892 | 0.189 | 0.050 | 0.110 |

Table B.12-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.474 | 0.075 | 58 | 22 | 1.132 | 0.158 | 0.324 | 0.624 |
| Minimum dietary diversity (children 6-23 months) | 0.447 | 0.042 | 141 | 54 | 0.995 | 0.094 | 0.363 | 0.531 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.354 | 0.028 | 237 | 87 | 0.899 | 0.079 | 0.299 | 0.410 |
| Body mass index (BMI) <18.5 | 0.031 | 0.013 | 316 | 117 | 1.332 | 0.423 | 0.005 | 0.056 |
| Body mass index (BMI) $\geq 25.0$ | 0.489 | 0.032 | 316 | 117 | 1.142 | 0.066 | 0.425 | 0.554 |
| Body mass index-for-age (-2 SD) | 0.014 | 0.014 | 68 | 26 | 0.959 | 0.991 | 0.000 | 0.041 |
| Body mass index-for-age (+1 SD) | 0.123 | 0.049 | 68 | 26 | 1.219 | 0.398 | 0.025 | 0.222 |
| Minimum dietary diversity (women 15-49) | 0.568 | 0.025 | 849 | 317 | 1.474 | 0.044 | 0.518 | 0.618 |
| Prevalence of any anaemia (women 15-49) | 0.356 | 0.022 | 428 | 160 | 0.940 | 0.061 | 0.313 | 0.400 |
| Child slept under an ITN last night | 0.683 | 0.027 | 511 | 188 | 1.142 | 0.040 | 0.628 | 0.738 |
| Pregnant women slept under an ITN last night | 0.717 | 0.057 | 56 | 20 | 0.927 | 0.080 | 0.603 | 0.832 |
| Received 3+ doses of SP/Fansidar | 0.583 | 0.042 | 205 | 77 | 1.205 | 0.071 | 0.500 | 0.666 |
| Child had fever in last 2 weeks | 0.121 | 0.025 | 487 | 186 | 1.526 | 0.203 | 0.072 | 0.170 |
| Child had blood taken from finger/heel | 0.536 | 0.074 | 61 | 22 | 1.073 | 0.138 | 0.388 | 0.685 |
| Child took ACT | 0.713 | 0.105 | 30 | 11 | 1.255 | 0.148 | 0.502 | 0.924 |
| Child has malaria (based on rapid test) | 0.214 | 0.027 | 237 | 87 | 0.973 | 0.128 | 0.159 | 0.268 |
| Child has malaria (based on microscopy test) | 0.118 | 0.020 | 237 | 87 | 0.961 | 0.172 | 0.077 | 0.159 |
| Discriminatory attitudes towards people with HIV | 0.870 | 0.013 | 822 | 306 | 1.125 | 0.015 | 0.843 | 0.896 |
| Condom use at last sex | 0.088 | 0.025 | 198 | 71 | 1.242 | 0.286 | 0.038 | 0.138 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.133 | 0.014 | 849 | 317 | 1.179 | 0.103 | 0.106 | 0.161 |
| Mobile phone ownership | 0.756 | 0.019 | 849 | 317 | 1.303 | 0.025 | 0.718 | 0.795 |
| Have and use a bank account or mobile phone for financial transactions | 0.734 | 0.019 | 849 | 317 | 1.224 | 0.025 | 0.697 | 0.771 |
| Participate in decision making (all three decisions) | 0.452 | 0.054 | 484 | 183 | 2.354 | 0.119 | 0.345 | 0.559 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.228 | 0.021 | 849 | 317 | 1.482 | 0.094 | 0.186 | 0.271 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.374 | 0.048 | 484 | 183 | 2.163 | 0.128 | 0.279 | 0.470 |
| Experienced physical violence since age 15 by any perpetrator | 0.306 | 0.037 | 340 | 123 | 1.477 | 0.121 | 0.232 | 0.380 |
| Experienced sexual violence by any perpetrator ever | 0.110 | 0.020 | 340 | 123 | 1.202 | 0.185 | 0.069 | 0.151 |
| Experienced sexual violence by any non-intimate partner | 0.051 | 0.012 | 340 | 123 | 1.041 | 0.244 | 0.026 | 0.076 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.259 | 0.029 | 307 | 105 | 1.174 | 0.114 | 0.200 | 0.318 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.385 | 0.037 | 307 | 105 | 1.311 | 0.095 | 0.312 | 0.458 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.093 | 0.018 | 359 | 133 | 1.183 | 0.195 | 0.057 | 0.130 |
| Secondary education or higher | 0.806 | 0.022 | 359 | 133 | 1.065 | 0.028 | 0.761 | 0.850 |
| Literacy | 0.701 | 0.021 | 359 | 133 | 0.876 | 0.030 | 0.658 | 0.743 |
| Use of the internet in last 12 months | 0.466 | 0.031 | 359 | 133 | 1.170 | 0.066 | 0.404 | 0.527 |
| Current tobacco use | 0.049 | 0.012 | 359 | 133 | 1.070 | 0.249 | 0.025 | 0.074 |
| Want no more children | 0.241 | 0.033 | 184 | 69 | 1.053 | 0.138 | 0.174 | 0.307 |
| Discriminatory attitudes towards people with HIV | 0.720 | 0.022 | 355 | 132 | 0.917 | 0.030 | 0.676 | 0.764 |
| Condom use at last sex | 0.297 | 0.046 | 115 | 42 | 1.066 | 0.154 | 0.206 | 0.388 |
| Ever tested for HIV and received results of last test | 0.068 | 0.017 | 359 | 133 | 1.252 | 0.244 | 0.035 | 0.102 |
| Male circumcision | 0.983 | 0.012 | 359 | 133 | 1.709 | 0.012 | 0.960 | 1.007 |
| Mobile phone ownership | 0.867 | 0.018 | 359 | 133 | 1.024 | 0.021 | 0.830 | 0.903 |
| Have and use a bank account or mobile phone for financial transactions | 0.791 | 0.021 | 359 | 133 | 0.988 | 0.027 | 0.749 | 0.834 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.170 | 0.027 | 359 | 133 | 1.365 | 0.160 | 0.116 | 0.224 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 13 Sampling errors: Bono sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.155 | 0.026 | 3,456 | 2,262 | 2.300 | 0.170 | 0.102 | 0.208 |
| Births registered with civil authority | 0.684 | 0.038 | 429 | 279 | 1.478 | 0.056 | 0.608 | 0.760 |
| Ownership of at least one ITN | 0.726 | 0.019 | 1,030 | 668 | 1.389 | 0.027 | 0.687 | 0.764 |
| Ownership of at least one ITN for every two persons | 0.522 | 0.021 | 1,028 | 666 | 1.324 | 0.040 | 0.480 | 0.563 |
| At least basic drinking water service | 0.870 | 0.041 | 3,456 | 2,262 | 3.007 | 0.047 | 0.788 | 0.951 |
| Water available when needed | 0.830 | 0.032 | 3,456 | 2,262 | 2.201 | 0.038 | 0.766 | 0.893 |
| At least basic sanitation service | 0.288 | 0.031 | 3,456 | 2,262 | 1.785 | 0.107 | 0.226 | 0.349 |
| Using open defecation | 0.130 | 0.022 | 3,456 | 2,262 | 1.804 | 0.173 | 0.085 | 0.175 |
| Using a handwashing facility with soap and water | 0.326 | 0.037 | 3,424 | 2,241 | 2.115 | 0.112 | 0.253 | 0.400 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.118 | 0.016 | 835 | 567 | 1.403 | 0.133 | 0.086 | 0.149 |
| Secondary education or higher | 0.774 | 0.026 | 835 | 567 | 1.799 | 0.034 | 0.721 | 0.826 |
| Literacy | 0.615 | 0.031 | 835 | 567 | 1.828 | 0.050 | 0.553 | 0.677 |
| Use of the internet in last 12 months | 0.417 | 0.033 | 835 | 567 | 1.948 | 0.080 | 0.351 | 0.484 |
| Current tobacco use | 0.003 | 0.002 | 835 | 567 | 1.204 | 0.720 | 0.000 | 0.008 |
| Total fertility rate (3 years) | 3.697 | 0.255 | 2,337 | 1,589 | 1.138 | 0.069 | 3.187 | 4.207 |
| Currently pregnant | 0.066 | 0.008 | 835 | 567 | 0.896 | 0.116 | 0.051 | 0.082 |
| Mean number of children ever born to women age 40-49 | 4.298 | 0.191 | 167 | 113 | 1.163 | 0.044 | 3.916 | 4.680 |
| Median birth interval | 42.599 | 2.192 | 301 | 202 | 1.149 | 0.051 | 38.216 | 46.982 |
| Ideal number of children | 4.193 | 0.084 | 833 | 566 | 1.530 | 0.020 | 4.026 | 4.360 |
| Total wanted fertility rate (3 years) | 3.414 | 0.256 | 2,337 | 1,589 | 1.164 | 0.075 | 2.901 | 3.927 |
| Currently using any contraceptive method | 0.385 | 0.023 | 424 | 284 | 0.991 | 0.061 | 0.339 | 0.432 |
| Currently using any modern method | 0.283 | 0.023 | 424 | 284 | 1.072 | 0.083 | 0.236 | 0.330 |
| Currently using pill | 0.053 | 0.008 | 424 | 284 | 0.777 | 0.160 | 0.036 | 0.070 |
| Currently using injectables | 0.070 | 0.012 | 424 | 284 | 0.959 | 0.170 | 0.046 | 0.094 |
| Currently using implants | 0.089 | 0.018 | 424 | 284 | 1.309 | 0.204 | 0.053 | 0.125 |
| Currently using male condoms | 0.011 | 0.005 | 424 | 284 | 1.026 | 0.481 | 0.000 | 0.021 |
| Currently using any traditional method | 0.103 | 0.018 | 424 | 284 | 1.217 | 0.175 | 0.067 | 0.139 |
| Unmet need for spacing | 0.147 | 0.018 | 424 | 284 | 1.070 | 0.125 | 0.110 | 0.184 |
| Unmet need for limiting | 0.090 | 0.016 | 424 | 284 | 1.131 | 0.175 | 0.058 | 0.121 |
| Unmet need total | 0.237 | 0.020 | 424 | 284 | 0.962 | 0.084 | 0.197 | 0.277 |
| Demand satisfied by modern methods | 0.454 | 0.033 | 262 | 177 | 1.071 | 0.072 | 0.389 | 0.520 |
| Demand satisfied by modern methods (all women) | 0.467 | 0.030 | 399 | 269 | 1.188 | 0.064 | 0.408 | 0.527 |
| Participation in decision making about family planning | 0.917 | 0.016 | 424 | 284 | 1.197 | 0.018 | 0.885 | 0.949 |
| Not exposed to any of the eight media sources | 0.295 | 0.022 | 835 | 567 | 1.377 | 0.074 | 0.251 | 0.338 |
| Neonatal mortality (last 0-9 years) | 12.551 | 6.262 | 830 | 555 | 1.580 | 0.499 | 0.027 | 25.076 |
| Postneonatal mortality (last 0-9 years) | 11.072 | 3.766 | 830 | 555 | 1.031 | 0.340 | 3.541 | 18.604 |
| Infant mortality (last 0-9 years) | 23.624 | 6.675 | 830 | 555 | 1.277 | 0.283 | 10.274 | 36.973 |
| Child mortality (last 0-9 years) | 12.533 | 3.456 | 810 | 542 | 0.868 | 0.276 | 5.620 | 19.446 |
| Under-5 mortality (last 0-9 years) | 35.861 | 6.862 | 832 | 556 | 1.070 | 0.191 | 22.137 | 49.584 |
| Perinatal mortality rate | 25.626 | 11.036 | 433 | 290 | 1.463 | 0.431 | 3.554 | 47.698 |
| Stillbirth rate | 14.407 | 7.464 | 433 | 290 | 1.306 | 0.518 | 0.000 | 29.336 |
| Early neonatal mortality rate | 11.383 | 8.898 | 427 | 286 | 1.728 | 0.782 | 0.000 | 29.179 |
| Received ANC from a skilled provider | 0.988 | 0.009 | 167 | 113 | 1.034 | 0.009 | 0.970 | 1.005 |
| 4+ ANC visits | 0.912 | 0.025 | 167 | 113 | 1.118 | 0.027 | 0.862 | 0.961 |
| 8+ ANC visits | 0.368 | 0.052 | 167 | 113 | 1.395 | 0.142 | 0.263 | 0.472 |
| Took any iron-containing supplements | 0.983 | 0.013 | 167 | 113 | 1.268 | 0.013 | 0.957 | 1.008 |
| Mothers protected against tetanus for last birth | 0.692 | 0.048 | 167 | 113 | 1.338 | 0.069 | 0.596 | 0.789 |
| Delivered in a health facility (live births) | 0.907 | 0.037 | 174 | 117 | 1.652 | 0.040 | 0.834 | 0.980 |
| Delivered by a skilled provider (live births) | 0.913 | 0.037 | 174 | 117 | 1.695 | 0.040 | 0.839 | 0.986 |
| Delivered by C-section (live births) | 0.212 | 0.037 | 174 | 117 | 1.107 | 0.172 | 0.139 | 0.286 |
| Women with postnatal check during first 2 days | 0.941 | 0.022 | 167 | 113 | 1.201 | 0.023 | 0.897 | 0.985 |
| Newborns with postnatal check during first 2 days | 0.957 | 0.016 | 167 | 113 | 1.027 | 0.017 | 0.925 | 0.990 |
| Any problem accessing health care | 0.415 | 0.044 | 835 | 567 | 2.583 | 0.106 | 0.327 | 0.504 |
| Ever had vaccination card | 1.000 | 0.000 | 94 | 62 | na | 0.000 | 1.000 | 1.000 |
| Received BCG vaccination | 0.986 | 0.014 | 94 | 62 | 1.145 | 0.014 | 0.958 | 1.014 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.933 | 0.027 | 94 | 62 | 1.048 | 0.029 | 0.878 | 0.988 |
| Received pneumococcal vaccination (3 doses) | 0.945 | 0.025 | 94 | 62 | 1.071 | 0.027 | 0.894 | 0.996 |
| Received measles and rubella 1 vaccination | 0.909 | 0.026 | 94 | 62 | 0.862 | 0.028 | 0.858 | 0.961 |
| Fully vaccinated according to national schedule (12-23 months) | 0.652 | 0.059 | 94 | 62 | 1.177 | 0.090 | 0.535 | 0.769 |
| Received measles and rubella 2 vaccination | 0.810 | 0.044 | 86 | 56 | 1.016 | 0.054 | 0.723 | 0.898 |
| Fully vaccinated according to national schedule (24-35 months) | 0.492 | 0.045 | 86 | 56 | 0.815 | 0.092 | 0.402 | 0.582 |
| Sought treatment for diarrhoea | 0.365 | 0.097 | 34 | 23 | 1.110 | 0.266 | 0.171 | 0.560 |
| Treated with ORS | 0.360 | 0.085 | 34 | 23 | 0.968 | 0.235 | 0.191 | 0.529 |
| Height-for-age (-3 SD) | 0.052 | 0.015 | 212 | 136 | 0.972 | 0.297 | 0.021 | 0.082 |
| Height-for-age (-2 SD) | 0.170 | 0.031 | 212 | 136 | 1.121 | 0.183 | 0.107 | 0.232 |
| Weight-for-height (-2 SD) | 0.040 | 0.018 | 210 | 135 | 1.329 | 0.457 | 0.003 | 0.076 |
| Weight-for-height (+2 SD) | 0.039 | 0.017 | 210 | 135 | 1.250 | 0.433 | 0.005 | 0.072 |
| Weight-for-age (-2 SD) | 0.110 | 0.025 | 212 | 136 | 1.071 | 0.222 | 0.061 | 0.159 |

Table B.13-Continued

| Variable | Value <br> (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted <br> (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.579 | 0.066 | 37 | 25 | 0.801 | 0.113 | 0.447 | 0.710 |
| Minimum dietary diversity (children 6-23 months) | 0.388 | 0.043 | 126 | 85 | 0.998 | 0.112 | 0.302 | 0.475 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.401 | 0.043 | 193 | 124 | 1.161 | 0.108 | 0.314 | 0.488 |
| Body mass index (BMI) <18.5 | 0.041 | 0.010 | 318 | 218 | 0.939 | 0.255 | 0.020 | 0.062 |
| Body mass index (BMI) $\geq 25.0$ | 0.500 | 0.040 | 318 | 218 | 1.422 | 0.080 | 0.420 | 0.580 |
| Body mass index-for-age (-2 SD) | 0.041 | 0.023 | 83 | 58 | 1.044 | 0.560 | 0.000 | 0.086 |
| Body mass index-for-age (+1 SD) | 0.082 | 0.032 | 83 | 58 | 1.045 | 0.386 | 0.019 | 0.146 |
| Minimum dietary diversity (women 15-49) | 0.448 | 0.038 | 835 | 567 | 2.182 | 0.084 | 0.373 | 0.523 |
| Prevalence of any anaemia (women 15-49) | 0.301 | 0.035 | 432 | 297 | 1.585 | 0.116 | 0.231 | 0.371 |
| Child slept under an ITN last night | 0.595 | 0.035 | 436 | 282 | 1.390 | 0.059 | 0.525 | 0.666 |
| Pregnant women slept under an ITN last night | 0.561 | 0.080 | 56 | 37 | 1.209 | 0.142 | 0.402 | 0.721 |
| Received 3+ doses of SP/Fansidar | 0.666 | 0.038 | 167 | 113 | 1.027 | 0.056 | 0.591 | 0.741 |
| Child had fever in last 2 weeks | 0.093 | 0.018 | 415 | 277 | 1.271 | 0.194 | 0.057 | 0.130 |
| Child had blood taken from finger/heel | 0.572 | 0.094 | 40 | 26 | 1.176 | 0.164 | 0.384 | 0.760 |
| Child took ACT | 0.802 | 0.069 | 26 | 17 | 0.880 | 0.086 | 0.664 | 0.941 |
| Child has malaria (based on rapid test) | 0.151 | 0.044 | 193 | 124 | 1.515 | 0.289 | 0.064 | 0.239 |
| Child has malaria (based on microscopy test) | 0.099 | 0.029 | 193 | 124 | 1.159 | 0.291 | 0.041 | 0.157 |
| Discriminatory attitudes towards people with HIV | 0.705 | 0.033 | 808 | 549 | 2.069 | 0.047 | 0.638 | 0.771 |
| Condom use at last sex | 0.088 | 0.017 | 233 | 159 | 0.918 | 0.194 | 0.054 | 0.122 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.158 | 0.016 | 835 | 567 | 1.301 | 0.104 | 0.126 | 0.191 |
| Mobile phone ownership | 0.819 | 0.018 | 835 | 567 | 1.352 | 0.022 | 0.783 | 0.855 |
| Have and use a bank account or mobile phone for financial transactions | 0.774 | 0.023 | 835 | 567 | 1.607 | 0.030 | 0.727 | 0.821 |
| Participate in decision making (all three decisions) | 0.713 | 0.034 | 424 | 284 | 1.548 | 0.048 | 0.644 | 0.781 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.172 | 0.025 | 835 | 567 | 1.913 | 0.146 | 0.122 | 0.222 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.617 | 0.032 | 424 | 284 | 1.371 | 0.053 | 0.553 | 0.682 |
| Experienced physical violence since age 15 by any perpetrator | 0.262 | 0.033 | 327 | 224 | 1.346 | 0.125 | 0.197 | 0.328 |
| Experienced sexual violence by any perpetrator ever | 0.092 | 0.023 | 327 | 224 | 1.426 | 0.249 | 0.046 | 0.137 |
| Experienced sexual violence by any non-intimate partner | 0.067 | 0.020 | 327 | 224 | 1.457 | 0.302 | 0.026 | 0.107 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.150 | 0.023 | 284 | 184 | 1.065 | 0.151 | 0.104 | 0.195 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.183 | 0.026 | 284 | 184 | 1.135 | 0.143 | 0.131 | 0.235 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.076 | 0.025 | 324 | 222 | 1.667 | 0.324 | 0.027 | 0.125 |
| Secondary education or higher | 0.811 | 0.031 | 324 | 222 | 1.428 | 0.038 | 0.749 | 0.873 |
| Literacy | 0.761 | 0.033 | 324 | 222 | 1.384 | 0.043 | 0.696 | 0.827 |
| Use of the internet in last 12 months | 0.620 | 0.043 | 324 | 222 | 1.577 | 0.069 | 0.535 | 0.706 |
| Current tobacco use | 0.033 | 0.009 | 324 | 222 | 0.918 | 0.276 | 0.015 | 0.051 |
| Want no more children | 0.237 | 0.032 | 130 | 87 | 0.853 | 0.135 | 0.173 | 0.300 |
| Discriminatory attitudes towards people with HIV | 0.670 | 0.023 | 316 | 217 | 0.851 | 0.034 | 0.624 | 0.715 |
| Condom use at last sex | 0.260 | 0.043 | 123 | 87 | 1.081 | 0.165 | 0.174 | 0.346 |
| Ever tested for HIV and received results of last test | 0.105 | 0.017 | 324 | 222 | 0.981 | 0.159 | 0.072 | 0.139 |
| Male circumcision | 0.906 | 0.026 | 324 | 222 | 1.578 | 0.028 | 0.855 | 0.957 |
| Mobile phone ownership | 0.841 | 0.018 | 324 | 222 | 0.879 | 0.021 | 0.805 | 0.877 |
| Have and use a bank account or mobile phone for financial transactions | 0.777 | 0.031 | 324 | 222 | 1.343 | 0.040 | 0.715 | 0.840 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.159 | 0.026 | 324 | 222 | 1.258 | 0.161 | 0.108 | 0.210 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 14 Sampling errors: Bono East sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.074 | 0.015 | 4,362 | 2,831 | 1.995 | 0.197 | 0.045 | 0.103 |
| Births registered with civil authority | 0.827 | 0.024 | 657 | 426 | 1.354 | 0.030 | 0.778 | 0.876 |
| Ownership of at least one ITN | 0.752 | 0.019 | 1,054 | 693 | 1.422 | 0.025 | 0.714 | 0.789 |
| Ownership of at least one ITN for every two persons | 0.507 | 0.024 | 1,051 | 691 | 1.545 | 0.047 | 0.460 | 0.555 |
| At least basic drinking water service | 0.783 | 0.054 | 4,362 | 2,831 | 3.290 | 0.069 | 0.675 | 0.892 |
| Water available when needed | 0.851 | 0.024 | 4,362 | 2,831 | 1.767 | 0.028 | 0.804 | 0.898 |
| At least basic sanitation service | 0.186 | 0.030 | 4,362 | 2,831 | 2.092 | 0.163 | 0.125 | 0.247 |
| Using open defecation | 0.440 | 0.069 | 4,362 | 2,831 | 3.611 | 0.156 | 0.303 | 0.578 |
| Using a handwashing facility with soap and water | 0.325 | 0.028 | 4,285 | 2,784 | 1.588 | 0.088 | 0.268 | 0.382 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.240 | 0.028 | 974 | 676 | 2.067 | 0.118 | 0.183 | 0.296 |
| Secondary education or higher | 0.578 | 0.036 | 974 | 676 | 2.256 | 0.062 | 0.507 | 0.650 |
| Literacy | 0.449 | 0.031 | 974 | 676 | 1.954 | 0.069 | 0.387 | 0.512 |
| Use of the internet in last 12 months | 0.305 | 0.031 | 974 | 676 | 2.072 | 0.100 | 0.244 | 0.366 |
| Current tobacco use | 0.005 | 0.002 | 974 | 676 | 1.120 | 0.521 | 0.000 | 0.010 |
| Total fertility rate (3 years) | 4.715 | 0.303 | 2,740 | 1,906 | 1.322 | 0.064 | 4.110 | 5.320 |
| Currently pregnant | 0.062 | 0.009 | 974 | 676 | 1.160 | 0.145 | 0.044 | 0.080 |
| Mean number of children ever born to women age 40-49 | 4.894 | 0.317 | 174 | 121 | 1.766 | 0.065 | 4.261 | 5.528 |
| Median birth interval | 39.882 | 1.588 | 505 | 344 | 1.366 | 0.040 | 36.706 | 43.057 |
| Ideal number of children | 4.876 | 0.138 | 968 | 671 | 2.128 | 0.028 | 4.600 | 5.151 |
| Total wanted fertility rate (3 years) | 4.268 | 0.279 | 2,740 | 1,906 | 1.302 | 0.065 | 3.709 | 4.827 |
| Currently using any contraceptive method | 0.221 | 0.027 | 548 | 376 | 1.500 | 0.120 | 0.168 | 0.274 |
| Currently using any modern method | 0.207 | 0.026 | 548 | 376 | 1.505 | 0.126 | 0.155 | 0.259 |
| Currently using pill | 0.045 | 0.011 | 548 | 376 | 1.252 | 0.247 | 0.023 | 0.067 |
| Currently using injectables | 0.070 | 0.012 | 548 | 376 | 1.063 | 0.165 | 0.047 | 0.093 |
| Currently using implants | 0.062 | 0.013 | 548 | 376 | 1.289 | 0.215 | 0.035 | 0.088 |
| Currently using male condoms | 0.005 | 0.003 | 548 | 376 | 1.088 | 0.691 | 0.000 | 0.011 |
| Currently using any traditional method | 0.014 | 0.006 | 548 | 376 | 1.087 | 0.384 | 0.003 | 0.025 |
| Unmet need for spacing | 0.182 | 0.019 | 548 | 376 | 1.121 | 0.102 | 0.145 | 0.219 |
| Unmet need for limiting | 0.114 | 0.016 | 548 | 376 | 1.157 | 0.138 | 0.082 | 0.145 |
| Unmet need total | 0.296 | 0.024 | 548 | 376 | 1.216 | 0.080 | 0.249 | 0.344 |
| Demand satisfied by modern methods | 0.400 | 0.042 | 283 | 194 | 1.444 | 0.105 | 0.315 | 0.484 |
| Demand satisfied by modern methods (all women) | 0.423 | 0.031 | 409 | 282 | 1.281 | 0.074 | 0.360 | 0.485 |
| Participation in decision making about family planning | 0.771 | 0.042 | 548 | 376 | 2.331 | 0.054 | 0.687 | 0.855 |
| Not exposed to any of the eight media sources | 0.455 | 0.039 | 974 | 676 | 2.426 | 0.085 | 0.377 | 0.533 |
| Neonatal mortality (last 0-9 years) | 24.375 | 4.790 | 1,220 | 833 | 1.049 | 0.197 | 14.795 | 33.954 |
| Postneonatal mortality (last 0-9 years) | 12.087 | 2.526 | 1,225 | 836 | 0.815 | 0.209 | 7.034 | 17.139 |
| Infant mortality (last 0-9 years) | 36.461 | 6.387 | 1,221 | 834 | 1.141 | 0.175 | 23.688 | 49.235 |
| Child mortality (last 0-9 years) | 11.695 | 3.140 | 1,221 | 832 | 0.951 | 0.268 | 5.415 | 17.974 |
| Under-5 mortality (last 0-9 years) | 47.729 | 7.335 | 1,227 | 837 | 1.160 | 0.154 | 33.059 | 62.400 |
| Perinatal mortality rate | 23.322 | 6.293 | 665 | 456 | 1.038 | 0.270 | 10.737 | 35.908 |
| Stillbirth rate | 8.036 | 3.689 | 665 | 456 | 0.941 | 0.459 | 0.659 | 15.413 |
| Early neonatal mortality rate | 15.410 | 5.038 | 659 | 452 | 1.057 | 0.327 | 5.334 | 25.485 |
| Received ANC from a skilled provider | 0.992 | 0.006 | 278 | 191 | 1.014 | 0.006 | 0.980 | 1.003 |
| 4+ ANC visits | 0.856 | 0.028 | 278 | 191 | 1.331 | 0.033 | 0.799 | 0.912 |
| 8+ ANC visits | 0.337 | 0.038 | 278 | 191 | 1.334 | 0.112 | 0.262 | 0.413 |
| Took any iron-containing supplements | 0.866 | 0.032 | 278 | 191 | 1.548 | 0.037 | 0.803 | 0.930 |
| Mothers protected against tetanus for last birth | 0.631 | 0.055 | 278 | 191 | 1.891 | 0.087 | 0.521 | 0.741 |
| Delivered in a health facility (live births) | 0.862 | 0.034 | 294 | 202 | 1.665 | 0.039 | 0.794 | 0.929 |
| Delivered by a skilled provider (live births) | 0.876 | 0.030 | 294 | 202 | 1.555 | 0.034 | 0.815 | 0.936 |
| Delivered by C-section (live births) | 0.228 | 0.030 | 294 | 202 | 1.167 | 0.130 | 0.169 | 0.288 |
| Women with postnatal check during first 2 days | 0.856 | 0.029 | 278 | 191 | 1.380 | 0.034 | 0.797 | 0.914 |
| Newborns with postnatal check during first 2 days | 0.869 | 0.031 | 278 | 191 | 1.521 | 0.036 | 0.808 | 0.931 |
| Any problem accessing health care | 0.590 | 0.044 | 974 | 676 | 2.798 | 0.075 | 0.501 | 0.678 |
| Ever had vaccination card | 0.987 | 0.009 | 154 | 106 | 0.973 | 0.009 | 0.969 | 1.005 |
| Received BCG vaccination | 0.977 | 0.012 | 154 | 106 | 1.001 | 0.013 | 0.952 | 1.001 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.897 | 0.025 | 154 | 106 | 0.997 | 0.027 | 0.848 | 0.946 |
| Received pneumococcal vaccination (3 doses) | 0.904 | 0.026 | 154 | 106 | 1.071 | 0.028 | 0.853 | 0.955 |
| Received measles and rubella 1 vaccination | 0.919 | 0.025 | 154 | 106 | 1.146 | 0.028 | 0.868 | 0.969 |
| Fully vaccinated according to national schedule (12-23 months) | 0.555 | 0.045 | 154 | 106 | 1.096 | 0.081 | 0.465 | 0.645 |
| Received measles and rubella 2 vaccination | 0.711 | 0.045 | 111 | 77 | 1.021 | 0.063 | 0.620 | 0.801 |
| Fully vaccinated according to national schedule (24-35 months) | 0.417 | 0.053 | 111 | 77 | 1.104 | 0.127 | 0.312 | 0.523 |
| Sought treatment for diarrhoea | 0.482 | 0.060 | 99 | 67 | 1.168 | 0.125 | 0.362 | 0.603 |
| Treated with ORS | 0.399 | 0.059 | 99 | 67 | 1.152 | 0.149 | 0.280 | 0.518 |
| Height-for-age (-3 SD) | 0.026 | 0.011 | 323 | 208 | 1.170 | 0.444 | 0.003 | 0.048 |
| Height-for-age (-2 SD) | 0.139 | 0.020 | 323 | 208 | 0.951 | 0.145 | 0.098 | 0.179 |
| Weight-for-height (-2 SD) | 0.051 | 0.014 | 322 | 207 | 1.105 | 0.275 | 0.023 | 0.079 |
| Weight-for-height (+2 SD) | 0.009 | 0.005 | 322 | 207 | 0.979 | 0.586 | 0.000 | 0.019 |
| Weight-for-age (-2 SD) | 0.111 | 0.020 | 323 | 208 | 1.060 | 0.176 | 0.072 | 0.151 |

Table B.14-Continued

| Variable | Value <br> (R) | Standarderror(SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted <br> (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.656 | 0.063 | 65 | 46 | 1.064 | 0.096 | 0.530 | 0.783 |
| Minimum dietary diversity (children 6-23 months) | 0.322 | 0.045 | 202 | 137 | 1.356 | 0.139 | 0.233 | 0.412 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.514 | 0.042 | 287 | 185 | 1.336 | 0.083 | 0.429 | 0.599 |
| Body mass index (BMI) <18.5 | 0.057 | 0.012 | 344 | 239 | 0.920 | 0.202 | 0.034 | 0.080 |
| Body mass index (BMI) $\geq 25.0$ | 0.398 | 0.028 | 344 | 239 | 1.069 | 0.071 | 0.342 | 0.455 |
| Body mass index-for-age (-2 SD) | 0.062 | 0.027 | 85 | 58 | 1.013 | 0.430 | 0.009 | 0.115 |
| Body mass index-for-age (+1 SD) | 0.069 | 0.026 | 85 | 58 | 0.941 | 0.377 | 0.017 | 0.121 |
| Minimum dietary diversity (women 15-49) | 0.373 | 0.023 | 974 | 676 | 1.493 | 0.062 | 0.327 | 0.419 |
| Prevalence of any anaemia (women 15-49) | 0.403 | 0.027 | 474 | 327 | 1.218 | 0.068 | 0.348 | 0.458 |
| Child slept under an ITN last night | 0.629 | 0.028 | 662 | 429 | 1.159 | 0.045 | 0.572 | 0.685 |
| Pregnant women slept under an ITN last night | 0.634 | 0.071 | 62 | 40 | 1.110 | 0.111 | 0.493 | 0.775 |
| Received 3+ doses of SP/Fansidar | 0.651 | 0.032 | 278 | 191 | 1.130 | 0.050 | 0.587 | 0.716 |
| Child had fever in last 2 weeks | 0.136 | 0.017 | 636 | 437 | 1.186 | 0.125 | 0.102 | 0.170 |
| Child had blood taken from finger/heel | 0.534 | 0.067 | 87 | 59 | 1.207 | 0.126 | 0.400 | 0.669 |
| Child took ACT | 0.869 | 0.071 | 45 | 32 | 1.434 | 0.082 | 0.726 | 1.012 |
| Child has malaria (based on rapid test) | 0.221 | 0.028 | 287 | 185 | 1.022 | 0.125 | 0.165 | 0.276 |
| Child has malaria (based on microscopy test) | 0.121 | 0.022 | 287 | 185 | 0.958 | 0.185 | 0.076 | 0.166 |
| Discriminatory attitudes towards people with HIV | 0.724 | 0.032 | 871 | 613 | 2.096 | 0.044 | 0.660 | 0.787 |
| Condom use at last sex | 0.104 | 0.021 | 222 | 156 | 1.012 | 0.200 | 0.062 | 0.145 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.122 | 0.012 | 974 | 676 | 1.185 | 0.102 | 0.097 | 0.147 |
| Mobile phone ownership | 0.753 | 0.020 | 974 | 676 | 1.441 | 0.026 | 0.713 | 0.793 |
| Have and use a bank account or mobile phone for financial transactions | 0.613 | 0.033 | 974 | 676 | 2.091 | 0.053 | 0.548 | 0.679 |
| Participate in decision making (all three decisions) | 0.574 | 0.046 | 548 | 376 | 2.191 | 0.081 | 0.481 | 0.667 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.190 | 0.042 | 974 | 676 | 3.360 | 0.224 | 0.105 | 0.275 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.509 | 0.035 | 548 | 376 | 1.645 | 0.069 | 0.438 | 0.579 |
| Experienced physical violence since age 15 by any perpetrator | 0.257 | 0.028 | 360 | 240 | 1.224 | 0.110 | 0.200 | 0.313 |
| Experienced sexual violence by any perpetrator ever | 0.074 | 0.014 | 360 | 240 | 1.037 | 0.194 | 0.045 | 0.102 |
| Experienced sexual violence by any non-intimate partner | 0.028 | 0.010 | 360 | 240 | 1.110 | 0.347 | 0.008 | 0.047 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.166 | 0.024 | 317 | 204 | 1.148 | 0.145 | 0.118 | 0.214 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.246 | 0.032 | 317 | 204 | 1.317 | 0.130 | 0.182 | 0.310 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.242 | 0.039 | 461 | 316 | 1.959 | 0.162 | 0.163 | 0.320 |
| Secondary education or higher | 0.631 | 0.047 | 461 | 316 | 2.088 | 0.075 | 0.537 | 0.725 |
| Literacy | 0.643 | 0.044 | 461 | 316 | 1.974 | 0.069 | 0.555 | 0.732 |
| Use of the internet in last 12 months | 0.528 | 0.039 | 461 | 316 | 1.657 | 0.073 | 0.451 | 0.605 |
| Current tobacco use | 0.020 | 0.009 | 461 | 316 | 1.315 | 0.431 | 0.003 | 0.037 |
| Want no more children | 0.201 | 0.030 | 209 | 143 | 1.087 | 0.150 | 0.141 | 0.262 |
| Discriminatory attitudes towards people with HIV | 0.754 | 0.031 | 431 | 299 | 1.476 | 0.041 | 0.693 | 0.815 |
| Condom use at last sex | 0.260 | 0.054 | 151 | 106 | 1.515 | 0.210 | 0.151 | 0.369 |
| Ever tested for HIV and received results of last test | 0.092 | 0.016 | 461 | 316 | 1.176 | 0.173 | 0.060 | 0.123 |
| Male circumcision | 0.944 | 0.016 | 461 | 316 | 1.456 | 0.017 | 0.912 | 0.975 |
| Mobile phone ownership | 0.866 | 0.022 | 461 | 316 | 1.395 | 0.026 | 0.822 | 0.911 |
| Have and use a bank account or mobile phone for financial transactions | 0.619 | 0.046 | 461 | 316 | 2.036 | 0.075 | 0.526 | 0.711 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.100 | 0.024 | 461 | 316 | 1.686 | 0.237 | 0.052 | 0.147 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 15 Sampling errors: Oti sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.047 | 0.009 | 4,470 | 1,937 | 1.520 | 0.196 | 0.029 | 0.065 |
| Births registered with civil authority | 0.605 | 0.042 | 634 | 281 | 1.850 | 0.069 | 0.521 | 0.688 |
| Ownership of at least one ITN | 0.851 | 0.015 | 1,048 | 444 | 1.355 | 0.018 | 0.822 | 0.881 |
| Ownership of at least one ITN for every two persons | 0.601 | 0.021 | 1,041 | 441 | 1.393 | 0.035 | 0.559 | 0.643 |
| At least basic drinking water service | 0.578 | 0.068 | 4,470 | 1,937 | 3.655 | 0.117 | 0.442 | 0.713 |
| Water available when needed | 0.688 | 0.045 | 4,470 | 1,937 | 2.510 | 0.065 | 0.599 | 0.778 |
| At least basic sanitation service | 0.139 | 0.021 | 4,470 | 1,937 | 1.647 | 0.153 | 0.097 | 0.182 |
| Using open defecation | 0.506 | 0.061 | 4,470 | 1,937 | 3.277 | 0.120 | 0.384 | 0.627 |
| Using a handwashing facility with soap and water | 0.264 | 0.042 | 4,464 | 1,935 | 2.611 | 0.160 | 0.180 | 0.349 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.282 | 0.034 | 921 | 403 | 2.273 | 0.120 | 0.214 | 0.349 |
| Secondary education or higher | 0.489 | 0.038 | 921 | 403 | 2.319 | 0.078 | 0.412 | 0.565 |
| Literacy | 0.408 | 0.030 | 921 | 403 | 1.871 | 0.074 | 0.347 | 0.468 |
| Use of the internet in last 12 months | 0.178 | 0.020 | 921 | 403 | 1.563 | 0.111 | 0.138 | 0.217 |
| Current tobacco use | 0.001 | 0.001 | 921 | 403 | 1.010 | 1.006 | 0.000 | 0.003 |
| Total fertility rate (3 years) | 5.197 | 0.347 | 2,548 | 1,122 | 1.412 | 0.067 | 4.502 | 5.891 |
| Currently pregnant | 0.083 | 0.011 | 921 | 403 | 1.216 | 0.133 | 0.061 | 0.106 |
| Mean number of children ever born to women age 40-49 | 5.703 | 0.244 | 180 | 81 | 1.347 | 0.043 | 5.216 | 6.190 |
| Median birth interval | 39.512 | 1.845 | 473 | 220 | 1.457 | 0.047 | 35.822 | 43.202 |
| Ideal number of children | 5.157 | 0.155 | 888 | 386 | 2.276 | 0.030 | 4.847 | 5.468 |
| Total wanted fertility rate (3 years) | 4.634 | 0.219 | 2,548 | 1,122 | 1.024 | 0.047 | 4.196 | 5.072 |
| Currently using any contraceptive method | 0.320 | 0.029 | 547 | 248 | 1.448 | 0.090 | 0.262 | 0.378 |
| Currently using any modern method | 0.285 | 0.027 | 547 | 248 | 1.394 | 0.095 | 0.231 | 0.339 |
| Currently using pill | 0.068 | 0.012 | 547 | 248 | 1.068 | 0.169 | 0.045 | 0.091 |
| Currently using injectables | 0.073 | 0.015 | 547 | 248 | 1.338 | 0.204 | 0.043 | 0.103 |
| Currently using implants | 0.070 | 0.015 | 547 | 248 | 1.392 | 0.218 | 0.039 | 0.100 |
| Currently using male condoms | 0.008 | 0.004 | 547 | 248 | 0.991 | 0.467 | 0.001 | 0.016 |
| Currently using any traditional method | 0.035 | 0.009 | 547 | 248 | 1.111 | 0.249 | 0.018 | 0.053 |
| Unmet need for spacing | 0.186 | 0.021 | 547 | 248 | 1.256 | 0.112 | 0.144 | 0.228 |
| Unmet need for limiting | 0.071 | 0.013 | 547 | 248 | 1.212 | 0.188 | 0.044 | 0.098 |
| Unmet need total | 0.257 | 0.022 | 547 | 248 | 1.160 | 0.084 | 0.214 | 0.301 |
| Demand satisfied by modern methods | 0.494 | 0.038 | 319 | 143 | 1.352 | 0.077 | 0.417 | 0.570 |
| Demand satisfied by modern methods (all women) | 0.496 | 0.031 | 438 | 192 | 1.309 | 0.063 | 0.433 | 0.558 |
| Participation in decision making about family planning | 0.818 | 0.023 | 547 | 248 | 1.367 | 0.028 | 0.773 | 0.863 |
| Not exposed to any of the eight media sources | 0.366 | 0.034 | 921 | 403 | 2.116 | 0.092 | 0.298 | 0.433 |
| Neonatal mortality (last 0-9 years) | 32.022 | 5.479 | 1,212 | 559 | 1.048 | 0.171 | 21.065 | 42.980 |
| Postneonatal mortality (last 0-9 years) | 12.324 | 3.267 | 1,208 | 557 | 0.978 | 0.265 | 5.789 | 18.858 |
| Infant mortality (last 0-9 years) | 44.346 | 5.991 | 1,212 | 559 | 0.989 | 0.135 | 32.364 | 56.328 |
| Child mortality (last 0-9 years) | 29.446 | 5.373 | 1,193 | 550 | 1.004 | 0.182 | 18.701 | 40.192 |
| Under-5 mortality (last 0-9 years) | 72.487 | 6.898 | 1,223 | 564 | 0.895 | 0.095 | 58.690 | 86.284 |
| Perinatal mortality rate | 39.187 | 7.858 | 640 | 293 | 0.994 | 0.201 | 23.472 | 54.903 |
| Stillbirth rate | 15.781 | 4.447 | 640 | 293 | 0.868 | 0.282 | 6.887 | 24.675 |
| Early neonatal mortality rate | 23.666 | 5.683 | 632 | 290 | 0.916 | 0.240 | 12.301 | 35.031 |
| Received ANC from a skilled provider | 0.974 | 0.010 | 269 | 123 | 1.073 | 0.011 | 0.954 | 0.995 |
| 4+ ANC visits | 0.757 | 0.047 | 269 | 123 | 1.793 | 0.062 | 0.662 | 0.851 |
| 8+ ANC visits | 0.249 | 0.038 | 269 | 123 | 1.445 | 0.153 | 0.173 | 0.326 |
| Took any iron-containing supplements | 0.954 | 0.013 | 269 | 123 | 1.011 | 0.014 | 0.928 | 0.980 |
| Mothers protected against tetanus for last birth | 0.713 | 0.030 | 269 | 123 | 1.092 | 0.042 | 0.652 | 0.773 |
| Delivered in a health facility (live births) | 0.671 | 0.044 | 281 | 128 | 1.546 | 0.066 | 0.583 | 0.759 |
| Delivered by a skilled provider (live births) | 0.703 | 0.042 | 281 | 128 | 1.520 | 0.060 | 0.618 | 0.787 |
| Delivered by C-section (live births) | 0.121 | 0.022 | 281 | 128 | 1.086 | 0.181 | 0.077 | 0.164 |
| Women with postnatal check during first 2 days | 0.768 | 0.038 | 269 | 123 | 1.482 | 0.050 | 0.691 | 0.844 |
| Newborns with postnatal check during first 2 days | 0.756 | 0.040 | 269 | 123 | 1.535 | 0.053 | 0.676 | 0.837 |
| Any problem accessing health care | 0.642 | 0.026 | 921 | 403 | 1.663 | 0.041 | 0.589 | 0.695 |
| Ever had vaccination card | 0.995 | 0.005 | 124 | 56 | 0.809 | 0.005 | 0.984 | 1.005 |
| Received BCG vaccination | 0.949 | 0.019 | 124 | 56 | 0.979 | 0.020 | 0.910 | 0.988 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.915 | 0.033 | 124 | 56 | 1.314 | 0.036 | 0.849 | 0.981 |
| Received pneumococcal vaccination (3 doses) | 0.884 | 0.035 | 124 | 56 | 1.220 | 0.040 | 0.813 | 0.954 |
| Received measles and rubella 1 vaccination | 0.874 | 0.034 | 124 | 56 | 1.129 | 0.039 | 0.807 | 0.942 |
| Fully vaccinated according to national schedule (12-23 months) | 0.533 | 0.066 | 124 | 56 | 1.431 | 0.124 | 0.401 | 0.665 |
| Received measles and rubella 2 vaccination | 0.820 | 0.036 | 99 | 48 | 0.957 | 0.043 | 0.749 | 0.891 |
| Fully vaccinated according to national schedule (24-35 months) | 0.492 | 0.063 | 99 | 48 | 1.288 | 0.127 | 0.366 | 0.617 |
| Sought treatment for diarrhoea | 0.691 | 0.059 | 90 | 40 | 1.121 | 0.085 | 0.574 | 0.808 |
| Treated with ORS | 0.400 | 0.045 | 90 | 40 | 0.851 | 0.114 | 0.309 | 0.490 |
| Height-for-age (-3 SD) | 0.033 | 0.012 | 300 | 134 | 1.148 | 0.348 | 0.010 | 0.056 |
| Height-for-age (-2 SD) | 0.203 | 0.033 | 300 | 134 | 1.437 | 0.161 | 0.137 | 0.268 |
| Weight-for-height (-2 SD) | 0.073 | 0.017 | 299 | 134 | 1.167 | 0.229 | 0.040 | 0.107 |
| Weight-for-height (+2 SD) | 0.003 | 0.003 | 299 | 134 | 0.945 | 0.998 | 0.000 | 0.009 |
| Weight-for-age (-2 SD) | 0.155 | 0.032 | 300 | 134 | 1.502 | 0.205 | 0.092 | 0.219 |

Table B.15-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> ( N ) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.717 | 0.057 | 80 | 36 | 1.125 | 0.080 | 0.602 | 0.831 |
| Minimum dietary diversity (children 6-23 months) | 0.402 | 0.055 | 178 | 82 | 1.478 | 0.136 | 0.293 | 0.512 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.606 | 0.041 | 263 | 119 | 1.429 | 0.068 | 0.523 | 0.689 |
| Body mass index (BMI) <18.5 | 0.054 | 0.016 | 308 | 136 | 1.233 | 0.296 | 0.022 | 0.085 |
| Body mass index (BMI) $\geq 25.0$ | 0.321 | 0.032 | 308 | 136 | 1.198 | 0.099 | 0.257 | 0.385 |
| Body mass index-for-age (-2 SD) | 0.010 | 0.010 | 91 | 37 | 0.944 | 0.994 | 0.000 | 0.030 |
| Body mass index-for-age (+1 SD) | 0.117 | 0.035 | 91 | 37 | 1.032 | 0.299 | 0.047 | 0.187 |
| Minimum dietary diversity (women 15-49) | 0.408 | 0.036 | 921 | 403 | 2.221 | 0.088 | 0.336 | 0.481 |
| Prevalence of any anaemia (women 15-49) | 0.518 | 0.025 | 444 | 194 | 1.068 | 0.049 | 0.467 | 0.569 |
| Child slept under an ITN last night | 0.701 | 0.026 | 633 | 279 | 1.242 | 0.038 | 0.648 | 0.754 |
| Pregnant women slept under an ITN last night | 0.659 | 0.076 | 73 | 33 | 1.407 | 0.115 | 0.507 | 0.811 |
| Received 3+ doses of SP/Fansidar | 0.519 | 0.043 | 269 | 123 | 1.411 | 0.083 | 0.433 | 0.605 |
| Child had fever in last 2 weeks | 0.272 | 0.028 | 602 | 276 | 1.547 | 0.103 | 0.216 | 0.328 |
| Child had blood taken from finger/heel | 0.359 | 0.059 | 171 | 75 | 1.582 | 0.166 | 0.240 | 0.478 |
| Child took ACT | 0.730 | 0.059 | 93 | 40 | 1.212 | 0.081 | 0.611 | 0.848 |
| Child has malaria (based on rapid test) | 0.226 | 0.047 | 263 | 119 | 1.716 | 0.209 | 0.132 | 0.321 |
| Child has malaria (based on microscopy test) | 0.150 | 0.034 | 263 | 119 | 1.429 | 0.227 | 0.082 | 0.219 |
| Discriminatory attitudes towards people with HIV | 0.864 | 0.021 | 867 | 379 | 1.817 | 0.025 | 0.821 | 0.906 |
| Condom use at last sex | 0.058 | 0.013 | 202 | 84 | 0.811 | 0.231 | 0.031 | 0.084 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.164 | 0.012 | 921 | 403 | 0.988 | 0.074 | 0.140 | 0.188 |
| Mobile phone ownership | 0.666 | 0.024 | 921 | 403 | 1.568 | 0.037 | 0.617 | 0.715 |
| Have and use a bank account or mobile phone for financial transactions | 0.552 | 0.026 | 921 | 403 | 1.594 | 0.047 | 0.499 | 0.604 |
| Participate in decision making (all three decisions) | 0.479 | 0.032 | 547 | 248 | 1.472 | 0.066 | 0.416 | 0.542 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.241 | 0.025 | 921 | 403 | 1.770 | 0.104 | 0.191 | 0.291 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.505 | 0.036 | 547 | 248 | 1.659 | 0.070 | 0.434 | 0.576 |
| Experienced physical violence since age 15 by any perpetrator | 0.368 | 0.033 | 330 | 146 | 1.229 | 0.089 | 0.302 | 0.433 |
| Experienced sexual violence by any perpetrator ever | 0.189 | 0.028 | 330 | 146 | 1.280 | 0.146 | 0.134 | 0.244 |
| Experienced sexual violence by any non-intimate partner | 0.058 | 0.014 | 330 | 146 | 1.056 | 0.235 | 0.031 | 0.085 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.250 | 0.024 | 300 | 130 | 0.970 | 0.097 | 0.201 | 0.298 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.323 | 0.038 | 300 | 130 | 1.404 | 0.118 | 0.247 | 0.400 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.187 | 0.031 | 411 | 187 | 1.597 | 0.165 | 0.125 | 0.248 |
| Secondary education or higher | 0.610 | 0.050 | 411 | 187 | 2.066 | 0.082 | 0.510 | 0.710 |
| Literacy | 0.575 | 0.048 | 411 | 187 | 1.974 | 0.084 | 0.478 | 0.672 |
| Use of the internet in last 12 months | 0.494 | 0.030 | 411 | 187 | 1.196 | 0.060 | 0.435 | 0.553 |
| Current tobacco use | 0.038 | 0.012 | 411 | 187 | 1.248 | 0.311 | 0.014 | 0.061 |
| Want no more children | 0.234 | 0.040 | 190 | 87 | 1.291 | 0.170 | 0.155 | 0.314 |
| Discriminatory attitudes towards people with HIV | 0.815 | 0.024 | 402 | 183 | 1.217 | 0.029 | 0.768 | 0.862 |
| Condom use at last sex | 0.164 | 0.042 | 151 | 65 | 1.371 | 0.253 | 0.081 | 0.247 |
| Ever tested for HIV and received results of last test | 0.058 | 0.011 | 411 | 187 | 0.971 | 0.193 | 0.036 | 0.080 |
| Male circumcision | 0.909 | 0.030 | 411 | 187 | 2.138 | 0.033 | 0.848 | 0.970 |
| Mobile phone ownership | 0.836 | 0.020 | 411 | 187 | 1.078 | 0.024 | 0.796 | 0.875 |
| Have and use a bank account or mobile phone for financial transactions | 0.733 | 0.019 | 411 | 187 | 0.869 | 0.026 | 0.696 | 0.771 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.191 | 0.027 | 411 | 187 | 1.377 | 0.140 | 0.137 | 0.244 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 16 Sampling errors: Northern sample, Ghana DHS 2022

| Variable | Value(R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.082 | 0.018 | 5,830 | 5,493 | 2.288 | 0.216 | 0.047 | 0.118 |
| Births registered with civil authority | 0.769 | 0.041 | 1,017 | 957 | 2.379 | 0.053 | 0.688 | 0.851 |
| Ownership of at least one ITN | 0.676 | 0.029 | 1,137 | 1,064 | 2.078 | 0.043 | 0.618 | 0.734 |
| Ownership of at least one ITN for every two persons | 0.371 | 0.026 | 1,134 | 1,061 | 1.792 | 0.069 | 0.319 | 0.422 |
| At least basic drinking water service | 0.644 | 0.047 | 5,830 | 5,493 | 2.845 | 0.074 | 0.549 | 0.739 |
| Water available when needed | 0.679 | 0.038 | 5,830 | 5,493 | 2.330 | 0.055 | 0.604 | 0.755 |
| At least basic sanitation service | 0.129 | 0.021 | 5,830 | 5,493 | 1.937 | 0.163 | 0.087 | 0.171 |
| Using open defecation | 0.706 | 0.037 | 5,830 | 5,493 | 2.437 | 0.053 | 0.631 | 0.781 |
| Using a handwashing facility with soap and water | 0.198 | 0.029 | 5,771 | 5,450 | 2.086 | 0.144 | 0.141 | 0.256 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.534 | 0.031 | 1,169 | 1,149 | 2.096 | 0.057 | 0.473 | 0.595 |
| Secondary education or higher | 0.378 | 0.035 | 1,169 | 1,149 | 2.497 | 0.094 | 0.307 | 0.449 |
| Literacy | 0.341 | 0.035 | 1,169 | 1,149 | 2.488 | 0.101 | 0.272 | 0.410 |
| Use of the internet in last 12 months | 0.281 | 0.038 | 1,169 | 1,149 | 2.888 | 0.136 | 0.205 | 0.357 |
| Current tobacco use | 0.021 | 0.008 | 1,169 | 1,149 | 1.801 | 0.361 | 0.006 | 0.036 |
| Total fertility rate (3 years) | 5.556 | 0.323 | 3,341 | 3,276 | 1.370 | 0.058 | 4.910 | 6.201 |
| Currently pregnant | 0.096 | 0.011 | 1,169 | 1,149 | 1.282 | 0.115 | 0.074 | 0.118 |
| Mean number of children ever born to women age 40-49 | 5.921 | 0.280 | 201 | 200 | 1.603 | 0.047 | 5.362 | 6.481 |
| Median birth interval | 38.073 | 0.995 | 764 | 750 | 1.611 | 0.026 | 36.083 | 40.063 |
| Ideal number of children | 6.246 | 0.140 | 1,158 | 1,138 | 1.841 | 0.022 | 5.966 | 6.526 |
| Total wanted fertility rate (3 years) | 5.056 | 0.273 | 3,341 | 3,276 | 1.330 | 0.054 | 4.510 | 5.602 |
| Currently using any contraceptive method | 0.246 | 0.026 | 893 | 870 | 1.768 | 0.104 | 0.195 | 0.297 |
| Currently using any modern method | 0.172 | 0.016 | 893 | 870 | 1.295 | 0.095 | 0.139 | 0.204 |
| Currently using pill | 0.034 | 0.006 | 893 | 870 | 0.971 | 0.173 | 0.022 | 0.046 |
| Currently using injectables | 0.067 | 0.011 | 893 | 870 | 1.315 | 0.165 | 0.045 | 0.089 |
| Currently using implants | 0.044 | 0.009 | 893 | 870 | 1.282 | 0.199 | 0.027 | 0.062 |
| Currently using male condoms | 0.013 | 0.003 | 893 | 870 | 0.811 | 0.239 | 0.007 | 0.019 |
| Currently using any traditional method | 0.074 | 0.019 | 893 | 870 | 2.177 | 0.258 | 0.036 | 0.112 |
| Unmet need for spacing | 0.160 | 0.015 | 893 | 870 | 1.225 | 0.094 | 0.130 | 0.190 |
| Unmet need for limiting | 0.063 | 0.011 | 893 | 870 | 1.348 | 0.174 | 0.041 | 0.085 |
| Unmet need total | 0.223 | 0.018 | 893 | 870 | 1.312 | 0.082 | 0.186 | 0.259 |
| Demand satisfied by modern methods | 0.366 | 0.026 | 415 | 408 | 1.113 | 0.072 | 0.314 | 0.419 |
| Demand satisfied by modern methods (all women) | 0.379 | 0.024 | 512 | 503 | 1.136 | 0.064 | 0.330 | 0.427 |
| Participation in decision making about family planning | 0.701 | 0.042 | 893 | 870 | 2.733 | 0.060 | 0.617 | 0.785 |
| Not exposed to any of the eight media sources | 0.399 | 0.042 | 1,169 | 1,149 | 2.948 | 0.106 | 0.314 | 0.484 |
| Neonatal mortality (last 0-9 years) | 15.389 | 3.288 | 1,863 | 1,819 | 1.062 | 0.214 | 8.814 | 21.965 |
| Postneonatal mortality (last 0-9 years) | 10.034 | 2.941 | 1,856 | 1,812 | 1.218 | 0.293 | 4.152 | 15.917 |
| Infant mortality (last 0-9 years) | 25.424 | 4.793 | 1,864 | 1,820 | 1.178 | 0.189 | 15.837 | 35.010 |
| Child mortality (last 0-9 years) | 26.817 | 5.495 | 1,825 | 1,781 | 1.378 | 0.205 | 15.828 | 37.806 |
| Under-5 mortality (last 0-9 years) | 51.559 | 7.905 | 1,877 | 1,832 | 1.375 | 0.153 | 35.749 | 67.369 |
| Perinatal mortality rate | 33.446 | 5.673 | 991 | 969 | 0.967 | 0.170 | 22.100 | 44.792 |
| Stillbirth rate | 22.039 | 5.083 | 991 | 969 | 1.101 | 0.231 | 11.874 | 32.204 |
| Early neonatal mortality rate | 11.664 | 3.370 | 970 | 948 | 0.977 | 0.289 | 4.924 | 18.403 |
| Received ANC from a skilled provider | 0.964 | 0.016 | 408 | 395 | 1.702 | 0.016 | 0.932 | 0.995 |
| 4+ ANC visits | 0.808 | 0.045 | 408 | 395 | 2.319 | 0.056 | 0.717 | 0.899 |
| 8+ ANC visits | 0.277 | 0.049 | 408 | 395 | 2.194 | 0.177 | 0.179 | 0.375 |
| Took any iron-containing supplements | 0.830 | 0.027 | 408 | 395 | 1.436 | 0.032 | 0.776 | 0.883 |
| Mothers protected against tetanus for last birth | 0.667 | 0.037 | 408 | 395 | 1.595 | 0.056 | 0.592 | 0.742 |
| Delivered in a health facility (live births) | 0.703 | 0.058 | 420 | 406 | 2.513 | 0.082 | 0.588 | 0.819 |
| Delivered by a skilled provider (live births) | 0.716 | 0.058 | 420 | 406 | 2.563 | 0.081 | 0.600 | 0.832 |
| Delivered by C-section (live births) | 0.103 | 0.018 | 420 | 406 | 1.153 | 0.173 | 0.067 | 0.138 |
| Women with postnatal check during first 2 days | 0.727 | 0.045 | 408 | 395 | 2.009 | 0.061 | 0.638 | 0.816 |
| Newborns with postnatal check during first 2 days | 0.730 | 0.046 | 408 | 395 | 2.083 | 0.063 | 0.638 | 0.822 |
| Any problem accessing health care | 0.654 | 0.042 | 1,169 | 1,149 | 2.989 | 0.064 | 0.571 | 0.738 |
| Ever had vaccination card | 0.916 | 0.029 | 208 | 200 | 1.503 | 0.032 | 0.858 | 0.975 |
| Received BCG vaccination | 0.861 | 0.030 | 208 | 200 | 1.211 | 0.035 | 0.801 | 0.921 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.773 | 0.044 | 208 | 200 | 1.482 | 0.057 | 0.685 | 0.860 |
| Received pneumococcal vaccination (3 doses) | 0.757 | 0.042 | 208 | 200 | 1.402 | 0.056 | 0.672 | 0.841 |
| Received measles and rubella 1 vaccination | 0.726 | 0.044 | 208 | 200 | 1.391 | 0.060 | 0.638 | 0.813 |
| Fully vaccinated according to national schedule (12-23 months) | 0.312 | 0.041 | 208 | 200 | 1.258 | 0.132 | 0.230 | 0.394 |
| Received measles and rubella 2 vaccination | 0.565 | 0.042 | 171 | 168 | 1.076 | 0.074 | 0.481 | 0.649 |
| Fully vaccinated according to national schedule (24-35 months) | 0.185 | 0.029 | 171 | 168 | 0.964 | 0.156 | 0.127 | 0.242 |
| Sought treatment for diarrhoea | 0.687 | 0.040 | 167 | 173 | 1.069 | 0.058 | 0.607 | 0.767 |
| Treated with ORS | 0.481 | 0.070 | 167 | 173 | 1.753 | 0.145 | 0.342 | 0.620 |
| Height-for-age (-3 SD) | 0.088 | 0.015 | 503 | 477 | 1.064 | 0.165 | 0.059 | 0.117 |
| Height-for-age (-2 SD) | 0.296 | 0.025 | 503 | 477 | 1.174 | 0.083 | 0.247 | 0.345 |
| Weight-for-height (-2 SD) | 0.078 | 0.011 | 507 | 480 | 0.929 | 0.147 | 0.055 | 0.101 |
| Weight-for-height (+2 SD) | 0.007 | 0.004 | 507 | 480 | 1.155 | 0.601 | 0.000 | 0.016 |
| Weight-for-age (-2 SD) | 0.199 | 0.022 | 503 | 477 | 1.151 | 0.109 | 0.155 | 0.242 |

Table B.16-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.732 | 0.051 | 88 | 84 | 1.073 | 0.070 | 0.630 | 0.834 |
| Minimum dietary diversity (children 6-23 months) | 0.402 | 0.040 | 310 | 302 | 1.422 | 0.099 | 0.322 | 0.481 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin $<11.0 \mathrm{~g} / \mathrm{dl}$ ) | 0.694 | 0.024 | 452 | 430 | 1.062 | 0.035 | 0.645 | 0.742 |
| Body mass index (BMI) <18.5 | 0.088 | 0.019 | 435 | 428 | 1.372 | 0.212 | 0.051 | 0.126 |
| Body mass index (BMI) $\geq 25.0$ | 0.271 | 0.029 | 435 | 428 | 1.356 | 0.107 | 0.213 | 0.329 |
| Body mass index-for-age (-2 SD) | 0.055 | 0.027 | 68 | 67 | 0.957 | 0.486 | 0.001 | 0.108 |
| Body mass index-for-age (+1 SD) | 0.043 | 0.023 | 68 | 67 | 0.934 | 0.538 | 0.000 | 0.089 |
| Minimum dietary diversity (women 15-49) | 0.461 | 0.032 | 1,169 | 1,149 | 2.194 | 0.069 | 0.397 | 0.525 |
| Prevalence of any anaemia (women 15-49) | 0.484 | 0.020 | 582 | 568 | 0.973 | 0.042 | 0.443 | 0.524 |
| Child slept under an ITN last night | 0.439 | 0.048 | 1,016 | 955 | 2.399 | 0.109 | 0.343 | 0.535 |
| Pregnant women slept under an ITN last night | 0.533 | 0.060 | 118 | 106 | 1.235 | 0.112 | 0.413 | 0.653 |
| Received 3+ doses of SP/Fansidar | 0.444 | 0.043 | 408 | 395 | 1.742 | 0.097 | 0.358 | 0.530 |
| Child had fever in last 2 weeks | 0.216 | 0.031 | 944 | 923 | 2.240 | 0.145 | 0.153 | 0.278 |
| Child had blood taken from finger/heel | 0.330 | 0.045 | 191 | 199 | 1.350 | 0.135 | 0.241 | 0.420 |
| Child took ACT | 0.775 | 0.074 | 68 | 76 | 1.479 | 0.095 | 0.628 | 0.922 |
| Child has malaria (based on rapid test) | 0.188 | 0.023 | 452 | 430 | 1.108 | 0.123 | 0.142 | 0.233 |
| Child has malaria (based on microscopy test) | 0.106 | 0.016 | 452 | 430 | 1.016 | 0.155 | 0.073 | 0.139 |
| Discriminatory attitudes towards people with HIV | 0.857 | 0.021 | 803 | 803 | 1.727 | 0.025 | 0.815 | 0.900 |
| Condom use at last sex | 0.156 | 0.035 | 124 | 124 | 1.082 | 0.227 | 0.085 | 0.226 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.079 | 0.010 | 1,169 | 1,149 | 1.279 | 0.128 | 0.058 | 0.099 |
| Mobile phone ownership | 0.653 | 0.022 | 1,169 | 1,149 | 1.582 | 0.034 | 0.609 | 0.697 |
| Have and use a bank account or mobile phone for financial transactions | 0.488 | 0.032 | 1,169 | 1,149 | 2.188 | 0.066 | 0.424 | 0.552 |
| Participate in decision making (all three decisions) | 0.497 | 0.049 | 893 | 870 | 2.893 | 0.098 | 0.399 | 0.594 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.470 | 0.023 | 1,169 | 1,149 | 1.596 | 0.050 | 0.423 | 0.516 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.401 | 0.039 | 893 | 870 | 2.369 | 0.097 | 0.323 | 0.479 |
| Experienced physical violence since age 15 by any perpetrator | 0.339 | 0.038 | 407 | 420 | 1.634 | 0.113 | 0.262 | 0.416 |
| Experienced sexual violence by any perpetrator ever | 0.075 | 0.014 | 407 | 420 | 1.079 | 0.188 | 0.047 | 0.103 |
| Experienced sexual violence by any non-intimate partner | 0.026 | 0.011 | 407 | 420 | 1.355 | 0.408 | 0.005 | 0.048 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.239 | 0.024 | 371 | 367 | 1.061 | 0.098 | 0.192 | 0.286 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.367 | 0.033 | 371 | 367 | 1.307 | 0.089 | 0.302 | 0.433 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.342 | 0.031 | 491 | 484 | 1.450 | 0.091 | 0.279 | 0.404 |
| Secondary education or higher | 0.518 | 0.039 | 491 | 484 | 1.734 | 0.076 | 0.439 | 0.596 |
| Literacy | 0.524 | 0.032 | 491 | 484 | 1.410 | 0.061 | 0.461 | 0.588 |
| Use of the internet in last 12 months | 0.396 | 0.036 | 491 | 484 | 1.621 | 0.091 | 0.324 | 0.468 |
| Current tobacco use | 0.079 | 0.012 | 491 | 484 | 1.002 | 0.155 | 0.054 | 0.103 |
| Want no more children | 0.055 | 0.014 | 286 | 276 | 1.064 | 0.261 | 0.026 | 0.084 |
| Discriminatory attitudes towards people with HIV | 0.831 | 0.027 | 442 | 437 | 1.528 | 0.033 | 0.776 | 0.886 |
| Condom use at last sex | 0.228 | 0.048 | 90 | 93 | 1.076 | 0.210 | 0.132 | 0.324 |
| Ever tested for HIV and received results of last test | 0.031 | 0.010 | 491 | 484 | 1.235 | 0.310 | 0.012 | 0.051 |
| Male circumcision | 0.806 | 0.046 | 491 | 484 | 2.546 | 0.057 | 0.715 | 0.897 |
| Mobile phone ownership | 0.836 | 0.023 | 491 | 484 | 1.374 | 0.027 | 0.790 | 0.882 |
| Have and use a bank account or mobile phone for financial transactions | 0.685 | 0.033 | 491 | 484 | 1.577 | 0.048 | 0.619 | 0.751 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.374 | 0.033 | 491 | 484 | 1.504 | 0.088 | 0.308 | 0.440 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 17 Sampling errors: Savannah sample, Ghana DHS 2022

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.025 | 0.004 | 5,153 | 1,586 | 1.150 | 0.161 | 0.017 | 0.033 |
| Births registered with civil authority | 0.651 | 0.034 | 838 | 255 | 1.683 | 0.053 | 0.582 | 0.720 |
| Ownership of at least one ITN | 0.791 | 0.020 | 1,047 | 316 | 1.604 | 0.026 | 0.750 | 0.831 |
| Ownership of at least one ITN for every two persons | 0.510 | 0.021 | 1,045 | 315 | 1.338 | 0.041 | 0.469 | 0.552 |
| At least basic drinking water service | 0.542 | 0.082 | 5,153 | 1,586 | 4.395 | 0.151 | 0.378 | 0.705 |
| Water available when needed | 0.774 | 0.028 | 5,153 | 1,586 | 1.774 | 0.036 | 0.719 | 0.830 |
| At least basic sanitation service | 0.110 | 0.024 | 5,153 | 1,586 | 2.066 | 0.216 | 0.063 | 0.158 |
| Using open defecation | 0.736 | 0.047 | 5,153 | 1,586 | 2.992 | 0.064 | 0.642 | 0.831 |
| Using a handwashing facility with soap and water | 0.395 | 0.024 | 5,113 | 1,574 | 1.355 | 0.061 | 0.347 | 0.444 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.469 | 0.048 | 999 | 319 | 3.028 | 0.102 | 0.373 | 0.565 |
| Secondary education or higher | 0.318 | 0.040 | 999 | 319 | 2.675 | 0.124 | 0.239 | 0.398 |
| Literacy | 0.309 | 0.037 | 999 | 319 | 2.520 | 0.120 | 0.235 | 0.383 |
| Use of the internet in last 12 months | 0.153 | 0.021 | 999 | 319 | 1.835 | 0.137 | 0.111 | 0.195 |
| Current tobacco use | 0.004 | 0.003 | 999 | 319 | 1.287 | 0.628 | 0.000 | 0.009 |
| Total fertility rate (3 years) | 5.829 | 0.357 | 2,784 | 881 | 1.571 | 0.061 | 5.115 | 6.543 |
| Currently pregnant | 0.099 | 0.015 | 999 | 319 | 1.541 | 0.147 | 0.070 | 0.129 |
| Mean number of children ever born to women age 40-49 | 5.865 | 0.211 | 183 | 58 | 1.284 | 0.036 | 5.443 | 6.286 |
| Median birth interval | 34.484 | 1.199 | 623 | 198 | 2.074 | 0.035 | 32.086 | 36.882 |
| Ideal number of children | 6.340 | 0.193 | 990 | 316 | 2.358 | 0.030 | 5.954 | 6.726 |
| Total wanted fertility rate (3 years) | 5.403 | 0.307 | 2,784 | 881 | 1.527 | 0.057 | 4.789 | 6.017 |
| Currently using any contraceptive method | 0.234 | 0.028 | 672 | 218 | 1.723 | 0.120 | 0.178 | 0.291 |
| Currently using any modern method | 0.191 | 0.030 | 672 | 218 | 1.944 | 0.155 | 0.132 | 0.251 |
| Currently using pill | 0.038 | 0.011 | 672 | 218 | 1.453 | 0.284 | 0.016 | 0.059 |
| Currently using injectables | 0.057 | 0.012 | 672 | 218 | 1.372 | 0.216 | 0.032 | 0.082 |
| Currently using implants | 0.079 | 0.014 | 672 | 218 | 1.302 | 0.172 | 0.052 | 0.106 |
| Currently using male condoms | 0.004 | 0.003 | 672 | 218 | 1.085 | 0.669 | 0.000 | 0.009 |
| Currently using any traditional method | 0.043 | 0.011 | 672 | 218 | 1.437 | 0.262 | 0.020 | 0.065 |
| Unmet need for spacing | 0.170 | 0.023 | 672 | 218 | 1.559 | 0.133 | 0.125 | 0.216 |
| Unmet need for limiting | 0.044 | 0.011 | 672 | 218 | 1.409 | 0.254 | 0.022 | 0.066 |
| Unmet need total | 0.214 | 0.027 | 672 | 218 | 1.731 | 0.128 | 0.159 | 0.269 |
| Demand satisfied by modern methods | 0.427 | 0.055 | 324 | 98 | 1.928 | 0.129 | 0.317 | 0.537 |
| Demand satisfied by modern methods (all women) | 0.437 | 0.047 | 410 | 121 | 1.857 | 0.108 | 0.342 | 0.532 |
| Participation in decision making about family planning | 0.756 | 0.048 | 672 | 218 | 2.863 | 0.063 | 0.660 | 0.851 |
| Not exposed to any of the eight media sources | 0.496 | 0.032 | 999 | 319 | 2.000 | 0.064 | 0.432 | 0.559 |
| Neonatal mortality (last 0-9 years) | 32.300 | 4.556 | 1,480 | 484 | 0.942 | 0.141 | 23.188 | 41.413 |
| Postneonatal mortality (last 0-9 years) | 13.780 | 2.917 | 1,480 | 483 | 0.873 | 0.212 | 7.946 | 19.614 |
| Infant mortality (last 0-9 years) | 46.080 | 5.522 | 1,481 | 485 | 0.983 | 0.120 | 35.037 | 57.123 |
| Child mortality (last 0-9 years) | 17.546 | 4.997 | 1,435 | 470 | 1.254 | 0.285 | 7.552 | 27.540 |
| Under-5 mortality (last 0-9 years) | 62.818 | 8.829 | 1,487 | 488 | 1.291 | 0.141 | 45.160 | 80.476 |
| Perinatal mortality rate | 36.931 | 5.793 | 812 | 262 | 0.771 | 0.157 | 25.345 | 48.517 |
| Stillbirth rate | 13.814 | 4.849 | 812 | 262 | 1.120 | 0.351 | 4.116 | 23.512 |
| Early neonatal mortality rate | 23.441 | 5.833 | 797 | 258 | 0.923 | 0.249 | 11.775 | 35.107 |
| Received ANC from a skilled provider | 0.951 | 0.018 | 324 | 105 | 1.522 | 0.019 | 0.915 | 0.988 |
| 4+ ANC visits | 0.795 | 0.036 | 324 | 105 | 1.581 | 0.045 | 0.724 | 0.866 |
| 8+ ANC visits | 0.194 | 0.028 | 324 | 105 | 1.273 | 0.144 | 0.138 | 0.250 |
| Took any iron-containing supplements | 0.812 | 0.031 | 324 | 105 | 1.432 | 0.038 | 0.750 | 0.875 |
| Mothers protected against tetanus for last birth | 0.431 | 0.032 | 324 | 105 | 1.171 | 0.075 | 0.367 | 0.496 |
| Delivered in a health facility (live births) | 0.706 | 0.041 | 340 | 111 | 1.645 | 0.059 | 0.623 | 0.789 |
| Delivered by a skilled provider (live births) | 0.720 | 0.040 | 340 | 111 | 1.615 | 0.056 | 0.639 | 0.800 |
| Delivered by C-section (live births) | 0.070 | 0.016 | 340 | 111 | 1.125 | 0.231 | 0.038 | 0.102 |
| Women with postnatal check during first 2 days | 0.815 | 0.039 | 324 | 105 | 1.803 | 0.048 | 0.737 | 0.893 |
| Newborns with postnatal check during first 2 days | 0.815 | 0.041 | 324 | 105 | 1.899 | 0.051 | 0.733 | 0.897 |
| Any problem accessing health care | 0.724 | 0.040 | 999 | 319 | 2.783 | 0.055 | 0.645 | 0.803 |
| Ever had vaccination card | 0.988 | 0.012 | 155 | 50 | 1.366 | 0.012 | 0.965 | 1.012 |
| Received BCG vaccination | 0.949 | 0.025 | 155 | 50 | 1.398 | 0.026 | 0.900 | 0.998 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.834 | 0.053 | 155 | 50 | 1.771 | 0.063 | 0.728 | 0.940 |
| Received pneumococcal vaccination (3 doses) | 0.829 | 0.079 | 155 | 50 | 2.590 | 0.095 | 0.671 | 0.986 |
| Received measles and rubella 1 vaccination | 0.864 | 0.037 | 155 | 50 | 1.357 | 0.043 | 0.790 | 0.939 |
| Fully vaccinated according to national schedule (12-23 months) | 0.418 | 0.059 | 155 | 50 | 1.461 | 0.140 | 0.301 | 0.536 |
| Received measles and rubella 2 vaccination | 0.662 | 0.058 | 163 | 52 | 1.550 | 0.088 | 0.546 | 0.779 |
| Fully vaccinated according to national schedule (24-35 months) | 0.331 | 0.044 | 163 | 52 | 1.171 | 0.134 | 0.242 | 0.420 |
| Sought treatment for diarrhoea | 0.594 | 0.046 | 162 | 54 | 1.193 | 0.078 | 0.501 | 0.686 |
| Treated with ORS | 0.327 | 0.061 | 162 | 54 | 1.637 | 0.188 | 0.204 | 0.450 |
| Height-for-age (-3 SD) | 0.044 | 0.012 | 423 | 128 | 1.130 | 0.276 | 0.020 | 0.068 |
| Height-for-age (-2 SD) | 0.210 | 0.019 | 423 | 128 | 0.945 | 0.088 | 0.173 | 0.247 |
| Weight-for-height (-2 SD) | 0.044 | 0.009 | 425 | 128 | 0.925 | 0.213 | 0.025 | 0.062 |
| Weight-for-height (+2 SD) | 0.021 | 0.006 | 425 | 128 | 0.944 | 0.311 | 0.008 | 0.034 |
| Weight-for-age (-2 SD) | 0.140 | 0.037 | 424 | 128 | 2.190 | 0.266 | 0.065 | 0.214 |

Table B.17-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.781 | 0.055 | 96 | 32 | 1.296 | 0.071 | 0.671 | 0.891 |
| Minimum dietary diversity (children 6-23 months) | 0.175 | 0.029 | 221 | 72 | 1.115 | 0.163 | 0.118 | 0.232 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.628 | 0.037 | 374 | 113 | 1.408 | 0.059 | 0.553 | 0.702 |
| Body mass index (BMI) < 18.5 | 0.090 | 0.027 | 353 | 113 | 1.778 | 0.302 | 0.036 | 0.145 |
| Body mass index (BMI) $\geq 25.0$ | 0.299 | 0.028 | 353 | 113 | 1.154 | 0.094 | 0.243 | 0.355 |
| Body mass index-for-age (-2 SD) | 0.000 | 0.000 | 108 | 34 | na | na | 0.000 | 0.000 |
| Body mass index-for-age (+1 SD) | 0.068 | 0.023 | 108 | 34 | 0.936 | 0.334 | 0.023 | 0.114 |
| Minimum dietary diversity (women 15-49) | 0.253 | 0.024 | 999 | 319 | 1.759 | 0.096 | 0.205 | 0.302 |
| Prevalence of any anaemia (women 15-49) | 0.432 | 0.025 | 524 | 169 | 1.131 | 0.057 | 0.383 | 0.481 |
| Child slept under an ITN last night | 0.635 | 0.030 | 841 | 257 | 1.488 | 0.047 | 0.575 | 0.696 |
| Pregnant women slept under an ITN last night | 0.694 | 0.042 | 99 | 30 | 0.907 | 0.061 | 0.610 | 0.779 |
| Received 3+ doses of SP/Fansidar | 0.517 | 0.058 | 324 | 105 | 2.058 | 0.111 | 0.402 | 0.632 |
| Child had fever in last 2 weeks | 0.172 | 0.026 | 763 | 247 | 1.792 | 0.151 | 0.120 | 0.225 |
| Child had blood taken from finger/heel | 0.346 | 0.043 | 126 | 43 | 1.025 | 0.125 | 0.259 | 0.432 |
| Child took ACT | 0.821 | 0.048 | 67 | 22 | 1.064 | 0.059 | 0.725 | 0.918 |
| Child has malaria (based on rapid test) | 0.266 | 0.039 | 375 | 113 | 1.686 | 0.147 | 0.187 | 0.344 |
| Child has malaria (based on microscopy test) | 0.121 | 0.035 | 375 | 113 | 1.887 | 0.288 | 0.051 | 0.190 |
| Discriminatory attitudes towards people with HIV | 0.868 | 0.019 | 852 | 265 | 1.661 | 0.022 | 0.829 | 0.906 |
| Condom use at last sex | 0.100 | 0.037 | 142 | 41 | 1.477 | 0.375 | 0.025 | 0.175 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.060 | 0.010 | 999 | 319 | 1.376 | 0.172 | 0.039 | 0.081 |
| Mobile phone ownership | 0.646 | 0.034 | 999 | 319 | 2.214 | 0.052 | 0.579 | 0.714 |
| Have and use a bank account or mobile phone for financial transactions | 0.424 | 0.035 | 999 | 319 | 2.229 | 0.082 | 0.354 | 0.494 |
| Participate in decision making (all three decisions) | 0.381 | 0.036 | 672 | 218 | 1.942 | 0.096 | 0.308 | 0.453 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.578 | 0.045 | 999 | 319 | 2.864 | 0.078 | 0.488 | 0.668 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.391 | 0.038 | 672 | 218 | 2.017 | 0.097 | 0.315 | 0.467 |
| Experienced physical violence since age 15 by any perpetrator | 0.429 | 0.041 | 371 | 123 | 1.605 | 0.096 | 0.346 | 0.512 |
| Experienced sexual violence by any perpetrator ever | 0.196 | 0.026 | 371 | 123 | 1.263 | 0.133 | 0.143 | 0.248 |
| Experienced sexual violence by any non-intimate partner | 0.065 | 0.017 | 371 | 123 | 1.299 | 0.257 | 0.032 | 0.098 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.341 | 0.036 | 334 | 104 | 1.386 | 0.106 | 0.269 | 0.413 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.469 | 0.043 | 334 | 104 | 1.562 | 0.091 | 0.383 | 0.554 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.381 | 0.056 | 490 | 155 | 2.539 | 0.147 | 0.269 | 0.493 |
| Secondary education or higher | 0.468 | 0.055 | 490 | 155 | 2.432 | 0.118 | 0.358 | 0.578 |
| Literacy | 0.510 | 0.050 | 490 | 155 | 2.200 | 0.098 | 0.410 | 0.609 |
| Use of the internet in last 12 months | 0.381 | 0.027 | 490 | 155 | 1.222 | 0.071 | 0.327 | 0.434 |
| Current tobacco use | 0.072 | 0.023 | 490 | 155 | 1.939 | 0.316 | 0.026 | 0.117 |
| Want no more children | 0.072 | 0.017 | 261 | 86 | 1.032 | 0.230 | 0.039 | 0.105 |
| Discriminatory attitudes towards people with HIV | 0.779 | 0.020 | 415 | 125 | 0.994 | 0.026 | 0.738 | 0.819 |
| Condom use at last sex | 0.314 | 0.056 | 107 | 31 | 1.244 | 0.179 | 0.202 | 0.427 |
| Ever tested for HIV and received results of last test | 0.031 | 0.008 | 490 | 155 | 1.064 | 0.271 | 0.014 | 0.047 |
| Male circumcision | 0.927 | 0.016 | 490 | 155 | 1.385 | 0.018 | 0.895 | 0.960 |
| Mobile phone ownership | 0.791 | 0.035 | 490 | 155 | 1.902 | 0.044 | 0.721 | 0.861 |
| Have and use a bank account or mobile phone for financial transactions | 0.592 | 0.033 | 490 | 155 | 1.499 | 0.056 | 0.525 | 0.659 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.432 | 0.047 | 490 | 155 | 2.078 | 0.108 | 0.338 | 0.525 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).
na $=$ not applicable

Table B. 18 Sampling errors: North East sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.023 | 0.006 | 5,558 | 1,552 | 1.356 | 0.262 | 0.011 | 0.035 |
| Births registered with civil authority | 0.741 | 0.045 | 1,041 | 296 | 2.581 | 0.060 | 0.651 | 0.830 |
| Ownership of at least one ITN | 0.626 | 0.024 | 1,034 | 287 | 1.618 | 0.039 | 0.577 | 0.675 |
| Ownership of at least one ITN for every two persons | 0.262 | 0.023 | 1,034 | 287 | 1.644 | 0.086 | 0.217 | 0.307 |
| At least basic drinking water service | 0.434 | 0.044 | 5,558 | 1,552 | 2.500 | 0.102 | 0.345 | 0.522 |
| Water available when needed | 0.738 | 0.032 | 5,558 | 1,552 | 2.043 | 0.044 | 0.674 | 0.802 |
| At least basic sanitation service | 0.114 | 0.024 | 5,558 | 1,552 | 2.031 | 0.209 | 0.066 | 0.162 |
| Using open defecation | 0.642 | 0.049 | 5,558 | 1,552 | 2.813 | 0.076 | 0.545 | 0.739 |
| Using a handwashing facility with soap and water | 0.032 | 0.007 | 5,349 | 1,501 | 1.186 | 0.220 | 0.018 | 0.046 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.551 | 0.038 | 963 | 290 | 2.382 | 0.070 | 0.474 | 0.627 |
| Secondary education or higher | 0.332 | 0.031 | 963 | 290 | 2.056 | 0.094 | 0.270 | 0.395 |
| Literacy | 0.272 | 0.027 | 963 | 290 | 1.892 | 0.100 | 0.218 | 0.327 |
| Use of the internet in last 12 months | 0.117 | 0.018 | 963 | 290 | 1.778 | 0.158 | 0.080 | 0.153 |
| Current tobacco use | 0.004 | 0.002 | 963 | 290 | 0.928 | 0.463 | 0.000 | 0.008 |
| Total fertility rate (3 years) | 6.639 | 0.344 | 2,697 | 812 | 1.478 | 0.052 | 5.950 | 7.328 |
| Currently pregnant | 0.106 | 0.012 | 963 | 290 | 1.212 | 0.113 | 0.082 | 0.130 |
| Mean number of children ever born to women age 40-49 | 6.291 | 0.237 | 145 | 45 | 1.393 | 0.038 | 5.816 | 6.765 |
| Median birth interval | 36.845 | 1.053 | 669 | 211 | 1.607 | 0.029 | 34.739 | 38.950 |
| Ideal number of children | 6.512 | 0.135 | 957 | 288 | 1.853 | 0.021 | 6.243 | 6.781 |
| Total wanted fertility rate (3 years) | 6.509 | 0.341 | 2,697 | 812 | 1.512 | 0.052 | 5.827 | 7.191 |
| Currently using any contraceptive method | 0.171 | 0.023 | 744 | 229 | 1.667 | 0.135 | 0.125 | 0.217 |
| Currently using any modern method | 0.149 | 0.020 | 744 | 229 | 1.516 | 0.133 | 0.110 | 0.189 |
| Currently using pill | 0.028 | 0.006 | 744 | 229 | 0.962 | 0.209 | 0.016 | 0.039 |
| Currently using injectables | 0.056 | 0.010 | 744 | 229 | 1.232 | 0.185 | 0.036 | 0.077 |
| Currently using implants | 0.052 | 0.011 | 744 | 229 | 1.387 | 0.218 | 0.029 | 0.074 |
| Currently using male condoms | 0.003 | 0.002 | 744 | 229 | 0.924 | 0.598 | 0.000 | 0.007 |
| Currently using any traditional method | 0.022 | 0.006 | 744 | 229 | 1.109 | 0.274 | 0.010 | 0.033 |
| Unmet need for spacing | 0.175 | 0.016 | 744 | 229 | 1.173 | 0.093 | 0.143 | 0.208 |
| Unmet need for limiting | 0.050 | 0.007 | 744 | 229 | 0.919 | 0.147 | 0.035 | 0.065 |
| Unmet need total | 0.225 | 0.019 | 744 | 229 | 1.207 | 0.082 | 0.188 | 0.262 |
| Demand satisfied by modern methods | 0.377 | 0.035 | 311 | 91 | 1.243 | 0.093 | 0.307 | 0.447 |
| Demand satisfied by modern methods (all women) | 0.407 | 0.031 | 368 | 105 | 1.168 | 0.075 | 0.346 | 0.469 |
| Participation in decision making about family planning | 0.660 | 0.052 | 744 | 229 | 2.983 | 0.079 | 0.556 | 0.764 |
| Not exposed to any of the eight media sources | 0.520 | 0.049 | 963 | 290 | 3.041 | 0.095 | 0.422 | 0.619 |
| Neonatal mortality (last 0-9 years) | 10.570 | 2.555 | 1,560 | 488 | 0.968 | 0.242 | 5.459 | 15.680 |
| Postneonatal mortality (last 0-9 years) | 9.627 | 2.289 | 1,549 | 485 | 0.938 | 0.238 | 5.049 | 14.206 |
| Infant mortality (last 0-9 years) | 20.197 | 2.853 | 1,563 | 490 | 0.810 | 0.141 | 14.491 | 25.903 |
| Child mortality (last 0-9 years) | 20.738 | 4.227 | 1,507 | 474 | 1.023 | 0.204 | 12.284 | 29.192 |
| Under-5 mortality (last 0-9 years) | 40.516 | 5.027 | 1,574 | 493 | 0.947 | 0.124 | 30.462 | 50.570 |
| Perinatal mortality rate | 19.827 | 6.010 | 879 | 276 | 1.220 | 0.303 | 7.807 | 31.846 |
| Stillbirth rate | 12.289 | 4.514 | 879 | 276 | 1.173 | 0.367 | 3.261 | 21.317 |
| Early neonatal mortality rate | 7.632 | 3.069 | 868 | 272 | 0.965 | 0.402 | 1.493 | 13.771 |
| Received ANC from a skilled provider | 0.955 | 0.016 | 365 | 112 | 1.422 | 0.016 | 0.924 | 0.986 |
| 4+ ANC visits | 0.835 | 0.031 | 365 | 112 | 1.596 | 0.037 | 0.773 | 0.898 |
| 8+ ANC visits | 0.287 | 0.039 | 365 | 112 | 1.650 | 0.137 | 0.208 | 0.365 |
| Took any iron-containing supplements | 0.892 | 0.018 | 365 | 112 | 1.115 | 0.020 | 0.855 | 0.928 |
| Mothers protected against tetanus for last birth | 0.457 | 0.039 | 365 | 112 | 1.488 | 0.085 | 0.379 | 0.535 |
| Delivered in a health facility (live births) | 0.844 | 0.026 | 379 | 116 | 1.398 | 0.031 | 0.791 | 0.897 |
| Delivered by a skilled provider (live births) | 0.852 | 0.026 | 379 | 116 | 1.393 | 0.030 | 0.800 | 0.903 |
| Delivered by C-section (live births) | 0.088 | 0.015 | 379 | 116 | 0.973 | 0.173 | 0.057 | 0.118 |
| Women with postnatal check during first 2 days | 0.832 | 0.033 | 365 | 112 | 1.674 | 0.039 | 0.766 | 0.898 |
| Newborns with postnatal check during first 2 days | 0.841 | 0.028 | 365 | 112 | 1.469 | 0.034 | 0.785 | 0.897 |
| Any problem accessing health care | 0.657 | 0.040 | 963 | 290 | 2.618 | 0.061 | 0.576 | 0.737 |
| Ever had vaccination card | 0.978 | 0.021 | 179 | 53 | 1.917 | 0.022 | 0.936 | 1.021 |
| Received BCG vaccination | 0.963 | 0.022 | 179 | 53 | 1.539 | 0.023 | 0.919 | 1.007 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.899 | 0.028 | 179 | 53 | 1.215 | 0.031 | 0.843 | 0.954 |
| Received pneumococcal vaccination (3 doses) | 0.892 | 0.028 | 179 | 53 | 1.190 | 0.031 | 0.836 | 0.948 |
| Received measles and rubella 1 vaccination | 0.872 | 0.039 | 179 | 53 | 1.521 | 0.044 | 0.795 | 0.949 |
| Fully vaccinated according to national schedule (12-23 months) | 0.523 | 0.044 | 179 | 53 | 1.137 | 0.084 | 0.435 | 0.611 |
| Received measles and rubella 2 vaccination | 0.825 | 0.035 | 176 | 56 | 1.220 | 0.042 | 0.756 | 0.894 |
| Fully vaccinated according to national schedule (24-35 months) | 0.393 | 0.049 | 176 | 56 | 1.291 | 0.124 | 0.296 | 0.490 |
| Sought treatment for diarrhoea | 0.591 | 0.047 | 155 | 48 | 1.090 | 0.079 | 0.497 | 0.684 |
| Treated with ORS | 0.324 | 0.042 | 155 | 48 | 1.031 | 0.128 | 0.241 | 0.407 |
| Height-for-age (-3 SD) | 0.088 | 0.018 | 523 | 148 | 1.344 | 0.203 | 0.052 | 0.124 |
| Height-for-age (-2 SD) | 0.293 | 0.031 | 523 | 148 | 1.470 | 0.105 | 0.232 | 0.355 |
| Weight-for-height (-2 SD) | 0.068 | 0.010 | 523 | 148 | 0.993 | 0.153 | 0.047 | 0.089 |
| Weight-for-height (+2 SD) | 0.008 | 0.004 | 523 | 148 | 0.952 | 0.455 | 0.001 | 0.015 |
| Weight-for-age (-2 SD) | 0.204 | 0.024 | 525 | 148 | 1.307 | 0.116 | 0.157 | 0.252 |

Table B.18-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.655 | 0.051 | 104 | 35 | 1.088 | 0.078 | 0.552 | 0.757 |
| Minimum dietary diversity (children 6-23 months) | 0.514 | 0.039 | 254 | 76 | 1.226 | 0.075 | 0.436 | 0.591 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin $<11.0 \mathrm{~g} / \mathrm{dl}$ ) | 0.649 | 0.035 | 462 | 130 | 1.477 | 0.053 | 0.580 | 0.719 |
| Body mass index (BMI) <18.5 | 0.092 | 0.017 | 308 | 91 | 1.004 | 0.180 | 0.059 | 0.125 |
| Body mass index (BMI) $\geq 25.0$ | 0.183 | 0.025 | 308 | 91 | 1.112 | 0.134 | 0.134 | 0.232 |
| Body mass index-for-age (-2 SD) | 0.016 | 0.011 | 95 | 26 | 0.858 | 0.690 | 0.000 | 0.038 |
| Body mass index-for-age (+1 SD) | 0.079 | 0.027 | 95 | 26 | 0.986 | 0.346 | 0.024 | 0.134 |
| Minimum dietary diversity (women 15-49) | 0.647 | 0.030 | 963 | 290 | 1.913 | 0.046 | 0.588 | 0.706 |
| Prevalence of any anaemia (women 15-49) | 0.450 | 0.024 | 470 | 139 | 1.047 | 0.053 | 0.402 | 0.498 |
| Child slept under an ITN last night | 0.507 | 0.034 | 1,041 | 297 | 1.666 | 0.068 | 0.439 | 0.576 |
| Pregnant women slept under an ITN last night | 0.563 | 0.059 | 97 | 28 | 1.179 | 0.105 | 0.444 | 0.681 |
| Received 3+ doses of SP/Fansidar | 0.599 | 0.036 | 365 | 112 | 1.406 | 0.060 | 0.527 | 0.672 |
| Child had fever in last 2 weeks | 0.221 | 0.030 | 852 | 267 | 1.938 | 0.134 | 0.162 | 0.280 |
| Child had blood taken from finger/heel | 0.632 | 0.028 | 192 | 59 | 0.748 | 0.045 | 0.576 | 0.689 |
| Child took ACT | 0.675 | 0.063 | 122 | 39 | 1.392 | 0.094 | 0.548 | 0.802 |
| Child has malaria (based on rapid test) | 0.269 | 0.027 | 462 | 130 | 1.159 | 0.100 | 0.215 | 0.323 |
| Child has malaria (based on microscopy test) | 0.103 | 0.014 | 462 | 130 | 0.968 | 0.139 | 0.075 | 0.132 |
| Discriminatory attitudes towards people with HIV | 0.859 | 0.017 | 813 | 241 | 1.358 | 0.019 | 0.826 | 0.892 |
| Condom use at last sex | 0.260 | 0.055 | 99 | 25 | 1.227 | 0.210 | 0.151 | 0.369 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.122 | 0.013 | 963 | 290 | 1.248 | 0.108 | 0.095 | 0.148 |
| Mobile phone ownership | 0.634 | 0.022 | 963 | 290 | 1.431 | 0.035 | 0.590 | 0.679 |
| Have and use a bank account or mobile phone for financial transactions | 0.438 | 0.038 | 963 | 290 | 2.390 | 0.087 | 0.362 | 0.515 |
| Participate in decision making (all three decisions) | 0.425 | 0.035 | 744 | 229 | 1.942 | 0.083 | 0.354 | 0.496 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.344 | 0.037 | 963 | 290 | 2.429 | 0.108 | 0.269 | 0.418 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.285 | 0.036 | 744 | 229 | 2.188 | 0.127 | 0.213 | 0.358 |
| Experienced physical violence since age 15 by any perpetrator | 0.237 | 0.044 | 343 | 100 | 1.919 | 0.187 | 0.148 | 0.325 |
| Experienced sexual violence by any perpetrator ever | 0.052 | 0.014 | 343 | 100 | 1.184 | 0.275 | 0.023 | 0.080 |
| Experienced sexual violence by any non-intimate partner | 0.009 | 0.004 | 343 | 100 | 0.807 | 0.447 | 0.001 | 0.018 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.165 | 0.039 | 316 | 90 | 1.859 | 0.237 | 0.087 | 0.242 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.256 | 0.043 | 316 | 90 | 1.746 | 0.168 | 0.170 | 0.342 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.338 | 0.035 | 386 | 119 | 1.463 | 0.104 | 0.267 | 0.409 |
| Secondary education or higher | 0.506 | 0.036 | 386 | 119 | 1.392 | 0.070 | 0.435 | 0.577 |
| Literacy | 0.506 | 0.041 | 386 | 119 | 1.592 | 0.080 | 0.425 | 0.587 |
| Use of the internet in last 12 months | 0.371 | 0.031 | 386 | 119 | 1.251 | 0.083 | 0.309 | 0.432 |
| Current tobacco use | 0.044 | 0.013 | 386 | 119 | 1.259 | 0.301 | 0.017 | 0.070 |
| Want no more children | 0.118 | 0.026 | 240 | 74 | 1.236 | 0.219 | 0.066 | 0.169 |
| Discriminatory attitudes towards people with HIV | 0.852 | 0.025 | 360 | 111 | 1.355 | 0.030 | 0.801 | 0.903 |
| Condom use at last sex | 0.388 | 0.079 | 76 | 23 | 1.393 | 0.203 | 0.230 | 0.546 |
| Ever tested for HIV and received results of last test | 0.050 | 0.014 | 386 | 119 | 1.225 | 0.272 | 0.023 | 0.077 |
| Male circumcision | 0.955 | 0.024 | 386 | 119 | 2.215 | 0.025 | 0.908 | 1.002 |
| Mobile phone ownership | 0.860 | 0.016 | 386 | 119 | 0.910 | 0.019 | 0.828 | 0.893 |
| Have and use a bank account or mobile phone for financial transactions | 0.676 | 0.032 | 386 | 119 | 1.332 | 0.047 | 0.612 | 0.740 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.214 | 0.034 | 386 | 119 | 1.628 | 0.159 | 0.146 | 0.282 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 19 Sampling errors: Upper East sample, Ghana DHS 2022

| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.086 | 0.013 | 4,660 | 2,904 | 1.364 | 0.148 | 0.060 | 0.111 |
| Births registered with civil authority | 0.834 | 0.027 | 672 | 420 | 1.680 | 0.033 | 0.780 | 0.889 |
| Ownership of at least one ITN | 0.795 | 0.022 | 1,070 | 654 | 1.789 | 0.028 | 0.750 | 0.839 |
| Ownership of at least one ITN for every two persons | 0.542 | 0.025 | 1,069 | 653 | 1.607 | 0.045 | 0.493 | 0.591 |
| At least basic drinking water service | 0.851 | 0.030 | 4,660 | 2,904 | 2.335 | 0.035 | 0.791 | 0.910 |
| Water available when needed | 0.860 | 0.026 | 4,660 | 2,904 | 2.062 | 0.030 | 0.808 | 0.912 |
| At least basic sanitation service | 0.139 | 0.023 | 4,660 | 2,904 | 1.944 | 0.164 | 0.093 | 0.184 |
| Using open defecation | 0.713 | 0.040 | 4,660 | 2,904 | 2.590 | 0.057 | 0.632 | 0.794 |
| Using a handwashing facility with soap and water | 0.324 | 0.038 | 4,537 | 2,836 | 2.353 | 0.118 | 0.248 | 0.401 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.259 | 0.024 | 987 | 640 | 1.708 | 0.092 | 0.211 | 0.306 |
| Secondary education or higher | 0.568 | 0.030 | 987 | 640 | 1.923 | 0.054 | 0.507 | 0.628 |
| Literacy | 0.552 | 0.028 | 987 | 640 | 1.765 | 0.051 | 0.496 | 0.608 |
| Use of the internet in last 12 months | 0.301 | 0.025 | 987 | 640 | 1.677 | 0.082 | 0.252 | 0.350 |
| Current tobacco use | 0.013 | 0.004 | 987 | 640 | 1.232 | 0.346 | 0.004 | 0.021 |
| Total fertility rate (3 years) | 4.598 | 0.262 | 2,781 | 1,804 | 1.357 | 0.057 | 4.074 | 5.121 |
| Currently pregnant | 0.067 | 0.009 | 987 | 640 | 1.147 | 0.136 | 0.049 | 0.086 |
| Mean number of children ever born to women age 40-49 | 4.962 | 0.230 | 176 | 115 | 1.452 | 0.046 | 4.502 | 5.421 |
| Median birth interval | 42.975 | 0.833 | 433 | 280 | 1.124 | 0.019 | 41.309 | 44.642 |
| Ideal number of children | 5.175 | 0.169 | 962 | 624 | 2.482 | 0.033 | 4.837 | 5.513 |
| Total wanted fertility rate (3 years) | 4.500 | 0.262 | 2,781 | 1,804 | 1.362 | 0.058 | 3.976 | 5.024 |
| Currently using any contraceptive method | 0.355 | 0.026 | 642 | 426 | 1.391 | 0.074 | 0.302 | 0.407 |
| Currently using any modern method | 0.309 | 0.024 | 642 | 426 | 1.335 | 0.079 | 0.260 | 0.358 |
| Currently using pill | 0.023 | 0.006 | 642 | 426 | 1.099 | 0.284 | 0.010 | 0.036 |
| Currently using injectables | 0.090 | 0.013 | 642 | 426 | 1.122 | 0.141 | 0.065 | 0.116 |
| Currently using implants | 0.166 | 0.020 | 642 | 426 | 1.327 | 0.118 | 0.127 | 0.205 |
| Currently using male condoms | 0.010 | 0.004 | 642 | 426 | 0.940 | 0.362 | 0.003 | 0.018 |
| Currently using any traditional method | 0.046 | 0.011 | 642 | 426 | 1.380 | 0.249 | 0.023 | 0.069 |
| Unmet need for spacing | 0.133 | 0.017 | 642 | 426 | 1.234 | 0.125 | 0.100 | 0.166 |
| Unmet need for limiting | 0.046 | 0.010 | 642 | 426 | 1.177 | 0.211 | 0.027 | 0.066 |
| Unmet need total | 0.179 | 0.015 | 642 | 426 | 1.009 | 0.085 | 0.148 | 0.210 |
| Demand satisfied by modern methods | 0.579 | 0.025 | 343 | 227 | 0.955 | 0.044 | 0.528 | 0.630 |
| Demand satisfied by modern methods (all women) | 0.558 | 0.022 | 439 | 283 | 0.911 | 0.039 | 0.515 | 0.602 |
| Participation in decision making about family planning | 0.900 | 0.020 | 642 | 426 | 1.725 | 0.023 | 0.859 | 0.941 |
| Not exposed to any of the eight media sources | 0.350 | 0.039 | 987 | 640 | 2.543 | 0.111 | 0.272 | 0.427 |
| Neonatal mortality (last 0-9 years) | 27.198 | 6.410 | 1,115 | 735 | 1.050 | 0.236 | 14.377 | 40.018 |
| Postneonatal mortality (last 0-9 years) | 9.161 | 3.239 | 1,104 | 726 | 1.139 | 0.354 | 2.683 | 15.639 |
| Infant mortality (last 0-9 years) | 36.359 | 6.683 | 1,115 | 735 | 0.978 | 0.184 | 22.993 | 49.724 |
| Child mortality (last 0-9 years) | 13.298 | 4.134 | 1,035 | 681 | 1.111 | 0.311 | 5.029 | 21.567 |
| Under-5 mortality (last 0-9 years) | 49.173 | 9.520 | 1,117 | 736 | 1.194 | 0.194 | 30.134 | 68.212 |
| Perinatal mortality rate | 19.960 | 5.639 | 643 | 420 | 1.039 | 0.283 | 8.681 | 31.238 |
| Stillbirth rate | 8.212 | 3.383 | 643 | 420 | 0.963 | 0.412 | 1.446 | 14.978 |
| Early neonatal mortality rate | 11.843 | 4.656 | 638 | 416 | 1.094 | 0.393 | 2.531 | 21.154 |
| Received ANC from a skilled provider | 0.990 | 0.007 | 279 | 191 | 1.210 | 0.007 | 0.975 | 1.004 |
| 4+ ANC visits | 0.948 | 0.015 | 279 | 191 | 1.151 | 0.016 | 0.917 | 0.978 |
| 8+ ANC visits | 0.420 | 0.038 | 279 | 191 | 1.288 | 0.091 | 0.343 | 0.496 |
| Took any iron-containing supplements | 0.881 | 0.035 | 279 | 191 | 1.769 | 0.039 | 0.811 | 0.950 |
| Mothers protected against tetanus for last birth | 0.751 | 0.057 | 279 | 191 | 2.173 | 0.076 | 0.638 | 0.865 |
| Delivered in a health facility (live births) | 0.974 | 0.011 | 287 | 196 | 1.163 | 0.011 | 0.953 | 0.996 |
| Delivered by a skilled provider (live births) | 0.980 | 0.009 | 287 | 196 | 1.052 | 0.009 | 0.963 | 0.997 |
| Delivered by C-section (live births) | 0.207 | 0.021 | 287 | 196 | 0.871 | 0.104 | 0.164 | 0.250 |
| Women with postnatal check during first 2 days | 0.967 | 0.012 | 279 | 191 | 1.108 | 0.012 | 0.944 | 0.991 |
| Newborns with postnatal check during first 2 days | 0.955 | 0.014 | 279 | 191 | 1.155 | 0.015 | 0.926 | 0.984 |
| Any problem accessing health care | 0.505 | 0.053 | 987 | 640 | 3.298 | 0.105 | 0.399 | 0.610 |
| Ever had vaccination card | 0.982 | 0.013 | 126 | 87 | 1.106 | 0.013 | 0.956 | 1.008 |
| Received BCG vaccination | 0.936 | 0.020 | 126 | 87 | 0.951 | 0.022 | 0.896 | 0.977 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.846 | 0.029 | 126 | 87 | 0.933 | 0.035 | 0.788 | 0.905 |
| Received pneumococcal vaccination (3 doses) | 0.834 | 0.030 | 126 | 87 | 0.915 | 0.035 | 0.775 | 0.893 |
| Received measles and rubella 1 vaccination | 0.922 | 0.023 | 126 | 87 | 0.966 | 0.024 | 0.877 | 0.967 |
| Fully vaccinated according to national schedule (12-23 months) | 0.554 | 0.058 | 126 | 87 | 1.332 | 0.104 | 0.439 | 0.670 |
| Received measles and rubella 2 vaccination | 0.748 | 0.047 | 111 | 74 | 1.111 | 0.063 | 0.654 | 0.842 |
| Fully vaccinated according to national schedule (24-35 months) | 0.398 | 0.062 | 111 | 74 | 1.313 | 0.155 | 0.275 | 0.522 |
| Sought treatment for diarrhoea | 0.561 | 0.052 | 63 | 37 | 0.732 | 0.092 | 0.458 | 0.664 |
| Treated with ORS | 0.566 | 0.061 | 63 | 37 | 0.852 | 0.109 | 0.443 | 0.689 |
| Height-for-age (-3 SD) | 0.049 | 0.017 | 339 | 212 | 1.264 | 0.347 | 0.015 | 0.083 |
| Height-for-age (-2 SD) | 0.211 | 0.027 | 339 | 212 | 1.138 | 0.129 | 0.156 | 0.265 |
| Weight-for-height (-2 SD) | 0.032 | 0.010 | 340 | 213 | 1.076 | 0.315 | 0.012 | 0.052 |
| Weight-for-height (+2 SD) | 0.023 | 0.012 | 340 | 213 | 1.460 | 0.503 | 0.000 | 0.047 |
| Weight-for-age (-2 SD) | 0.127 | 0.019 | 340 | 213 | 1.037 | 0.151 | 0.089 | 0.165 |

Table B.19-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relativeerror (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.518 | 0.067 | 77 | 54 | 1.160 | 0.129 | 0.385 | 0.651 |
| Minimum dietary diversity (children 6-23 months) | 0.558 | 0.028 | 194 | 133 | 0.798 | 0.051 | 0.501 | 0.615 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.693 | 0.033 | 299 | 184 | 1.241 | 0.048 | 0.627 | 0.760 |
| Body mass index (BMI) < 18.5 | 0.080 | 0.013 | 383 | 256 | 0.942 | 0.164 | 0.053 | 0.106 |
| Body mass index (BMI) $\geq 25.0$ | 0.281 | 0.029 | 383 | 256 | 1.278 | 0.105 | 0.222 | 0.340 |
| Body mass index-for-age (-2 SD) | 0.050 | 0.024 | 84 | 51 | 0.995 | 0.478 | 0.002 | 0.097 |
| Body mass index-for-age (+1 SD) | 0.071 | 0.026 | 84 | 51 | 0.905 | 0.358 | 0.020 | 0.122 |
| Minimum dietary diversity (women 15-49) | 0.681 | 0.034 | 987 | 640 | 2.284 | 0.050 | 0.613 | 0.749 |
| Prevalence of any anaemia (women 15-49) | 0.470 | 0.031 | 501 | 331 | 1.371 | 0.065 | 0.409 | 0.531 |
| Child slept under an ITN last night | 0.630 | 0.024 | 679 | 423 | 1.081 | 0.038 | 0.583 | 0.678 |
| Pregnant women slept under an ITN last night | 0.664 | 0.065 | 65 | 41 | 1.121 | 0.098 | 0.534 | 0.794 |
| Received 3+ doses of SP/Fansidar | 0.788 | 0.050 | 279 | 191 | 2.021 | 0.063 | 0.689 | 0.888 |
| Child had fever in last 2 weeks | 0.173 | 0.025 | 619 | 406 | 1.545 | 0.147 | 0.122 | 0.224 |
| Child had blood taken from finger/heel | 0.728 | 0.064 | 100 | 70 | 1.320 | 0.089 | 0.599 | 0.857 |
| Child took ACT | 0.637 | 0.072 | 63 | 41 | 1.094 | 0.112 | 0.494 | 0.780 |
| Child has malaria (based on rapid test) | 0.336 | 0.035 | 299 | 184 | 1.254 | 0.105 | 0.266 | 0.407 |
| Child has malaria (based on microscopy test) | 0.122 | 0.022 | 299 | 184 | 1.085 | 0.179 | 0.078 | 0.166 |
| Discriminatory attitudes towards people with HIV | 0.801 | 0.031 | 950 | 614 | 2.422 | 0.039 | 0.738 | 0.864 |
| Condom use at last sex | 0.266 | 0.045 | 141 | 84 | 1.213 | 0.171 | 0.175 | 0.357 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.157 | 0.018 | 987 | 640 | 1.576 | 0.116 | 0.120 | 0.193 |
| Mobile phone ownership | 0.805 | 0.015 | 987 | 640 | 1.214 | 0.019 | 0.774 | 0.836 |
| Have and use a bank account or mobile phone for financial transactions | 0.760 | 0.017 | 987 | 640 | 1.276 | 0.023 | 0.725 | 0.795 |
| Participate in decision making (all three decisions) | 0.633 | 0.039 | 642 | 426 | 2.064 | 0.062 | 0.554 | 0.711 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.212 | 0.035 | 987 | 640 | 2.710 | 0.167 | 0.141 | 0.283 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.525 | 0.022 | 642 | 426 | 1.120 | 0.042 | 0.481 | 0.569 |
| Experienced physical violence since age 15 by any perpetrator | 0.350 | 0.052 | 377 | 245 | 2.120 | 0.150 | 0.245 | 0.455 |
| Experienced sexual violence by any perpetrator ever | 0.090 | 0.021 | 377 | 245 | 1.454 | 0.239 | 0.047 | 0.133 |
| Experienced sexual violence by any non-intimate partner | 0.045 | 0.015 | 377 | 245 | 1.350 | 0.320 | 0.016 | 0.074 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.194 | 0.028 | 330 | 208 | 1.273 | 0.143 | 0.138 | 0.249 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.295 | 0.044 | 330 | 208 | 1.741 | 0.149 | 0.207 | 0.383 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.127 | 0.026 | 415 | 267 | 1.588 | 0.205 | 0.075 | 0.180 |
| Secondary education or higher | 0.679 | 0.028 | 415 | 267 | 1.200 | 0.041 | 0.624 | 0.734 |
| Literacy | 0.635 | 0.029 | 415 | 267 | 1.237 | 0.046 | 0.576 | 0.693 |
| Use of the internet in last 12 months | 0.542 | 0.032 | 415 | 267 | 1.313 | 0.059 | 0.478 | 0.606 |
| Current tobacco use | 0.036 | 0.009 | 415 | 267 | 1.008 | 0.257 | 0.017 | 0.054 |
| Want no more children | 0.164 | 0.045 | 209 | 137 | 1.743 | 0.275 | 0.074 | 0.254 |
| Discriminatory attitudes towards people with HIV | 0.614 | 0.030 | 403 | 259 | 1.231 | 0.049 | 0.554 | 0.673 |
| Condom use at last sex | 0.478 | 0.052 | 119 | 74 | 1.138 | 0.110 | 0.373 | 0.583 |
| Ever tested for HIV and received results of last test | 0.093 | 0.019 | 415 | 267 | 1.344 | 0.206 | 0.055 | 0.132 |
| Male circumcision | 0.887 | 0.027 | 415 | 267 | 1.728 | 0.030 | 0.834 | 0.941 |
| Mobile phone ownership | 0.823 | 0.022 | 415 | 267 | 1.183 | 0.027 | 0.779 | 0.868 |
| Have and use a bank account or mobile phone for financial transactions | 0.794 | 0.030 | 415 | 267 | 1.507 | 0.038 | 0.734 | 0.854 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.195 | 0.023 | 415 | 267 | 1.197 | 0.119 | 0.149 | 0.242 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table B. 20 Sampling errors: Upper West sample, Ghana DHS 2022

| Variable | Value(R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Primary reliance on clean fuels and technology for cooking, space heating, and lighting | 0.042 | 0.008 | 4,359 | 1,774 | 1.402 | 0.181 | 0.027 | 0.057 |
| Births registered with civil authority | 0.780 | 0.031 | 625 | 253 | 1.667 | 0.039 | 0.719 | 0.841 |
| Ownership of at least one ITN | 0.695 | 0.025 | 1,061 | 427 | 1.737 | 0.035 | 0.646 | 0.744 |
| Ownership of at least one ITN for every two persons | 0.379 | 0.027 | 1,061 | 427 | 1.839 | 0.072 | 0.324 | 0.434 |
| At least basic drinking water service | 0.799 | 0.028 | 4,359 | 1,774 | 1.935 | 0.035 | 0.742 | 0.855 |
| Water available when needed | 0.826 | 0.039 | 4,359 | 1,774 | 2.905 | 0.048 | 0.747 | 0.904 |
| At least basic sanitation service | 0.118 | 0.017 | 4,359 | 1,774 | 1.476 | 0.143 | 0.084 | 0.152 |
| Using open defecation | 0.564 | 0.050 | 4,359 | 1,774 | 2.818 | 0.088 | 0.464 | 0.663 |
| Using a handwashing facility with soap and water | 0.257 | 0.056 | 4,224 | 1,732 | 3.644 | 0.217 | 0.145 | 0.368 |
| WOMEN |  |  |  |  |  |  |  |  |
| No education | 0.346 | 0.024 | 958 | 398 | 1.530 | 0.068 | 0.299 | 0.393 |
| Secondary education or higher | 0.472 | 0.032 | 958 | 398 | 1.972 | 0.067 | 0.409 | 0.536 |
| Literacy | 0.510 | 0.027 | 958 | 398 | 1.648 | 0.052 | 0.457 | 0.563 |
| Use of the internet in last 12 months | 0.203 | 0.021 | 958 | 398 | 1.600 | 0.103 | 0.161 | 0.245 |
| Current tobacco use | 0.006 | 0.003 | 958 | 398 | 1.015 | 0.412 | 0.001 | 0.011 |
| Total fertility rate (3 years) | 4.543 | 0.202 | 2,684 | 1,107 | 1.264 | 0.044 | 4.139 | 4.947 |
| Currently pregnant | 0.065 | 0.011 | 958 | 398 | 1.341 | 0.165 | 0.043 | 0.086 |
| Mean number of children ever born to women age 40-49 | 5.053 | 0.214 | 175 | 78 | 1.334 | 0.042 | 4.625 | 5.482 |
| Median birth interval | 41.224 | 1.340 | 432 | 180 | 1.329 | 0.033 | 38.544 | 43.905 |
| Ideal number of children | 5.186 | 0.102 | 956 | 398 | 1.573 | 0.020 | 4.983 | 5.389 |
| Total wanted fertility rate (3 years) | 4.217 | 0.195 | 2,684 | 1,107 | 1.278 | 0.046 | 3.827 | 4.607 |
| Currently using any contraceptive method | 0.368 | 0.029 | 609 | 258 | 1.467 | 0.078 | 0.311 | 0.426 |
| Currently using any modern method | 0.338 | 0.028 | 609 | 258 | 1.468 | 0.083 | 0.282 | 0.394 |
| Currently using pill | 0.022 | 0.006 | 609 | 258 | 0.983 | 0.265 | 0.010 | 0.034 |
| Currently using injectables | 0.146 | 0.022 | 609 | 258 | 1.519 | 0.149 | 0.102 | 0.189 |
| Currently using implants | 0.144 | 0.031 | 609 | 258 | 2.204 | 0.219 | 0.081 | 0.207 |
| Currently using male condoms | 0.005 | 0.002 | 609 | 258 | 0.880 | 0.509 | 0.000 | 0.010 |
| Currently using any traditional method | 0.030 | 0.008 | 609 | 258 | 1.094 | 0.251 | 0.015 | 0.046 |
| Unmet need for spacing | 0.114 | 0.015 | 609 | 258 | 1.147 | 0.129 | 0.085 | 0.144 |
| Unmet need for limiting | 0.064 | 0.014 | 609 | 258 | 1.394 | 0.217 | 0.036 | 0.091 |
| Unmet need total | 0.178 | 0.023 | 609 | 258 | 1.470 | 0.128 | 0.132 | 0.224 |
| Demand satisfied by modern methods | 0.619 | 0.043 | 338 | 141 | 1.600 | 0.069 | 0.533 | 0.704 |
| Demand satisfied by modern methods (all women) | 0.617 | 0.034 | 422 | 173 | 1.431 | 0.055 | 0.549 | 0.686 |
| Participation in decision making about family planning | 0.803 | 0.026 | 609 | 258 | 1.595 | 0.032 | 0.752 | 0.855 |
| Not exposed to any of the eight media sources | 0.356 | 0.025 | 958 | 398 | 1.586 | 0.069 | 0.307 | 0.406 |
| Neonatal mortality (last 0-9 years) | 15.574 | 3.981 | 1,116 | 467 | 1.038 | 0.256 | 7.613 | 23.536 |
| Postneonatal mortality (last 0-9 years) | 9.759 | 3.213 | 1,110 | 465 | 1.103 | 0.329 | 3.334 | 16.185 |
| Infant mortality (last 0-9 years) | 25.334 | 4.859 | 1,116 | 467 | 1.028 | 0.192 | 15.616 | 35.052 |
| Child mortality (last 0-9 years) | 17.304 | 5.703 | 1,105 | 461 | 1.326 | 0.330 | 5.897 | 28.711 |
| Under-5 mortality (last 0-9 years) | 42.199 | 8.258 | 1,122 | 470 | 1.289 | 0.196 | 25.683 | 58.715 |
| Perinatal mortality rate | 26.343 | 7.307 | 608 | 255 | 0.986 | 0.277 | 11.728 | 40.957 |
| Stillbirth rate | 10.335 | 4.915 | 608 | 255 | 1.029 | 0.476 | 0.506 | 20.165 |
| Early neonatal mortality rate | 16.174 | 5.313 | 601 | 252 | 0.955 | 0.328 | 5.549 | 26.800 |
| Received ANC from a skilled provider | 0.982 | 0.013 | 246 | 105 | 1.484 | 0.013 | 0.956 | 1.007 |
| 4+ ANC visits | 0.948 | 0.016 | 246 | 105 | 1.160 | 0.017 | 0.916 | 0.981 |
| 8+ ANC visits | 0.329 | 0.036 | 246 | 105 | 1.184 | 0.108 | 0.258 | 0.400 |
| Took any iron-containing supplements | 0.978 | 0.012 | 246 | 105 | 1.258 | 0.012 | 0.954 | 1.002 |
| Mothers protected against tetanus for last birth | 0.708 | 0.032 | 246 | 105 | 1.111 | 0.046 | 0.644 | 0.773 |
| Delivered in a health facility (live births) | 0.940 | 0.017 | 256 | 109 | 1.124 | 0.018 | 0.906 | 0.973 |
| Delivered by a skilled provider (live births) | 0.917 | 0.028 | 256 | 109 | 1.586 | 0.031 | 0.860 | 0.974 |
| Delivered by C-section (live births) | 0.178 | 0.030 | 256 | 109 | 1.145 | 0.169 | 0.118 | 0.239 |
| Women with postnatal check during first 2 days | 0.910 | 0.018 | 246 | 105 | 0.999 | 0.020 | 0.873 | 0.946 |
| Newborns with postnatal check during first 2 days | 0.896 | 0.021 | 246 | 105 | 1.072 | 0.023 | 0.854 | 0.938 |
| Any problem accessing health care | 0.666 | 0.039 | 958 | 398 | 2.557 | 0.059 | 0.587 | 0.744 |
| Ever had vaccination card | 0.983 | 0.012 | 135 | 58 | 1.075 | 0.012 | 0.959 | 1.007 |
| Received BCG vaccination | 0.957 | 0.016 | 135 | 58 | 0.933 | 0.017 | 0.924 | 0.989 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.930 | 0.032 | 135 | 58 | 1.480 | 0.035 | 0.865 | 0.995 |
| Received pneumococcal vaccination (3 doses) | 0.924 | 0.033 | 135 | 58 | 1.445 | 0.036 | 0.858 | 0.990 |
| Received measles and rubella 1 vaccination | 0.846 | 0.047 | 135 | 58 | 1.447 | 0.055 | 0.752 | 0.939 |
| Fully vaccinated according to national schedule (12-23 months) | 0.560 | 0.060 | 135 | 58 | 1.396 | 0.108 | 0.440 | 0.681 |
| Received measles and rubella 2 vaccination | 0.862 | 0.036 | 110 | 44 | 1.025 | 0.042 | 0.789 | 0.935 |
| Fully vaccinated according to national schedule (24-35 months) | 0.584 | 0.075 | 110 | 44 | 1.522 | 0.128 | 0.434 | 0.733 |
| Sought treatment for diarrhoea | 0.667 | 0.085 | 43 | 16 | 1.098 | 0.128 | 0.496 | 0.838 |
| Treated with ORS | 0.474 | 0.091 | 43 | 16 | 1.110 | 0.193 | 0.291 | 0.657 |
| Height-for-age (-3 SD) | 0.027 | 0.009 | 341 | 137 | 0.895 | 0.314 | 0.010 | 0.044 |
| Height-for-age (-2 SD) | 0.165 | 0.024 | 341 | 137 | 1.125 | 0.144 | 0.118 | 0.213 |
| Weight-for-height (-2 SD) | 0.064 | 0.014 | 341 | 137 | 0.967 | 0.216 | 0.036 | 0.092 |
| Weight-for-height (+2 SD) | 0.012 | 0.006 | 341 | 137 | 0.976 | 0.475 | 0.001 | 0.023 |
| Weight-for-age (-2 SD) | 0.114 | 0.016 | 342 | 137 | 0.933 | 0.138 | 0.082 | 0.145 |

Table B.20-Continued

| Variable | Value <br> (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Un- weighted <br> (N) | Weighted (WN) |  |  | (R-2SE) | (R+2SE) |
| Exclusive breastfeeding | 0.681 | 0.061 | 57 | 24 | 0.973 | 0.089 | 0.560 | 0.802 |
| Minimum dietary diversity (children 6-23 months) | 0.368 | 0.048 | 184 | 79 | 1.332 | 0.129 | 0.273 | 0.463 |
| Prevalence of anaemia (children 6-59 months) (haemoglobin <11.0 g/dl) | 0.612 | 0.033 | 307 | 122 | 1.100 | 0.054 | 0.546 | 0.678 |
| Body mass index (BMI) <18.5 | 0.061 | 0.016 | 345 | 140 | 1.256 | 0.266 | 0.029 | 0.094 |
| Body mass index (BMI) $\geq 25.0$ | 0.260 | 0.027 | 345 | 140 | 1.141 | 0.104 | 0.206 | 0.315 |
| Body mass index-for-age (-2 SD) | 0.030 | 0.019 | 101 | 43 | 1.122 | 0.642 | 0.000 | 0.068 |
| Body mass index-for-age (+1 SD) | 0.038 | 0.018 | 101 | 43 | 0.931 | 0.465 | 0.003 | 0.074 |
| Minimum dietary diversity (women 15-49) | 0.348 | 0.033 | 958 | 398 | 2.147 | 0.095 | 0.282 | 0.415 |
| Prevalence of any anaemia (women 15-49) | 0.463 | 0.027 | 487 | 200 | 1.201 | 0.059 | 0.409 | 0.517 |
| Child slept under an ITN last night | 0.561 | 0.035 | 628 | 254 | 1.490 | 0.062 | 0.491 | 0.630 |
| Pregnant women slept under an ITN last night | 0.558 | 0.060 | 65 | 25 | 0.963 | 0.107 | 0.438 | 0.678 |
| Received 3+ doses of SP/Fansidar | 0.779 | 0.036 | 246 | 105 | 1.359 | 0.046 | 0.706 | 0.851 |
| Child had fever in last 2 weeks | 0.085 | 0.018 | 577 | 242 | 1.462 | 0.212 | 0.049 | 0.121 |
| Child had blood taken from finger/heel | 0.571 | 0.082 | 56 | 21 | 1.148 | 0.144 | 0.407 | 0.735 |
| Child took ACT | 0.822 | 0.084 | 18 | 7 | 0.863 | 0.102 | 0.655 | 0.989 |
| Child has malaria (based on rapid test) | 0.302 | 0.039 | 307 | 122 | 1.359 | 0.128 | 0.225 | 0.379 |
| Child has malaria (based on microscopy test) | 0.134 | 0.026 | 307 | 122 | 1.237 | 0.193 | 0.082 | 0.187 |
| Discriminatory attitudes towards people with HIV | 0.838 | 0.020 | 923 | 383 | 1.651 | 0.024 | 0.798 | 0.878 |
| Condom use at last sex | 0.105 | 0.022 | 129 | 48 | 0.829 | 0.213 | 0.060 | 0.150 |
| Tested for HIV in the past 12 months and received the results of the last test | 0.131 | 0.013 | 958 | 398 | 1.209 | 0.101 | 0.104 | 0.157 |
| Mobile phone ownership | 0.621 | 0.024 | 958 | 398 | 1.543 | 0.039 | 0.572 | 0.669 |
| Have and use a bank account or mobile phone for financial transactions | 0.441 | 0.026 | 958 | 398 | 1.635 | 0.060 | 0.389 | 0.494 |
| Participate in decision making (all three decisions) | 0.393 | 0.050 | 609 | 258 | 2.491 | 0.126 | 0.294 | 0.492 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.484 | 0.022 | 958 | 398 | 1.339 | 0.045 | 0.441 | 0.527 |
| Make own decisions about sexual relations, contraceptive use, and reproductive care | 0.408 | 0.039 | 609 | 258 | 1.940 | 0.095 | 0.330 | 0.485 |
| Experienced physical violence since age 15 by any perpetrator | 0.237 | 0.028 | 380 | 148 | 1.302 | 0.120 | 0.180 | 0.294 |
| Experienced sexual violence by any perpetrator ever | 0.109 | 0.022 | 380 | 148 | 1.400 | 0.206 | 0.064 | 0.154 |
| Experienced sexual violence by any non-intimate partner | 0.037 | 0.014 | 380 | 148 | 1.429 | 0.377 | 0.009 | 0.064 |
| Experienced physical/sexual violence by the current or most recent husband or intimate partner ever | 0.177 | 0.019 | 336 | 126 | 0.891 | 0.105 | 0.140 | 0.214 |
| Experienced emotional/physical/sexual violence by any husband or intimate partner in the past 12 months | 0.222 | 0.026 | 336 | 126 | 1.162 | 0.119 | 0.169 | 0.275 |
| MEN |  |  |  |  |  |  |  |  |
| No education | 0.256 | 0.027 | 378 | 155 | 1.183 | 0.104 | 0.203 | 0.309 |
| Secondary education or higher | 0.565 | 0.033 | 378 | 155 | 1.276 | 0.058 | 0.499 | 0.630 |
| Literacy | 0.513 | 0.040 | 378 | 155 | 1.539 | 0.077 | 0.434 | 0.593 |
| Use of the internet in last 12 months | 0.395 | 0.031 | 378 | 155 | 1.222 | 0.078 | 0.334 | 0.457 |
| Current tobacco use | 0.039 | 0.011 | 378 | 155 | 1.150 | 0.296 | 0.016 | 0.061 |
| Want no more children | 0.177 | 0.036 | 204 | 86 | 1.348 | 0.204 | 0.105 | 0.249 |
| Discriminatory attitudes towards people with HIV | 0.778 | 0.031 | 366 | 151 | 1.414 | 0.040 | 0.717 | 0.840 |
| Condom use at last sex | 0.383 | 0.063 | 64 | 24 | 1.027 | 0.164 | 0.257 | 0.509 |
| Ever tested for HIV and received results of last test | 0.053 | 0.011 | 378 | 155 | 0.967 | 0.210 | 0.031 | 0.076 |
| Male circumcision | 0.783 | 0.056 | 378 | 155 | 2.614 | 0.071 | 0.671 | 0.895 |
| Mobile phone ownership | 0.782 | 0.030 | 378 | 155 | 1.398 | 0.038 | 0.722 | 0.841 |
| Have and use a bank account or mobile phone for financial transactions | 0.701 | 0.036 | 378 | 155 | 1.514 | 0.051 | 0.630 | 0.773 |
| Agree with at least one specified reason a husband is justified in wife beating | 0.365 | 0.040 | 378 | 155 | 1.600 | 0.109 | 0.285 | 0.444 |

Note: An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 GDHS, 2014 GDHS, and 2016 GMIS, this was known as a long-lasting insecticidal net (LLIN).

Table C. 1 Household age distribution
Single-year age distribution of the de facto household population by sex (weighted), Ghana DHS 2022

| Age | Women |  | Men |  | Age | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent |  | Number | Percent | Number | Percent |
| 0 | 792 | 2.4 | 881 | 2.9 | 42 | 419 | 1.3 | 367 | 1.2 |
| 1 | 902 | 2.7 | 903 | 3.0 | 43 | 285 | 0.9 | 283 | 0.9 |
| 2 | 801 | 2.4 | 794 | 2.6 | 44 | 237 | 0.7 | 188 | 0.6 |
| 3 | 923 | 2.8 | 800 | 2.7 | 45 | 350 | 1.1 | 296 | 1.0 |
| 4 | 806 | 2.4 | 947 | 3.2 | 46 | 225 | 0.7 | 219 | 0.7 |
| 5 | 807 | 2.4 | 793 | 2.6 | 47 | 229 | 0.7 | 217 | 0.7 |
| 6 | 902 | 2.7 | 935 | 3.1 | 48 | 265 | 0.8 | 257 | 0.9 |
| 7 | 829 | 2.5 | 894 | 3.0 | 49 | 200 | 0.6 | 195 | 0.6 |
| 8 | 894 | 2.7 | 896 | 3.0 | 50 | 423 | 1.3 | 284 | 0.9 |
| 9 | 862 | 2.6 | 849 | 2.8 | 51 | 289 | 0.9 | 110 | 0.4 |
| 10 | 909 | 2.7 | 837 | 2.8 | 52 | 440 | 1.3 | 222 | 0.7 |
| 11 | 731 | 2.2 | 749 | 2.5 | 53 | 297 | 0.9 | 145 | 0.5 |
| 12 | 874 | 2.6 | 887 | 3.0 | 54 | 330 | 1.0 | 154 | 0.5 |
| 13 | 925 | 2.8 | 793 | 2.6 | 55 | 319 | 1.0 | 190 | 0.6 |
| 14 | 765 | 2.3 | 811 | 2.7 | 56 | 280 | 0.8 | 154 | 0.5 |
| 15 | 629 | 1.9 | 688 | 2.3 | 57 | 175 | 0.5 | 147 | 0.5 |
| 16 | 520 | 1.6 | 622 | 2.1 | 58 | 195 | 0.6 | 147 | 0.5 |
| 17 | 540 | 1.6 | 519 | 1.7 | 59 | 147 | 0.4 | 111 | 0.4 |
| 18 | 515 | 1.5 | 550 | 1.8 | 60 | 285 | 0.9 | 255 | 0.9 |
| 19 | 459 | 1.4 | 491 | 1.6 | 61 | 106 | 0.3 | 139 | 0.5 |
| 20 | 567 | 1.7 | 495 | 1.7 | 62 | 241 | 0.7 | 239 | 0.8 |
| 21 | 457 | 1.4 | 358 | 1.2 | 63 | 149 | 0.4 | 149 | 0.5 |
| 22 | 593 | 1.8 | 550 | 1.8 | 64 | 139 | 0.4 | 149 | 0.5 |
| 23 | 525 | 1.6 | 421 | 1.4 | 65 | 241 | 0.7 | 223 | 0.7 |
| 24 | 487 | 1.5 | 362 | 1.2 | 66 | 94 | 0.3 | 94 | 0.3 |
| 25 | 490 | 1.5 | 412 | 1.4 | 67 | 119 | 0.4 | 106 | 0.4 |
| 26 | 463 | 1.4 | 342 | 1.1 | 68 | 127 | 0.4 | 118 | 0.4 |
| 27 | 467 | 1.4 | 353 | 1.2 | 69 | 78 | 0.2 | 59 | 0.2 |
| 28 | 490 | 1.5 | 414 | 1.4 | 70 | 180 | 0.5 | 145 | 0.5 |
| 29 | 397 | 1.2 | 383 | 1.3 | 71 | 43 | 0.1 | 30 | 0.1 |
| 30 | 570 | 1.7 | 497 | 1.7 | 72 | 107 | 0.3 | 113 | 0.4 |
| 31 | 330 | 1.0 | 273 | 0.9 | 73 | 67 | 0.2 | 65 | 0.2 |
| 32 | 488 | 1.5 | 406 | 1.4 | 74 | 68 | 0.2 | 56 | 0.2 |
| 33 | 407 | 1.2 | 288 | 1.0 | 75 | 127 | 0.4 | 98 | 0.3 |
| 34 | 388 | 1.2 | 338 | 1.1 | 76 | 58 | 0.2 | 43 | 0.1 |
| 35 | 406 | 1.2 | 398 | 1.3 | 77 | 72 | 0.2 | 44 | 0.1 |
| 36 | 395 | 1.2 | 284 | 0.9 | 78 | 77 | 0.2 | 37 | 0.1 |
| 37 | 409 | 1.2 | 298 | 1.0 | 79 | 41 | 0.1 | 27 | 0.1 |
| 38 | 377 | 1.1 | 302 | 1.0 | 80+ | 551 | 1.7 | 297 | 1.0 |
| 39 | 420 | 1.3 | 324 | 1.1 | Don't know | 18 | 0.1 | 12 | 0.0 |
| 40 | 475 | 1.4 | 432 | 1.4 |  |  |  |  |  |
| 41 | 220 | 0.7 | 199 | 0.7 | Total | 33,299 | 100.0 | 29,948 | 100.0 |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview.

Table C.2.1 Age distribution of eligible and interviewed women
De facto household population of women age 10-54, number and percent distribution of interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by 5-year age groups, Ghana DHS 2022

| Age group | Household population of women age $10-54$ | Interviewed women age 15-49 |  | Percentage of eligible women interviewed |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Percentage |  |
| 10-14 | 4,205 | na | na | na |
| 15-19 | 2,663 | 2,600 | 18.0 | 97.6 |
| 20-24 | 2,630 | 2,593 | 18.0 | 98.6 |
| 25-29 | 2,308 | 2,266 | 15.7 | 98.2 |
| 30-34 | 2,183 | 2,150 | 14.9 | 98.5 |
| 35-39 | 2,007 | 1,970 | 13.7 | 98.2 |
| 40-44 | 1,636 | 1,594 | 11.1 | 97.5 |
| 45-49 | 1,269 | 1,236 | 8.6 | 97.4 |
| 50-54 | 1,780 | na | na | na |
| 15-49 | 14,696 | 14,409 | 100.0 | 98.0 |
| Ratios |  |  |  |  |
| 10-14 to 15-19 | 158 | na | na | na |
| 50-54 to 45-49 | 140 | na | na | na |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of women and interviewed women are household weights. Age is based on the Household Questionnaire.
na $=$ not applicable

## Table C.2.2 Age distribution of eligible and interviewed men

De facto household population of men age 10-64, number and percent distribution of interviewed men age 15-59, and percentage of eligible men who were interviewed (weighted), by 5 -year age groups, Ghana DHS 2022

| Age group | Household population of men age 10-64 | Interviewed men age 15-59 |  | Percentage of eligible men interviewed |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Percentage |  |
| 10-14 | 2,074 | na | na | na |
| 15-19 | 1,376 | 1,352 | 20.2 | 98.3 |
| 20-24 | 1,001 | 973 | 14.6 | 97.2 |
| 25-29 | 889 | 861 | 12.9 | 96.9 |
| 30-34 | 827 | 791 | 11.8 | 95.7 |
| 35-39 | 801 | 774 | 11.6 | 96.7 |
| 40-44 | 723 | 677 | 10.1 | 93.6 |
| 45-49 | 548 | 524 | 7.8 | 95.6 |
| 50-54 | 421 | 410 | 6.1 | 97.4 |
| 55-59 | 333 | 322 | 4.8 | 96.7 |
| 60-64 | 479 | na | na | na |
| 15-59 | 6,919 | 6,685 | 100.0 | 96.6 |
| Ratios |  |  |  |  |
| 10-14 to 15-19 | 151 | na | na | na |
| 55-59 to 60-64 | 144 | na | na | na |

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of men and interviewed men are household weights. Age is based on the household questionnaire
na $=$ not applicable

Table C. 3 Age displacement at ages 14/15
Number of women and men age 12-18 listed in the household schedule by single-year age and age ratio 15/14, according to region (weighted), Ghana DHS 2022

| Region | Age |  |  |  |  |  |  | Total age 12-18 | Age ratio (age 15/ age 14) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12 | 13 | 14 | 15 | 16 | 17 | 18 |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| Western | 51 | 50 | 49 | 37 | 42 | 39 | 28 | 297 | 75.5 |
| Central | 60 | 106 | 79 | 101 | 67 | 74 | 74 | 561 | 127.3 |
| Greater Accra | 118 | 146 | 101 | 105 | 58 | 75 | 69 | 672 | 103.5 |
| Volta | 46 | 33 | 46 | 41 | 34 | 31 | 32 | 261 | 89.7 |
| Eastern | 79 | 86 | 64 | 62 | 32 | 40 | 31 | 394 | 96.9 |
| Ashanti | 206 | 195 | 136 | 88 | 81 | 107 | 109 | 922 | 64.4 |
| Western North | 29 | 27 | 21 | 19 | 15 | 15 | 16 | 143 | 93.4 |
| Ahafo | 24 | 21 | 18 | 15 | 11 | 14 | 11 | 114 | 87.1 |
| Bono | 34 | 40 | 31 | 18 | 32 | 28 | 19 | 201 | 56.7 |
| Bono East | 33 | 34 | 35 | 26 | 28 | 21 | 33 | 210 | 74.6 |
| Oti | 33 | 29 | 22 | 16 | 19 | 20 | 16 | 155 | 72.4 |
| Northern | 65 | 65 | 68 | 38 | 40 | 33 | 29 | 339 | 56.3 |
| Savannah | 19 | 20 | 22 | 18 | 14 | 11 | 14 | 117 | 82.8 |
| North East | 25 | 18 | 20 | 13 | 12 | 8 | 8 | 104 | 64.3 |
| Upper East | 33 | 40 | 44 | 26 | 21 | 19 | 24 | 206 | 58.5 |
| Upper West | 23 | 25 | 31 | 17 | 20 | 16 | 17 | 150 | 56.2 |
| Total | 876 | 936 | 787 | 640 | 527 | 552 | 529 | 4,846 | 81.4 |
| MEN |  |  |  |  |  |  |  |  |  |
| Western | 55 | 40 | 54 | 36 | 42 | 28 | 43 | 297 | 65.8 |
| Central | 106 | 86 | 79 | 77 | 62 | 71 | 62 | 542 | 97.1 |
| Greater Accra | 121 | 90 | 93 | 88 | 76 | 71 | 66 | 605 | 93.9 |
| Volta | 46 | 43 | 46 | 24 | 32 | 28 | 26 | 246 | 52.4 |
| Eastern | 81 | 63 | 69 | 76 | 55 | 39 | 40 | 423 | 111.3 |
| Ashanti | 175 | 158 | 165 | 120 | 119 | 90 | 119 | 945 | 72.7 |
| Western North | 26 | 31 | 26 | 23 | 12 | 20 | 11 | 149 | 86.4 |
| Ahafo | 20 | 22 | 12 | 16 | 13 | 14 | 14 | 111 | 138.0 |
| Bono | 20 | 29 | 23 | 22 | 25 | 25 | 22 | 167 | 93.1 |
| Bono East | 38 | 29 | 31 | 24 | 25 | 23 | 26 | 196 | 76.9 |
| Oti | 31 | 30 | 32 | 21 | 22 | 20 | 24 | 180 | 67.0 |
| Northern | 70 | 74 | 75 | 65 | 58 | 45 | 48 | 437 | 86.5 |
| Savannah | 19 | 20 | 21 | 18 | 15 | 11 | 14 | 116 | 85.2 |
| North East | 25 | 18 | 27 | 18 | 15 | 12 | 12 | 128 | 65.9 |
| Upper East | 39 | 39 | 46 | 39 | 30 | 31 | 17 | 240 | 84.3 |
| Upper West | 26 | 24 | 22 | 29 | 25 | 11 | 17 | 154 | 133.9 |
| Total | 898 | 796 | 820 | 694 | 626 | 540 | 560 | 4,935 | 84.6 |

Table C. 4 Age displacement at ages 49/50
Number of women and men age 47-53 listed in the household schedule by single-year age and age ratio 50/49, according to region (weighted), Ghana DHS 2022

| Region | Age |  |  |  |  |  |  | Total age 47-53 | Ageratio(age 50/age 49) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 47 | 48 | 49 | 50 | 51 | 52 | 53 |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| Western | 21 | 12 | 11 | 28 | 22 | 24 | 19 | 136 | 264.6 |
| Central | 20 | 37 | 29 | 55 | 20 | 56 | 24 | 241 | 190.7 |
| Greater Accra | 32 | 48 | 19 | 72 | 53 | 75 | 33 | 333 | 369.9 |
| Volta | 9 | 9 | 12 | 30 | 13 | 28 | 11 | 112 | 253.2 |
| Eastern | 28 | 29 | 9 | 46 | 15 | 38 | 38 | 204 | 513.2 |
| Ashanti | 55 | 46 | 54 | 78 | 40 | 70 | 71 | 414 | 145.5 |
| Western North | 4 | 9 | 6 | 8 | 6 | 13 | 6 | 53 | 138.1 |
| Ahafo | 3 | 6 | 4 | 9 | 8 | 7 | 9 | 45 | 202.2 |
| Bono | 4 | 9 | 8 | 11 | 17 | 10 | 12 | 72 | 134.7 |
| Bono East | 11 | 8 | 9 | 11 | 12 | 19 | 10 | 79 | 126.6 |
| Oti | 5 | 9 | 7 | 10 | 7 | 14 | 8 | 60 | 141.6 |
| Northern | 21 | 18 | 14 | 30 | 31 | 38 | 24 | 177 | 216.4 |
| Savannah | 7 | 3 | 2 | 11 | 11 | 14 | 7 | 56 | 494.1 |
| North East | 3 | 4 | 2 | 13 | 8 | 11 | 7 | 48 | 694.3 |
| Upper East | 10 | 10 | 12 | 14 | 22 | 21 | 15 | 104 | 110.6 |
| Upper West | 6 | 9 | 5 | 9 | 8 | 9 | 10 | 56 | 174.0 |
| Total | 239 | 268 | 202 | 434 | 294 | 448 | 304 | 2,189 | 214.3 |
| MEN |  |  |  |  |  |  |  |  |  |
| Western | 16 | 23 | 19 | 20 | 5 | 15 | 8 | 106 | 107.8 |
| Central | 27 | 19 | 8 | 24 | 12 | 19 | 17 | 126 | 291.4 |
| Greater Accra | 35 | 50 | 44 | 53 | 13 | 43 | 26 | 265 | 121.1 |
| Volta | 7 | 11 | 13 | 15 | 11 | 15 | 3 | 76 | 112.3 |
| Eastern | 20 | 22 | 16 | 28 | 16 | 21 | 18 | 141 | 175.6 |
| Ashanti | 30 | 63 | 53 | 51 | 18 | 28 | 22 | 265 | 96.3 |
| Western North | 12 | 9 | 4 | 14 | 3 | 6 | 5 | 53 | 379.2 |
| Ahafo | 6 | 8 | 5 | 10 | 2 | 10 | 3 | 44 | 214.1 |
| Bono | 9 | 6 | 5 | 5 | 5 | 10 | 6 | 46 | 90.6 |
| Bono East | 7 | 14 | 5 | 11 | 3 | 10 | 5 | 55 | 214.2 |
| Oti | 6 | 9 | 3 | 10 | 2 | 7 | 3 | 40 | 351.5 |
| Northern | 18 | 22 | 9 | 21 | 8 | 15 | 14 | 109 | 234.0 |
| Savannah | 6 | 6 | 4 | 8 | 2 | 8 | 4 | 38 | 182.6 |
| North East | 3 | 3 | 4 | 4 | 2 | 6 | 3 | 25 | 90.3 |
| Upper East | 14 | 4 | 5 | 13 | 7 | 11 | 5 | 58 | 234.8 |
| Upper West | 7 | 4 | 5 | 6 | 4 | 4 | 4 | 33 | 105.6 |
| Total | 224 | 273 | 203 | 292 | 113 | 228 | 147 | 1,481 | 143.9 |

Table C. 6 Completeness of reporting
Percentage of observations missing information for selected demographic and health questions (weighted), Ghana DHS 2022

| Subject | Percentage with information missing | Number of cases |
| :---: | :---: | :---: |
| Date of live birth or stillbirth (last 15 years) |  |  |
| Missing day only | 1.36 | 23,619 |
| Missing month but year reported | 1.95 | 23,619 |
| Missing year | 0.00 | 23,619 |
| Date of live birth or stillbirth (last 5 years) |  |  |
| Missing day only | 0.62 | 8,713 |
| Missing month but year reported | 0.52 | 8,713 |
| Date of birth of women |  |  |
| Missing month but year reported | 1.22 | 15,014 |
| Missing year | 0.07 | 15,014 |
| Date of birth of men |  |  |
| Missing month but year reported | 0.84 | 7,044 |
| Missing year | 0.15 | 7,044 |
| Diarrhoea in last 2 weeks | 0.52 | 8,268 |
| Anthropometry of children |  |  |
| Height | 2.02 | 4,393 |
| Weight | 2.00 | 4,393 |
| Height or weight | 2.02 | 4,393 |
| Anthropometry of women |  |  |
| Height | 2.65 | 7,628 |
| Weight | 2.70 | 7,628 |
| Height or weight | 2.70 | 7,628 |
| Anthropometry of men |  |  |
| Height | 4.02 | 6,166 |
| Weight | 4.04 | 6,166 |
| Height or weight | 4.04 | 6,166 |
| Anaemia |  |  |
| Children | 3.68 | 3,983 |
| Women | 6.88 | 7,628 |
| Men | 173.72 | 6,920 |
| Malaria |  |  |
| Children | 2.57 | 3,983 |

Table C. 7 Standardisation exercise results from anthropometry training
Trainees' precision and accuracy for height measurements taken during the standardisation exercise for anthropometry, Ghana DHS 2022

| Measurer | Standardisation exercise ${ }^{1}$ |  |
| :---: | :---: | :---: |
|  | Trainees' precision ${ }^{2}$ | Trainees accuracy ${ }^{2}$ |
| Trainee 1 | 0.50 | 0.47 |
| Trainee 2 | 0.40 | 0.51 |
| Trainee 3 | 0.42 | 0.38 |
| Trainee 4 | 0.36 | 0.45 |
| Trainee 5 | 0.36 | 0.54 |
| Trainee 6 | 0.18 | 0.50 |
| Trainee 7 | 0.21 | 0.56 |
| Trainee 8 | 0.19 | 0.51 |
| Trainee 9 | 0.31 | 0.47 |
| Trainee 10 | 0.39 | 0.46 |
| Trainee 11 | 0.37 | 0.58 |
| Trainee 12 | 0.31 | 0.57 |
| Trainee 13 | 0.23 | 0.44 |
| Trainee 14 | 0.33 | 0.73 |
| Trainee 15 | 0.49 | 0.65 |
| Trainee 16 | 0.29 | 0.74 |
| Trainee 17 | 0.22 | 0.61 |
| Trainee 18 | 0.45 | 0.85 |
| Trainee 19 | 0.31 | 0.65 |
| Trainee 20 | 0.65 | 0.85 |
| Trainee 21 | 0.23 | 0.25 |
| Trainee 22 | 0.69 | 0.34 |
| Trainee 23 | 2.96 | 1.46 |
| Trainee 24 | 0.47 | 0.52 |
| Trainee 25 | 0.59 | 0.52 |
| Trainee 26 | 0.40 | 0.40 |
| Trainee 27 | 0.22 | 0.31 |
| Trainee 28 | 0.09 | 0.17 |
| Trainee 29 | 0.43 | 0.72 |
| Trainee 30 | 0.20 | 0.30 |
| Trainee 31 | 0.08 | 0.26 |
| Trainee 32 | 0.36 | 0.52 |
| Trainee 33 | 0.22 | 0.34 |
| Trainee 34 | 0.30 | 0.58 |
| Trainee 35 | 0.35 | 0.41 |
| Trainee 36 | 0.29 | 0.62 |
| Trainee 37 | 0.21 | 0.32 |
| Trainee 38 | 0.15 | 0.30 |
| Trainee 39 | 0.28 | 0.42 |
| Trainee 40 | 0.18 | 0.33 |
| Trainee 41 | 0.44 | 0.47 |
| Trainee 42 | 0.31 | 0.39 |
| Trainee 43 | 0.24 | 0.46 |
| Trainee 44 | 0.39 | 0.44 |
| Trainee 45 | 0.35 | 0.71 |
| Trainee 46 | 0.89 | 0.54 |
| Trainee 47 | 0.33 | 0.27 |
| Trainee 48 | 6.22 | 3.11 |
| Trainee 49 | 0.84 | 0.73 |
| Trainee 50 | 0.33 | 0.58 |
| Trainee 51 | 0.21 | 0.36 |
| Trainee 52 | 0.30 | 0.40 |
| Trainee 53 | 0.11 | 0.37 |
| Trainee 54 | 0.43 | 0.35 |
| Trainee 55 | 0.15 | 0.40 |
| Trainee 56 | 0.28 | 0.52 |
| Trainee 57 | 0.28 | 0.37 |
| Trainee 58 | 0.28 | 0.25 |
| Trainee 59 | 0.34 | 0.55 |
| Trainee 60 | 0.42 | 0.44 |
| Trainee 61 | 0.30 | 0.59 |
| Trainee 62 | 1.81 | 0.87 |
| Trainee 63 | 0.34 | 0.49 |
| Trainee 64 | 0.56 | 0.82 |
| Trainee 65 | 0.28 | 0.55 |

Continued...

Table C.7-Continued

|  | Standardisation exercise ${ }^{1}$ |  |
| :--- | :---: | :---: |
| Measurer | Trainees' <br> precision | Trainees' $^{\prime}$ <br> accuracy $^{2}$ |
| Trainee 66 | 0.32 | 0.53 |
| Trainee 67 | 0.27 | 0.46 |
| Trainee 68 | 0.15 | 0.58 |
| Trainee 69 | 0.35 | 0.44 |
| Trainee 70 | 0.29 | 0.63 |
| Trainee 71 | 0.36 | 0.49 |
| Trainee 72 | 0.54 | 0.75 |
| Trainee 73 | 0.18 | 0.62 |
| Trainee 74 | 0.31 | 0.60 |
| Trainee 75 | 0.17 | 0.68 |
| Trainee 76 | 0.46 | 0.61 |
| Trainee 77 | 0.30 | 0.59 |
| Trainee 78 | 1.81 | 0.87 |
| Average | 1.81 | 0.87 |

${ }^{1}$ Ten children were measured twice for each standardisation exercise. ${ }^{2}$ Trainees' precision and accuracy are defined in terms of a technical error of measurement (TEM), which is calculated as $\sqrt{ } \sum\left(\mathrm{D}^{2}\right) /(2 N)$, where $D$ is the difference in height and $N$ is the number of repeat measurements. An acceptable TEM according to WHO-UNICEF is a TEM of $<0.6 \mathrm{~cm}$ for precision and $<0.8 \mathrm{~cm}$ for accuracy.

| Table C.8-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with data incomplete or missing for: |  |  |  | Percentage with implausible data for: |  |  |  |  |  | Percentage with valid data fors: |  |  |  |
| Background characteristic | Height ${ }^{1}$ | Weight ${ }^{2}$ | Month or year of birth ${ }^{3}$ | Number of children | $\begin{gathered} \text { Height-for- } \\ \text { age }^{4} \end{gathered}$ | Number of children with complete height and age ${ }^{5}$ | Weight-forheight ${ }^{6}$ | Number of children with complete weight and height | $\begin{aligned} & \text { Weight-for- } \\ & \hline \end{aligned}$ $\mathrm{age}^{7}$ | Number of children with complete weight and age ${ }^{5}$ | $\begin{gathered} \text { Height-for- } \\ \text { age } \end{gathered}$ | $\begin{aligned} & \text { Weight-for- } \\ & \text { height } \end{aligned}$ | $\begin{gathered} \begin{array}{c} \text { Weight-for- } \\ \text { age } \end{array} \\ \hline \end{gathered}$ | Number of children |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 2.2 | 2.1 | 0.2 | 1,509 | 0.3 | 1,473 | 0.1 | 1,476 | 0.1 | 1,475 | 97.3 | 97.7 | 97.6 | 1,509 |
| Primary | 1.3 | 1.1 | 0.1 | 703 | 0.1 | 694 | 0.0 | 694 | 0.1 | 695 | 98.6 | 98.7 | 98.7 | 703 |
| Secondary | 1.7 | 1.7 | 0.2 | 2,051 | 0.0 | 2,015 | 0.3 | 2,017 | 0.0 | 2,015 | 98.2 | 98.0 | 98.2 | 2,051 |
| More than secondary | 4.4 | 4.4 | 0.9 | 344 | 0.3 | 329 | 0.6 | 329 | 0.3 | 329 | 95.3 | 95.1 | 95.3 | 344 |
| Measurer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Measurer 1 | 4.8 | 4.8 | 2.4 | 83 | 0.0 | 79 | 0.0 | 79 | 0.0 | 79 | 95.2 | 95.2 | 95.2 | 83 |
| Measurer 2 | 0.0 | 0.0 | 0.0 | 131 | 0.8 | 131 | 0.0 | 131 | 0.0 | 131 | 99.2 | 100.0 | 100.0 | 131 |
| Measurer 3 | 0.0 | 0.0 | 0.0 | 110 | 0.0 | 110 | 0.0 | 110 | 0.0 | 110 | 100.0 | 100.0 | 100.0 | 110 |
| Measurer 4 | 3.3 | 3.3 | 0.0 | 120 | 0.0 | 116 | 0.0 | 116 | 0.0 | 116 | 96.7 | 96.7 | 96.7 | 120 |
| Measurer 5 | 0.0 | 0.0 | 0.0 | 104 | 0.0 | 104 | 1.9 | 104 | 0.0 | 104 | 100.0 | 98.1 | 100.0 | 104 |
| Measurer 6 | 5.6 | 5.6 | 1.1 | 90 | 0.0 | 85 | 0.0 | 85 | 0.0 | 85 | 94.4 | 94.4 | 94.4 | 90 |
| Measurer 7 | 1.3 | 1.3 | 0.0 | 79 | 1.3 | 78 | 0.0 | 78 | 0.0 | 78 | 97.5 | 98.7 | 98.7 | 79 |
| Measurer 8 | 1.4 | 1.4 | 0.0 | 73 | 0.0 | 72 | 0.0 | 72 | 0.0 | 72 | 98.6 | 98.6 | 98.6 | 73 |
| Measurer 9 | 1.0 | 1.0 | 0.0 | 100 | 0.0 | 99 | 0.0 | 99 | 0.0 | 99 | 99.0 | 99.0 | 99.0 | 100 |
| Measurer 10 | 0.0 | 0.0 | 0.0 | 79 | 0.0 | 79 | 0.0 | 79 | 0.0 | 79 | 100.0 | 100.0 | 100.0 | 79 |
| Measurer 11 | 0.0 | 0.0 | 0.0 | 108 | 0.0 | 108 | 0.0 | 108 | 0.0 | 108 | 100.0 | 100.0 | 100.0 | 108 |
| Measurer 12 | 1.0 | 1.0 | 1.0 | 99 | 0.0 | 98 | 0.0 | 98 | 0.0 | 98 | 99.0 | 99.0 | 99.0 | 99 |
| Measurer 13 | 0.8 | 0.8 | 0.0 | 120 | 0.0 | 119 | 0.8 | 119 | 0.0 | 119 | 99.2 | 98.3 | 99.2 | 120 |
| Measurer 14 | 2.5 | 2.5 | 0.0 | 118 | 0.0 | 115 | 0.0 | 115 | 0.0 | 115 | 97.5 | 97.5 | 97.5 | 118 |
| Measurer 15 | 8.3 | 8.3 | 0.0 | 84 | 0.0 | 77 | 0.0 | 77 | 0.0 | 77 | 91.7 | 91.7 | 91.7 | 84 |
| Measurer 16 | 0.0 | 0.0 | 0.9 | 107 | 0.0 | 106 | 0.0 | 107 | 0.0 | 106 | 99.1 | 100.0 | 99.1 | 107 |
| Measurer 17 | 2.4 | 2.4 | 1.6 | 124 | 0.0 | 121 | 0.0 | 121 | 0.0 | 121 | 97.6 | 97.6 | 97.6 | 124 |
| Measurer 18 | 0.0 | 0.0 | 0.0 | 121 | 0.0 | 121 | 0.0 | 121 | 0.0 | 121 | 100.0 | 100.0 | 100.0 | 121 |
| Measurer 19 | 0.6 | 0.6 | 0.0 | 165 | 0.0 | 164 | 0.0 | 164 | 0.6 | 164 | 99.4 | 99.4 | 98.8 | 165 |
| Measurer 20 | 3.4 | 3.4 | 1.4 | 148 | 0.0 | 142 | 0.7 | 143 | 0.0 | 142 | 95.9 | 95.9 | 95.9 | 148 |
| Measurer 21 | 1.4 | 1.4 | 0.0 | 148 | 0.0 | 146 | 0.7 | 146 | 0.0 | 146 | 98.6 | 98.0 | 98.6 | 148 |
| Measurer 22 | 2.0 | 2.0 | 0.0 | 102 | 0.0 | 100 | 0.0 | 100 | 0.0 | 100 | 98.0 | 98.0 | 98.0 | 102 |
| Measurer 23 | 1.4 | 1.4 | 0.9 | 214 | 0.0 | 209 | 0.5 | 211 | 0.0 | 209 | 97.7 | 98.1 | 97.7 | 214 |
| Measurer 24 | 2.6 | 2.6 | 0.0 | 196 | 0.0 | 191 | 0.0 | 191 | 0.0 | 191 | 97.4 | 97.4 | 97.4 | 196 |
| Measurer 25 | 5.3 | 5.3 | 0.0 | 171 | 1.2 | 162 | 0.0 | 162 | 1.2 | 162 | 93.6 | 94.7 | 93.6 | 171 |
| Measurer 26 | 0.5 | 0.5 | 0.5 | 199 | 0.0 | 197 | 0.0 | 198 | 0.0 | 197 | 99.0 | 99.5 | 99.0 | 199 |
| Measurer 27 | 2.2 | 1.7 | 0.0 | 181 | 0.0 | 177 | 0.0 | 177 | 0.0 | 178 | 97.8 | 97.8 | 98.3 | 181 |
| Measurer 28 | 2.5 | 2.5 | 0.0 | 201 | 1.0 | 196 | 0.0 | 196 | 0.5 | 196 | 96.5 | 97.5 | 97.0 | 201 |
| Measurer 29 | 6.8 | 6.8 | 0.0 | 222 | 0.0 | 207 | 0.5 | 207 | 0.0 | 207 | 93.2 | 92.8 | 93.2 | 222 |
| Measurer 30 | 0.5 | 0.0 | 0.0 | 201 | 0.0 | 200 | 0.0 | 200 | 0.0 | 201 | 99.5 | 99.5 | 100.0 | 201 |
| Measurer 31 | 0.5 | 0.0 | 0.0 | 196 | 0.0 | 195 | 0.0 | 195 | 0.0 | 196 | 99.5 | 99.5 | 100.0 | 196 |
| Measurer 32 | 3.1 | 3.1 | 0.0 | 129 | 0.0 | 125 | 1.6 | 125 | 0.0 | 125 | 96.9 | 95.3 | 96.9 | 129 |
| Measurer 33 | 2.8 | 2.8 | 0.0 | 142 | 0.0 | 138 | 0.0 | 138 | 0.0 | 138 | 97.2 | 97.2 | 97.2 | 142 |
| Measurer 34 | 2.5 | 2.5 | 0.0 | 160 | 0.6 | 156 | 0.0 | 156 | 0.0 | 156 | 96.9 | 97.5 | 97.5 | 160 |
| Measurer 35 | 2.1 | 2.1 | 0.0 | 144 | 0.0 | 141 | 0.0 | 141 | 0.0 | 141 | 97.9 | 97.9 | 97.9 | 144 |
| Measurer 36 | 0.0 | 0.0 | 0.0 | 157 | 0.6 | 157 | 0.6 | 157 | 0.0 | 157 | 99.4 | 99.4 | 100.0 | 157 |
| Measurer 37 | 0.0 | 0.0 | 0.0 | 115 | 0.0 | 115 | 0.0 | 115 | 0.0 | 115 | 100.0 | 100.0 | 100.0 | 115 |
| Total | 2.1 | 2.0 | 0.2 | 5,045 | 0.2 | 4,936 | 0.2 | 4,941 | 0.1 | 4,939 | 97.7 | 97.7 | 97.8 | 5,045 |

[^35]Table C. 9 Height measurements from random subsample of measured children
Differences in first height measurement and second height measurement among children under age 5 (0-59 months) randomly selected and remeasured, according to region and measurer (unweighted), Ghana DHS 2022

| Region and measurer | Median difference in height measurements ${ }^{1}$ | Percentage of height measurements with a difference $>1 \mathrm{~cm}$ | Number of children randomly selected and remeasured |
| :---: | :---: | :---: | :---: |
| Region |  |  |  |
| Western | 0.228 | 8.1 | 62 |
| Central | 0.105 | 2.9 | 69 |
| Greater Accra | 0.231 | 7.4 | 81 |
| Volta | 0.202 | 0.0 | 64 |
| Eastern | 0.210 | 1.4 | 73 |
| Ashanti | 0.161 | 2.4 | 84 |
| Western North | 0.225 | 6.3 | 64 |
| Ahafo | 0.185 | 0.0 | 64 |
| Bono | 0.171 | 3.2 | 62 |
| Bono East | 0.133 | 6.1 | 66 |
| Oti | 0.200 | 6.0 | 67 |
| Northern | 0.238 | 4.1 | 74 |
| Savannah | 0.188 | 8.8 | 68 |
| North East | 0.237 | 3.0 | 67 |
| Upper East | 0.227 | 0.0 | 66 |
| Upper West | 0.225 | 3.0 | 66 |
| Measurer |  |  |  |
| Measurer 1 | 0.320 | 3.7 | 27 |
| Measurer 2 | 0.205 | 13.8 | 29 |
| Measurer 3 | 0.090 | 0.0 | 29 |
| Measurer 4 | 0.097 | 3.3 | 30 |
| Measurer 5 | 0.212 | 10.3 | 29 |
| Measurer 6 | 0.313 | 8.0 | 25 |
| Measurer 7 | 0.188 | 3.3 | 30 |
| Measurer 8 | 0.300 | 3.4 | 29 |
| Measurer 9 | 0.219 | 0.0 | 31 |
| Measurer 10 | 0.182 | 3.4 | 29 |
| Measurer 11 | 0.246 | 0.0 | 29 |
| Measurer 12 | 0.206 | 0.0 | 30 |
| Measurer 13 | 0.163 | 0.0 | 29 |
| Measurer 14 | 0.127 | 6.5 | 31 |
| Measurer 15 | 0.250 | 3.6 | 28 |
| Measurer 16 | 0.230 | 7.1 | 28 |
| Measurer 17 | 0.180 | 3.7 | 27 |
| Measurer 18 | 0.203 | 0.0 | 29 |
| Measurer 19 | 0.080 | 3.0 | 33 |
| Measurer 20 | 0.207 | 10.0 | 30 |
| Measurer 21 | 0.300 | 0.0 | 31 |
| Measurer 22 | 0.077 | 3.3 | 30 |
| Measurer 23 | 0.379 | 0.0 | 32 |
| Measurer 24 | 0.182 | 0.0 | 32 |
| Measurer 25 | 0.205 | 9.7 | 31 |
| Measurer 26 | 0.161 | 0.0 | 30 |
| Measurer 27 | 0.169 | 0.0 | 29 |
| Measurer 28 | 0.333 | 25.8 | 31 |
| Measurer 29 | 0.245 | 3.2 | 31 |
| Measurer 30 | 0.230 | 6.7 | 30 |
| Measurer 31 | 0.175 | 0.0 | 31 |
| Measurer 32 | 0.225 | 0.0 | 28 |
| Measurer 33 | 0.150 | 0.0 | 30 |
| Measurer 34 | 0.229 | 0.0 | 31 |
| Measurer 35 | 0.289 | 10.3 | 29 |
| Measurer 36 | 0.145 | 3.4 | 29 |
| Measurer 37 | 0.207 | 0.0 | 30 |
| Total | 0.199 | 3.9 | 1,097 |

[^36]Table C. 10 Interference in height and weight measurements of children
Among children under age 5 measured for height or weight, percentage for whom hairstyle or ornamentation interfered with height measurement and percentage who were not minimally dressed or who wore heavy permanent ornaments during weight measurement, according to background characteristics (unweighted), Ghana DHS 2022

| Background characteristic | Percentage of children for whom hairstyle or ornamentation interfered with height measurement | Percentage of children who were not minimally dressed or who wore heavy permanent ornaments during weight measurement | Number of children |
| :---: | :---: | :---: | :---: |
| Age in months |  |  |  |
| <6 | 1.1 | 0.6 | 527 |
| 6-11 | 2.2 | 0.2 | 504 |
| 12-23 | 1.4 | 0.5 | 1,066 |
| 24-35 | 1.1 | 0.9 | 977 |
| 36-47 | 2.0 | 0.3 | 1,011 |
| 48-59 | 0.9 | 0.1 | 960 |
| 0-23 | 1.5 | 0.4 | 2,097 |
| 24-59 | 1.4 | 0.4 | 2,948 |
| Sex |  |  |  |
| Male | 1.0 | 0.5 | 2,600 |
| Female | 1.9 | 0.4 | 2,445 |
| Residence |  |  |  |
| Urban | 1.8 | 0.4 | 2,078 |
| Rural | 1.1 | 0.5 | 2,967 |
| Region |  |  |  |
| Western | 2.6 | 0.4 | 234 |
| Central | 2.6 | 0.0 | 269 |
| Greater Accra | 1.2 | 0.4 | 243 |
| Volta | 1.0 | 1.4 | 209 |
| Eastern | 0.8 | 0.8 | 239 |
| Ashanti | 1.6 | 0.3 | 320 |
| Western North | 2.8 | 0.0 | 218 |
| Ahafo | 0.4 | 1.1 | 278 |
| Bono | 3.3 | 0.5 | 213 |
| Bono East | 1.8 | 0.6 | 328 |
| Oti | 0.3 | 0.0 | 307 |
| Northern | 1.5 | 0.8 | 517 |
| Savannah | 1.4 | 0.0 | 435 |
| North East | 0.2 | 0.2 | 537 |
| Upper East | 2.6 | 0.6 | 351 |
| Upper West | 0.6 | 0.3 | 347 |
| Measurer |  |  |  |
| Measurer 1 | 1.2 | 1.2 | 83 |
| Measurer 2 | 3.8 | 0.0 | 131 |
| Measurer 3 | 0.0 | 0.0 | 110 |
| Measurer 4 | 5.8 | 0.0 | 120 |
| Measurer 5 | 0.0 | 0.0 | 104 |
| Measurer 6 | 3.3 | 0.0 | 90 |
| Measurer 7 | 0.0 | 1.3 | 79 |
| Measurer 8 | 0.0 | 0.0 | 73 |
| Measurer 9 | 0.0 | 3.0 | 100 |
| Measurer 10 | 2.5 | 2.5 | 79 |
| Measurer 11 | 0.0 | 0.0 | 108 |
| Measurer 12 | 0.0 | 0.0 | 99 |
| Measurer 13 | 2.5 | 0.0 | 120 |
| Measurer 14 | 1.7 | 0.8 | 118 |
| Measurer 15 | 2.4 | 0.0 | 84 |
| Measurer 16 | 3.7 | 0.0 | 107 |
| Measurer 17 | 0.0 | 0.0 | 124 |
| Measurer 18 | 0.8 | 0.0 | 121 |
| Measurer 19 | 2.4 | 1.2 | 165 |
| Measurer 20 | 0.7 | 0.0 | 148 |
| Measurer 21 | 1.4 | 0.0 | 148 |
| Measurer 22 | 0.0 | 0.0 | 102 |
| Measurer 23 | 0.5 | 0.5 | 214 |
| Measurer 24 | 3.1 | 2.0 | 196 |
| Measurer 25 | 0.0 | 0.6 | 171 |

[^37]Table C.10-Continued

|  | Percentage of <br> children for whom <br> hairstyle or | Percentage of <br> ornamentation <br> interfered with height <br> minimally dressed or <br> mho wore heavy | (ermanent ornaments <br> during weight |
| :--- | :---: | :---: | :---: |

Table C. 11 Interference in height and weight measurements of women and men
Among women age 15-49 measured for height or weight, percentage for whom hairstyle or ornamentation interfered with height measurement and percentage who were not wearing lightweight clothing or who wore heavy permanent ornaments during weight measurement, according to background characteristics (unweighted), Ghana DHS 2022

| Background characteristic | Percentage for whom hairstyle or ornamentation interfered with height measurement | Percentage who were not wearing lightweight clothing or who wore heavy permanent ornaments during weight measurement | Number of women |
| :---: | :---: | :---: | :---: |
| Age |  |  |  |
| 15-19 | 11.5 | 1.9 | 1,441 |
| 20-29 | 10.0 | 1.4 | 2,558 |
| 30-39 | 7.4 | 1.3 | 2,195 |
| 40-49 | 6.0 | 1.3 | 1,482 |
| Residence |  |  |  |
| Urban | 9.3 | 1.9 | 3,776 |
| Rural | 8.2 | 1.1 | 3,900 |
| Region |  |  |  |
| Western | 16.2 | 1.0 | 421 |
| Central | 18.2 | 2.1 | 522 |
| Greater Accra | 3.8 | 1.3 | 521 |
| Volta | 6.0 | 2.0 | 400 |
| Eastern | 3.1 | 1.6 | 450 |
| Ashanti | 2.6 | 0.5 | 583 |
| Western North | 7.7 | 1.3 | 375 |
| Ahafo | 2.5 | 0.7 | 438 |
| Bono | 22.1 | 1.1 | 435 |
| Bono East | 5.2 | 0.8 | 478 |
| Oti | 9.3 | 0.0 | 452 |
| Northern | 4.9 | 2.7 | 590 |
| Savannah | 6.4 | 1.9 | 535 |
| North East | 16.6 | 0.8 | 475 |
| Upper East | 14.5 | 2.4 | 510 |
| Upper West | 3.5 | 2.4 | 491 |
| Measurer |  |  |  |
| Measurer 1 | 10.2 | 1.5 | 197 |
| Measurer 2 | 23.8 | 0.0 | 193 |
| Measurer 3 | 5.3 | 3.2 | 187 |
| Measurer 4 | 33.3 | 2.0 | 252 |
| Measurer 5 | 2.6 | 0.5 | 196 |
| Measurer 6 | 5.6 | 1.0 | 195 |
| Measurer 7 | 3.2 | 2.7 | 187 |
| Measurer 8 | 2.6 | 2.6 | 155 |
| Measurer 9 | 3.9 | 1.7 | 180 |
| Measurer 10 | 4.4 | 3.3 | 180 |
| Measurer 11 | 0.5 | 0.0 | 184 |
| Measurer 12 | 0.5 | 0.5 | 200 |
| Measurer 13 | 2.1 | 0.5 | 193 |
| Measurer 14 | 4.6 | 0.5 | 218 |
| Measurer 15 | 13.5 | 1.4 | 148 |
| Measurer 16 | 5.1 | 1.7 | 178 |
| Measurer 17 | 1.5 | 0.0 | 197 |
| Measurer 18 | 1.6 | 0.5 | 192 |
| Measurer 19 | 3.2 | 1.8 | 218 |
| Measurer 20 | 6.2 | 0.0 | 210 |
| Measurer 21 | 20.1 | 0.0 | 229 |
| Measurer 22 | 1.1 | 1.1 | 180 |
| Measurer 23 | 1.5 | 0.0 | 272 |
| Measurer 24 | 7.5 | 5.9 | 255 |
| Measurer 25 | 0.0 | 1.5 | 204 |
| Measurer 26 | 10.2 | 2.4 | 245 |
| Measurer 27 | 1.7 | 0.4 | 241 |
| Measurer 28 | 9.8 | 1.3 | 234 |
| Measurer 29 | 8.4 | 1.9 | 215 |
| Measurer 30 | 26.1 | 0.0 | 203 |

Continued.

Table C.11-Continued

| Background characteristic | Percentage for whom hairstyle or ornamentation interfered with height measurement | Percentage who were not wearing lightweight clothing or who wore heavy permanent ornaments during weight measurement | Number of women |
| :---: | :---: | :---: | :---: |
| Measurer 31 | 20.2 | 0.0 | 213 |
| Measurer 32 | 47.0 | 3.2 | 253 |
| Measurer 33 | 0.9 | 3.3 | 215 |
| Measurer 34 | 3.7 | 0.9 | 217 |
| Measurer 35 | 5.0 | 3.8 | 239 |
| Measurer 36 | 10.1 | 1.1 | 189 |
| Measurer 37 | 1.4 | 0.5 | 212 |
| Total | 8.8 | 1.4 | 7,676 |

Table C. 12 Heaping in anthropometric measurements for children (digit preference)
Distribution of weight and height/length measurements by decimal digit recorded (unweighted), Ghana DHS 2022

|  | Weight |  |  | Height or length |  |
| :--- | :---: | :---: | :---: | :---: | :---: | ---: |
| Digit | Number | Percent |  | Number | Percent |
| 0 | 499 | 10.0 |  | 441 | 8.9 |
| 1 | 525 | 10.6 |  | 540 | 10.9 |
| 2 | 525 | 10.6 |  | 558 | 11.2 |
| 3 | 514 | 10.4 |  | 563 | 11.3 |
| 4 | 496 | 10.0 |  | 544 | 11.0 |
| 5 | 501 | 10.1 |  | 597 | 12.0 |
| 6 | 485 | 9.8 |  | 474 | 9.6 |
| 7 | 469 | 9.4 |  | 439 | 8.8 |
| 8 | 466 | 9.4 |  | 427 | 8.6 |
| 9 | 486 | 9.8 |  | 380 | 7.7 |
| Total | 4,966 | 100.0 |  | 4,963 | 100.0 |
| Index of dissimilarity ${ }^{1}$ | na | 1.6 |  | na | 6.5 |

Note: Table includes all children with weight and height/length measurements, regardless of the completeness of date of birth information and cases with implausible data. Both weight and length/height measurements were recorded with one decimal digit.
na $=$ not applicable
${ }^{1}$ The index of dissimilarity is a measure of digit preference calculated as one-half of the sum of absolute differences between the observed and expected percentage. It can be interpreted as the percentage of values that would need to be redistributed in order to achieve a uniform distribution.

Table C. 13 Observation of mosquito nets
Percentage of all mosquito nets observed by the interviewers, according to background characteristics (weighted), Ghana DHS 2022

| Background | Percentage of <br> mosquito nets <br> observed by <br> interviewers | Number of mosquito <br> nets |
| :--- | :---: | :---: |
| characteristic |  |  |
| Residence | 80.0 | 13,556 |
| Urban | 84.6 | 15,054 |
| Rural |  |  |
| Region | 81.3 | 1,905 |
| Western | 77.9 | 3,329 |
| Central | 73.5 | 3,249 |
| Greater Accra | 91.9 | 1,775 |
| Volta | 84.9 | 2,772 |
| Eastern | 81.0 | 5,653 |
| Ashanti | 85.5 | 978 |
| Western North | 91.0 | 810 |
| Ahafo | 85.7 | 1,128 |
| Bono | 88.3 | 1,281 |
| Bono East | 93.4 | 1,011 |
| Oti | 82.0 | 1,748 |
| Northern | 86.4 | 681 |
| Savannah | 88.9 | 382 |
| North East | 76.7 | 1,309 |
| Upper East | 85.3 | 601 |
| Upper West |  |  |
| Wealth quintile | 85.9 | 5,798 |
| Lowest | 84.8 | 6,232 |
| Second | 84.6 | 6,067 |
| Middle | 78.7 | 5,511 |
| Fourth | 76.9 | 5,003 |
| Highest | 82.4 | 28,611 |
| Total |  |  |

Table C. 14 Observation of handwashing facility
Percent distribution of handwashing facilities in all households by whether or not they were observed by the interviewers, according to background characteristics (weighted), Ghana DHS 2022

| Background characteristic | Handwashing facility observed |  | Handwashing facility not observed |  |  | Total | Number of households |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fixed place | Mobile | Not in dwelling, yard, or plot | No permission to see | Other reason |  |  |
| Residence |  |  |  |  |  |  |  |
| Urban | 27.7 | 62.6 | 7.9 | 0.6 | 1.2 | 100.0 | 10,320 |
| Rural | 10.0 | 77.1 | 10.6 | 0.6 | 1.7 | 100.0 | 7,613 |
| Region |  |  |  |  |  |  |  |
| Western | 27.1 | 71.6 | 0.6 | 0.1 | 0.7 | 100.0 | 1,282 |
| Central | 20.2 | 66.6 | 12.9 | 0.1 | 0.2 | 100.0 | 1,950 |
| Greater Accra | 37.2 | 60.6 | 1.7 | 0.3 | 0.2 | 100.0 | 3,183 |
| Volta | 15.7 | 81.8 | 2.5 | 0.0 | 0.0 | 100.0 | 888 |
| Eastern | 16.1 | 79.9 | 1.3 | 0.3 | 2.3 | 100.0 | 1,701 |
| Ashanti | 20.3 | 66.6 | 7.2 | 1.8 | 4.0 | 100.0 | 3,469 |
| Western North | 9.3 | 80.5 | 7.9 | 0.7 | 1.6 | 100.0 | 521 |
| Ahafo | 10.2 | 66.7 | 22.5 | 0.2 | 0.5 | 100.0 | 388 |
| Bono | 12.6 | 67.6 | 18.9 | 0.2 | 0.7 | 100.0 | 668 |
| Bono East | 8.5 | 57.2 | 31.5 | 0.4 | 2.3 | 100.0 | 693 |
| Oti | 6.3 | 82.8 | 10.8 | 0.1 | 0.1 | 100.0 | 444 |
| Northern | 14.8 | 64.8 | 19.6 | 0.2 | 0.7 | 100.0 | 1,064 |
| Savannah | 5.5 | 85.7 | 8.2 | 0.4 | 0.1 | 100.0 | 316 |
| North East | 9.7 | 65.7 | 21.1 | 0.6 | 2.9 | 100.0 | 287 |
| Upper East | 13.3 | 59.2 | 25.4 | 0.4 | 1.7 | 100.0 | 654 |
| Upper West | 6.9 | 83.2 | 7.8 | 1.9 | 0.2 | 100.0 | 427 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 5.3 | 76.7 | 16.3 | 0.5 | 1.2 | 100.0 | 2,797 |
| Second | 5.9 | 79.4 | 11.9 | 0.6 | 2.2 | 100.0 | 3,151 |
| Middle | 8.6 | 80.1 | 9.2 | 0.6 | 1.5 | 100.0 | 3,762 |
| Fourth | 17.0 | 73.8 | 7.2 | 0.4 | 1.6 | 100.0 | 4,204 |
| Highest | 55.9 | 38.9 | 3.7 | 0.9 | 0.7 | 100.0 | 4,020 |
| Total | 20.2 | 68.7 | 9.1 | 0.6 | 1.4 | 100.0 | 17,933 |

Table C. 16 Vaccination cards photographed
Percentage of children under age 3 reported to have a vaccination card, percentage whose vaccination card was seen by the interviewer, percentage whose vaccination card was photographed or was not photographed
by reason, and among children with a vaccination card seen, percentage of cards photographed, according to background characteristics (weighted), Ghana DHS 2022

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: Vaccination cards include cards, booklets, and other home-based records.

Table C. 17 Number of enumeration areas completed by month and region
During the period of fieldwork, number of enumeration areas (EAs) completed by month, according to region, and percent distribution of EAs completed by month, Ghana DHS 2022

|  | Month of fieldwork |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Region | January | October | November | December |
|  |  |  |  |  |


| Western | 5 | 7 | 14 | 11 | 37 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Central | 7 | 7 | 15 | 11 | 40 |
| Greater Accra | 6 | 6 | 16 | 20 | 48 |
| Volta | 7 | 5 | 13 | 12 | 37 |
| Eastern | 4 | 6 | 14 | 17 | 41 |
| Ashanti | 5 | 9 | 19 | 15 | 48 |
| Western North | 5 | 7 | 13 | 12 | 37 |
| Ahafo | 9 | 3 | 8 | 16 | 36 |
| Bono | 21 | 0 | 0 | 15 | 36 |
| Bono East | 16 | 3 | 5 | 12 | 36 |
| Oti | 0 | 8 | 20 | 8 | 36 |
| Northern | 0 | 7 | 23 | 39 |  |
| Savannah | 0 | 6 | 18 | 13 | 37 |
| North East | 0 | 8 | 17 | 11 | 36 |
| Upper East | 0 | 8 | 20 | 9 | 37 |
| Upper West | 0 | 11 | 20 | 6 | 37 |
| Total number of EAs | 85 | 101 | 235 | 197 | 618 |
| Percent distribution | 13.8 | 16.3 | 38.0 | 31.9 | 100.0 |

Note: EAs are classified by month according to the date by which the last Biomarker Questionnaire in the EA was completed.

Table C. 18 Positive rapid diagnostic test (RDT) results by month and region
Among children age 6-59 months tested for malaria by RDT, percentage who tested positive by month of fieldwork, according to region, Ghana DHS 2022

| Region | Percentage of children classified as having malaria by month of fieldwork |  |  |  | Total percentage | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | October | November | December |  |  |
| Western | (6.6) | (24.0) | 32.3 | 16.8 | 22.5 | 241 |
| Central | (2.8) | (9.8) | 23.8 | 18.4 | 16.1 | 397 |
| Greater Accra | (0.0) | (0.0) | 6.8 | 3.1 | 3.4 | 462 |
| Volta | (6.6) | (4.7) | 18.9 | 11.2 | 11.5 | 154 |
| Eastern | * | (5.2) | 17.5 | 18.3 | 14.8 | 294 |
| Ashanti | (7.9) | (5.1) | 10.1 | 16.9 | 11.1 | 705 |
| Western North | * | (7.9) | 14.4 | 12.2 | 11.4 | 91 |
| Ahafo | (11.9) | (24.6) | 31.2 | 20.3 | 21.4 | 87 |
| Bono | 10.4 | * | * | 20.8 | 15.1 | 124 |
| Bono East | 21.3 | * | (15.7) | 27.7 | 22.1 | 185 |
| Oti | * | 14.9 | 19.7 | 40.0 | 22.6 | 119 |
| Northern | * | 7.8 | 25.4 | 14.6 | 18.8 | 430 |
| Savannah | * | 17.2 | 30.0 | 28.0 | 26.6 | 113 |
| North East | * | 26.9 | 25.8 | 28.7 | 26.9 | 130 |
| Upper East | * | 32.9 | 29.3 | 42.1 | 33.6 | 184 |
| Upper West | * | 23.6 | 27.6 | 42.1 | 30.2 | 122 |
| Total | 8.9 | 11.3 | 20.1 | 18.1 | 16.5 | 3,838 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table C.18a Positive rapid diagnostic test (RDT) results by month and region (unweighted)
Among children age 6-59 months tested for malaria by RDT, number who tested positive by month of fieldwork, according to region, Ghana DHS 2022

|  | Number of children classified as having malaria by month of <br> fieldwork |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Region | January | October | November | December | Total |
| Western | 25 | 40 | 76 | 71 | 212 |
| Central | 38 | 38 | 75 | 87 | 238 |
| Greater Accra | 31 | 29 | 70 | 72 | 202 |
| Volta | 43 | 28 | 54 | 67 | 192 |
| Eastern | 19 | 34 | 67 | 90 | 210 |
| Ashanti | 39 | 48 | 105 | 93 | 285 |
| Western North | 22 | 49 | 55 | 57 | 183 |
| Ahafo | 45 | 25 | 50 | 117 | 237 |
| Bono | 104 | 0 | 0 | 89 | 193 |
| Bono East | 117 | 15 | 44 | 111 | 287 |
| Oti | 0 | 64 | 147 | 52 | 263 |
| Northern | 0 | 94 | 259 | 99 | 452 |
| Savannah | 0 | 78 | 185 | 112 | 375 |
| North East | 0 | 118 | 220 | 124 | 462 |
| Upper East | 0 | 81 | 144 | 74 | 299 |
| Upper West | 0 | 91 | 155 | 61 | 307 |
| Total | 483 | 832 | 1,706 | 1,376 | 4,397 |

Table C. 19 Concordance and discordance between RDT and microscopy results
Among children age 6-59 months tested for malaria, percent distribution of results according to concordance and discordance between RDT and microscopy test results, Ghana DHS 2022

|  | Concordance |  | Discordance |  | Total percentage | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | RDT+/ microscopy+ | RDT-/ microscopy- | RDT+/ microscopy- | RDT-/ microscopy+ |  |  |
| Total | 7.6 | 82.4 | 9.0 | 1.1 | 100.0 | 3,838 |

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GHANA
GHANA STATISTICAL SERVICE





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Hello. My name is $\qquad$ I am working with the Ghana Statistical Service (GSS). We are conducting a survey about health and other topics all over Ghana. The information we collect will help the government to plan health services. Your household was selected for the survey. I would like to ask you some questions about your household. The questions usually take about 15 to 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time. In case you need more information about the survey, you may contact the person listed on this card.
gIVE CARD WITH CONTACT INFORMATION

Do you have any questions?
May I begin the interview now?

SIGNATURE OF INTERVIEWER
DATE $\qquad$
RESPONDENT AGREES
TO BE INTERVIEWED . . 1

RESPONDENT DOES NOT AGREE
TO BE INTERVIEWED . . $2 \longrightarrow$ END


HOUSEHOLD SCHEDULE


| 7A) Just to make sure that I have a complete listing: are there any other people such as small children or infants that we have not listed? | YES | ADD TO <br> TABLE | NO |
| :---: | :---: | :---: | :---: |
| 7B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? | YES | ADD TO <br> TABLE | NO |
| 7C) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? | YES | ADD TO <br> TABLE | NO |

CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOL[
$01=$ HEAD
02 = WIFE OR HUSBAND 03 = SON OR DAUGHTER 04 = SON-IN-LAW OR DAUGHTER-IN-LAW $05=$ GRANDCHILD $06=$ PARENT

07 = PARENT-IN-LAW
08 = BROTHER OR SISTER
09 = OTHER RELATIVE 10 = ADOPTED/FOSTER/ STEPCHILD
11 = NOT RELATED
98 = DON'T KNOW

HOUSEHOLD SCHEDULE

|  | IF AGE 0-17 YEARS |  |  |  | IF AGE 4 YEARS OR OLDER |  | IF AGE 4-24 YEARS |  | $\begin{aligned} & \text { IF AGE 0-4 } \\ & \text { YEARS } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \end{aligned}$ | SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS |  |  |  | EVER ATTENDEDSCHOOL |  | CURRENT/RECENT SCHOOL ATTENDANCE |  | BIRTH REGISTRATION |
|  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  | Is <br> (NAME)'s biological mother alive? | Does (NAME)'s biological mother usually live in this household or was she a guest last night? <br> RECORD MOTHER'S LINE NUMBER. <br> IF NO, RECORD '00'. | Is <br> (NAME)'s biological father alive? | Does (NAME)'s biological father usually live in this household or was he a guest last night? <br> RECORD FATHER'S LINE NUMBER. <br> IF NO, RECORD '00'. | Has <br> (NAME) <br> ever <br> attended school or any early childhood education program? | What is the highest level of school (NAME) has attended? <br> What is the highest grade (NAME) completed at that level? | Did (NAME) attend school or any early childhood education program at any time during the 2022 school year? | During [this/that] school year, what level and grade [is/was] (NAME) attending? | Does (NAME) have a birth certificate? <br> IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority? <br> 1 = HAS CERTIFICATE 2 = REGISTERED 3 = NEITHER $8=$ DON'T KNOW |
| 01 | $\begin{array}{cc} \text { Y N } \quad \text { OK } \\ 1 & 2 \\ \text { GO TO } & \downarrow \end{array}$ |  | $\begin{array}{cc} \text { Y N DK } \\ 1 & 2 \\ \text { GO TO } & \downarrow \\ \text { 16 } \end{array}$ | $\square$ | $\begin{array}{cc} \mathrm{Y} & \mathrm{~N} \\ 1 & 2 \\ & \downarrow \\ \text { GO TO } & 20 \end{array}$ |  | $\begin{array}{cc} \mathrm{Y} & \mathrm{~N} \\ 1 & 2 \\ & \downarrow \\ \text { GO TO } & 20 \end{array}$ |  |  |
| 02 | $\begin{gathered} 1 \\ \text { GO TO } \nabla^{2}{ }^{8} \end{gathered}$ | $\ldots$ | $c^{1} \quad 2{ }^{2} \nabla^{8}$ | In | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ | $\square$  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { GO TO } & 20 \end{array}$ |   |  |
| 03 | $\begin{gathered} 12 \\ \text { GO TO }{ }^{2}{ }^{\downarrow} 14 \end{gathered}$ |  | $c^{1} \begin{gathered} 2 \\ \text { GO TO } \\ { }^{1} \end{gathered}{ }^{8}$ | $\square$ |  | $\square \square$ |  |   |  |
| 04 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } \nabla^{8} \end{array}$ | $+$ |  | $\begin{aligned} & \hline \\ & \hline \end{aligned}$ |  | $\square$ |  |  |  |
| 05 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO }{ }^{2}{ }^{8} \end{array}$ |  | $c^{1}{ }^{2} \nabla^{8}$ | $\pm$ | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ | $\square$ |  |   | $\square$ |
| 06 | $\begin{gathered} 12 \\ \text { GO TO } \nabla^{8}{ }^{8} \end{gathered}$ |  | $c^{1} \begin{gathered} 2 \\ \text { GO TO } \\ { }^{2} \end{gathered}{ }^{8}$ | $\square$ | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ | $\square \square$ |  |   |  |
| 07 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO }{ }^{\downarrow}{ }^{8} \end{array}$ | I | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } & { }^{1} \end{array}{ }^{8}$ | $\ldots$ | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ | $\square$ |  |  | $\square$ |
| 08 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } \\ \downarrow \end{array}{ }^{8}$ |  | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } \\ { }^{2} \end{array}{ }^{8}$ |  | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ | $\square$ | $\begin{array}{ll} 1 & \\ & \\ & \downarrow \\ \text { GO TO } & \\ 20 \end{array}$ |   | $\square$ |
| 09 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } \\ \downarrow \end{array}{ }^{8}$ |  | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } & { }^{1} \end{array}{ }^{8}$ | $\underline{\square}$ | $\begin{array}{lr} 1 & \stackrel{2}{\downarrow} \\ & \stackrel{1}{\downarrow} \text { GO TO } 20 \end{array}$ |  |  |  <br> $\square$ | $\square$ |
| 10 | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } \nabla^{8} \end{array}$ |  | $\begin{array}{cc} 1 & 2 \\ \text { GO TO } & \nabla^{8} \end{array}$ |  |  | $\square$ |  |   |  |

〕
CODES FOR Qs. 17 AND 19: EDUCATION

LEVEL
0 =PRE- PRIMARY
1 = PRIMARY
2 = MIDDLE
$6=$ HIGHER

GRADE
$00=$ LESS THAN 1 YEAR COMPLETED (USE '00' FOR Q. 17 ONLY. THIS CODE IS NOT ALLOWED FOR Q. 19.)
$98=$ DON'T KNOW

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 101 | What is the main source of drinking water for members of your household? |  |  |
| 102 | What is the main source of water used by your household for other purposes such as cooking and handwashing? |  | $\longrightarrow^{106}$ |
| 103 | Where is that water source located? |  | $\xrightarrow{\rightarrow} 106$ |
| 104 | How long does it take to go there, get water, and come back? | MINUTE؟...................   <br> DON'T KNOW ............................... 998   |  |
| 105 | Who usually goes to this source to collect the water for your household? <br> RECORD THE PERSON'S NAME AND LINE NUMBER FROM THE HOUSEHOLD SCHEDULE. IF THE PERSON IS NOT LISTED IN THE HOUSEHOLD ROSTER, RECORD '00’. | NAME $\qquad$ <br> LINE NUMBER $\qquad$ $\square$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 106 | In the last month, has there been any time when your household did not have sufficient quantities of drinking water when needed? |  |  |
| 107 | Do you do anything to the water to make it safer to drink? |  | $\xrightarrow{ } 109$ |
| 108 | What do you usually do to make the water safer to drink? Anything else? <br> RECORD ALL MENTIONED. |  |  |
| 109 | What kind of toilet facility do members of your household usually use? <br> IF NOT POSSIBLE TO DETERMINE, ASK PERMISSION TO OBSERVE THE FACILITY. |  | $\rightarrow 117$ |
| 110 | Do you share this toilet facility with other households? |  | $\rightarrow 112$ |
| 111 | Including your own household, how many households use this toilet facility? |  |  |
| 111A | What kind of shared toilet is it? | PUBLIC TOILET/ <br> COMMUNAL TOILET <br> COMPOUND TOILET |  |
| 111B | How much do you pay to use the facility? | GHC $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \square{ }^{\text {a }}$ |  |
| 112 | Where is this toilet facility located? |  |  |
| 113 | CHECK 109: $\begin{array}{r} \text { CODES 12, 13, 21, } \\ 22,23, \text { OR } 31 \text { CIRCLED } \end{array}$ | THER | $\rightarrow 117$ |
| 114 | Has your (septic tank/pit latrine/composting toilet) ever been emptied? |  | $\xrightarrow{\rightarrow} 117$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 115 | The last time the (septic tank/pit latrine/composting toilet) was emptied, was it emptied by a service provider? |  |  |
| 116 | Where were the contents emptied to? |  |  |
| 117 | In your household, what type of cookstove is mainly used for cooking? |  | $\begin{array}{\|l} \rightarrow^{121} \\ \rightarrow 120 \\ \rightarrow 120 \\ \hline \\ \rightarrow 123 \\ \rightarrow 120 \end{array}$ |
| 118 | Does the stove have a chimney? |  |  |
| 120 | What type of fuel or energy source is used in this cookstove? |  |  |
| 121 | Is the cooking usually done in the house, in a separate building, or outdoors? |  | $\rightarrow>123$ |
| 122 | Do you have a separate room which is used as a kitchen? |  |  |
| 123 | What does this household use to heat the home when needed? <br> IF THE RESPONDENT SAYS ELECTRICITY OR GAS, ASK: <br> What type of heater is the (electricity/gas) used in? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 124 | Does it have a chimney? | YES <br> NO <br> DON'T KNOW |  |
| 125 | What type of fuel or energy source is used in this heater? | ELECTRICITY <br> PIPED NATURAL GAS <br> SOLAR AIR HEATER <br> LIQUEFIED PETROLEUM GAS (LPG)/ <br> COOKING GAS <br> BIOGAS <br> ALCOHOL/ETHANOL <br> GASOLINE/DIESEI . <br> KEROSENE/PARAFFIN <br> COAL/LIGNITE <br> CHARCOAL <br> WOOD <br> STRAW/SHRUBS/GRASS <br> AGRICULTURAL CROP <br> ANIMAL DUNG/WASTE <br> PROCESSED BIOMASS (PELLETS) O <br> WOODCHIPS <br> GARBAGE/PLASTIC <br> SAWDUST <br> OTHER $\qquad$ |  |
| 126 | At night, what does your household mainly use to light the home? | ELECTRICITY <br> SOLAR LANTERN <br> RECHARGEABLE FLASHLIGHT, TORCH <br> LANTERN <br> BATTERY POWERED FLASHLIGHT, T LANTERN <br> BIOGAS LAMP <br> GASOLINE LAMP <br> KEROSENE OR PARAFFIN LAMP <br> CHARCOAL <br> WOOD <br> STRAW/SHRUBS/GRASS <br> AGRICULTURAL CROP <br> ANIMAL DUNG/WASTE <br> OIL LAMP <br> CANDLE <br> NO LIGHTING IN HOUSEHOLD <br> OTHER $\qquad$ |  |
| 127 | How many rooms in this household are used for sleeping? | ROOMS .............. |  |
| 128 | Does this household own any livestock, herds, other farm animals, or poultry? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\rightarrow 130$ |
| 129 | How many of the following animals does this household own? <br> IF NONE, RECORD '00'. <br> IF 95 OR MORE, RECORD '95'. <br> IF UNKNOWN, RECORD '98'. <br> a) Milk cows or bulls? <br> b) Other cattle? <br> c) Horses, donkeys, or mules? <br> d) Goats? <br> e) Sheep? <br> f) Chickens or other poultry? <br> g) Rabbits? <br> h) Grasscutters? <br> i) Pigs? | a) COWS/BULLS <br> b) OTHER CATTLE <br> c) HORSES/DONKEYS/MULES <br> d) GOATS <br> e) SHEEP <br> f) CHICKENS/POULTRY. <br> g) RABBITS <br> h) GRASCUTTERS <br> i) PIGS |  |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 130 | Does any member of this household own any agricultural land? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 132$ |
| 131 | How many hectares of agricultural land do members of this household own? <br> IF 95 OR MORE HECTARES, RECORD '950' <br> IF 95 OR MORE ACRES, RECORD IN HECTARES <br> IF 95 OR MORE PLOTS, RECORD IN ACRES |  $\qquad$ DON'T KNOW | $\begin{aligned} & 950 \\ & 998 \end{aligned}$ |  |
| 132 | Does your household have: <br> a) Electricity? <br> b) A radio? <br> c) A television? <br> d) A non-mobile telephone? <br> e) A computer? <br> f) A refrigerator? <br> g) A freezer? <br> h) An electric generator/Invertor? <br> i) A washing machine? <br> j) A photo camera? (NOT ON PHONE) <br> k) A video deck/DVD/VCD? <br> I) A sewing machine? <br> m) A bed? <br> n) A table? <br> o) A chair? <br> p) A cabinet/cupboard? |  | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |
| 133 | Does any member of this household own: <br> a) A watch? <br> b) A mobile phone? <br> c) A bicycle? <br> d) A motorcycle or motor scooter? <br> e) An animal-drawn cart? <br> f) A car or truck? <br> g) A boat with a motor? <br> h) A boat without a motor? |  | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |
| 134 | Does any member of this household have an account in a bank or other financial institution? | YES NO |  |  |
| 135 | Does any member of this household use a mobile phone to make financial transactions such as sending or receiving money, paying bills, purchasing goods or services, or receiving wages? | YES <br> NO |  |  |
| 136 | How often does anyone smoke inside your house? Would you say daily, weekly, monthly, less often than once a month, or never? | DAILY <br> WEEKLY <br> MONTHLY <br> LESS OFTEN THAN ONCE A MONTH <br> NEVER |  |  |
| 136A | At any time in the past 12 months, has anyone come into your dwelling to spray the interior walls against mosquitoes? | YES <br> NO DON'T KNOW |  | - 137 |
| 136B | Who sprayed the dwelling? | GOVERNMENT WORKER/PROGRAM <br> PRIVATE COMPANY <br> NONGOVERNMENTAL <br> ORGANIZATION (NGO) <br> OTHER $\qquad$ <br> DON'T KNOW | $\begin{gathered} A \\ B \\ C \\ - \\ X \\ Z \end{gathered}$ |  |
| 137 | Does your household have any mosquito nets? | YES NO |  | $\rightarrow 149$ |
| 138 | How many mosquito nets does your household have? <br> IF 7 OR MORE NETS, RECORD ' 7 '. | NUMBER OF NETS. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
|  | ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN THE HOUSEHOLD. OBSERVE AND ANSWER THE QUESTIONS FOR EACH NET, ONE BY ONE. |  |  |
| 139 | ASSIGN EACH NET A SEQUENTIAL NUMBER AND RECORD THE NUMBER HERE. | NET NUMBER |  |
| 140 | WAS THIS NET OBSERVED? | OBSERVED . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NOT OBSERVED . . . . . . . . . . |  |
| 141 | How many months ago did your household get the mosquito net? <br> IF LESS THAN ONE MONTH AGO, RECORD '00'. | MONTHS AGO . . . . . . . . . . . . . . . . <br>  <br> MORE THAN 36 MONTHS AGO . . . . . . . . . . . . . <br> NOT SURE . . . . . . . . . . . . . . . . . . . . . . . . . 95 |  |
| 142 | OBSERVE OR ASK BRAND/TYPE OF MOSQUITO NET. <br> IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT. | INSECTICIDE TREATED NET (ITN) |  |
| 143 | Did you get the net through the 2021/2022 mass distribution campaign, during an antenatal care visit, or during an immunization visit? | YES, 2021/2022 MASS DIST.CAMPAIGN $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$YES, ANC $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$YES, IMMUNIZATION VISIT $\ldots \ldots \ldots \ldots \ldots$ | $\rightarrow^{145}$ |
| 144 | Where did you get the net? |  |  |
| 145 | Did anyone sleep under this mosquito net last night? |  | $\begin{aligned} & \rightarrow 147 \\ & \rightarrow 148 \end{aligned}$ |



| NO. | QUESTIONS AND FILTERS | COdING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 149 | We would like to learn about the places that households use to wash their hands. Can you please show me where members of your household most often wash their hands? |  | $152$ |
| 150 | OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING. <br> RECORD OBSERVATION. |  |  |
| 151 | OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT AT THE PLACE FOR HANDWASHING. <br> RECORD OBSERVATION. | ```SOAP OR DETERGENT (BAR, LIQUID, POWDER, PASTE) ....... A ASH,MUD, SAND .............................. NONE``` |  |
| 152 | OBSERVE MAIN MATERIAL OF THE FLOOR OF THE DWELLING. <br> RECORD OBSERVATION. |  |  |
| 153 | OBSERVE MAIN MATERIAL OF THE ROOF OF THE DWELLING. <br> RECORD OBSERVATION. |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 154 | OBSERVE MAIN MATERIAL OF THE EXTERIOR WALLS OF THE DWELLING. <br> RECORD OBSERVATION. | NATURAL WALLS |  |
| 155 | I would like to check whether the salt used in your household is iodized. May I have a sample of the salt used to cook meals in your household? <br> TEST SALT FOR IODINE. |  |  |
| 156 | RECORD THE TIME. | HOURS <br> MINUTE |  |

## COMMENTS ABOUT INTERVIEW:

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

COMMENTS ON SPECIFIC QUESTIONS:

ANY OTHER COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

SUPERVISOR'S OBSERVATIONS

GHANA
GHANA STATISTICAL SERVICE

| IDENTIFICATION |  |  |
| :---: | :---: | :---: |
| PLACE NAME |  |  |
| NAME OF HOUSEHOLD HEAD |  |  |
| CLUSTER NUMBER |  |  |
| HOUSEHOLD NUMBER |  |  |
| NAME AND LINE NUMBER OF WOMAN |  |  |
| HOUSEHOLD SELECTED FOR MAN'S SURVEY? (1=YES, 2=NO) |  |  |
| CHECK COVER PAGE OF HOUSEHOLD QUESTIONNAIRE: HOUSEHOLD SELECTED FOR DV MODULE? (1=YES, $2=\mathrm{NO}$ ) |  |  |



Hello. My name is $\qquad$ . I am working with Ghana Statistical Service (GSS). We are conducting a survey about health and other topics all over Ghana. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 30 to 60 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?
May I begin the interview now?

SIGNATURE OF INTERVIEWER $\qquad$ DATE $\qquad$

RESPONDENT AGREES RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . . TO BE INTERVIEWED . $2 \longrightarrow$ END

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 101 | RECORD THE TIME. | HOURS <br> MINUTES |  |  |  |
| 102 | What REGION were you born in? | WESTERN CENTRAL <br> GREATER ACCRA <br> VOLTA <br> EASTERN <br> ASHANTI <br> WESTERN NORTH <br> AHAFO <br> BONO <br> BONO EAST <br> OTI <br> NORTHERN <br> SAVANNAH <br> NORTH EAST <br> UPPER EAST <br> UPPER WEST <br> OUTSIDE OF GHANA |  | $\begin{aligned} & 01 \\ & 02 \\ & 03 \\ & 04 \\ & 05 \\ & 06 \\ & 07 \\ & 08 \\ & 09 \\ & 10 \\ & 11 \\ & 12 \\ & 13 \\ & 14 \\ & 15 \\ & 16 \end{aligned}$ | $104$ |
| 103 | What country were you born in? | COUNTRY |  |  |  |
| 104 | How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)? <br> IF LESS THAN ONE YEAR, RECORD '00’ YEARS. | YEARS <br> ALWAYS <br> VISITOR |  |  | 110 |
| 105 | CHECK 104: <br> 00-04 YEARS | EARS $\square$ MORE |  |  | 107 |
| 106 | In what month and year did you move here? | MONTH <br> DON'T KNOW MONTH <br> YEAR. <br> DON'T KNOW YEAR |  | $\begin{array}{r} \square \\ \hline 98 \\ \hline \\ \hline \end{array}$ |  |
| 107 | Just before you moved here, which REGION did | WESTERN | . . . | 01 |  |

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
|  | you live in? | CENTRAL | 02 |  |
|  |  | GREATER ACCRA | 03 |  |
|  |  | VOLTA | 04 |  |
|  |  | EASTERN | 05 |  |
|  |  | ASHANTI | 06 |  |
|  |  | WESTERN NORTH | 07 |  |
|  |  | AHAFO | 08 |  |
|  |  | BONO | 09 |  |
|  |  | BONO EAST | 10 |  |
|  |  | OTI | 11 |  |
|  |  | NORTHERN | 12 |  |
|  |  | SAVANNAH | 13 |  |
|  |  | NORTH EAST | 14 |  |
|  |  | UPPER EAST | 15 |  |
|  |  | UPPER WEST | 16 |  |
|  |  | OUTSIDE OF GHANA | 96 |  |

SECTION 1. RESPONDENT'S BACKGROUND


SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 119 | Do you read a newspaper or magazine at least once a week, less than once a week or not at all? |  |  |
| 120 | Do you listen to the radio at least once a week, less than once a week or not at all? |  |  |
| 121 | Do you watch television at least once a week, less than once a week or not at all? |  |  |
| 122 | Do you own a mobile phone? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 127$ |
| 123 | Is your mobile phone a smart phone? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 127 | Have you ever used the Internet from any location on any device? |  | $\rightarrow 130$ |
| 128 | In the last 12 months, have you used the Internet? <br> IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE. | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO . . . . . . . . . .   | $\rightarrow 130$ |
| 129 | During the last one month, how often did you use the Internet: almost every day, at least once a week, less than once a week, or not at all? |  |  |
| 130 | What is your religion? |  |  |
| 131 | What is your ethnic group? |  |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 201 | Now I would like to ask about all the births you have had during your life. Have you ever given | YES <br> NO | $\begin{aligned} & 1 \\ & 2 \end{aligned} \longrightarrow 206$ |
| 202 | Do you have any sons or daughters to whom you have given birth who are now living with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 $\longrightarrow 204$ |
| 203 | a) How many sons live with you? <br> b) And how many daughters live with you? <br> IF NONE, RECORD '00'. | a) SONS AT HOMI <br> b) DAUGHTERS AT HOME |  |
| 204 | Do you have any sons or daughters to whom you have given birth who are alive but do not live with | YES NO | $\longrightarrow 206$ |
| 205 | a) How many sons are alive but do not live with you? <br> b) And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | a) SONS ELSEWHERE <br> b) DAUGHTERS ELSEWHERE |  |
| 206 | Have you ever given birth to a boy or girl who was born alive but later died? <br> IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very shant timn? | YES <br> NO | $2 \longrightarrow 208$ |
| 207 | a) How many boys have died? <br> b) And how many girls have died? <br> IF NONE, RECORD '00'. | a) BOYS DEAD <br> b) GIRLS DEAD |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL LIVE BIRTHS |  |
| 209 | CHECK 208: <br> Just to make sure that I have this right: you have h | TOTAL $\qquad$ births during your life. Is |  |
| 210 | Women sometimes have a pregnancy that does not result in a live birth. For example, a pregnancy can end in a miscarriage, an abortion, or the child can be born dead. Have you ever had a pregnancy that did not end in a live birth? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $2 \longrightarrow 212$ |
| 211 | How many miscarriages, abortions, and stillbirths have you had? | PREGNANCY LOSSES |  |
| 212 | SUM ANSWERS TO 208 AND 211 AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL PREGNANCY OUTCOMES |  |
| 213 | CHECK 212: <br> ONE OR MORE PAST PREGNANCIES | PAST $\square$ NCIES | $\rightarrow 232$ |

214 Now I would like to record all your pregnancies including live births, stillbirths, miscarriages, and abortions, starting with your first pregnancy.
RECORD ALL PREGNANCIES IN 215-228. RECORD TWINS AND TRIPLETS ON SEPARATE LINES. IF THERE ARE MORE THAN 3 PREGNANCIES, USE AN ADDITIONAL QUESTIONNAIRE.

| 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Think back to your (first/next) pregnancy Was that a single pregnancy , twins, or trinlets? <br> IF <br> MULTIPL <br> E PREG- <br> NANCY: <br> COPY <br> VALUE <br> FOR 215 <br> IN NEXT <br> ROW(S). <br> PREG- <br> NANCY <br> HISTORY <br> LINE <br> NUMBER | IF 215=1, ASK: Was the baby born alive, born dead, or did you have a miscarriage or abortion? <br> IF 215 > 1, ASK: Was the (first/next) baby in this pregnancy born alive or born הoan? | Did the baby cry, move, or breath e? | What name was given to the baby? <br> RECORD NAME. | Is <br> (NAME) <br> a boy or a girl? | CHECK 216 <br> AND 217: TYPE OF <br> PREGNANCY OUTCOME. <br> NOTE: IF 217=1, <br> THEN <br> PREGNANCY <br> OUTCOME= <br> BORN ALIVE. <br> IF BORN ALIVE, <br> ASK: On what day, month, and year was (NAME) born? <br> IF BORN DEAD, <br> A <br> MISCARRIAGE, <br> OR AN <br> ABORTION, ASK: On what day, month, and | How long did this pregnancy last in weeks or months? <br> RECORD IN COMPLETED WEEKS OR MONTHS. | FOR ROW 01, ASK: <br> Were there any other pregnancies before this pregnancy? <br> AFTER ROW 01: <br> IF 215=1 OR THIS IS THE FIRST BIRTH OF A MULTIPLE PREGNANCY, ASK: Were there any other pregnancies between the previous pregnancy and this pregnancy? <br> IF 215 > 1 AND THIS IS NOT THE FIRST BIRTH OF |
| 01 <br> SING 1 <br> TWINS 2 <br> TRIP 3 <br> NO. OF out- | $\left[\begin{array}{ll}\text { BORN ALIVE } & 1 \\ \text { (SKIP TO 218) } & \text { ل } \\ & \\ \text { BORN DEAD } & 2 \\ \text { MISCARRIAG } & 3 \\ \text { (SKIP TO 220) } & \longleftrightarrow \\ \text { ABORTION } & 4\end{array}\right]$ | $\begin{array}{cc}\text { YES } & 1 \\ & \\ \text { NO } & 2 \\ & \downarrow \\ \text { (SKIP } \\ \text { TO } \\ 220)\end{array}$ | NAME | $\begin{array}{ll} \text { BOY } & 1 \\ \text { GIRL } & 2 \end{array}$ |  | WEEKS 1 <br> MONTHS 2 |  |
| 02 <br> SING 1 <br> TWINS 2 <br> TRIP 3 <br> No. <br> of <br> out- |  | $\begin{array}{cc}\text { YES } & 1 \\ & \\ \text { NO } & 2 \\ & \downarrow \\ \text { (SKIP } \\ \text { TO } \\ 220)\end{array}$ | NAME | $\begin{array}{ll} \text { BOY } & 1 \\ \text { GIRL } & 2 \end{array}$ |  | WEEKS 1 <br> MONTHS 2 |  |
| 03 <br> SING 1 <br> TWINS 2 <br> TRIP 3 <br> NO. <br> OF <br> OUT- $\square$ | $\left[\begin{array}{ll}\text { BORN ALIVE } & 1 \\ \text { (SKIP TO 218) } & \text { - } \\ & \\ \text { BORN DEAD } & 2 \\ \text { MISCARRIAG } & 3 \\ \text { (SKIP TO 220) } & \leftarrow \\ \text { ABORTION } & 4\end{array}\right]$ | $\begin{array}{cc} \text { YES } & 1 \\ & \\ \text { NO } \quad 2 \\ & \downarrow \\ \text { (SKIP } \\ \text { TO } \\ 220) \end{array}$ | NAME | $\begin{array}{ll} \text { BOY } & 1 \\ \text { GIRL } & 2 \end{array}$ |  | WEEKS 1 $\square$ <br> MONTHS 2 $\square$ |  |
| 222A | Have you had any p that ended since the pregnancy mention | regnancie last d? |  |  | $\rightarrow$ ADD TO TABLE |  |  |
| 222B | READ THE LIST O SHE HAS EVER H <br> DOES THE RESPO <br> IF NOT, PROBE FOR <br> IF YES, PROCEED | FREGN <br> AD, AND I <br> NDENT A R THE C TO 223 R | NCY OUTC THEY ARE <br> GREE? ORRECT INF OW 1. | ES IN ORD TED IN ORD <br> MMATION | ER TO THE RESPO DER STARTING FR <br> ND REVISE THE PR | DENT AND ASK IF M THE FIRST ON <br> GNANCY HISTOR | EY ARE ALL THAT <br> CCORDINGLY. |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 230 | COMPARE 212 WITH NUMBER OF PREGNANCY O <br> NUMBER IN PREGNANCY HISTORY IS GREATER THAN OR EQUAL TO 212 | COMES IN PREGNANCY HISTORY <br> NUMBER IN PREGNANCY HISTORY IS $\square$ LESS THAN 212 <br> (PROBE AND RECONCILE) |  |
| 231 | FOR EACH LIVE BIRTH IN 2017-2022, EN CALENDAR. WRITE THE NAME OF THE LIVE BIRTH, RECORD 'P' IN EACH OF TH DURATION OF PREGNANCY. (NOTE: TH NUMBER OF MONTHS THAT THE PREG <br> FOR EACH PREGNANCY THAT DID NOT THE CALENDAR IN THE MONTH THAT T REMAINING NUMBER OF COMPLETED M <br> IF DURATION OF PREGNANCY WAS RE WEEKS BY 0.23 TO CONVERT TO THE N NEAREST WHOLE NUMBER TO GET THE | R 'B' IN THE MONTH OF BIRTH IN THE LD TO THE LEFT OF THE 'B' CODE. FOR EACH PRECEDING MONTHS ACCORDING TO THE UMBER OF 'P's MUST BE ONE LESS THAN THE NCY LASTED.) <br> D IN A LIVE BIRTH IN 2017-2022, ENTER 'T' IN PREGNANCY TERMINATED AND 'P' FOR THE NTHS OF PREGNANCY. <br> RTED IN WEEKS, MULTIPLY THE NUMBER OF MBER OF MONTHS. ROUND DOWN TO THE UMBER OF COMPLETED MONTHS. |  |
| 232 | Are you pregnant now? |  | $\rightarrow 236$ |
| 233 | How many weeks or months pregnant are you? <br> RECORD NUMBER OF COMPLETED WEEKS OR MONTHS. <br> ENTER 'P's IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL NUMBER OF COMPLETED MONTHS. <br> IF DURATION OF PREGNANCY WAS REPORTED IN WEEKS, MULTIPLY THE NUMBER OF WEEKS BY 0.23 TO CONVERT TO THE NUMBER OF MONTHS. ROUND DOWN TO THE NEAREST WHOLE NUMBER TO GET THE NUMBER OF COMPLETED MONTHS. | WEEKS <br> 1 <br> MONTHS <br> 2 $\square$ |  |
| 234 | When you got pregnant, did you want to get pregnant at that time? |  | $\longrightarrow 236$ |
| 235 | CHECK 208: TOTAL NUMBER OF LIVE BIRTHS <br> ONE OR MORE <br> a) Did you want to have a baby later on or did you not want any more children? <br> NONE <br> b) Did you want to have a baby later on or did you not want any children? | LATER . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO MORE/NONE . . . . . . .  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 236 | When did your last menstrual period start? <br> (DATE, IF GIVEN) |  | $\begin{aligned} & \rightarrow 240 \\ & \rightarrow 241 \end{aligned}$ |
| 237 | CHECK 236: WAS THE LAST MENSTRUAL PERIOD | ITHIN THE LAST YEAR? | $\rightarrow 240$ |
| 238 | During your last menstrual period, what did you use to collect or absorb your menstrual blood? <br> Anything else? |  |  |
| 239 | During your last menstrual period, were you able to wash and change in privacy while at home? |  |  |
| 240 | How old were you when you had your first menstrual period? |  |  |
| 241 | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant? |  | $\xrightarrow{\rightarrow} 243$ |
| 242 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD BEGINS . . . . . . . 1 DURING HER PERIO[ . . . . . . . . . . . . . . . . . . . . 2 <br> RIGHT AFTER HER PERIOD HAS ENDE[ . . . . 3 <br> HALFWAY BETWEEN TWO PERIODS . . . . . . . 4 <br> OTHER $\qquad$ |  |
| 243 | After the birth of a child, can a woman become pregnant before her menstrual period has returned? |  |  |


| 301 | Now I would like to talk about family planning - the various ways or methods that a couple can use to delay or avoid a pregnancy. Have you ever heard of (METHOD)? |  |  |
| :---: | :---: | :---: | :---: |
| 01 | Female Sterilization. <br> PROBE: Women can have an operation to avoid having any more children. | YES NO | 1 |
| 02 | Male Sterilization. <br> PROBE: Men can have an operation to avoid having any more children. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 03 | IUD. <br> PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse which can prevent pregnancy for one or more | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 04 | Injectables. <br> PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 05 | Implants. <br> PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 06 | Pill. <br> PROBE: Women can take a pill every day to avoid becoming pregnant. | YES No | 1 |
| 07 | Condom. <br> PROBE: Men can put a rubber sheath on their penis before sexual intercourse. | YES No | 1 |
| 08 | Female Condom. <br> PROBE: Women can place a sheath in their vagina before sexual intercourse. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 09 | Emergency Contraception. <br> PROBE: As an emergency measure, within 3 days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 10 | Standard Days Method. <br> PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not have sexual intercourse. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 11 | Lactational Amenorrhea Method (LAM). <br> PROBE: Up to 6 months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 12 | Rhythm Method. <br> PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |
| 13 | Withdrawal. <br> PROBE: Men can be careful and pull out before climax. | YES NO | 1 2 |
| 14 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? | YES, MODERN METHOD <br> (SPECIFY) <br> YES, TRADITIONAL METHOD | A B Y |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 302 | CHECK 232: <br> NOT PREGNANT OR UNSURE | PREGNANT | $\rightarrow 317$ |
| 303 | Are you or your partner currently doing something or using any method to delay or avoid getting |  | $\rightarrow 307$ |
| 304 | Are you or your partner sterilized? <br> IF YES: Who is sterilized, you or your partner? | YES, RESPONDENT STERILIZED ONLY $\ldots$ 1  <br> YES, PARTNER STERILIZED ONLY $\ldots$ $\ldots$ 2 <br> YES, BOTH STERILIZED . . . . . . . . . . . . . . . 3   <br> NO, NEITHER STERILIZED . . . . . . . . . . . . 4   | $\longrightarrow 306$ |
| 305 | CHECK 304: |  |  |
| 306 | Just to check, are you or your partner doing any of the following to avoid pregnancy: deliberately avoiding sex on certain days, using a condom, using withdrawal or using emergency contraception? |  | $\rightarrow 317$ |
| 307 | Which method are you using? <br> RECORD ALL MENTIONED. <br> IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST. |  | $\begin{array}{r} \mid \rightarrow 312 \\ \longrightarrow 314 \\ \longrightarrow 314 \\ \rightarrow 310 \\ \rightarrow 311 \\ \rightarrow 314 \end{array}$ |
| 308 | Now I'm going to show you two pictures. Please point to the picture that best matches what was used the last time you received your injectable. <br> SHOW IMAGES OF SAYANA PRESS AND REGULAR SYRINGE. |  | $\xrightarrow{\rightarrow} 314$ |
| 309 | The last time you received your injectable, did you inject DMPA-SC/Sayana Press yourself or did a health care provider do it for you? | SELF-INJECTION . . . . . . . . . . . . . . . . . . . . 1 <br> INJECTION GIVEN BY HEALTH CARE  <br> PROVIDER . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8  | $\xrightarrow{\rightarrow} 314$ |
| 310 | What is the brand name of the pills you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  | $\xrightarrow{\rightarrow}$ |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 311 | What is the brand name of the condoms you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  | $\rightarrow_{314}$ |
| 312 | In what facility did the sterilization take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL . . . . . . . . .... 11 <br> GOVERNMENT POLYCLINIC ........ 12 <br> GOVERNMENT HEALTH CENTER .. 13 <br> GOVERNMENT CLINIC .............. 14 <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> OTHER PUBLIC SECTOR <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL ............... 21 <br> PRIVATE CLINIC .............. 22 <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC <br> OTHER NGO MEDICAL SECTOR <br> (SPECIFY) <br> OTHER |  |
| 313 | In what month and year was the sterilization performed? |  | $\rightarrow 315$ |
| 314 | Since what month and year have you been using (CURRENT METHOD) without stopping? <br> PROBE: For how long have you been using (CURRENT METHOD) now without stopping? |  |  |
| 315 | CHECK 313 AND 314, AND 220: ANY LIVE BIRTH, MONTH AND YEAR OF START OF USE OF CONT <br> GO BACK TO 313 <br> YEAR AT METHOD (MU | LBIRTH, MISSCARRIAGE OR ABORTION AFTER EPTION IN 313 OR 314? <br> YES <br> 314, PROBE AND RECORD MONTH AND RT OF CONTINUOUS USE OF CURRENT BE AFTER LAST BIRTH OR PREGNANCY TERMINATION). |  |



SECTION 3. CONTRACEPTION


SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 323 | At that time, were you told about side effects or problems you might have with the method? |  | $\rightarrow 325$ |
| 324 | When you got sterilized, were you told about side effects or problems you might have with the | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO   |  |
| 325 | Were you told what to do if you experienced side effects or problems? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO . . . . . . . . . .   |  |
| 326 | At that time, were you told about other methods of family planning that you could use? |  |  |
| 327 | CHECK 307: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 307, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  | $\longrightarrow 332$ |
| 328 | At that time, were you told that you could switch to another method if you wanted to or needed to? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO   | $\rightarrow 330$ |
| 329 | CHECK 307: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 307, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  | $\begin{array}{r} \rightarrow 332 \\ \\ \rightarrow 332 \\ \rightarrow 332 \end{array}$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 330 | Where did you obtain (CURRENT METHOD) the last time? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL <br> GOVERNMENT POLYCLINIC <br> GOVERNMENT HEALTH CENTER <br> GOVERNMENT CLINIC <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> OTHER PUBLIC SECTOR <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL <br> PRIVATE CLINIC <br> PHARMACY <br> DRUG STORE <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) <br> MATERNITY HOME <br> OTHER PRIVATE MEDICAL SECTOR <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC <br> OTHER NGO MEDICAL SECTOR <br> (SPECIFY) <br> OTHER SOURCE <br> SHOP <br> CHURCH <br> FRIEND/RELATIVE <br> DRUG PEDDLERS <br> OTHER $\qquad$ | 11 <br> 12 <br> 13 <br> 14 <br> 15 <br> 16 <br> 17 <br> 21 <br> 22 <br> 23 <br> 24 <br> 25 <br> 26 <br> 27 <br> 31 <br> 32 <br> 41 <br> 42 <br> 43 <br> 44 <br> 96 | $332$ |
| 331 | Do you know of a place where you can obtain a method of family planning? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 332 | In the last 12 months, were you visited by a fieldworker? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 334$ |
| 333 | Did the fieldworker talk to you about family planning? | YES <br> NO |  |  |
| 334 | CHECK 202: CHILDREN LIVING WITH <br> a) In the last 12 months, have you visited a health facility for care for yourself or your children? <br> b) In the last 12 months, have you visited a health facility for care for yourself? | YES <br> NO |  | $\rightarrow 401$ |
| 335 | Did any staff member at the health facility speak to you about family planning methods? | YES <br> NO |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 401 | CHECK 220 AND 225: <br> ONE OR MORE PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY | NO PREGNANCY OUTCOMES 0-35 MONTHS BEFORE $\square$ THE SURVEY | $\rightarrow 601$ |
| 402 | CHECK 220. LIST THE PREGNANCY HISTORY NUMBER MONTHS BEFORE THE SURVEY, STARTING FROM THE OUTCOME BY TYPE USING 223 AND THE ORDER OF OU | 15 FOR EACH PREGNANCY OUTCOME 0-35 T ONE. CLASSIFY EACH PREGNANCY OMES IN THE PREGNANCY HISTORY. <br> PREGNANCY OUTCOME TYPE $\qquad$ <br> PREGNANCY OUTCOME TYPE . $\qquad$ <br> PREGNANCY OUTCOME TYPE . $\qquad$ <br> PREGNANCY OUTCOME TYPE . $\qquad$ <br> PREGNANCY OUTCOME TYPE . $\qquad$ <br> PREGNANCY OUTCOME TYPE . $\qquad$ |  |
| 403 | Now I would like to ask some questions about your pregnanc separately, starting with the last one you had.) | the last 3 years. (We will talk about each |  |
| 404 | PREGNANCY HISTORY NUMBER FROM 402. | PREGNANCY HISTORY NUMBER |  |
| 405 | PREGNANCY OUTCOME TYPE FROM 402. | MOST RECENT LIVE BIRTH PRIOR LIVE BIRTF MOST RECENT STILLBIRTF PRIOR STILLBIRTI. MISCARRIAGE/ABORTION | $\rightarrow 407$ |
| 406 | RECORD DATE PREGNANCY ENDED FROM 220. |  | $\xrightarrow{\rightarrow 408}$ |
| 407 | RECORD NAME FROM 218. <br> NAME |  |  |
| 408 | CHECK 405: <br> PREGNANCY TYPE <br> 1 OR 2 <br> a) When you got pregnant with (NAME), did you want to get pregnant at that time? <br> PREGNANCY TYPE $\square$ <br> 3, 4, OR 5 <br> b) When you got pregnant with the pregnancy that ended in (DATE FROM 406), did you want to get pregnant at that | YES <br> NO | $\rightarrow 411$ |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 409 | Did you want to have a baby later on, or not at all? | LATER . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NOT AT ALL . . . . . . . . . . . . | $\rightarrow 411$ |
| 410 | How much longer did you want to wait? | MONTHS <br> YEARS <br> DON'T KNOW <br> 998 |  |
| 411 | CHECK 405: PREGNANCY OUTCOME TYPE | MOST RECENT LIVE BIRTH . . . . . . . . . . . . . . . 1 <br> PRIOR LIVE BIRTH . . . . . . . . . . . . . . . . 2 <br> MOST RECENT STILLBIRTH 3 <br> PRIOR STILLBIRTH . . . . . . . . . . . . . . . . . . 4 <br> ABORTION/MISCARRIAGE . . . . . . . . . . . . 5 | $\begin{array}{\|l} \longrightarrow 434 \\ \longrightarrow 434 \\ \longrightarrow 475 \end{array}$ |
| 412 | Did you see anyone for antenatal care for this pregnancy? |  | $\longrightarrow 414$ |
| 413 | CHECK 405: PREGNANCY OUTCOME TYPE <br> MOST RECENT <br> LIVE BIRTH <br> (SKIP TO 420) | MOST RECENT $\square$ STILLBIRTH | $\rightarrow 426$ |
| 414 | Whom did you see? <br> Anyone else? <br> PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |  |
| 415 | Where did you receive antenatal care for this pregnancy? <br> Anywhere else? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD 'X' AND WRITE THE NAME OF THE PLACE(S). |  |   |  |
| 416 | How many weeks or months pregnant were you when you first received antenatal care for this pregnancy? | WEEKS <br> MONTHS $2$ <br> DON'T KNOW |  |  |
| 417 | How many times did you receive antenatal care during this pregnancy? | NUMBER OF TIMES DON'T KNOW |  |  |
| 418 | As part of your antenatal care during this pregnancy, did a healthcare provider do any of the following: <br> a) Measure your blood pressure? <br> b) Take a urine sample? <br> c) Take a blood sample? <br> d) Listen to the baby's heartbeat? <br> e) Talk with you about which foods or how much food you should eat? <br> f) Talk with you about breastfeeding? <br> g) Ask you if you had vaginal bleeding? |  | NO DK <br> 2 8 <br> 2 8 <br> 2 8 <br> 2 8 <br>   <br> 2 8 <br> 2 8 <br> 2 8 |  |
| 419 | CHECK 405: PREGNANCY OUTCOME TYPE <br> MOST RECENT <br> LIVE BIRTH | MOST RECENT $\square$ STILLBIRTH |  | 426 |

SECTION 4. PREGNANCY AND POSTNATAL CARE


SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
|  |  | OTHER SOURCE <br> SHOP .................................... 0 <br> MARKET $\qquad$ <br> OTHER $\qquad$ X (SPECIFY) |  |
| 428 | During the whole pregnancy, for how many days did you take the iron tablets or syrup? <br> IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS. | DAYS . . . .................   <br> DON'T KNOW ............................. 998  . |  |
| 429 | During this pregnancy, did you take any medicine for intestinal worms? |  |  |
| 431 | During this pregnancy, did you take SP/Fansidar to keep you from getting malaria? |  | $\rightarrow 434$ |
| 432 | How many times did you take SP/Fansidar during this pregnancy? | TIMES |  |
| 432A | CHECK 432: <br> CODE '01' OR '02' TIMES ENTERED | OTHER | $\rightarrow 433$ |
| 432B | Why did you take SP/Fansidar only one or two times during this pregnancy? <br> RECORD ALL MENTIUNED. |  |  |
| 433 | Did you get the SP/Fansidar during any antenatal care visit, during another visit to a health facility or from another source? <br> IF MORE THAN ONE SOURCE, RECORD THE HIGHEST SOURCE ON THE LIST. | ANTENATAL VISIT . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> ANOTHER FACILITY VISIT . . . . . . . . . . . . . 2 <br> OTHER SOURCE . . . . . . . . . . . . .  |  |
| 434 | CHECK 405: <br> PREGNANCY TYPE PREGNANCY TYPE 1 OR 2 <br> a) Who assisted with the <br> b) Who assisted with delivery of (NAME)? the delivery of the stillbirth you had in <br> Anyone else? (DATE FROM 406)? <br> PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. <br> IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 435 | CHECK 405: <br> PREGNANCY TYPE <br> 1 OR 2 <br> a) Where did you give birth to (NAME)? <br> PREGNANCY TYPE <br> 3 OR 4 <br> b) Where did you deliver this stillbirth? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. |  | $\rightarrow 437$ |
| 436 | CHECK 405: <br> PREGNANCY TYPE 1 OR 2 <br> a) Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out? <br> PREGNANCY TYPE <br> 3 OR 4 <br> b) Was this stillbirth delivered by caesarean, that is, did they cut your belly open to take the baby out? |  |  |
| 437 | CHECK 405: PREGNANCY OUTCOME TYPE |  | $\begin{array}{\|l} \longrightarrow 441 \\ \longrightarrow 445 \\ \longrightarrow 487 \end{array}$ |
| 438 | After the birth, was (NAME) put on your chest? |  | $\rightarrow 441$ |
| 439 | Was (NAME)'s bare skin touching your bare skin? |  | $\xrightarrow{\longrightarrow} 441$ |
| 440 | How long after birth was (NAME) put on the bare skin of your chest? <br> PROBE FOR A NUMERIC RESPONSE. <br> IF LESS THAN 1 HOUR, RECORD '00' HOURS; <br> IF 24 HOURS OR MORE, RECORD 24. | IMMEDIATELY $\qquad$ 000 <br> HOURS $\qquad$ |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE


SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 450 | Who checked on your health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. |  |  |
| 451 | CHECK 405: PREGNANCY OUTCOME TYPE <br> MOST RECENT <br> LIVE BIRTH | MOST RECENT $\square$ STILLBIRTH | $\rightarrow 455$ |
| 452 | Now I would like to talk to you about checks on (NAME'S) health -- for example, someone examining (NAME), checking the cord, or talking to you about how to care for (NAME). <br> Before (NAME) left the facility, did anyone check on (NAME'S) health? |  | $\rightarrow 455$ |
| 453 | How long after delivery was (NAME)'s health first checked? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS <br> DAYS <br> WEEKS |  |
| 454 | Who checked on (NAME)'s health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. |  |  |
| 455 | Now I would like to talk to you about what happened after you left the facility. Did anyone check on your health after you left the facility? |  | $\rightarrow 459$ |
| 456 | How long after delivery did that check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS <br> DAYS <br> WEEKS <br> DON'T KNOW <br> 998 |  |
| 457 | Who checked on your health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 458 | Where did the check take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD ' 96 ' AND WRITE THE NAME OF THE PLACE. |  |  |
| 459 | CHECK 405: PREGNANCY OUTCOME TYPE <br> MOST RECENT <br> LIVE BIRTH | MOST RECENT $\square$ STILLBIRTH | 474 |
| 460 | After (NAME) left (FACILITY IN 435) did any health care provider or a traditional birth attendant check on (NAME)'s health? |  | $\rightarrow 473$ |
| 461 | How long after the birth of (NAME) did that check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS <br> DAYS <br> WEEKS |  |
| 462 | Who checked on (NAME)'s health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. | ```HEALTH PERSONNEL DOCTOR .......................... 11 MIDWIFE/NURSE (CHN/CHO/EN/PHN, G . . }1 OTHER PERSON TRADITIONAL BIRTH ATTENDANT .... 21 COMMUNITY HEALTH WORKER/ VOLUNTEER ................... }2 OTHER``` $\qquad$ <br> ```96None``` |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 463 | Where did this check of (NAME) take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD ' 96 ' AND WRITE THE NAME OF THE PLACE. |  | $\rightarrow$ |
| 464 | CHECK 405: <br> a) I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health after you gave birth to (NAME)? <br> PREGNANCY TYPE <br> 3 <br> b) I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health after you delivered the stillbirth you had in (DATE FROM |  | $\rightarrow 468$ |
| 465 | How long after delivery did the first check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS. |  |  |
| 466 | Who checked on your health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE | PREGNANCY HISTORY NUMBER |  |
| 467 | Where did this first check take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. |  |  |
| 468 | CHECK 405: PREGNANCY OUTCOME TYPE <br> MOST RECENT <br> LIVE BIRTH | MOST RECENT $\square$ STILLBIRTH | 474 |
| 469 | I would like to talk to you about checks on (NAME's) health -- for example, someone examining (NAME), checking the cord, or talking to you about how to care for (NAME). <br> After (NAME) was born, did any health care provider or a traditional birth attendant check on (NAME's) health? |  | $\rightarrow 473$ |
| 470 | How long after the birth of (NAME) did that check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS DAYS WEEKS $\square$ |  |
| 471 | Who checked on (NAME)'s health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE


SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS |  | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NO. | NAME OR DATE |  | PREGNANCY HISTORY NUMBER |  |  |
| 476 | CHECK 405: <br> a) Has your menstrual period returned since the birth of (NAME)? <br> b) Has your menstrual period returned since the pregnancy that ended in (DATE FROM 406)? |  | YES <br> NO |  |  |
| 477 | CHECK 232: IS RESPONDENT PREGNANT? NOT PREGNANT |  | PREGNANT OR UNSURE |  | $\rightarrow 479$ |
| 478 | CHECK 405: <br> a) Have you had sexual intercourse since the birth of (NAME)? <br> PREGNANCY TYPE 3 OR 5 <br> b) Have you had sexual intercourse since the pregnancy that ended in (DATE FROM |  | YES NO |  |  |
| 479 | CHECK 405: PREGNANCY OUTCOME TYPE |  | MOST RECENT LIVE BIRTH MOST RECENT STILLBIRTH MISCARRIAGE/ABORTION |  | $\xrightarrow{\rightarrow} 487$ |
| 480 | Did you ever breastfeed (NAME)? |  | YES <br> NO |  | $\longrightarrow 482$ |
| 481 | CHECK 224 FOR CHILD: |  | LIVING <br> DEAD $\square$ |  |  |
| 482 | IF LESS THAN 1 HOUR, RECORD '00' HOURS; IF LESS THAN 24 HOURS, RECORD HOURS; OTHERWISE, RECORD DAYS. |  | IMMEDIATELY <br> HOURS 1 <br> DAYS |  |  |
| 483 | In the first 2 days after delivery, was (NAME) given anything other than breastmilk to eat or drink - anything at all like water, milk for babies, Nido, fresh milk, herbal treatments? |  | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |
| 484 | CHECK 224 FOR CHILD: <br> LIVING <br> DEAD |  |  |  | $\rightarrow 487$ |
| 485 | Are you still breastfeeding (NAME)? |  | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |
| 486 | Did (NAME) drink anything from a bottle with a nipple yesterday during the day or at night? |  | YES <br> NO DON'T KNOW | 1 2 8 |  |
| 487 | CHECK 402: ANY MORE PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY? |  |  |  | $\rightarrow 501$ |

SECTION 5. CHILD IMMUNIZATION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501 | CHECK 220, 224 AND 225 IN THE PREGNANCY HI MONTHS BEFORE THE SURVEY? <br> ONE OR MORE SURVIVING CHILDREN $\square$ BORN 0-35 MONTHS BEFORE THE SURVEY | RY: ANY SURVIVING CHILDREN BORN 0-35 <br> NO SURVIVING <br> CHILDREN BORN <br> 0-35 MONTHS $\qquad$ <br> BEFORE THE SURVEY | $\rightarrow 601$ |
| 502 | Now I would like to ask some questions about vaccin (We will talk about each separately, starting with the | ns received by your children born in the last 3 years. gest.) |  |
| 503 | RECORD THE NAME AND PREGNANCY HISTORY CHILDREN BORN 0-35 MONTHS BEFORE THE SUR <br> NAME OF CHILD $\qquad$ | MBER FROM 215 AND 218 OF THE SURVIVING Y, STARTING WITH THE LAST ONE. <br> PREGNANCY HISTORY NUMBER |  |
| 504 | Do you have a card, such as a weighing card, or other document where (NAME)'s vaccinations are written down? | YES, HAS ONLY A CARD $\quad \ldots . . . . . . . . . .$. 1 <br> YES, HAS ONLY ANOTHER DOCUMENT .... 2 <br> YES, HAS CARD AND OTHER DOCUMENT 3 <br> NO, NO CARD AND NO OTHER DOCUMENT 4 | $\begin{aligned} & 507 \\ & 507 \end{aligned}$ |
| 505 | Did you ever have a vaccination card, or a weighing card, for (NAME)? |  |  |
| 506 | CHECK 504: <br> CODE '2' CIRCLED | CODE '4' CIRCLED | 513 |
| 507 | May I see the card or other document where (NAME)'s vaccinations are written down? | YES, ONLY CARD SEEN .................. 1 <br> YES, ONLY OTHER DOCUMENT SEEN .... 2 <br> YES, CARD AND OTHER DOCUMENT SEEN 3 <br> NO CARD AND NO OTHER DOCUMENT SEEN 4 | $\rightarrow 513$ |
| 508 | RECORD (NAME'S) DATE OF BIRTH FROM THE VACCINATION CARD OR OTHER DOCUMENT. | DAY <br> MONTH <br> YEAR |  |

SECTION 5. CHILD IMMUNIZATION


SECTION 5. CHILD IMMUNIZATION

| NO. | QUESTIONS AND FILTERS | CODING CATEGOR | SKIP |
| :---: | :---: | :---: | :---: |
|  | NAME OF LIVE BIRTH | PREGNANCY HISTORY NUMBER |  |
| 512 | In addition to what is recorded on (this document/these documents), did (NAME) receive any other vaccinations, including vaccinations received in campaigns or immunization days or child health days? <br> RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 509 THAT ARE NOT RECORDED AS HAVING BEEN GIVEN. | YES <br> (USE THE LIST SHOWN IN CAPI THE OTHER VACCINAT NOTE THAT CAPI WILL C ANSWER IN 509 IN THE 'DAY' CO '00' TO '66' FOR THE <br> VAC <br> (THEN SKI <br> NO <br> DON'T KNOW |  |
| 512A | CHECK 509: ANY VACCINATIONS RECORDED ON | CARD? <br> NO | $\rightarrow 530$ |
| 513 | Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? | YES <br> NO <br> DON'T KNOW | $\rightarrow 530$ |
| 514 | Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? | YES <br> NO DON'T KNOW |  |
| 515 | At or soon after birth, did (NAME) receive a Hepatitis $B$ vaccination, that is, an injection in the thigh to prevent Hepatitis B ? | YES <br> NO <br> DON'T KNOW | $\xrightarrow{\rightarrow} 517$ |
| 516 | Did (NAME) receive it within 24 hours of birth? | YES <br> NO DON'T KNOW |  |
| 517 | Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? | YES <br> NO DON'T KNOW | $\rightarrow 521$ |
| 518 | Did (NAME) receive the first oral polio vaccine in the first 2 weeks after birth or later? | FIRST TWO WEEKS LATER |  |
| 519 | How many times did (NAME) receive the oral polio vaccine? | NUMBER OF TIMES |  |
| 520 | The last time (NAME) received the polio drops, did (NAME) also get an IPV injection on the RIGHT thigh, to protect against polio? | YES <br> NO <br> DON'T KNOW |  |
| 521 | Has (NAME) ever received a penta vaccination, that is, an injection given in the thigh sometimes at the same time as polio drops? | YES <br> NO <br> DON'T KNOW | $\rightarrow 523$ |
| 522 | How many times did (NAME) receive the penta vaccine? | NUMBER OF TIMES |  |
| 523 | Has (NAME) ever received a pneumococcal vaccination, that is, an injection in the RIGHT thigh to prevent pneumonia? | YES <br> NO <br> DON'T KNOW | $\rightarrow 525$ |

SECTION 5. CHILD IMMUNIZATION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
|  | NAME OF LIVE BIRTH | PREGNANCY HISTORY NUMBER |  |  |
| 524 | How many times did (NAME) receive the pneumococcal vaccine? | NUMBER OF TIMES |  |  |
| 525 | Has (NAME) ever received a rotavirus vaccination to prevent diarrhea, that is, a liquid suspension administered from the vial in the mouth to swallow | YES <br> NO DON'T KNOW | 1 2 8 | $\xrightarrow{\rightarrow} 527$ |
| 526 | How many times did (NAME) receive the rotavirus vaccine? | NUMBER OF TIMES |  |  |
| 527 | Has (NAME) ever received a measles-rubella vaccination, that is, an injection in the arm to prevent measles and rubella? | YES <br> NO <br> DON'T KNOW |  | $\rightarrow$ 528A |
| 528 | How many times did (NAME) receive a measlesrubella vaccine? | NUMBER OF TIMES |  |  |
| 528A | Has (NAME) ever received an injection to prevent yellow fever- a shot in the arm at the age of 9 months or older (sometimes given at the same time as measles-rubella)? | YES <br> NO <br> DON'T KNOW | 1 2 8 |  |
| 528B | Has (NAME) ever received a meningitis A vaccination, that is, an injection in the RIGHT upper arm to prevent meningitis $A$ ? | YES <br> NO <br> DON'T KNOW |  |  |
| 529 | Where did (NAME) receive most of his/her vaccinations? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL <br> GOVERNMENT POLYCLINIC <br> GOVERNMENT HEALTH CENTER <br> GOVERNMENT CLINIC <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> OTHER PUBLIC SECTOR <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL <br> PRIVATE CLINIC <br> PHARMACY <br> DRUG STORE <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) <br> MATERNITY HOME <br> OTHER PRIVATE MEDICAL SECTOR <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC <br> OTHER NGO MEDICAL SECTOR <br> (SPECIFY) <br> OTHER SOURCE <br> DRUG PEDDLERS <br> OTHER $\qquad$ | 11 <br> 12 <br> 13 <br> 14 <br> 15 <br> 16 <br> 17 <br> 21 <br> 22 <br> 23 <br> 24 <br> 25 <br> 26 <br> 27 <br> 31 <br> 32 <br> 41 <br> 96 |  |
| 530 | CHECK 220 AND 224 IN PREGNANCY HISTORY: A MONTHS BEFORE THE SURVEY? <br> MORE SURVIVING CHILDREN BORN 0-35 MONTHS BEFORE THE SURVEY $\square$ <br> (GO TO 503 FOR THE <br> NEXT SURVIVING CHILD) | MORE SURVIVING CHILDREN BORN 0-35 <br> NO MORE SURVIVING CHILDREN BORN 0-35 $\square$ MONTHS BEFORE THE SURVEY |  | $\rightarrow 601$ |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 601 | CHECK 220, 224, AND 225 IN THE PREGNANCY H MONTHS BEFORE THE SURVEY? <br> ONE OR MORE SURVIVING CHILDREN BORN 0-59 MONTHS BEFORE THE SURVEY $\square$ | RY: ANY SURVIVING CHILDREN BORN 0-59 <br> NO SURVIVING CHILDREN <br> BORN 0-59 MONTHS BEFORE THE SURVEY $\square$ | $\rightarrow 643$ |
| 602 | Now I would like to ask some questions about the hea about each separately, starting with the youngest.) | f your children born in the last 5 years. (We will talk |  |
| 603 | RECORD THE NAME FROM 218 AND PREGNANC CHILDREN BORN 0-59 MONTHS BEFORE THE SURV <br> NAME OF CHILD $\qquad$ | TORY NUMBER FROM 215 OF THE SURVIVING Y, STARTING WITH THE LAST ONE. <br> PREGNANCY HISTORY NUMBER $\square$ |  |
| 604 | In the last 12 months, was (NAME) given any of the following: <br> a) Iron pills, sprinkles with iron, or iron syrup? <br> SHOW COMMON TYPES OF PILLS/SPRINKLES/SYRUP. |  YES NO DK  <br> a) PILLS/SPRINKLES/SYRUP $\ldots$ 1 2 8 |  |
| 605 | In the last 6 months, was (NAME) given a vitamin A dose like (this/any of these)? <br> SHOW COMMON TYPES OF AMPULES/CAPSULES/SYRUPS. |  |  |
| 606 | In the last 6 months, was (NAME) given any medicine for intestinal worms? |  |  |
| 607 | In the last 3 months, has any healthcare provider or community health worker measured: <br> a) (NAME)'s weight? <br> b) (NAME)'s length or height? <br> c) Around (NAME)'s upper arm? <br> SHOW IMAGE OF MUAC TAPE. | a) WEIGHT <br> b) LENGTH/HEIGHT <br> c) UPPER ARM |  |
| 608 | Has (NAME) had diarrhea in the last 2 weeks? |  | $\rightarrow 618$ |

SECTION 6. CHILD HEALTH AND NUTRITION


SECTION 6. CHILD HEALTH AND NUTRITION


SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| NO. | NAME OF LIVE BIRTH | PREGNANCY HISTORY NUMBER |  |  |
| 624 | CHECK 618: HAD FEVER? <br> YES | NO OR <br> DON'T KNOW |  | $\rightarrow 634$ |
| 625 | Did you seek advice or treatment for the illness from any source? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\rightarrow 630$ |
| 626 | Where did you seek advice or treatment? <br> Anywhere else? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD 'X' AND WRITE THE NAME OF THE PLACE(S). | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL <br> GOVERNMENT POLYCLINIC <br> GOVERNMENT HEALTH CENTER <br> GOVERNMENT CLINIC <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> OTHER PUBLIC SECTOR <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL <br> PRIVATE CLINIC <br> MATERNITY HOME <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) <br> OTHER PRIVATE MEDICAL SECTOR <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC <br> OTHER NGO MEDICAL SECTOR <br> OTHER SOURCE <br> SHOP/MARKET <br> TRADITIONAL PRACTITIONER <br> DRUG PEDDLER <br> OTHER | A <br> B <br> C <br> D <br> E <br> F <br> G <br> H <br> I <br> J <br> K <br> L <br> M <br> 0 <br> $P$ <br> Q <br> R <br> x |  |
| 627 | CHECK 626: TWO OR <br> MORE  <br> CODES  <br> CIRCLED $\square$ | ONLY ONE CODE CIRCLED |  | $\rightarrow 629$ |
| 628 | Where did you first seek advice or treatment? <br> USE LETTER CODE FROM 626. | FIRST PLACE |  |  |
| 629 | How many days after the illness began did you first seek advice or treatment for (NAME)? <br> IF THE SAME DAY RECORD ‘00’. | DAYS |  |  |
| 630 | At any time during the illness, did (NAME) take any medicine for the illness? | YES <br> NO <br> DON'T KNOW |  | $\rightarrow 634$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| NO. | NAME OF LIVE BIRTH | PREGNANCY HISTORY NUMBER |  |
| 631 | What medicine did (NAME) take? <br> Any other medicine? <br> RECORD ALL MENTIONED. <br> IF MEDICINE NOT KNOWN, ASK TO SEE THE PACKAGE OR PRESCRIPTION. | ANTIMALARIAL MEDICINE <br> ARTEMISININ COMBINATION <br> THERAPY (ACT) <br> SP/FANSIDAR <br> CHLOROQUINE <br> AMODIAQUINE <br> QUININE <br> PILLS <br> INJECTION/IV <br> ARTESUNATE <br> RECTAL <br> INJECTION/IV <br> OTHER <br> ANTIMALARIAL $\qquad$ (SPECIFY) <br> ANTIBIOTIC MEDICINE <br> AMOXICILLIN <br> COTRIMOXAZOLE <br> OTHER PILL/SYRUP <br> OTHER INJECTION/IV $\qquad$ <br> OTHER MEDICINE <br> ASPIRIN <br> ACETAMINOPHEN <br> IBUPROFEN <br> herbal medicine <br> OTHER |  |
| 632 | CHECK 631: ARTEMISININ COMBINATION THERAP $\begin{gathered} \text { CODE 'A' } \\ \text { CIRCLED } \\ \\ \\ \end{gathered}$ | A') GIVEN $\begin{aligned} & \text { CODE 'A' } \quad \text { NOT } \\ & \text { CIRCLED } \end{aligned}$ | 634 |
| 633 | How long after the fever started did (NAME) first take an artemisinin combination therapy? | SAME DAY <br> NEXT DAY <br> TWO DAYS AFTER FEVER <br> THREE OR MORE DAYS AFTER FEVER DON'T KNOW |  |
| 634 | CHECK 220, 224, AND 225 IN PREGNANCY HISTOR MONTHS BEFORE THE SURVEY? <br> MORE SURVIVING CHILDREN <br> BORN 0-59 MONTHS BEFORE THE SURVEY $\square$ <br> (GO TO 603 FOR THE <br> NEXT SURVIVING CHILD) | ANY MORE SURVIVING CHILDREN BORN 0-59 <br> NO MORE SURVIVING <br> CHILDREN BORN $\square$ <br> 0-59 MONTHS BEFORE $\qquad$ | $\rightarrow 635$ |

SECTION 6. CHILD HEALTH AND NUTRITION


|  | QUESTIONS AND FILTERS | CODING | ORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 639 | Did (NAME) eat any solid, semi-solid, or soft foods yesterday during the day or at night? <br> IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME) eat? |  | $\rightarrow 641$ |
| 640 | How many times did (NAME) eat solid, semi-solid, or soft foods yesterday during the day or at night? <br> IF 7 OR MORE TIMES, RECORD ‘ 7 '. | NUMBER OF TIMES $\square$ <br> DON'T KNOW |  |
| 641 | In the last 6 months, did any healthcare provider or community health worker talk with you about how or what to feed (NAME)? |  |  |
| 642 | The last time (NAME) passed stools, what was done to dispose of the stools? |  |  |
| 643 | Now l'd like to ask you about foods and drinks that you consumed yesterday during the day or night, whether you ate or drank it at home or somewhere else. Please think about snacks and small meals as well as main meals. <br> I will ask you about different foods and drinks, and I would like to know whether you ate the food even if it was combined with other foods. <br> Please do not answer 'yes' for any food or ingredient only used in a small amount to add flavor to a dish. <br> Yesterday during the day or at night, did you eat or <br> a) Bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, or tom brown? |  YES NO <br> a) $\ldots \ldots \ldots \ldots$. 1 2 |  |
|  | b) Carrots, or sweet potatoes that are yellow or orange inside? <br> c) Fufu, gari, kokonte, cassava, yam, cocoyam, plantain, or white sweet potato? | b) .............. 1 <br> c) <br> 1 <br> 2 <br> 8 |  |
|  | d) Any other vegetables, such as tomatoes, okro, garden eggs, cabbage, mushrooms or other vegetables? | d) $\ldots \ldots \ldots \ldots$ 1 10.0 |  |
|  | e) Any other dark green leafy vegetables, such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves or other dark green leafy vegetables? | e) $\ldots \ldots \ldots \ldots$ 1 1 |  |



SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (11) | w) Red palm oil? | YES <br> w) $\qquad$ $1$ | $\begin{gathered} \mathrm{NO} \\ 2 \end{gathered}$ | $\begin{gathered} \text { DK } \\ 8 \end{gathered}$ |  |
|  | x) Any other liquids? <br> IF YES: What was the drink? <br> IF YES: Was the drink sweetened? | x) 1 <br> OTHER DRINK(S) <br> SWEETENED. 1 | $2$ <br> (SPECIFY) $2$ | 8 <br> 8 |  |
|  | y) Any other food? <br> IF YES: What was the food? <br> MARK THE APPROPRIATE FOOD GROUP FOR EACH ADDITIONAL FOOD, IF THE GROUP IS NOT YET CODED 'YES'. <br> IF UNABLE TO DETERMINE WHICH GROUP THE ADDITIONAL FOOD BELONGS TO, RECORD THE NAME OF THE FOOD. | y) $\qquad$ <br> OTHER FOOD(S) | $2$ <br> (SPECIFY) | $8$ |  |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 701 | Are you currently married or living together with a man as if married? | $\left.\begin{array}{llll}\text { YES, CURRENTLY MARRIED } & \ldots\end{array}\right) . . . . . .$. | $\longrightarrow$ 706A |
| 702 | Have you ever been married or lived together with a man as if married? | YES, FORMERLY MARRIED . . . . . . . . . . . . 1 <br> YES, LIVED WITH A MAN   <br> NO . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3  | $\rightarrow 721$ |
| 703 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | $\rightarrow \rightarrow 714$ |
| 706A | Do you have a marriage certificate or other document recognizing this (marriage/union)? |  | $\rightarrow 707$ |
| 706B | What document or documents do you have? <br> Any other document? <br> RECORD ALL MENTIONED. |  | $\mathscr{H}$ |
| 707 | Was this marriage ever registered with the civil authority? |  |  |
| 709 | Is your (husband/partner) living with you now or is he staying elsewhere? | LIVING WITH HER . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 STAYING ELSEWHERE . . . . . . . |  |
| 710 | RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. | NAME <br> LINE NO. $\qquad$ $\square$ |  |
| 711 | Does your (husband/partner) have other wives or does he live with other women as if married? | YES $\ldots$ | $\rightarrow 714$ |
| 712 | Including yourself, in total, how many wives or livein partners does he have? | TOTAL NUMBER OF WIVES <br> AND LIVE-IN PARTNERS <br> DON'T KNOW |  |
| 713 | Are you the first, second, ... wife? |  |  |
| 714 | Have you been married or lived with a man only once or more than once? |  |  |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORI |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 715 | CHECK 714: | MONTH <br> DON'T KNOW MONTH <br> YEAR $\qquad$ $\square$ <br> DON'T KNOW YEAR |   <br> $\ldots \ldots . .9$ | $\xrightarrow{\rightarrow} 717$ |
| 716 | How old were you when you first started living with him? | AGE |  |  |
| 717 | CHECK 714: <br> MARRIED/LIVED WITH <br> MARR <br> A MAN MORE THAN ONCE <br> A M | LIVED WITH ONLY ONCE |  | $\rightarrow 721$ |
| 718 |  | NO, $\square$ <br> NOT IN A UNION |  | $\rightarrow 721$ |
| 719 | Now l'd like to ask you about your current (husband/partner). In what month and year did you start living with him? | MONTH <br> DON'T KNOW MONTH <br> YEAR <br> DON'T KNOW YEAR |   <br>   <br>   <br> $\ldots . . .$. 98 <br>   <br>   <br>  <br>  | $\xrightarrow{\longrightarrow} 721$ |
| 720 | How old were you when you first started living with your current (husband/partner)? | AGE |  |  |
| 721 | CHECK FOR PRESENCE OF OTHERS. BEFORE C | TINUING, MAKE EVERY EFFORT T | NSURE |  |
| 722 | Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. How old were you when you had sexual intercourse for the very first time? | NEVER HAD SEXUAL <br> INTERCOURSE <br> AGE IN YEARS | $\ldots \ldots$. 00 <br>    | $\longrightarrow 738$ |
| 723 | I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse? <br> IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO $\ldots \ldots \ldots \ldots$ 1 <br> WEEKS AGO $\ldots \ldots \ldots \ldots$. 2 <br> MONTHS AGO $\ldots \ldots \ldots \ldots$ 3  <br> YEARS AGO $\ldots \ldots \ldots \ldots .$. 4 |  | $\xrightarrow{\rightarrow} 737$ |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 724 | CHECK 232: <br> NOT PREGNANT OR UNSURE | PREGNANT | 727 |
| 725 | The last time you had sexual intercourse, did you or your partner do something or use any method to delay or avoid getting pregnant? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO . . . . . . . . . . . . . .  | $\rightarrow 727$ |
| 726 | Which method did you use? <br> RECORD ALL MENTIONED. <br> IF CODES 'G' OR 'H' ARE CIRCLED, SKIP TO 728 <br> EVEN IF ANOTHER METHOD WAS ALSO USED. |  | $\rightarrow 728$ |
| 727 | The last time you had sexual intercourse, was a condom used? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . . | $\rightarrow 730$ |
| 728 | What is the brand name of the condom used? <br> IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE. |  |  |
| 729 | From where did you obtain the condom the last time? <br> PROBE TO IDENTIFY TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL .............. 11 <br> GOVERNMENT POLYCLINIC ........ 12 <br> GOVERNMENT HEALTH CENTER . . ...... . 13 <br> GOVERNMENT CLINIC ............... 14 <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> OTHER PUBLIC SECTOR $\qquad$ <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL ............... 21 <br> PRIVATE CLINIC ............... 22 <br> PHARMACY ............... 23 <br> DRUG STORE .............. 24 <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) .............. 25 <br> MATERNITY HOME .............. 26 <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC <br> OTHER NGO MEDICAL SECTOR |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
|  |  | (SPECIFY) <br> OTHER SOURCE <br> SHOP/MARKET <br> CHURCH <br> FRIEND/RELATIVE <br> DRUG PEDDLERS <br> OTHER $\qquad$ (SPECIFY) <br> DON'T KNOW | 41 <br> 42 <br> 43 <br> 44 <br> 96 <br> 98 |  |
| 730 | What was your relationship to this person with whom you had sexual intercourse? <br> IF BOYFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD '3'. | HUSBAND <br> LIVE-IN PARTNER <br> BOYFRIEND NOT LIVING WITH RESPONDENT <br> CASUAL ACQUAINTANCE <br> CLIENT/SEX WORKER <br> OTHER $\qquad$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \end{aligned}$ |  |
| 731 | Apart from this person, have you had sexual intercourse with any other person in the last 12 months? | YES <br> NO |  | $\rightarrow 737$ |
| 732 | The last time you had sexual intercourse with this second person, was a condom used? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 733 | What was your relationship to this second person with whom you had sexual intercourse? <br> IF BOYFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD '3'. | HUSBAND <br> LIVE-IN PARTNER <br> BOYFRIEND NOT LIVING WITH RESPONDENT <br> CASUAL ACQUAINTANCE <br> CLIENT/SEX WORKER <br> OTHER $\qquad$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \end{aligned}$ |  |
| 734 | Apart from these two people, have you had sexual intercourse with any other person in the last 12 months? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\rightarrow 737$ |
| 735 | The last time you had sexual intercourse with this third person, was a condom used? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 736 | What was your relationship to this third person with whom you had sexual intercourse? <br> IF BOYFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD '3'. | HUSBAND <br> LIVE-IN PARTNER <br> BOYFRIEND NOT LIVING WITH <br> RESPONDENT <br> CASUAL ACQUAINTANCE <br> CLIENT/SEX WORKER <br> OTHER $\qquad$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \end{aligned}$ |  |
| 737 | In total, with how many different people have you had sexual intercourse in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'. | NUMBER OF PARTNERS <br> IN LIFETIME . <br> DON'T KNOW | $\begin{array}{r} \hline \\ \hline \\ \hline \end{array}$ |  |
| 738 | PRESENCE OF OTHERS DURING THIS SECTION. |   <br> CHILDREN $<10 \ldots \ldots \ldots \ldots$  <br> MES  <br> MALE ADULTS $\ldots \ldots \ldots \ldots \ldots$ 1 <br> FEMALE ADULTS $\ldots \ldots \ldots \ldots \ldots$ $\ldots \ldots$ | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 801 | CHECK 307: <br> NOT ASKED NEITHER ARE $\square$ <br> STERILIZED $\downarrow$ | HE OR SHE $\square$ STERILIZED | $\rightarrow 813$ |
| 802 | CHECK 232: <br> PREGNANT | PREGNANT $\square$ OR UNSURE | $\rightarrow 804$ |
| 803 | Now I have some questions about the future. After the child you are expecting now, would you like to have another child, or would you prefer not to have any more children? | HAVE ANOTHER CHILD NO MORE UNDECIDED/DON'T KNOW | $\begin{aligned} & \rightarrow 805 \\ & \longrightarrow \rightarrow 812 \end{aligned}$ |
| 804 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children? | HAVE (A/ANOTHER) CHILD NO MORE/NONE SAYS SHE CAN'T GET PREGNAN7 UNDECIDED/DON'T KNOW | $\begin{aligned} & \longrightarrow 887 \\ & \longrightarrow 813 \\ & \longrightarrow 811 \end{aligned}$ |
| 805 | CHECK 232: <br> NOT PREGNANT OR UNSURE <br> a) How long would you like to wait from now before the birth of (a/another) child? <br> PREGNANT $\square$ <br> b) After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? |  | $\begin{array}{\|c} \rightarrow 811 \\ \rightarrow^{813} \\ 811 \end{array}$ |
| 806 | CHECK 232: <br> NOT PREGNANT OR UNSURE $\square$ | PREGNANT | $\rightarrow 812$ |
| 807 | CHECK 307: USING A CONTRACEPTIVE $\stackrel{\text { NOT }}{\text { ASKED }} \square$ | CURRENTLY <br> USING $\square$ | $\rightarrow 813$ |
| 808 | CHECK 805: <br> '24' OR MORE MONTHS <br> NOT OR '02' OR MORE YEARS OR O2 OR MORE YEARS ASKED | '00-23' MONTHS <br> OR '00-01' YEAR | $\rightarrow 812$ |
| 809 | CHECK 723: <br> DAYS, WEEKS OR MONTHS AGO $\square$ |  | $\begin{aligned} & \longrightarrow 811 \\ & \longrightarrow 811 \end{aligned}$ |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 810 | CHECK 804: <br> WANTS TO HAVE WANTS NO MORE/ A/ANOTHER CHILD $\downarrow$ <br> a) You have said that <br> b) You have said that you do not want you do not want any (a/another) child (more) children. Can soon. Can you tell you tell me why you me why you are not are not using a using a method to method to prevent prevent pregnancy? pregnancy? <br> Any other reason? <br> Any other reason? |  |  |
| 811 | CHECK 307: USING A CONTRACEPTIVE | YES, <br> ENTLY USING | 813 |
| 812 | Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future? |  |  |
| 813 | CHECK 224: <br> a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? $\begin{aligned} & \text { NO LIVING } \\ & \text { CHILDREN } \\ & \square \end{aligned}$ <br> b) If you could choose exactly the number of children to have in your whole life, how many would that be? <br> PROBE FOR A NUMERIC RESPONSE. |  | $\begin{array}{\|c} \rightarrow 815 \\ \\ \\ \\ \\ \longrightarrow 815 \end{array}$ |
| 814 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl? | NUMBER. . <br> OTHER $\qquad$ 96 (SPECIFY) |  |

## SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 815 | In the last 12 months have you: <br> a) Heard about family planning on the radio? <br> b) Seen anything about family planning on the television? <br> c) Read about family planning in a newspaper or magazine? <br> d) Received a voice or text message about family planning on a mobile phone? <br> e) Seen anything about family planning on social media such as Facebook, Twitter, or Instagram? <br> f) Seen anything about family planning on a poster, leaflet or brochure? <br> g) Seen anything about family planning on an outdoor sign or billboard? <br> h) Heard anything about family planning at community meetings or events? |  |  |
| 817 | CHECK 701: | NO, $\square$ <br> NOT IN A UNION | $\rightarrow 901$ |
| 818 | Who usually makes the decision on whether or not you should use contraception, you, your (husband/partner), you and your (husband/partner) jointly, or someone else? | RESPONDENT . . . . . . . . . . . . . . . . . . . . . 1 <br> HUSBAND/PARTNER . . . . . . . . . . . . . . . 2 <br> RESPONDENT AND HUSBAND/PARTNER  <br> JOINTLY . . . . . . . . . . . . . . . . . . 3 <br> SOMEONE ELSE . . . . . . . . . . . . . . . . . 4 <br> OTHER 6 | $\rightarrow 820$ |
| 819 | When making this decision with your (husband/partner), would you say that your opinion is more important, equally important, or less important than your (husband's/partner's) opinion? |  |  |
| 820 | Has your (husband/partner) or any other family member ever tried to force or pressure you to become pregnant when you did not want to become |  |  |
| 821 | CHECK 307: <br> NOT ASKED NEITHER ARE | HE OR SHE ARE $\square$ STERILIZED | -901 |
| 822 | Does your (husband/partner) want the same number of children that you want, or does he want more or fewer than you want? |  |  |

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK


SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 915 | Do you usually work throughout the year, or do you work seasonally, or only once in a while? | THROUGHOUT THE YEAR . . . . . . . . . . . . . . 1 <br> SEASONALLY/PART OF THE YEAF . . . . . . . 2 <br> ONCE IN A WHILE . . . . . . . . . . . . . . . . . . . 3 |  |
| 916 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 917 | CHECK 701: <br> CURRENTLY MARRIED/LIVING WITH A MAN | NOT IN UNION | $\longrightarrow 925$ |
| 918 | CHECK 916: <br> CODE '1' OR '2' CIRCLED | OTHER | $\rightarrow 921$ |
| 919 | Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly? |  |  |
| 920 | Would you say that the money that you earn is more than what your (husband/partner) earns, less than what he earns, or about the same? |  | $\longrightarrow 922$ |
| 921 | Who usually decides how your (husband's/partner's) earnings will be used: you, your (husband/partner), or you and your (husband/partner) jointly? |  |  |
| 922 | Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else? |  |  |
| 923 | Who usually makes decisions about making major household purchases? |  |  |
| 924 | Who usually makes decisions about visits to your family or relatives? |  |  |

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 925 | Do you own this or any other house either alone or jointly with someone else? |  | $\rightarrow 928$ |
| 926 | Do you have a title deed or other government recognized document for any house you own? |  | $\rightarrow 928$ |
| 927 | Is your name on this document? |  |  |
| 928 | Do you own any agricultural or non-agricultural land either alone or jointly with someone else? |  | $\rightarrow$ 930A |
| 929 | Do you have a title deed or other government recognized document for any land you own? |  | $\rightarrow 930 \mathrm{~A}$ |
| 930 | Is your name on this document? |  |  |
| 930A | Do you have an account in a bank or other financial institution that you yourself use? |  | $\rightarrow 930 \mathrm{C}$ |
| 930B | Did you yourself put money in or take money out of this account in the last 12 months? |  |  |
| 930C | In the last 12 months, have you used a mobile phone to make financial transactions such as sending or receiving money, paying bills, purchasing goods or services, or receiving wages? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . <br> NO . . . . . . . . . . . . . .  |  |
| 931 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT) |  |  |
| 932 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <br> a) If she goes out without telling him? <br> b) If she neglects the children? <br> c) If she argues with him? <br> d) If she refuses to have sex with him? <br> e) If she burns the food? |  YES NO DK <br> a) GOES OUT . . . . . . . . 1 2 8 <br> b) NEGLECTS CHILDREN 1 2 8 <br> c) ARGUES . . . . . . . . . 1 2 8 <br> d) REFUSES SEX . . . . . . 1 2 8 <br> e) BURNS FOOD . . . . . 1 2 8 |  |

SECTION 10. HIVIAIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1000 | Now I would like to talk about HIV and AIDS. |  |  |
| 1001 | Have you ever heard of HIV or AIDS? |  | $\rightarrow 1040$ |
| 1002 | CHECK 111: AGE <br> 15-24 YEARS | 25 YEARS OR OLDER | $\rightarrow 1008$ |
| 1003 | HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? |  |  |
| 1004 | Can people get HIV from mosquito bites? |  |  |
| 1005 | Can people reduce their chance of getting HIV by using a condom every time they have sex? |  |  |
| 1006 | Can people get HIV by sharing food with a person who has HIV? |  |  |
| 1007 | Is it possible for a healthy-looking person to have HIV? | YES $\ldots \ldots$ $\ldots$ |  |
| 1008 | Have you heard of ARVs, that is, antiretroviral medicines that treat HIV? |  |  |
| 1009 | Are there any special medicines that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? |  |  |
| 1010 | Have you heard of PrEP, a medicine taken daily that can prevent a person from getting HIV? |  | $\rightarrow 1012$ |
| 1011 | Do you approve of people who take a pill every day to prevent getting HIV? |  |  |
| 1012 | CHECK 220 AND 223: <br> LAST LIVE BIRTH 0- $\square$ 23 MONTHS BEFORE THE | NO LIVE BIRTHS $\square$ <br> LAST LIVE BIRTH 24 <br> MONTHS OR <br> MORE BEFORE $\square$ | $\xrightarrow{\longrightarrow} 1024$ |
| 1013 | CHECK 412 FOR LAST LIVE BIRTH ('TYPE 1'): $\begin{array}{r} \text { HAD } \\ \text { ANTENATAL } \\ \text { CARE } \end{array}$ | NO <br> ANTENATAL $\square$ CARE | $\rightarrow 1018$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1014 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY. |  |  |
| 1015 | Were you tested for HIV as part of your antenatal care while you were pregnant with (NAME)? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . . 2 | $\rightarrow 1018$ |
| 1016 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. |  |  |
| 1017 | Did you get the results of the test? |  |  |
| 1018 | CHECK 435 FOR LAST LIVE BIRTH ('TYPE 1'): <br> ANY CODE $\square$ | OTHER | 1021 |
| 1019 | Between the time you went for delivery but before the baby was born, were you tested for HIV? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . | $\longrightarrow 1021$ |
| 1020 | Did you get the results of the test? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . | $\rightarrow 1022$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1021 | CHECK 1015: | NO OR $\square$ NOT ASKED | 1024 |
| 1022 | Have you been tested for HIV since that time you were tested during your pregnancy? |  | $\longrightarrow 1025$ |
| 1023 | In what month and year was your most recent HIV test? |  | $\longrightarrow_{\rightarrow 1028}$ |
| 1024 | Have you ever been tested for HIV? | $\begin{array}{lll} \text { YES } \ldots \text {. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } 2 \end{array}$ | $\rightarrow 1032$ |
| 1025 | In what month and year was your most recent HIV test? |  |  |
| 1026 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL . . ............. 11 <br> GOVERNMENT POLYCLINIC ........ 12 <br> GOVERNMENT HEALTH CENTER . . . . . . . 13 <br> GOVERNMENT CLINIC ............... 14 <br> CHPS CENTER/GOVERNMENT <br> HEALTH POST <br> COMMUNITY HEALTH SERVICES <br> (OUTREACH) <br> PUBLIC LABORATORY/ <br> DIAGNOSTIC CENTERS <br> OTHER PUBLIC SECTOR <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL ............... 21 <br> PRIVATE CLINIC ............... 22 <br> PHARMACY ............... 23 <br> DRUG STORE .............. 24 <br> COMMUNITY HEALTH SERVICES <br> (MOBILE CLINIC) ............... 25 <br> MATERNITY HOME .............. 26 <br> PRIVATE LABORATORY/ <br> DIAGNOSTIC CENTERS ........ 27 <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ <br> (SPECIFY) <br> NGO MEDICAL SECTOR <br> NGO HOSPITAL/CLINIC .............. 31 <br> OTHER NGO MEDICAL SECTOR $\qquad$ <br> (SPECIFY) <br> OTHER SOURCE <br> HOME ................................... . . . . 41 <br> WORKPLACE ........................... . 42 <br> CORRECTIONAL FACILITY/ <br> BORSTAL HOME <br> OTHER $\qquad$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 1027 | Did you get the results of the test? | YES <br> NO |  | $\rightarrow 1031$ |
| 1028 | What was the result of the test? | POSITIVE <br> NEGATIVE <br> INDETERMINATE <br> DECLINED TO ANSWER <br> DID NOT RECEIVE TEST RESULT | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ | $\rightarrow 1031$ |
| 1029 | In what month and year did you receive your first HIV-positive test result? | MONTH <br> DON'T KNOW MONTH <br> YEAR <br> DON'T KNOW YEAR <br> SAME DATE AS LAST HIV TES |  |  |
| 1030 | Are you currently taking ARVs, that is antiretroviral medicines? <br> By currently, I mean that you may have missed some doses but you are still taking ARVs. | YES <br> NO DON'T KNOW | 1 2 8 |  |
| 1031 | How many times have you been tested for HIV in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE, IF NUMBER OF TESTS IS 95 OR MORE, RECORD '95'. | NUMBER OF HIV TESTS . . . . . . . . |  |  |
| 1032 | Have you heard of test kits people can use to test themselves for HIV? | YES NO |  | $\longrightarrow 1034$ |
| 1033 | Have you ever tested yourself for HIV using a selftest kit? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |
| 1034 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? | $\begin{aligned} & \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \\ & \text { NO . . . } \\ & \text { DONOWINT SURE/DEPEND } \end{aligned}$ | 1 2 8 |  |
| 1035 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV? | $\begin{aligned} & \text { YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } \\ & \text { NO . . . . . } \\ & \text { DON'T KNOW/NOT SURE/DEPEND } \end{aligned}$ | 1 2 8 |  |
| 1036 | CHECK 1028: $\begin{array}{r} \text { CODE '1' } \\ \text { CIRCLED } \\ \hline \end{array}$ | OTHER/ <br> NOT ASKED |  | $\longrightarrow 1040$ |
| 1037 | Now I would like to ask you a few questions about your experiences living with HIV. <br> Have you disclosed your HIV status to anyone other than me? | YES NO |  |  |
| 1038 | Do you agree or disagree with the following statement: I have felt ashamed because of my HIV | AGREE DISAGREE |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGOR |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1039 | Please tell me if the following things have happened to you, or if you think they have happened to you, because of your HIV status in the last 12 months: <br> a) People have talked badly about me because of my HIV status. <br> b) Someone else disclosed my HIV status without my permission. <br> c) I have been verbally insulted, harassed, or threatened because of my HIV status. <br> d) Healthcare workers talked badly about me because of my HIV status. <br> e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. | a) PEOPLE TALK BADL) . . . . <br> b) DISCLOSED STATUS <br> c) VERBALLY INSULTED <br> d) HEALTHCARE WORKERS TALKED BADLY <br> e) HEALTHCARE WORKERS VERBALLY ABUSED | YES <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 | NO <br> 2 <br> 2 <br> 2 <br> 2 <br> 2 |  |
| 1040 | CHECK 1001: <br> HEARD ABOUT HIV OR AIDS <br> a) Apart from HIV, have you heard about other infections that can be transmitted through sexual <br> NOT HEARD ABOUT HIV OR AIDS <br> b) Have you heard about infections that can be transmitted through sexual contact? | YES <br> NO |  |  |  |
| 1041 | CHECK 722: <br> HAS HAD SEXUAL INTERCOURSE | ER HAD SEXUAL INTERCOURSE |  |  | $\rightarrow 1046$ |
| 1042 | CHECK 1040: HEARD ABOUT OTHER SEXUALLY <br> YES $\square$ | ANSMITTED INFECTIONS? NO $\square$ |  |  | $\rightarrow 1044$ |
| 1043 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact? | YES <br> NO <br> DON'T KNOW |  | 1 2 8 |  |
| 1044 | Sometimes women experience a bad-smelling abnormal genital discharge. During the last 12 months, have you had a bad-smelling abnormal genital discharge? | YES <br> NO <br> DON'T KNOW |  | 1 2 8 |  |
| 1045 | Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer? | YES <br> NO <br> DON'T KNOW |  | 1 2 8 |  |
| 1046 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have | YES <br> NO <br> DON'T KNOW |  | 1 2 8 |  |
| 1047 | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women? | YES <br> NO <br> DON'T KNOW |  | 1 2 8 |  |
| 1048 | CHECK 701: <br> CURRENTLY MARRIED/ LIVING WITH A MAN | NOT IN UNION |  |  | $\rightarrow 1101$ |
| 1049 | Can you say no to your (husband/partner) if you do not want to have sexual intercourse? |  | $\ldots$ | 1 2 8 |  |
| 1050 | Could you ask your (husband/partner) to use a condom if you wanted him to? |  | . $\cdot$. . . . | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |

SECTION 11. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1101 | How long does it take in minutes to go from your home to the nearest healthcare facility, which could be a hospital, a health clinic, a medical doctor, or a health post? | MINUTES |  |
| 1102 | How do you travel to this healthcare facility from your home? <br> IF MORE THAN ONE WAY OF TRAVEL IS MENTIONED, CIRCLE THE ONE HIGHEST ON THE LIST. |  |  |
| 1103 | Has a doctor or other healthcare provider examined your breasts to check for breast cancer? |  |  |
| 1104 | Now l'm going to ask you about tests a healthcare wo cancer in the cervix. The cervix connects the womb to woman is asked to lie on her back with her legs apart collect a sample from inside her. The sample is sent smear or HPV test. Another method is called a VIA or healthcare worker puts vinegar on the cervix to see i | er can do to check for cervical cancer, which is he vagina. To be checked for cervical cancer, a Then the healthcare worker will use a brush or swab to laboratory for testing. This test is called a Pap isual Inspection with Acetic Acid. In this test, the re is a reaction. |  |
| 1105 | Has a doctor or other healthcare worker ever tested you for cervical cancer? |  |  |
| 1106 | Now I would like to ask you some questions on smoking and tobacco use. Do you currently smoke cigarettes every day, some days, or not at all? |  | $\rightarrow \quad 1108$ |
| 1107 | On average, how many cigarettes do you currently smoke each day? | NUMBER OF CIGARETTES |  |
| 1108 | Do you currently smoke or use any other type of tobacco every day, some days, or not at all? | EVERY DAY . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> SOME DAYS 2  <br> NOT AT ALL . . . . . . . . . . . . . . . . . . . . . . . . . . . 3  | $\longrightarrow 1110$ |
| 1109 | What other type of tobacco do you currently smoke or use? <br> RECORD ALL MENTIONED. |  |  |

SECTION 11. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1110 | Now I would like to ask you some questions about drinking alcohol. Have you ever consumed any alcohol, such as beer, wine, spirits, akpeteshie, palm wine, pito, etc? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . . . . | $\longrightarrow 1113$ |
| 1111 | During the last one month, on how many days did you have an alcoholic drink? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF RESPONDENT ANSWERS 'EVERY DAY' OR 'ALMOST EVERY DAY,' CODE '95'. | DID NOT DRINK ALCOHOL . ................. . . 00 <br> NUMBER OF DAY <br> EVERY DAY/ALMOST EVERY DAY. | $\longrightarrow 1113$ |
| 1112 | We count one drink of alcohol as one can or bottle of beer, one glass of wine, one shot of spirits, or one shot of akpeteshie, a calabash of palm wine or pito. In the last one month, on the days that you drank alcohol, how many drinks did you usually have per day? <br> SHOW PICTURES OF SIZES OF STANDARD DRINKS. | LESS THAN ONE STANDARD DRINK ........ 00 <br> NUMBER OF DRINKS |  |
| 1113 | Many different factors can prevent women from getting medical advice or treatment for themselves. When you are sick and want to get medical advice or treatment, is each of the following a big problem or not a big problem: <br> a) Getting permission to go to the doctor? <br> b) Getting money needed for advice or treatment? <br> c) The distance to the health facility? <br> d) Not wanting to go alone? |  |  |
| 1114 | Are you covered by any health insurance? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO 2  | $\longrightarrow 1116$ |
| 1115 | What type of health insurance are you covered by? <br> RECORD ALL MENTIONED. | ```NATIONAL /DISTRICT HEALTH INSURANCE(NHIS) A MUTUAL HEALTH ORGANIZATION/ COMMUNITY-BASED HEALTH INSURANCE ........................ B HEALTH INSURANCE THROUGH EMPLOYER ............................. C OTHER PRIVATELY PURCHASED COMMERCIAL HEALTH INSURANCE .... D OTHER``` $\qquad$ <br> ```XNone``` | $\longrightarrow 1119$ |
| 1116 | Have you ever been registered with the National Health Insurance Scheme or NHIS? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 1118$ |

SECTION 11. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 1117 | Why have you not registered with the National Health Insurance Scheme (NHIS)? <br> RECORD ALL MENTIONED. | NOT HEARD OF NHIS <br> CANNOT AFFORD PREMIUM <br> DO NOT TRUST <br> DON'T NEED HEALTH INSURANCE <br> NHIS DOES NOT COVER <br> HEALTH SERVICES I NEED <br> DON'T UNDERSTANDS SCHEME <br> DON'T KNOW WHERE TO REGISTER <br> NO EASY ACCESS TO A HEALTH FACILITY <br> DO NOT LIKE THE ATTITUDE OF STAFF IN A HEALTH FACILITY <br> THOSE WITH INSURANCE ARE GIVEN SUBSTANDARD SERVICES AND MEDICINE <br> OTHER | A <br> B <br> C <br> D <br> E <br> F <br> G <br> H <br> I <br> J <br> X | $1121$ |
| 1118 | What is the reason for dropping out of National Health Insurance Scheme? <br> RECORD ALL MENTIONED. | CANNOT AFFORD PREMIUM DO NOT TRUST DON'T NEED HEALTH INSURANCE . . . . NHIS DOES NOT COVER <br> HEALTH SERVICES I NEED . . . . . . . DON'T UNDERSTANDS SCHEME DON'T KNOW WHERE TO REGISTER NO EASY ACCESS TO A HEALTH FACILITY <br> DO NOT LIKE THE ATTITUDE OF STAFF IN A HEALTH FACILITY THOSE WITH INSURANCE ARE GIVEN SUBSTANDARD SERVICES AND MEDICINE <br> OTHER | A <br> B <br> C <br> D <br> E <br> F <br> G <br> H <br> I <br> J $x$ |  |
| 1119 | Do you hold a valid National Health Insurance Scheme (NHIS) card? | YES, CARD SEEN <br> YES, CARD NOT SEEN <br> NO | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\longrightarrow \rightarrow 1121$ |
| 1120 | Why do you not have a valid National Health Insurance Scheme (NHIS) card? <br> RECORD ALL MENTIONED. | REGISTERED, NOT PAID FULLY . . . . REGISTERED, CARD NOT <br> RECEIVED <br> REGISTERED, WAITING PERIOD <br> NOT RENEWED REGISTRATION <br> LOST NHIS CARD <br> OTHER $\qquad$ | A <br> B <br> C <br> D <br> E X |  |
| 1121 | In the last 6 months, how many times have you visited any healthcare provider or a health care facility for your own health? <br> IF NONE RECORD '00' | NUMBER OF TIMES <br> NONE DON'T KNOW | $\begin{aligned} & 00 \\ & 98 \end{aligned}$ | $\longrightarrow 1201$ |
| 1121A | CHECK 1117: <br> NOT ASKED | ASKED |  | $\longrightarrow 1201$ |
| 1121B | CHECK 1120: NOT ASKED $\square$ | ASKED |  | $\longrightarrow 1201$ |

SECTION 11. OTHER HEALTH ISSUES


SECTION 12. MALARIA KNOWLEDGE AND BELIEFS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1201 | In the last six months, have you seen or heard any messages about malaria? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 1203$ |
| 1202 | Where did you see or hear these messages? <br> PROBE: Anywhere else? <br> RECORD ALL MENTIONED. |  |  |
| 1202A | In the past six months, have you seen/heard any of the following malaria messages on television or radio: <br> a) Zero malaria starts with you and me ? <br> b) Malaria 360, everything malaria? <br> c) Good life is an everyday thing ? |  YES, YES, YES, TV  <br>  TV RADIO AND RADIO NO <br> a) 1 2 3 4 <br> b) 1 2 3 4 <br> c) 1 2 3 4 |  |
| 1203 | Are there ways to avoid getting malaria? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 1205$ |
| 1204 | What are the things that people can do to prevent themselves from getting malaria? <br> RECORD ALL MENTIONED. |  |  |
| 1205 | Now I am going to read some statements and I would like you to tell me whether you agree or disagree with each statement. If you don't know, say, don't know. <br> People in this community only get malaria during the rainy season. Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . .  |  |
| 1206 | When a child has a fever, you almost always worry it might be malaria. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . .  |  |
| 1207 | Getting malaria is not a problem because it can be easily treated. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . .  |  |

SECTION 12. MALARIA KNOWLEDGE AND BELIEFS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1208 | Only weak children can die from malaria. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . .  |  |
| 1209 | You can sleep under a mosquito net for the entire night when there are lots of mosquitoes. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . .  |  |
| 1210 | You can sleep under a mosquito net for the entire night when there are few mosquitoes <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . . .  |  |
| 1211 | You do not like sleeping under a mosquito net when the weather is too warm. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . .  |  |
| 1212 | When a child has a fever, it is best to start by giving them any medicine you have at home. <br> Do you agree or disagree? | AGREE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> DISAGREE . . . . . . . . .  |  |
| 1213 | People in your community usually take their children to a health care provider on the same day or day after they develop a fever. <br> Do you agree or disagree? <br> IF RESPONDENT DOESN'T KNOW, PROBE: <br> Would you say more than half or less than half of the community does this? | AGREE/MORE THAN HALF . . . . . . . . . . . . . . . 1 <br> DISAGREE/LESS THAN HALF . . . . . . . . . . 2 <br> DON'T KNOW/UNCERTAIN . . . . . . . . . . . . . 8 |  |
| 1214 | People in your community who have a mosquito net usually sleep under a mosquito net every night. <br> Do you agree or disagree? <br> IF RESPONDENT DOESN'T KNOW, PROBE: <br> Would you say more than half or less than half of the community does this? | AGREE/MORE THAN HALF . . . . . . . . . . . . . . . 1 <br> DISAGREE/LESS THAN HALF 2 <br> DON'T KNOW/UNCERTAIN . . . . . . . . . . . . . . . 8 |  |
| 1214A | During the past six months, have you seen/heard any advert on the use of ACTs/ malaria medicines? | YES ....................................... . . 1 <br> NO $\ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~ . ~ . ~ . ~ . ~$ 2 | $\rightarrow 1300$ |
| 1214B | Where did you see/hear the advert on the use of ACTs/ malaria medicines? <br> Any other media? <br> RECORD ALL MENTIONED. |  |  |



DOMESTIC VIOLENCE MODULE



DOMESTIC VIOLENCE MODULE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1317 | CHECK1308A (h-j) AND 1316A (b): <br> AT LEAST ONE 'YES' | OT A SINGLE $\square$ YES | - 1319 |
| 1318 | How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts that you did not want to by any current or previous husband or male partner? | AGE IN COMPLETED YEARS <br> DON'T KNOW |  |
| 1319 | CHECK 212 AND 232: <br> CURRENTLY PREGNANT 232=1 OR $\square$ <br> HAD ONE OR MORE PAST PREGNANCIES 212>0 | PREGNANT $232=2 \text { AND }$ NO PAST $\square$ REGNANCIES $212=0$ | $\rightarrow 1322$ |
| 1320 | Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant? | YES $\ldots$ | $\rightarrow 1322$ |
| 1321 | Who has done any of these things to physically hurt you while you were pregnant? <br> Anyone else? <br> RECORD ALL MENTIONED. |  |  |
| 1322 | CHECK 701 AND 702 AND 1304 AND1305: <br> EVER MARRIED/EVER LIVED WITH A MAN/ <br> EVER HAD A MALE PARTNER $\downarrow$ <br> a) From the time you were 15 years old, has anyone other than a husband or male partner, hit you, slapped you, kicked you, or done anything else to hurt you physically? Remember, I do not want you to include any husband or any other male partner. <br> b) From the time you were 15 years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically? |  | $\mapsto \quad 1325$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1323 | Who has hurt you in this way? <br> Anyone else? <br> RECORD ALL MENTIONED. |  |  |
| 1324 | In the last 12 months, how often (has this person/have these persons) physically hurt you: often, only sometimes, or not at all? | OFTEN . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> SOMETIMES . . . . . . . . . . . . . . 3 |  |
| 1325 | CHECK 701 AND 702 AND 1304 AND 1305: <br> EVER MARRIED/ EVER LIVED WITH A MAN/ $\square$ EVER HAD A MALE PARTNER | ER MARRIED/ NEVER HAD LE PARTNER | $\longrightarrow 1327$ |
| 1326 | At any time in your life, as a child or as an adult, has anyone other than any previous husband or any other current or previous male partner ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to? Remember I do not want you to include any husband or male partner. |  |  |
| 1327 | At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to? |  | $\square \rightarrow 1331$ |
| 1328 | CHECK 701 AND 702 AND 1304 AND 1305: <br> EVER MARRIED/EVER LIVED WITH A MAN/ EVER HAD A MALE PARTNER <br> a) How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts that you did not want to by anyone, not including any husband or any other male partner? <br> NEVER MARRIED/ NEVER HAD A MALE PARTNER <br> b) How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts that you did not want to? | AGE IN COMPLETED YEARS <br> DON'T KNOW |  |

DOMESTIC VIOLENCE MODULE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1329 | Who has forced you to have sexual intercourse or perform any other sexual acts that you did not want to? <br> Anyone else? <br> RECORD ALL MENTIONED. |  |  |
| 1330 | CHECK 701 AND 702 AND 1304 AND 1305: <br> EVER MARRIED/EVER <br> LIVED WITH A MAN/ <br> EVER HAD A MALE PARTNER $\downarrow$ <br> a) In the last 12 months, has anyone other than any previous husband or any other current or previous male partner forced you to have sexual intercourse or perform any other sexual acts that you did not want to? <br> NEVER MARRIED/ NEVER HAD A MALE PARTNER <br> b) In the last 12 months, has anyone forced you to have sexual intercourse or perform any other sexual acts that you did not want to? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO 2  |  |
| 1331 | $\begin{array}{r} \text { CHECK 1308A (a-j), 1316A (a,b), 1320, 1322, 1326, AND 1327: } \\ \text { AT LEAST ONE } \square \\ \text { 'YES' } \downarrow \end{array}$ | T A SINGLE $\square$ 'YES' | $\rightarrow 1335$ |
| 1332 | Thinking about what you yourself have experienced among the different things we have been talking about, have you ever tried to seek help? | YES $\ldots$ <br> NO $\ldots . .$. | $\longrightarrow 1334$ |
| 1333 | From whom have you sought help? <br> Anyone else? <br> RECORD ALL MENTIONED. |  | $\square \rightarrow 1335$ |
| 1334 | Have you ever told any one about this? |  |  |
| 1335 | As far as you know, did your father ever beat your mother? |  |  |



COMMENTS ABOUT INTERVIEW:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

COMMENTS ON SPECIFIC QUESTIONS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

ANY OTHER COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

SUPERVISOR'S OBSERVATIONS
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

INSTRUCTIONS:
ONLY ONE CODE SHOULD APPEAR IN ANY BOX. COLUMN 1 REQUIRES A CODE IN EVERY MONTH.

## CODES FOR EACH COLUMN:

COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE
B BIRTHS
P PREGNANCIES
T TERMINATIONS
O NO METHOD
1 FEMALE STERILIZATION
2 MALE STERILIZATION
3 IUD
4 INJECTABLES
5 IMPLANTS
6 PILL
7 CONDOM
8 FEMALE CONDOM
9 EMERGENCY CONTRACEPTION
J STANDARD DAYS METHOD
K LACTATIONAL AMENORRHEA METHOD
L RHYTHM METHOD
M WITHDRAWAL
X OTHER MODERN METHOD
Y OTHER TRADITIONAL METHOD
COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE

```
0 INFREQUENT SEX/HUSBAND AWAY
1 BECAME PREGNANT WHILE USING
2 WANTED TO BECOME PREGNANT
3 HUSBAND/PARTNER DISAPPROVED
4 WANTED MORE EFFECTIVE METHOD
5 \text { CHANGES IN MENSTRUAL BLEEDING}
6 \mp@code { O T H E R ~ S I D E ~ E F F E C T S / H E A L T H ~ C O N C E R N S }
7 LACK OF ACCESS/TOO FAR
8 COSTS TOO MUCH
N INCONVENIENT TO USE
F UP TO GOD/FATALISTIC
A DIFFICULT TO GET PREGNANT/MENOPAUSAL
D MARITAL DISSOLUTION/SEPARATION
X OTHER
```

$\qquad$

```
(SPECIFY)
z DON'T KNOW
```

COL. 1 COL. 2


GHANA
GHANA STATISTICAL SERVICE


## INTRODUCTION AND CONSENT

Hello. My name is $\qquad$ I am working with Ghana Statistical Service (GSS). We are conducting a survey about health and other topics all over Ghana. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?
May I begin the interview now?

SIGNATURE OF INTERVIEWER $\qquad$ DATE $\qquad$
RESPONDENT AGREES RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . . $2 \longrightarrow$ END

SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 101 | RECORD THE TIME. | HOURS <br> MINUTES |   <br>   |  |
| 102 | In what REGION do you live? | WESTERN <br> CENTRAL <br> GREATER ACCRA <br> VOLTA <br> EASTERN <br> ASHANTI <br> WESTERN NORTH <br> AHAFO <br> BONO <br> BONO EAST <br> OTI <br> NORTHERN <br> SAVANNAH <br> NORTH EAST <br> UPPER EAST <br> UPPER WEST <br> OUTSIDE OF GHANA |  |  |
| 103 | What country were you born in? | COUNTRY |  |  |
| 104 | How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)? <br> IF LESS THAN ONE YEAR, RECORD ‘00’ YEARS. | YEARS <br> ALWAYS <br> VISITOR |  | $\xrightarrow{\rightarrow} 110$ |
| 105 | CHECK 104: 00-04 YEARS | EARS $\square$ MORE |  | $\rightarrow 107$ |
| 106 | In what month and year did you move here? | MONTH <br> DON'T KNOW MONTH <br> YEAR. $\qquad$ <br> DON'T KNOW YEAR |  |  |

SECTION 1. RESPONDENT'S BACKGROUND


SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 116 | CHECK 114: <br> PRIMARY, MIDDLE, JSS/JHS, SECONDARY, OR SSS/SHS | HER $\square$ | $\longrightarrow 119$ |
| 117 | Now I would like you to read this sentence to me. <br> SHOW CARD TO RESPONDENT. <br> IF RESPONDENT CANNOT READ WHOLE SENTENCE, <br> PROBE: Can you read any part of the sentence to me? |  |  |
| 118 | CHECK 117: $\begin{array}{r} \text { CODE '2', '3' } \\ \text { OR '4' } \\ \text { CIRCLED } \end{array}$ | ' OR '5' | $\rightarrow 120$ |
| 119 | Do you read a newspaper or magazine at least once a week, less than once a week or not at all? |  |  |
| 120 | Do you listen to the radio at least once a week, less than once a week or not at all? |  |  |
| 121 | Do you watch television at least once a week, less than once a week or not at all? |  |  |
| 122 | Do you own a mobile phone? |  | $\rightarrow 127$ |
| 123 | Is your mobile phone a smart phone? |  |  |
| 127 | Have you ever used the Internet from any location on any device? |  | $\rightarrow 130$ |
| 128 | In the last 12 months, have you used the Internet? <br> IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE. |  | $\rightarrow 130$ |
| 129 | During the last one month, how often did you use the Internet: almost every day, at least once a week, less than once a week, or not at all? |  |  |
| 130 | What is your religion |  |  |
| 131 | What is your ethnic group? |  |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 201 | Now I would like to ask about any children you have had during your life. I am interested in all of the children that are biologically yours, even if they are not legally yours or do not have your last name. Have you ever fathered any children with any woman? | YES <br> NO <br> DON'T KNOW | $\xrightarrow{\rightarrow} 206$ |
| 202 | Do you have any sons or daughters that you have fathered who are now living with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 204$ |
| 203 | a) How many sons live with you? <br> b) And how many daughters live with you? <br> IF NONE, RECORD '00'. | a) SONS AT HOME <br> b) DAUGHTERS AT HOME |  |
| 204 | Do you have any sons or daughters that you have fathered who are alive but do not live with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 206$ |
| 205 | a) How many sons are alive but do not live with you? <br> b) And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | a) SONS ELSEWHERE <br> b) DAUGHTERS ELSEWHERE |  |
| 206 | Have you ever fathered a son or a daughter who was born alive but later died? <br> IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time? | YES <br> NO <br> DON'T KNOW | $\xrightarrow{\rightarrow}$ 208 |
| 207 | a) How many boys have died? <br> b) And how many girls have died? <br> IF NONE, RECORD ' 00 '. | a) BOYS DEAD <br> b) GIRLS DEAD |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL CHILDREN |  |
| 209 | CHECK 208: <br> HAS NO ANY CHIL | HAS HAD ONLY $\square$ ONE CHILD <br> HAD | $\begin{array}{\|l} \longrightarrow 211 \\ \\ \longrightarrow 301 \end{array}$ |
| 210 | Did all of the children you have fathered have the same biological mother? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |
| 211 | CHECK 208: <br> HAS HAD <br> MORE THAN <br> ONE CHILD <br> a) How old were you when your first child was born? $\begin{array}{r} \text { HAS HAD } \\ \text { ONLY } \\ \text { ONE CHILD } \downarrow \end{array}$ <br> b) How old were you when your child was born? | AGE IN YEARS |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 212 | CHECK 203 AND 205: <br> AT LEAST ONE $\square$ LIVING CHILD | NO LIVING CHILDREN |  | $\longrightarrow 301$ |
| 213 | CHECK 203 AND 205: <br> MORE THAN ONE <br> ONLY ONE <br> LIVING CHILD <br> a) How old is your <br> b) How old is your child? youngest child? | AGE IN YEARS |  |  |
| 214 | CHECK 213: <br> (YOUNGEST) CHILD IS (YOUNGEST) CHILD IS AGE 0-2 YEARS $\downarrow$ AGE 3 YEARS OR OLDER |  |  | $\rightarrow 301$ |
| 215 | CHECK 203 AND 205: <br> MORE THAN ONE <br> ONLY ONE $\square$ <br> a) What is the name of <br> b) What is the name of your youngest child? your child? | (NAME OF (YOUNGEST) CHILD) |  |  |
| 216 | When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\xrightarrow{ } \rightarrow 218$ |
| 217 | Were you ever present during any of those antenatal check-ups? | PRESENT <br> NOT PRESENT |  |  |
| 218 | Was (NAME) born in a hospital or health facility? | HOSPITAL/HEALTH FACILITY ................ 1OTHER . . . . . . . . . . . . . . . . . . . . . . . . 2 |  | $\longrightarrow 301$ |
| 219 | Did you go with (NAME's) mother to the hospital or health facility where she gave birth to (NAME)? |  |  |  |



SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 302 | In the last 12 months have you: <br> a) Heard about family planning on the radio? <br> b) Seen anything about family planning on the television? <br> c) Read about family planning in a newspaper or magazine? <br> d) Received a voice or text message about family planning on a mobile phone? <br> e) Seen anything about family planning on social media such as Facebook, Twitter, or Instagram? <br> f) Seen anything about family planning on a poster, leaflet or brochure? <br> g) Seen anything about family planning on an outdoor sign or billboard? <br> h) Heard anything about family planning at community meetings or events? | a) RADIO <br> b) TELEVISION <br> c) NEWSPAPER OR MAGAZINE .. 1 <br> d) MOBILE PHONE .............. 1 <br> e) FACEBOOK/TWITTER/ <br> INSTAGRAM <br> f) POSTER/LEAFLET/ <br> BROCHURE .............. 1 <br> g) OUTDOOR SIGN/BILLBOARD .. 1 <br> h) COMMUNITY MEETINGS/ EVENTS . . . . . . . . . . . . . . . . . . 1 | $\begin{array}{r} \text { NO } \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array}$ |  |
| 303 | In the last few months, have you discussed family planning with a health worker or health professional? | YES <br> NO |  |  |
| 304 | Now I would like to ask you about a woman's risk of pregnancy. From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant when she has sexual relations? | YES <br> NO <br> DON'T KNOW |  | $\rightarrow 306$ |
| 305 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD BEGINS DURING HER PERIOD <br> RIGHT AFTER HER PERIOD HAS ENDED HALFWAY BETWEEN TWO PERIODS <br> OTHER $\qquad$ | $\begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ \\ -\quad 6 \end{array}$ |  |
| 306 | After the birth of a child, can a woman become pregnant before her menstrual period has returned? | YES <br> NO <br> DON'T KNOW | 1 2 8 |  |
| 307 | I will now read you some statements about contraception. Please tell me if you agree or disagree with each one. <br> a) Contraception is a woman's concern and a man should not have to worry about it. <br> b) Women who use contraception may become promiscuous. | DIS- <br> AGREE AGREE <br> a) CONTRACEPTION <br> WOMAN'S CONCERN 1 $2$ <br> b) WOMEN MAY BECOME PROMISCUOUS | DK <br> 8 <br> 8 |  |

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY


SECTION 4. MARRIAGE AND SEXUAL ACTIVITY


SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 420 | What was the brand name of the condom used? <br> IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE. |  |  |
| 421 | From where did you obtain the condom the last time? <br> PROBE TO IDENTIFY TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. |  |  |
| 422 | What was your relationship to this person with whom you had sexual intercourse? <br> IF GIRLFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD ' 3 '. | WIFE .............................................. . . 1 <br> LIVE-IN PARTNER . . . . . . . . . . . . . . . . . . . . . . . 2 <br> GIRLFRIEND NOT LIVING WITH <br> RESPONDENT ............................. . 3 <br> CASUAL ACQUAINTANCE ................... 4 <br> CLIENT/SEX WORKER ........................ 5 <br> OTHER $\qquad$ |  |
| 423 | Apart from this person, have you had sexual intercourse with any other person in the last 12 months? |  | $\longrightarrow 429$ |
| 424 | The last time you had sexual intercourse with this second person, was a condom used? |  |  |

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 425 | What was your relationship to this second person with whom you had sexual intercourse? <br> IF GIRLFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD ' 3 '. |  |  |
| 426 | Apart from these two people, have you had sexual intercourse with any other person in the last 12 months? |  | $\rightarrow 429$ |
| 427 | The last time you had sexual intercourse with this third person, was a condom used? |  |  |
| 428 | What was your relationship to this third person with whom you had sexual intercourse? <br> IF GIRLFRIEND: Were you living together as if married? <br> IF YES, RECORD '2'. <br> IF NO, RECORD '3'. |  |  |
| 429 | In total, with how many different people have you had sexual intercourse in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'. | NUMBER OF PARTNERS IN LIFETIME $\qquad$ $\square$ <br> DON'T KNOW |  |

SECTION 5. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501 | CHECK 401: <br> CURRENTLY MARRIED OR NOT CURRE LIVING WITH A PARTNER | LY MARRIED $\square$ NOT LIVING A PARTNER | $\rightarrow 514$ |
| 502 | CHECK 418: <br> MAN NOT STERILIZED OR QUESTION NOT ASKED | MAN <br> STERILIZED | $\rightarrow 514$ |
| 503 | CHECK 407: <br> ONE WIFE/ PARTNER | MORE THAN $\square$ ONE WIFE/ PARTNER | $\rightarrow 509$ |
| 504 | Is your (wife/partner) currently pregnant? | YES | $\begin{array}{l\|l} 1 \\ 2 & \\ 8 & \rightarrow \\ \hline \end{array}$ |
| 505 | Now I have some questions about the future. After the child you and your (wife/partner) are expecting now, would you like to have another child, or would you prefer not to have any more children? | HAVE ANOTHER CHILD NO MORE UNDECIDED/DON'T KNOW |  |
| 506 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? |  | $\prod_{\rightarrow 514}$ |
| 507 | CHECK 208: <br> HAS NOT <br> HAS FATHERED FATHERED $\square$ CHILDREN CHILDREN <br> a) Now I have some <br> b) Now I have some questions about the questions about the future. Would you like future. Would you like to have another child, to have a child, or or would you prefer would you prefer not not to have any more to have any children? children? | HAVE (A/ANOTHER) CHILD <br> NO MORE/NONE <br> SAYS COUPLE CAN'T GET PREGNAN <br> WIFE/PARTNER STERILIZED <br> RESPONDENT STERILIZED <br> UNDECIDED/DON'T KNOW | ( $\left.\begin{array}{l}2 \\ 3 \\ 4 \\ 5\end{array}\right] \rightarrow 514$ |
| 508 | CHECK 208: <br> HAS FATHERED CHILDREN <br> a) How long would you <br> b) How long would you like to wait from now like to wait from now before the birth of before the birth of a another child? child? |  | $\prod^{\square}$ |
| $509$ <br> (1) | Are any of your (wives/partners) currently pregnant? | YES <br> NO <br> DON'T KNOW |  |

SECTION 5. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 510 | Now I have some questions about the future. After the child you and your (wife/partner) are expecting now, would you like to have another child, or would you prefer not to have any more children? | HAVE ANOTHER CHILD . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> NO MORE ......... 8 <br> UNDECIDED/DON'T KNOW . . . . . . . . . . . 8 | $\rightarrow 514$ |
| 511 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? |  |  |
| 512 | CHECK 208: <br> HAS FATHERED CHILDREN <br> a) Now I have some questions about the future. Would you like to have another child, or would you prefer not to have any more children? <br> HAS NOT FATHERED $\square$ <br> b) Now I have some questions about the future. Would you like to have a child, or would you prefer not to have any children? |  | $\xrightarrow{\rightarrow} 514$ |
| 513 | CHECK 208: <br> HAS FATHERED CHILDREN <br> a) How long would you like to wait from now before the birth of another child? <br> HAS NOT FATHERED CHILDREN <br> b) How long would you like to wait from now before the birth of a child? |  |  |
| 514 | CHECK 203 AND 205: <br> HAS LIVING CHILDREN $\downarrow$ <br> a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? <br> NO LIVING CHILDREN $\downarrow$ <br> b) If you could choose exactly the number of children to have in your whole life, how many would that be? <br> PROBE FOR A NUMERIC RESPONSE. | NONE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 00 <br> NUMBER. $\qquad$ $\square$ <br> OTHER $\qquad$ 96 (SPECIFY) | $\rightarrow 601$ |
| 515 | How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl? |  |  |

SECTION 6. EMPLOYMENT AND GENDER ROLES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 601 | Have you done any work in the last 7 days? |  | $\longrightarrow 604$ |
| 602 | Although you did not work in the last 7 days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason? |  | $\rightarrow 604$ |
| 603 | Have you done any work in the last 12 months? |  | $\rightarrow 607$ |
| 604 | What is your occupation? That is, what kind of work do you mainly do? | $\qquad$ |  |
| 605 | Do you usually work throughout the year, or do you work seasonally, or only once in a while? |  |  |
| 606 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 607 | CHECK 401: <br> CURRENTLY MARRIED OR $\square$ NOT LIVING WITH A PARTNER | RRENTLY MARRIED <br> AND $\square$ <br> WITH A PARTNER | $\rightarrow 612$ |
| 608 | CHECK 606: $\begin{aligned} & \text { CODE '1' OR '2' } \\ & \text { CIRCLED } \end{aligned}$ | OTHER | $\rightarrow 610$ |
| 609 | Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly? |  |  |
| 610 | Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else? |  |  |
| 611 | Who usually makes decisions about making major household purchases? | RESPONDENT . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> WIFE/PARTNER . . . . . 2 <br> RESPONDENT AND WIFE/PARTNER JOINTLY . 3 <br> SOMEONE ELSE . . . . . . . . . . . . . . . . . . . . . . . . . . . 4 <br> OTHER . . . . . . . . . . . . . . . . . 6 |  |

SECTION 6. EMPLOYMENT AND GENDER ROLES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 612 | Do you own this or any other house either alone or jointly with someone else? |  | $\longrightarrow 615$ |
| 613 | Do you have a title deed or other government recognized document for any house you own? |  | $\rightarrow 615$ |
| 614 | Is your name on this document? |  |  |
| 615 | Do you own any agricultural or non-agricultural land either alone or jointly with someone else? |  | $\rightarrow$ 617A |
| 616 | Do you have a title deed or other government recognized document for any land you own? |  | $\xrightarrow{\rightarrow} 617 \mathrm{~A}$ |
| 617 | Is your name on this document? |  |  |
| 617A | Do you have an account in a bank or other financial institution that you yourself use? |  | $\rightarrow$ 617C |
| 617B | Did you yourself put money in or take money out of this account in the last 12 months? |  |  |
| 617C | In the last 12 months, have you used a mobile phone to make financial transactions such as sending or receiving money, paying bills, purchasing goods or services, or receiving wages? | YES $\ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ 2 |  |
| 618 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <br> a) If she goes out without telling him? <br> b) If she neglects the children? <br> c) If she argues with him? <br> d) If she refuses to have sex with him? <br> e) If she burns the food? |  YES NO DK <br> a) GOES OUT $\ldots \ldots \ldots$ 1 2 8 <br> b) NEGLECTS CHILDREN 1 2 8 <br> c) ARGUES $\ldots \ldots \ldots \ldots$ 1 2 8 <br> d) REFUSES SEX $\ldots \ldots .$. 1 2 8 <br> e) BURNS FOOD $\ldots \ldots .$. 1 2 8 |  |
| 619 | As far as you know did your father ever beat your mother? |  |  |

SECTION 7. HIVIAIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 700 | Now I would like to talk about HIV and AIDS. |  |  |
| 701 | Have you ever heard of HIV or AIDS? |  | $\rightarrow 729$ |
| 702 | CHECK 111: AGE <br> 15-24 YEARS | 25 YEARS OR OLDER | $\rightarrow 708$ |
| 703 | HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners? |  |  |
| 704 | Can people get HIV from mosquito bites? |  |  |
| 705 | Can people reduce their chance of getting HIV by using a condom every time they have sex? |  |  |
| 706 | Can people get HIV by sharing food with a person who has HIV? |  |  |
| 707 | Is it possible for a healthy-looking person to have HIV? |  |  |
| 708 | Have you heard of ARVs, that is, antiretroviral medicines that treat HIV? |  |  |
| 709 | Are there any special medicines that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? |  |  |
| 710 | Have you heard of PrEP, a medicine taken daily that can prevent a person from getting HIV? | YES $\ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ 1 <br> NO $\quad 2$  | $\rightarrow 712$ |
| 711 | Do you approve of people who take a pill every day to prevent getting HIV? |  |  |
| 712 | CHECK FOR PRESENCE OF OTHERS. BEFORE PRIVACY. | INUING, MAKE EVERY EFFORT TO ENSURE |  |
| 713 | Have you ever been tested for HIV? |  | $\longrightarrow 721$ |
| 714 | In what month and year was your most recent HIV test? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 715 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE. |  |  |
| 716 | Did you get the results of the test? |  | $\rightarrow 720$ |
| 717 | What was the result of the test? |  | $\rightarrow 720$ |
| 718 | In what month and year did you receive your first HIV-positive test result? |  |  |

SECTION 7. HIVIAIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 719 | Are you currently taking ARVs, that is antiretroviral medicines? <br> By currently, I mean that you may have missed some doses but you are still taking ARVs. | YES <br> NO DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 720 | How many times have you been tested for HIV in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE, IF NUMBER OF TESTS IS 95 OR MORE, RECORD '95'. | NUMBER OF HIV TESTS |  |  |
| 721 | Have you heard of test kits people can use to test themselves for HIV? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 723$ |
| 722 | Have you ever tested yourself for HIV using a selftest kit? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 723 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? | ```YES NO DON'T KNOW/NOT SURE/DEPENDS``` | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 724 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV? | ```YES NO DON'T KNOW/NOT SURE/DEPENDS``` | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 725 | CHECK 717: $\begin{aligned} & \text { CODE '1' } \\ & \text { CIRCLED } \\ & \hline \end{aligned}$ | OTHER |  | $\rightarrow 729$ |
| 726 | Now I would like to ask you a few questions about your experiences living with HIV. <br> Have you disclosed your HIV status to anyone other than me? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 727 | Do you agree or disagree with the following statement: I have felt ashamed because of my HIV status. | AGREE DISAGREE | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 728 | Please tell me if the following things have happened to you, or if you think they have happened to you, because of your HIV status in the <br> a) People have talked badly about me because of my HIV status. <br> b) Someone else disclosed my HIV status without my permission. <br> c) I have been verbally insulted, harassed, or threatened because of my HIV status. <br> d) Healthcare workers talked badly about me because of my HIV status. <br> e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. | a) PEOPLE TALK BADLY <br> b) DISCLOSED STATUS <br> c) VERBALLY INSULTED <br> d) HEALTHCARE WORKERS TALKED BADLY <br> e) HEALTHCARE WORKERS VERBALLY ABUSED | NO <br> 2 <br> 2 <br> 2 <br> 2 <br> 2 |  |
| 729 | CHECK 701: <br> HEARD ABOUT HIV OR AIDS <br> a) Apart from HIV, have you heard about other infections that can be transmitted through sexual <br> NOT HEARD ABOUT HIV OR AIDS $\downarrow$ <br> b) Have you heard about infections that can be transmitted through sexual contact? | YES <br> NO |  |  |

SECTION 7. HIVIAIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 730 | CHECK 414: <br> HAS HAD SEXUAL INTERCOURSE | EVER HAD SEXUAL $\square$ INTERCOURSE | $\rightarrow 735$ |
| 731 | CHECK 729: HEARD ABOUT OTHER SEXUALLY TR <br> YES | SMITTED INFECTIONS? <br> No $\square$ | $\rightarrow 733$ |
| 732 | Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact? |  |  |
| 733 | Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis? |  |  |
| 734 | Sometimes men have a sore or ulcer on or near their penis. During the last 12 months, have you had a sore or ulcer on or near your penis? |  |  |
| 735 | If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex? |  |  |
| 736 | Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women? |  |  |

SECTION 8. OTHER HEALTH ISSUES


SECTION 8. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CAT | RIES | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 810 | On average, how many of the following products do you currently smoke each week? Also, let me know if you use the product, but not every week. <br> IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD ' 000 '. <br> a) Manufactured cigarettes? <br> b) Hand-rolled cigarettes? <br> c) Kreteks? <br> d) Pipes full of tobacco? <br> e) Cigars, cheroots, or cigarillos? <br> f) Water/ chicha sessions? <br> g) Any others? | a) MANUFACTURED CIGARETTES <br> b) HAND-ROLLED CIGARETTES <br> c) KRETEKS $\qquad$ <br> d) PIPES FULL OF TOBACCO <br> e) CIGARS, CHEROOTS, OR CIGARILLOS <br> f) WATER/SHISHA SESSIONS <br> g) OTHERS $\qquad$ | NUMBER WEEKLY |  |
| 811 | Do you currently use smokeless tobacco every day, some days, or not at all? | EVERY DAY SOME DAYS NOT AT ALL | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{array}{\|l} \longrightarrow \\ \longrightarrow \\ \hline \end{array} 813$ |
| 812 | On average, how many times a day do you use the following products? Also, let me know if you use the product, but not every day. <br> IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'. <br> a) Snuff, by mouth? <br> b) Snuff, by nose? <br> c) Chewing tobacco? <br> d) Betel quid with tobacco? <br> e) Any others? | a) SNUFF, BY MOUTH <br> b) SNUFF, BY NOSE <br> c) CHEWING TOBACCO <br> d) BETEL QUID WITH TOBACCO <br> e) ANY OTHERS | TIMES DAILY | $\rightarrow$ 为 |

SECTION 8. OTHER HEALTH ISSUES


SECTION 8. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 820 | Why have you not registered with the National Health Insurance Scheme (NHIS)? <br> RECORD ALL MENTIONED. |  | $\longrightarrow_{824}$ |
| 821 | What is the reason for dropping out of National Health Insurance Scheme? |  |  |
| 822 | Do you hold a valid National Health Insurance Scheme (NHIS) card? |  | $\rightarrow 824$ |
| 823 | Why do you not have a valid National Health Insurance Scheme (NHIS) card? <br> RECORD ALL MENTIONED. |  |  |
| 824 | In the last 6 months, how many times have you visited any healthcare provider or a health care facility for your own health? <br> IF NONE RECORD '00' | NUMBER OF TIMES $\square$ | $\rightarrow$ 827A |
| 824A | CHECK 820: <br> NOT ASKED | ASKED | $\rightarrow 827 \mathrm{~A}$ |
| 824B | CHECK 823: <br> NOT ASKED | ASKED | $\rightarrow 827 \mathrm{~A}$ |

SECTION 8. OTHER HEALTH ISSUES


INTERVIEWER'S OBSERVATIONS
TO BE FILLED IN AFTER COMPLETING INTERVIEW
COMMENTS ABOUT INTERVIEW:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

COMMENTS ON SPECIFIC QUESTIONS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

ANY OTHER COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

SUPERVISOR'S OBSERVATIONS
$\qquad$

GHANA
GHANA STATISTICAL SERVICE





|  | CHILD 1 | SKIP |
| :---: | :---: | :---: |
| 122 | IF CONSENT GRANTED, PREPARE EQUIPMENT AND SUPPLIES FOR THE TESTS AND PROCEED WITH THE TESTS. |  |
| 123 | PLACE 1ST BAR CODE LABEL FOR MALARIA LAB TEST IN SPACE TO THE RIGHT. PUT THE 2ND BAR CODE LABEL ON THE SLIDE AND THE 3RD ON THE TRANSMITTAL FORM. <br> PUT THE 1ST BAR CODE LABEL HERE. <br> NOT PRESENT ......... 99994 <br> REFUSED $\qquad$ 99995 99996 <br> 99996 |  |
| 124 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET. $\square$ $\square$ <br> NOT PRESENT $\qquad$ .994 .995 <br> OTHER . 996  |  |
| 125 |  | $\begin{aligned} & \rightarrow 137 \\ & \rightarrow 139 \\ & \rightarrow 137 \end{aligned}$ |
| 126 | Does (NAME) suffer from any of the following illnesses or symptoms: <br> a) Extreme weakness? <br> b) Heart problems? <br> c) Loss of consciousness? <br> d) Rapid or difficult breathing? <br> e) Seizures? <br> f) Abnormal bleeding? <br> g) Jaundice or yellow skin? <br> h) Dark urine? <br> a) EXTREME <br> WEAKNESS ...... 1 2 <br> b) HEART PROBLEMS . 12 <br> c) LOSS OF CONSCIOUS 12 <br> d) RAPID BREATHING . 12 <br> e) SEIZURES ......... 12 <br> f) BLEEDING ......... 1 <br> g) JAUNDICE ......... 12 <br> h) DARK URINE ...... 1 |  |
| 127 |  | 129 |
| 128 | CHECK 124: HEMOGLOBIN RESULTBELOW $8.0 \mathrm{G} / \mathrm{DL}$,SEVERE ANEMIA$\ldots \ldots$8.0 G/DL OR ABOVE $\ldots$ 1 <br> OTHER $\ldots \ldots$ 2  | $130$ |
| 129 | SEVERE MALARIA REFERAL <br> The malaria test shows that (NAME OF CHILD) has malaria. Your child also has symptoms of severe malaria. The malaria treatment I have will not help your child, and I cannot give you the medication. Your child is very ill and must be taken to a health facility right away. <br> RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM. | $\rightarrow 137$ |
| 130 | In the past two weeks has (NAME) taken or is taking ACT given by a doctor or health center to treat the malaria? <br> VERIFY BY ASKING TO SEE TREATMENT. <br> YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ | $\longrightarrow 132$ |
| 131 | ALREADY TAKING ACT REFERRAL STATEMENT <br> You have told me that (NAME OF CHILD) had already received ACT for malaria. Therefore, I cannot give you additional ACT. However, the test shows that he/she has malaria. If your child has a fever for two days after the last dose of ACT, you should take the child to the nearest health facility for further examination. | $\rightarrow 139$ |


| 132 | ASK CONSENT FOR MALARIA TREATMENT FROM PARENT/RESPONSIBLE ADULT: <br> The malaria test shows that your child has malaria. We can give you free medicine. The medicine is called ACT. ACT is very effective and in a few days it should get rid of the fever and other symptoms. You do not have to give the child the medicine. This is up to you. Please tell me whether you accept the medicine or not. |
| :---: | :---: |
| 133 | CIRCLE THE APPROPRIATE CODE. |
| 134 | SIGN NAME AND ENTER BIOMARKER TECH NUMBER. |
|  | CHILD 1 |
| 135 | CHECK 133: ACCEPTED MEDICINE? <br> YES |
| 136 | TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) <br> TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD ACCORDING TO THE TREATMENT PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. <br> Weight (in kg)-Approximate age <br> $<15 \mathrm{~kg}$ (6months-2years) <br> $15-25 \mathrm{~kg}$ (3-4years) <br> Dosage (AL $20 \mathrm{mg} / 120 \mathrm{mg}$ ) <br> DAY 1: 1 tablet AL for a start and 1 tablet AL after 8hrs. <br> DAYS 2 \& $3: 1$ tablet AL in the morning and 1 tablet AL in the evening. <br> DAY 1: 2 tablets AL for a start and 2 tablets AL after 8hrs. <br> DAYS 2 \& $3: 2$ tablets $A L$ in the morning and 2 tablets $A L$ in the evening. <br> Give the medicine with fatty food or drinks like milk or breast milk. Put the tablet in a little water, dissolve it well and give it to the child. If your child vomits within an hour of taking the medicine, repeat the dose and get additional tablets <br> TELL PARENT/RESPONSIBLE ADULT: IF (NAME OF CHILD) has a high fever, fast or difficulty breathing, is not able to drink or breastfeed, gets sicker, or does not get better in two days, you should take him or her to a health professional for treatment right away. |
| 137 | CHECK 124: HEMOGLOBIN RESULT <br> BELOW 8.0 G/DL, <br> SEVERE ANEMIA ....... 1 <br> 8.0 G/DL OR ABOVE ....... 2 <br> OTHER . . . . . . . . . . . . . . . . . . . 6 |
| 138 | SEVERE ANEMIA REFERAL <br> The anemia test shows that (NAME OF CHILD) has severe anemia. Your child is very ill and must be taken to a health facility immediately. <br> RECORD THE RESULT OF THE ANEMIA TEST ON THE REFERRAL FORM. |
| 139 | IF ANOTHER CHILD, GO TO 103 ON THE NEXT PAGE; IF NO MORE CHILDREN, GO TO 201. |

WEIGHT, HEIGHT, HEMOGLOBIN MEASUREMENT, AND MALARIA TESTING FOR CHILDREN AGE 0-4

| 101 | CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS". RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN AGE 0-5 YEARS IN QUESTION 102 ON THIS PAGE AND SUBSEQUENT PAGES STARTING WITH THE FIRST ONE LISTED. IF MORE THAN THREE CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). |  |
| :---: | :---: | :---: |
|  | CHILD 2 |  |
| 102 | CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF CHILD. | NAME $\qquad$ <br> LINE NUMBER |
| 103 | IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM PREGNANCY HISTORY. <br> IF MOTHER NOT INTERVIEWED ASK: <br> What is (NAME)'s date of birth? | DAY <br> MONTH <br> YEAR |
| 104 | IF MOTHER INTERVIEWED: COPY CHILD'S AGE FROM PREGNANCY HISTORY. <br> IF MOTHER NOT INTERVIEWED ASK: <br> How old was (NAME) at (NAME)'s last birthday? <br> COMPARE AND CORRECT 103 AND/OR 104 IF INCONSISTENT. | AGE IN COMPL |
| 105 | CHECK 104: CHILD AGE 0-4 YEARS? <br> YES $\square$ NO |  |
| 106 | WEIGHT IN KILOGRAMS. | KG. <br> NOT PRESENT REFUSED OTHER |
| 107 | WAS THE CHILD MINIMALLY DRESSED? | YES <br> NO |
| 108 | HEIGHT IN CENTIMETERS. <br> IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. <br> IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP. | CM. <br> NOT PRESENT REFUSED OTHER |
| 109 | WAS THE CHILD MEASURED LYING DOWN OR STANDING UP? | LYING DOWN STANDING UP |
| 110 | CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT PROCEDURE FOLLOWED? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |
| 111 | IF CHILD IS AGE 0-1 YEARS: WHY WAS (NAME) MEASURED STANDING UP? IF CHILD IS AGE 2-4 YEARS: WHY WAS (NAME) MEASURED LYING DOWN? |  |





| 101 | CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS". RECORD THE LINE NUMBER AND NAME FOR ALL |
| :--- | :--- |
|  | ELIGIBLE CHILDREN AGE O-5 YEARS IN QUESTION 102 ON THIS PAGE AND SUBSEQUENT PAGES STARTING WITH THE |
| FIRST ONE LISTED. IF MORE THAN THREE CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S). |  |


|  | CHILD 3 |  | SKIP |
| :---: | :---: | :---: | :---: |
| 102 | CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF CHILD. | NAME |  |
|  |  | LINE NUMBER |  |




| $124$ | RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET. |  |
| :---: | :---: | :---: |
| 125 | RECORD THE RESULT OF THE MALARIA RDT HERE AND THE INFORMATIONAL PAMPHLET. |  |
| 126 | Does (NAME) suffer from any of the following illnesses or symptoms: <br> a) Extreme weakness? <br> b) Heart problems? <br> c) Loss of consciousness? <br> d) Rapid or difficult breathing? <br> e) Seizures? <br> f) Abnormal bleeding? <br> g) Jaundice or yellow skin? <br> h) Dark urine? |  |
| 127 | CHECK 126: ANY 'YES' CIRCLED? |  |
| 128 | CHECK 124: HEMOGLOBIN RESULT | $\begin{aligned} & \text { BELOW } 8.0 \text { G/DL, } \\ & \text { SEVERE ANEMIA } \end{aligned} \ldots . . .$ |








| \# 225 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET. |  |  |
| :---: | :---: | :---: | :---: |
| 226 | CHECK 225: HEMOGLOBIN RESULT | BELOW $8.0 \mathrm{G} / \mathrm{DL}$, <br> SEVERE ANEMIA ...... 1 <br> 8.0 G/DL OR ABOVE ....... 2 | $\longrightarrow 228$ |
| 227 | The anemia test shows that you have severe anemia. You are very ill and must go to a health facility immediately. <br> RECORD THE RESULT OF THE ANEMIA TEST ON THE SEVERE ANEMIA REFERRAL FORM. |  |  |
| 228 | IF ANOTHER WOMAN, GO TO 202 ON THE NEXT PAGE; IF NO MORE WOMEN, GO TO 301. |  |  |


| 201 | CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS" . RECORD THE LINE NUMBER, NAME, AGE, AND MARITAL STATUS FOR ALL ELIGIBLE WOMEN IN 202, 203, AND 204 ON THIS PAGE AND SUBSEQUENT PAGES STARTING WITH THE FIRST ONE LISTED. IF MORE THAN TWO WOMEN, USE ADDITIONAL QUESTIONNAIRE(S). |  |  |
| :---: | :---: | :---: | :---: |
|  | WOMAN 2 |  | SKIP |
| 202 | CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF WOMAN. | NAME $\qquad$ <br> LINE NUMBER |  |
| 203 | CHECK CAPI OUTPUT FOR AGE: <br> CHECK COLUMN 7 IN HOUSEHOLD QUESTIONNAIRE (AGE). | 15-17 YEARS 18-49 YEARS |  |
| 204 | CHECK CAPI OUTPUT FOR MARITAL STATUS: <br> CHECK COLUMN 8 IN HOUSEHOLD QUESTIONNAIRE (MARITAL STATUS). | CODE 4 (NEVER OTHER |  |
| 205 | WEIGHT IN KILOGRAMS. | KG. <br> NOT PRESENT REFUSED. OTHER | $\xrightarrow{\longrightarrow} 207$ |
| 206 | WAS THE WOMAN WEARING ONLY LIGHTWEIGHT CLOTHING? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |
| 207 | HEIGHT IN CENTIMETERS. | CM. $\square$ <br> NOT PRESENT REFUSED. $\qquad$ OTHER $\qquad$ | $\longrightarrow 209$ |
| 208 | WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |
| 209 | ENTER BIOMARKER TECH NUMBER OF MEASURER. |  |  |
| 210 | ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER. <br> IF NO ASSISTANT MEASURER, ENTER 9999. |  |  |
| 211 | TODAY'S DATE: | DAY <br> MONTH <br> YEAR |  |
| 212 | AGE $15-17$  <br> CHECK 203:  <br>   <br>  $\square$AGE $18-49$ <br> YEARS |  | $\rightarrow 214$ |
| 213 | CHECK 204: OTHER $\square$ CODE 4 (NEVER IN UNION) |  | $\longrightarrow 217$ |





## MINOR RESPONDENT ASSENT FOR ANEMIA TEST

| M <br>  <br> 1 <br> $N$ <br> $O$ <br> $R$ <br> $R$ <br>  <br> $R$ <br> $R$ <br> $E$ <br> $S$ | 222 | ASK ASSENT FOR ANEMIA TEST FROM MINOR RESPONDENT: <br> As part of this survey, we are asking people all over the country to take an ane that usually results from poor nutrition, infection, or chronic disease. This survey programs to prevent and treat anemia. <br> For the anemia testing, we will need a few drops of blood from a finger. The eq completely safe. It has never been used before and will be thrown away after w anemia immediately, and the result will be told to you and (NAME OF PARENT result will be kept strictly confidential and will not be shared with anyone other <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you take the anemia test? | Anemia is a serious health problem ist the government to develop <br> used to take the blood is clean and our blood. The blood will be tested for NSIBLE ADULT) right away. The bers of our survey team. |  |
| :---: | :---: | :---: | :---: | :---: |
| T | 223 | CIRCLE THE CODE. | GRANTED $\ldots \ldots \ldots \ldots .$. MINOR RESPONDENT REFUSED $\ldots \ldots \ldots \ldots$ NOT PRESENT/OTHER $\ldots \ldots$ | $\longrightarrow 225$ |
| E N T | 224 | SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER. | (SIGN) |  |


| \# 225 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET. | G/DL <br> NOT PRESENT REFUSED OTHER | $\rightarrow 228$ |
| :---: | :---: | :---: | :---: |
| 226A | CHECK 225: HEMOGLOBIN RESULT | BELOW 8.0 G/DL, SEVERE ANEMIA 8.0 G/DL OR ABOVE | $\rightarrow 228$ |
| 227 | The anemia test shows that you have severe anemia. You are very ill and must go to a health facility immediately. <br> RECORD THE RESULT OF THE ANEMIA TEST ON THE SEVERE ANEMIA REFERRAL FORM. |  |  |
| 228 | IF ANOTHER WOMAN, GO TO 202 IN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN, GO TO 301. |  |  |




SUPERVISOR'S OBSERVATIONS


## INSTRUCTIONS

Information on all GDHS field workers is collected as part of the GDHS survey. Please fill out the questions below. The information you provide will be part of the survey data file; however, your name will be removed and will not be part of the data file. Thank you for providing the information needed.

| 102 | In what REGION do you live? | WESTERN <br> CENTRAL <br> GREATER ACCRA <br> VOLTA <br> EASTERN <br> ASHANTI <br> WESTERN NORTH <br> AHAFO <br> BONO <br> BONO EAST <br> OTI <br> NORTHERN <br> SAVANNAH <br> NORTH EAST <br> UPPER EAST <br> UPPER WEST | 01 <br> 02 <br> 03 <br> 04 <br> 05 <br> 06 <br> 07 <br> 08 <br> 09 <br> 10 <br> 11 <br> 12 <br> 13 <br> 14 <br> 15 <br> 16 |  |
| :---: | :---: | :---: | :---: | :---: |
| 103 | Do you live in a city, town, or rural area? | CITY <br> TOWN <br> RURAL | $\begin{array}{r} \\ \hline 1 \\ 2 \\ \\ \hline\end{array}$ |  |
| 104 | How old are you? <br> RECORD AGE IN COMPLETED YEARS. | AGE |  |  |
| 105 | Are you male or female? | MALE <br> FEMALE |  |  |
| 106 | What is your current marital status? | CURRENTLY MARRIED <br> LIVING WITH A MAN/WOMAN <br> WIDOWED <br> DIVORCED <br> SEPARATED <br> NEVER MARRIED OR LIVED <br> WITH A MAN/WOMAN | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |  |
| 107 | How many living children do you have? <br> INCLUDE ONLY CHILDREN WHO ARE YOUR BIOLOGICAL CHILDREN. | LIVING <br> CHILDREN |  |  |
| 108 | Have you ever had a child who died? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |
| 109 | What is the highest level of school you attended: primary, secondary, or higher? | PRMARY <br> MIDDLE <br> JSS/JHS <br> SECONDARY <br> SSS/SHS <br> HIGHER | 1 . . 3 4 4 5 6 |  |
| 110 | What is the highest [GRADE/FORM/YEAR] you completed at that level? <br> IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD ' 00 '. | [GRADE/FORM/YEAR] |  |  |
| 110A | Have you ever received clinical, medical, or laboratory training or worked in healthcare? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 111$ |
| 110B | What is your current occupational category or qualification? <br> For example, are you a registered nurse, doctor, or laboratory technician? | MEDICAL DOCTOR <br> ASSISTANT MEDICAL OFFICER CLINICAL OFFICER <br> ASSISTANT CLINICAL OFFICER REGISTERED NURSE/MIDWIFE ENROLLED NURSE/MIDWIFE NURSE ASSISTANT/ATTENDANT LABORATORY SCIENTIST LABORATORY TECHNOLOGIST LABORATORY TECHNICIAN LABORATORY ASSISTANT NO TECHNICAL QUALIFICATION OTHER | 01 02 03 04 05 06 07 08 09 10 11 95 96 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 111 | What is your religion? | CATHOLIC <br> ANGLICAN <br> METHODIST <br> PRESBYTERIAN <br> PENTECOSTAL/CHARISMATIC <br> OTHER CHRISTIAN <br> ISLAM <br> TRADITIONAL/SPIRITUALIST <br> NO RELIGION <br> OTHER | 01 <br> 02 <br> 03 <br> 04 <br> 05 <br> .06 <br> 07 <br> 08 <br> 95 <br> 96 |  |
| 112 | What is your ethnicity? | AKAN <br> GA/DANGME <br> EWE <br> GUAN <br> MOLE-DAGBANI <br> GRUSI <br> GURMA <br> MANDE <br> OTHER <br> (SPECIFY) | 01 <br> 02 <br> 03 <br> 04 <br> 05 <br> 06 <br> 07 <br> 08 <br> 96 |  |
| 113 | What languages can you speak? <br> RECORD ALL LANGUAGES YOU CAN SPEAK. | AKAN <br> GA/DANGME <br> EWE <br> DAGBANI <br> NZEMA <br> BRONG <br> OTHER <br> (SPECIFY) | $\begin{gathered} \mathrm{A} \\ \mathrm{~B} \\ \mathrm{C} \\ \mathrm{D} \\ \mathrm{E} \\ \mathrm{~F} \\ \mathrm{C} \end{gathered}$ |  |
| 114 | What is your mother tongue/native language (language spoken at home growing up)? | AKAN <br> GA/DANGME <br> EWE <br> DAGBANI <br> NZEMA <br> BRONG <br> OTHER <br> (SPECIFY) | 01 <br> 02 <br> 03 <br> 04 <br> 05 <br> 06 <br> 96 |  |
| 115 | Have you ever worked on: <br> a) a GDHS prior to this survey? <br> b) an GMIS prior to this survey? <br> c) any other survey prior to this survey? |  | $\begin{array}{r} \text { NO } \\ 2 \\ 2 \\ 2 \end{array}$ |  |
| 116 | Were you already working for the National Public Health Reference Laboratory (NPHRL) or the Ghana Statistical Service (GSS) at the time you were employed to work on this MIS? | YES, NPHRL <br> YES, GSS <br> NO | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\longrightarrow 118$ |
| 117 | Are you a permanent or temporary employee of the National Public Health Reference Laboratory (NPHRL) or the Ghana Statistical Service (GSS)? | PERMANENT <br> TEMPORARY |  |  |
| 118 | If you have comments, please write them here. |  |  |  |

## ADDITIONAL DHS PROGRAM RESOURCES

The DHS Program Website - Download free DHS
DHSprogram.com reports, standard documentation, key indicator data, and training tools, and view announcements.


STATcompiler - Build custom tables, graphs, and maps with data from 90 countries and thousands of indicators.

Statcompiler.com

DHS Program Mobile App - Access key DHS indicators for 90 countries on your mobile device (Apple, Android, or Windows).

Search DHS Program in your iTunes or Google Play store

DHS Program User Forum - Post questions about
userforum.DHSprogram.com DHS data and search our archive of FAQs.

Tutorial Videos - Watch interviews with experts and www.youtube.com/DHSProgram learn DHS basics, such as sampling and weighting, downloading datasets, and How to Read DHS Tables.


Datasets - Download DHS datasets for analysis.
DHSprogram.com/Data

Spatial Data Repository - Download geographically spatialdata.DHSprogram.com linked health and demographic data for mapping in a geographic information system (GIS).

Learning Hub - Access online courses for
Learning.DHSprogram.com independent learning and workshop participation, communities of practice, and other training resources.

GitHub - Open access to Stata, SPSS and R code for DHS indicators for public use.

Github.com/DHSprogram

Social Media - Follow The DHS Program and join the conversation. Stay up to date through:

## Twitter

www.twitter.com/ DHSprogram


Facebook
www.facebook.com/DHSprogram


Linkedln
www.linkedin.com/ company/dhs-program
Blog
Blog.DHSprogram.com

YouTube
www.youtube.com/DHSprogram




[^0]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
    NGO = nongovernmental organisation
    ${ }^{1}$ Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.
    2 Includes advice or treatment from the following sources: public sector, private medical sector, NGO medical sector, shop, market, and medicines peddler. Excludes advice or treatment from a traditional practitioner.
    ${ }^{3}$ Includes stoves/cookers using electricity, liquefied petroleum gas (LPG)/natural gas/biogas, solar, and alcohol/ethanol
    ${ }^{4}$ Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, animal dung/waste, processed biomass (pellets)
    or woodchips, garbage/plastic, and sawdust

[^1]:    ${ }^{1}$ The updated sampling frame was prepared by the GSS.

[^2]:    ${ }^{2}$ The pregnancy history provided information for calculation of infant and child mortality. It was also used to calculate fertility rates.

[^3]:    LPG = liquefied petroleum gas
    ${ }^{1}$ Includes stoves/cookers using electricity, LPG/natural gas/biogas, solar, and alcohol/ethanol

[^4]:    LPG = liquefied petroleum gas
    ${ }^{1}$ Includes central heating, electricity, LPG/natural gas/biogas, solar air heater, and alcohol/ethanol

[^5]:    ${ }^{1}$ The Gini coefficient indicates the level of concentration of wealth, with 0 representing an equal wealth distribution and 1 representing a totally unequal distribution.

[^6]:    Note: Table is based on de jure members, i.e., usual residents.

[^7]:    Note: Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ Completed grade 6 at the primary level
    ${ }^{2}$ Completed grade 6 at the secondary level
    $a=$ omitted because more than $50 \%$ of girls or women completed 0 years of education

[^8]:    Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
    ${ }^{1}$ Completed grade 6 at the primary level
    ${ }^{2}$ Completed grade 6 at the secondary level
    $a=$ omitted because more than $50 \%$ of boys completed 0 years of education

[^9]:    ${ }^{1}$ Completed 6 grade at the primary level
    ${ }^{2}$ Completed 6 grade at the secondary level
    a = Omitted because more than $50 \%$ of the women completed 0 years of education

[^10]:    ${ }^{1}$ Completed 6 grade at the primary level
    ${ }^{2}$ Completed 6 grade at the secondary level

[^11]:    ${ }^{1}$ Currently employed is defined as having done work in the last 7 days. Includes persons who did not work in the

[^12]:    ${ }^{1}$ Includes daily and occasional (less than daily) use
    ${ }^{2}$ Includes kreteks
    ${ }^{3}$ Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes

[^13]:    1 Includes daily and occasional (less than daily) use
    ${ }^{2}$ Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks
    ${ }^{3}$ Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes
    ${ }^{4}$ Occasional refers to less often than daily use.

[^14]:    Note: Respondents who are visitors in the household are excluded from this table. Respondents who stated that they were born outside of Ghana and that they have always lived in their current place of residence were not asked about the reason for migration and are excluded from the table. Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ Restricted to respondents who migrated within the last 5 years

[^15]:    ${ }^{1}$ Excludes women who had sexual intercourse within the last 4 weeks
    ${ }^{2}$ Excludes women who are not currently married

[^16]:    na $=$ not applicable

[^17]:    ${ }^{1}$ Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths in pregnancies lasting 7 or more months.
    ${ }^{2}$ Miscarriages are foetal deaths in pregnancies lasting less than 28 weeks. When pregnancy duration is reported in months, miscarriages are foetal deaths in pregnancies lasting less than 7 months.

[^18]:    ${ }^{1}$ The number of living children includes the current pregnancy for women.

[^19]:    ${ }^{1}$ Social media includes platforms such as Facebook, Twitter, and Instagram.

[^20]:    Note: Figures in parentheses are based on 250-499 children.
    ${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates
    ${ }^{2}$ Excludes first-order births

[^21]:    ${ }^{1}$ Includes newborns who received a check from a doctor, nurse/midwife/, traditional birth attendant, or community health worker/volunteer
    ${ }^{2}$ Includes newborns who received a check after the first week of life
    ${ }^{3}$ Birth order refers to the order of the birth among the respondent's live births.

[^22]:    ${ }^{1}$ Birth order refers to the order of the birth among the respondent's live births.

[^23]:    ${ }^{1}$ Vaccination card, booklet, or other home-based record
    ${ }^{2}$ Birth order refers to the order of the birth among the respondent's live births.

[^24]:     (tinned, powdered, or fresh animal milk; infant formula; yogurt; cheese); e. flesh foods (meat, fish, poultry, organ meats); f. eggs; g. vitamin A-rich fruits and vegetables; $;$. other fruits and vegetables. ${ }^{3}$ For breastfed children, minimum acceptable diet is receiving minimum dietary diversity (footnote 1) and minimum meal frequency (footnote 2).
    ${ }^{4}$ For nonbreastfed children, minimum milk feeding frequency is two or more feedings of infant formula; tinned, powdered, or fresh animal milk; and liquid or solid yogurt.
    ${ }^{6}$ For nonbreastfed children, minimum acceptable diet is receiving minimum dietary diversity (footnote 1), minimum milk feeding frequency (footnote 4), and minimum meal frequency (footnote 5 ).
     ${ }^{8}$ Minimum acceptable d
    nonbreastfed children).

[^25]:    ${ }^{1}$ Includes children born in the 2 years preceding the survey regardless of whether the children were living or dead at the time of the interview

[^26]:    na $=$ not applicable

[^27]:    Residence

[^28]:    ${ }^{1}$ Women were asked whether they received an HIV test during labour only if they gave birth in a health facility.
    ${ }^{2}$ Denominator for percentages includes women who did not receive antenatal care for their most recent birth in the last 2 years.

[^29]:    ${ }^{1}$ Knowledge about HIV prevention means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two major misconceptions about HIV transmission: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.

[^30]:    ${ }^{1}$ Knowledge about HIV prevention means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two major misconceptions about HIV transmission: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.

[^31]:    Note: Respondents may report multiple treatment methods, so the sum of treatment may exceed 100\%.
    ${ }^{1}$ Appropriate water treatment methods are boiling, bleaching, filtering, and solar disinfecting.

[^32]:    ${ }^{1}$ Reusable sanitary pads, disposable sanitary pads, tampons, menstrual cup, cloth, toilet paper, and/or cotton wool

[^33]:    ${ }^{1} \mathrm{https}: / / a \mathrm{apps}$.who.int/violence-info/intimate-partner-violence.

[^34]:    Continued.

[^35]:    ${ }^{1}$ Child's height in centimetres is missing, child was not present, child refused, and "other" result codes 2 Child's weight in kilograms is missing, child was not present, child refused, and "oth
    3 Incomplete date of birth; a complete date of birth is month/day/year or month/year.

[^36]:    ${ }^{1}$ Median absolute difference between measurers' first and second height measurements in centimetres

[^37]:    Continued..

