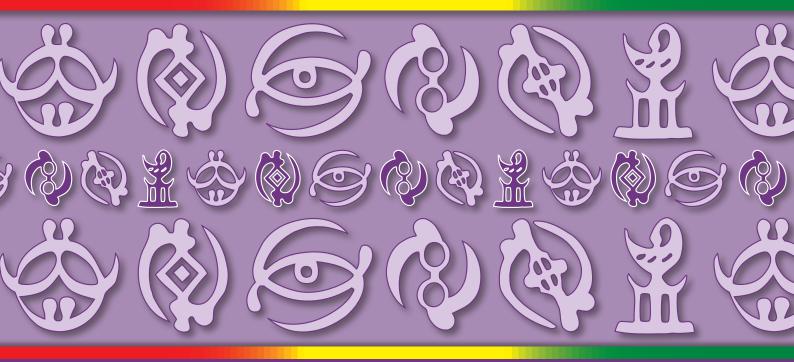
Ghana



Demographic and Health Survey

2022



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Ghana Statistical Service Accra, Ghana

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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.

Professor Samuel Kobina Annim

Government Statistician Ghana Statistical Service

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We appreciate the cooperation of all respondents during the data collection, the field officers who committed themselves to the collection of quality data, and other survey personnel whose contribution made the entire exercise a reality.

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

HepB 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

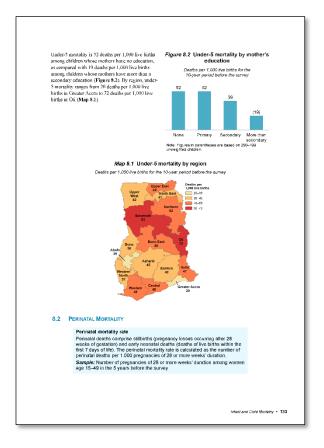
WHO World Health Organization

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

the 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 a Ghana DHS 2022	ge 15–49 who are	e exposed to spec	cific media on a w	eekly basis, accor	ding to background	d characteristics,
Background 3	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
A						
Age 15-19 20-24 25-29 30-34 35-39	5.0 3.8 3.8 3.9 2.2	61.9 60.4 66.8 65.7 62.7	34.7 38.5 41.1 44.7 47.4	1.9 1.7 2.3 2.5 1.4	29.1 28.0 23.8 24.5 25.7	2,682 2,695 2,340 2,252
40–44	2.2	52.7 59.0	47.4 48.9	1. 4 2.1	28.4	2,059 1,675
45–49	2.6	48.8	46.8	1.9	34.6	1,312
	2.0	70.0	-10.0	1.0	07.0	1,012
Residence	F 0	72.0	4E 2	2.0	10.1	0.557
Urban Rural	5.0 1.7	73.0 46.4	45.3 38.3	2.8 0.9	19.1 38.3	8,557 6,457
	1.7	40.4	30.3	0.9	30.3	0,437
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 Eastern	4.1 3.0	56.8 71.3	50.3 47.6	2.8 1.8	27.0 17.9	713 1,220
Ashanti	3.0 1.8	71.3 62.4	47.6 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 4	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?

.əlitninp

those with no education to a high of 14.0% among those with a secondary education or higher.

f) Yes. By wealth quintile, the percentage of women who watch television at least once a week increases as wealth increases: 15.5% of women in the highest wealth of women in the lowest wealth quintile watch television at least once a week, compared with 84.6% of women in the highest wealth

Northern.

e) Yes. By educational level, the percentage of women who read a newspaper at least once a week ranges from a low of 0.2% among

b) Women age 25–29: 66.8% of women in this age group watch television at least once a week.
 c) 5.0% of women in urban areas read a newspaper at least once a week, as compared with 1.7% of women in rural areas.
 d) The percentage of women who access none of the three media ranges from a low of 13.4% in Greater Accra to a high of 53.8% in

.%£.72 (в

Answers:

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

	Among children	n under age 5:	Among children	under age 5 with sy	mptoms of ARI:
	2			Percentage for	
	4		Percentage for	whom advice or	
Dealerraund	Percentage with	Number of	whom advice or	treatment was	Number of
Background characteristic	symptoms of ARI ¹	Number of children	treatment was sought ²	sought the same or next day ²	Number of children
	AIN	Cilidien	Sought	Of flext day	Cilidien
Age in months					
<6	1.4	850	*	*	12
6–11 12–23	1.6 2.8	868	64.6	20.0	14 50
12–23 24–35	2.6	1,823 1,546	61.6 64.4	28.2 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		ŕ			
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
Pagian					
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 Bono	3.4	186 277	*	*	6 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	^ 4	, î	2
Mother's education			·		
No education	3.6	1,922	60.2	22.5	69
Primary	2.6	1,250	(56.5) 44.6	(30.3)	33 74
Secondary More than secondary	1.7 0.7	4,348 794	*	16.0 *	74 5
-	0.7	, , ,			Ü
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	3 (2.2)	8,315	54.1	21.4	181
I					

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

Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

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.

Includes stoves/cookers using electricity, liquefied petroleum gas (LPG)/natural gas/biogas, solar, and alcohol/ethanol

Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, animal dung/waste, processed biomass (pellets) or woodchips, garbage/plastic, and sawdust

- **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 women from each region for analysis. To solve this

Table 3.1 Background characteristics of respondents								
Percent distribution of women age 15–49 by selected background characteristics, Ghana DHS 2022								
	Women							
Background characteristic	3Weighted percent	Weighted number	1Unweighted number					
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					

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

			Resi	dence		DHS table
Inc	dicator	-	Urban	Rural	Total	number
1	No po	vertv				
•	•	-				
	1.4.1	Proportion of population living in households with access to basic services a) Access to basic drinking water services	94.9	71.6	83.8	16.2
		b) Access to basic sanitation services	33.5	14.2	24.3	16.7
		c) Access to basic hygiene services	52.8	33.3	43.5	16.11
		d) Access to electricity ¹	94.6	68.1	82.0	2.3
		e) Access to clean fuels and technologies ²	37.8	7.9	23.6	2.4
		-	S	ex		_
2.	Zero l	nunger	Male	Female	Total	_
	2.2.1	Prevalence of stunting among children under 5 years of age	19.4	15.3	17.4	11.1
	2.2.2	Prevalence of malnutrition among children under 5 years of age	8.7	7.1	7.9	11.1
		a) Prevalence of wasting among children under 5 years of age	6.7	5.2	6.0	11.1
		b) Prevalence of overweight among children under 5 years of age	2.0	1.9	2.0	11.1
	2.2.3	Prevalence of anaemia in women age 15 to 49 years, by pregnancy status		40.4		=.
		a) Prevalence of anaemia in non-pregnant women age 15 to 49 years	na	40.4	na	11.17.1
		b) Prevalence of anaemia in pregnant women age 15 to 49 years	na	51.4	na	11.17.1
3.	Good	health and well-being				
	3.1.2	Proportion of births attended by skilled health personnel	na	na	87.6	9.9
		Under-5 mortality rate ³	43.0	36.0	40.0	8.1 and 8.
	3.2.2	Neonatal mortality rate ³	20.0	14.0	17.0	8.1 and 8.
	3.7.1	Proportion of women of reproductive age (aged 15–49 years) who have their				
		need for family planning satisfied with modern methods	na	49.5	na	7.15.2
	3.7.2	Adolescent birth rates per 1,000 women	na	na	na	- 1
		 a) Girls aged 10–14 years⁴ b) Women aged 15–19 years⁵ 	na	2.0 63.0	na na	5.1 5.1
	3 2 1	Age-standardized prevalence of current tobacco use among persons aged 15	na	03.0	IIa	5.1
	J.a. i	years and older ⁶	5.3	1.0	3.2a	3.12
	3.b.1	Proportion of the target population covered by all vaccines included in their				
		national programme				
		a) Coverage of DPT containing vaccine (3rd dose) ⁷	89.8	88.2	89.0	10.4
		b) Coverage of measles containing vaccine (2nd dose) ⁸	74.6	70.4	72.5	10.4
		c) Coverage of pneumococcal conjugate vaccine (last dose in schedule) ⁹	90.0	86.4	88.2	10.4
•		y education				
	4.2.1	Participation rate in organized learning (one year before the official primary	00.0	07.0	00.4	2.42
		entry age)	89.0	87.8	88.4	2.13
5.	Gend	er 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	na	9.8	no	17.13
		b) Sexual violence	na na	6.1	na na	17.13
		c) Psychological violence	na	25.5	na	17.13
	5.3.1	Proportion of women aged 20–24 years who were married or in a union before				
		age 15 and before age 18	na	na	na	
		a) before age 15	na	3.3	na	4.4
	4	b) before age 18	2.4	16.1	na	4.4
	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	na	51.7	na	15.12
						15.6.1 and
	5.b.1	Proportion of individuals who own a mobile telephone ¹³	87.5	79.6	83.6ª	15.6.2
			Resi	dence		
6.	Clean	water and sanitation	Urban	Rural	Total	
	6.1.1	Proportion of population using safely managed drinking water services				
	0.1.1	a) Proportion with basic drinking water services	94.9	71.6	83.8	16.2
		b) Proportion with water available when needed	80.2	81.7	80.9	16.4
	6.2.1	Proportion of population using (a) safely managed sanitation services and (b)	55.Z	01.7	50.5	10.7
		hand-washing facility with soap and water				
		a) Proportion using basic sanitation service	33.5	14.2	24.3	16.7
		b) Proportion in which excreta are safely disposed of in situ or treated off site	73.2	42.2	58.4	16.9
		c) Proportion using a hand-washing facility with soap and water	52.8	33.3	43.5	16.11
		d) Proportion using open defecation				

Continued...

Sustainable Development Goal Indicators—Continued				
	Sex			DHS table
7. Partnerships for the goals	Male	Female	Total	number
7.1.1 Proportion of individuals using the internet ¹⁴	61.6	43.3	54.5a	3.5.1 and 3.5.2

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
- The percentage of children age 12–23 months who received thre doses of meanscard vaccine

 The percentage of children age 12–23 months who received three doses of pneumococcal vaccine

 Data are available for women age 15–49 who have ever been in union only.

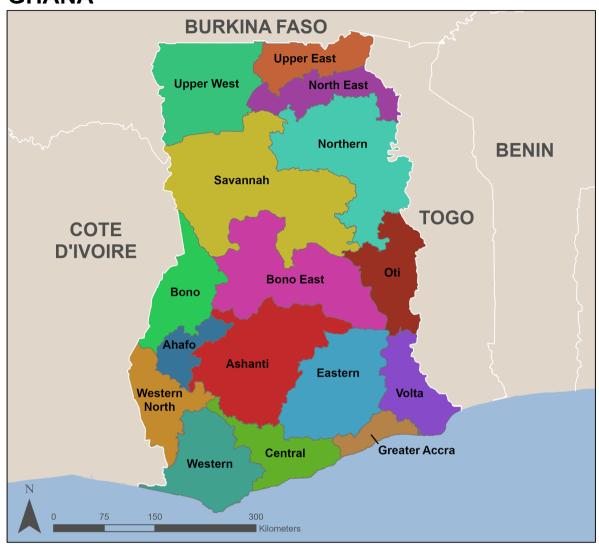
 In the DHS, psychological violence is termed emotional violence.

 Data are available for currently married women only.

 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.
 a The total is calculated as the simple arithmetic mean of the percentages in the columns for males and females.

GHANA



he 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. 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 The updated sampling frame was prepared by the GSS.

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 history²) 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.

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 The pregnancy history provided information for calculation of infant and child mortality. It was also used to calculate fertility rates.

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® 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® 201+ device. Results were provided verbally and in writing. Parents or guardians of children with a haemoglobin level below 8 g/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 g/dl.

Malaria: Children age 6–59 months were tested for malaria using Abbott Bioline, a rapid diagnostic test. Testing was performed using 5 μl 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® 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.

Table 1.1 Results of the household and individual interviews
Number of households, number of interviews, and response rates, according to residence (unweighted), Ghana DHS 2022

	Resid	_	
Result	Urban	Rural	Total
Household interviews Households selected Households occupied Households interviewed	9,120 8,869 8,795	9,420 9,196 9,138	18,540 18,065 17,933
Household response rate ¹	99.2	99.4	99.3
Interviews with women age 15–49 Number of eligible women Number of eligible women interviewed	7,502 7,362	7,815 7,652	15,317 15,014
Eligible women response rate ²	98.1	97.9	98.0
Household interviews in subsample Households selected Households occupied Households interviewed	4,560 4,442 4,400	4,709 4,595 4,568	9,269 9,037 8,968
Household response rate in subsample ¹	99.1	99.4	99.2
Interviews with men age 15–59 Number of eligible men Number of eligible men interviewed Eligible men response rate ²	3,369 3,251 96.5	3,894 3,793 97.4	7,263 7,044 97.0

Households interviewed/households occupied
 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.

nformation 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. Ninety-four 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

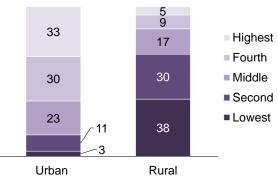
Households are given scores based on the number and kinds of consumer goods they own, ranging from a television to a bicycle or car, and housing characteristics such as source of drinking water, toilet facilities, and flooring materials. These scores are derived using principal component analysis. National 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).

Figure 2.1 Household wealth by residence

Percent distribution of de jure population by wealth quintiles



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

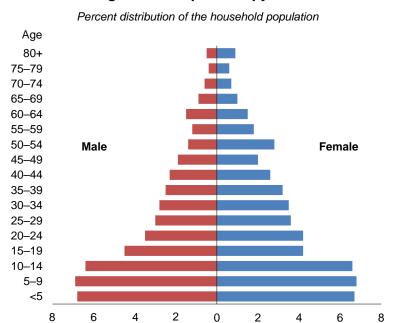
All persons who are usual residents of the selected households, whether or not they stayed in the household the night before the interview.

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

Figure 2.2 Population pyramid



2.4 CHILDREN'S LIVING ARRANGEMENTS AND PARENTAL SURVIVAL

Orphan

2.8).

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. Sixty-seven 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
•	Table 2.5	Household possessions
•	Table 2.6	Wealth quintiles
•	Table 2.7	Household population by age, sex, and residence
•	Table 2.8	Household composition
•	Table 2.9	Children's living arrangements and orphanhood
•	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
	Table 2.13	Participation rate in organised learning

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

		Households			Population	
Characteristic	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

		Households		Population			
Characteristic	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	
	100.0	100.0	100.0	100.0	100.0	100.0	
Main cooking technology	41.7	11.2	28.7	36.4	7.1	22.4	
Clean fuels and technologies							
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		***		***		***	
woodchips	0.0	0.0	0.0	0.0	0.0	0.0	
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	0.0 4.4	3.1	3.8	0.0 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	

LPG = liquefied petroleum gas ¹ Includes stoves/cookers using electricity, LPG/natural gas/biogas, solar, and alcohol/ethanol

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

		Households		Population			
Characteristic	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	0.0	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	0.0	0.0	0.0	0.0	0.1	0.0	
Traditional cookstove	0.1	1.8	1.1	0.1	2.3	1.6	
	0.6	0.2	0.2		0.2	0.3	
With a chimney				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	0.7	1.7	0.8	0.2	2.0	1.1	
	0.0	0.1	0.0	0.2	0.1	0.1	
Straw/shrubs/grass						0.0	
Agricultural crop	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 Battery-powered	1.5	7.1	3.9	1.3	7.4	4.2	
flashlight/torch/lantern	2.8	13.2	7.2	2.8	13.4	7.8	
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	0.0	0.1	0.0	0.1	0.0	0.1	
Oil lamp	0.1	0.0	0.1	0.1	0.0	0.1	
Candle	0.1	0.0	0.1	0.1	0.0	0.1	
Other fuel	0.0	0.1	0.0	0.0	0.1	0.0	
	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	

LPG = liquefied petroleum gas ¹ Includes central heating, electricity, LPG/natural gas/biogas, solar air heater, and alcohol/ethanol

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

¹ 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 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

	Resid		
Possession	Urban	Rural	Total
Household effects			
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			
Bicycle	15.9	25.9	20.2
Animal-drawn cart	0.3	1.4	0.7
Motorcycle/scooter	14.9	22.8	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

 $^{^{\}rm 1}$ 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

			Wealth quintile				Number of	
Residence/region	Lowest	Second	Middle	Fourth	Highest	Total	persons	Gini coefficient1
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

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.

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

-		Urban			Rural				
Age	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

	Resi	dence	
Characteristic	Urban	Rural	Total
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 7	6.5 3.6	9.4 6.3	7.8 4.7
, 8	3.0 1.8	6.3 4.0	2.8
6 9+	1.8	4.0 5.4	3.4
91	1.0	3.4	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	0.6	0.6	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

Percent distribution of de jure children under age 18 by living arrangements and survival status of parents, percentage of children not living with a biological parent, and percentage of children with one or both parents dead, according to background characteristics, Ghana DHS 2022

		Living with m	Living with mother but not with father	Living with fat with mo	with father but not with mother		Not livi	Not living with either parent	oarent					
Background characteristic	Living with both parents	Father alive	Father dead	Mother alive	Mother dead	Both alive	Only mother alive	Only father alive	Both dead	Missing information on father/ mother	Total	Percentage not living with a biolo- gical parent	Percentage with one or both parents dead¹	Number of children
Age	602	203	4	0	<u>, , , , , , , , , , , , , , , , , , , </u>	6.2	0	~	7	0	100 0	α	٠,	802
	62.0	34.3	5 -	9.0	. 0	1 .	0.0	0.0	- 0	0.0	100.0) o	1 -	3.443
42	59.0	25.9	- 6	2.83	0.1	ි ග	0.4	0.0	0.2	0.1	100.0	10.2	3.0	5.064
. 6–2	51.8	22.6	3.5	4. 4.	0.3	14.7		8.0	0	0.1	100.0	17.2	6.9	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	4.	17.7	3.9	1.7	6.0	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	9.0	13.8	4.	1.0	9.0	0.1	100.0	16.8	7.8	14,164
Rural	54.0	20.5	3.9	4.9	9.0	13.1	1.6	6.0	9.4	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	0.0	0.2	100.0	17.4	8.9	1,741
Central	38.5	32.7	4.0	4.2	0.5	16.5	7.5	7.5	0.5	0.1	100.0	20.0	8.0	3,187
Greater Accra	51.7	25.8	4. ω.	5.7	9.0	10.3	0.0	0.5	0.5	0.1	100.0	11.9	4.0 4.1	3,679
Volta	41.1	28.4	0.4	0.4	0.3	17.8	۲.۲	4.1.	4.0	0.4	100.0	21.7	χ. 	1,284
Eastern Achanti	39.6	29.3	ა, ∠ ∞ c	4.6	0.7	19.4 4.4	4. 6	/· 0	9.0	0	0.00	23.1	% o	2,286
Wostorn North	4.5.0 0.0	23.5	4. u	- u	0.0	4.0.	- c	o c	S 6	2.5	0.00	, o , o , o	0 P	2,7,0
Abafo	53.0	22.2	- K	5.5 4.4	0.0	0.0°	., L		0.0	. 5	0.00	16.0	e: 4	624 644
Bono	40.5	33.5	2.5	3.3	0.3	15.3	<u>.</u>	0.0	. 4.0	0.2	100.0	18.0	7.2	066
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
Ōŧį	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	929
Northern	77.2	0.9	3.2	4.2	6.0	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	£.3	0.3	0.1	100.0	13.9	7.4	804
North East	63.9	13.5	2.5	7.9	0.7	တ (ထ ၊	0.7	4.0 4.1	0.5	0.0	100.0	71.5	4. č	871
Upper East Hoper West	53.0 53.0	0.01 0.02	ر. د ر	c. 4	0. C	 	- c o a			0.0	0.00	15.0	د. د. ه	1,360
Wealth criintile	o i i	2	- ;	÷	į	i i	ì	<u>!</u>	;	i	2	2	9	3
Lowest	61.4	14.9	4.1	4.8	0.7	11.7	4.1	0.7	0.4	0.0	100.0	14.2	7.3	6,665
Second	46.9	25.3	2.0	4.2	9.0	14.0	2.0	1.2	9.0	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	9.4	0.2	100.0	19.6	8.2	5,729
Fourth	46.0	28.7	9.0 1.0	4.7	0.7	13.4	2.5	6.0	0.4 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	6.0	0.5	0.1	100.0	14.4	9.6	5,012
Total <15	52.1	24.2	3.6	4.2	0.4	12.8	1.2	8.0	0.4	0.1	100.0	15.3	6.5	25,475
Total <18	50.6	23.8	4.1	4.5	9.0	13.4	1.5	6.0	0.5	0.1	100.0	16.4	7.6	29,011

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

		nildren whose births ered and who:	Total percentage of children whose	
Background characteristic	Had a birth certificate	Did not have a birth certificate	births are registered	Number of children
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	50.0	45.0	05.0	0.040
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	а
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	12.7	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	44.9 41.4	10.6	4.0	35.2 38.7	1.8	3.3	0.2	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	а
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	а
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

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

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	а
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 guintile										
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

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

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 attend						ndance ratio ²	
Background				Gender parity				Gender parity
characteristic	Male	Female	Total	index ³	Male	Female	Total	index ³
			PRIMARY S	CHOOL				
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 Bono	79.0 86.7	76.3 84.2	77.7 85.4	0.97 0.97	99.6	101.4 114.6	100.5 113.9	1.02
Bono East	68.6	74.0	71.3	1.08	113.2 92.1	98.9	95.5	1.01 1.07
Oti	76.7	78.3	71.5 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 Foot	57.6	61.0	59.4	1.06	74.9	82.8	79.1	1.10
Bono East Oti	37.7 36.8	39.9 43.6	38.8 39.8	1.06 1.19	49.9 50.9	53.0 52.0	51.5 51.4	1.06 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 primary school is the NAR (GAR) for males.

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

	Pe	Percent distribution of children attending						
Background characteristic	An early childhood education programme	Primary school	Neither an early childhood education programme nor primary school	Total	Adjusted NAR ¹	Number of children age 5 at the beginning of the school year		
Sex								
Male Female	67.9 66.1	21.1 21.7	11.0 12.2	100.0 100.0	89.0 87.8	923 880		
Residence								
Urban Rural	72.6 61.9	23.0 20.0	4.4 18.1	100.0 100.0	95.6 81.9	861 942		
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.

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.

his 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 Mole-Dagbanis (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.

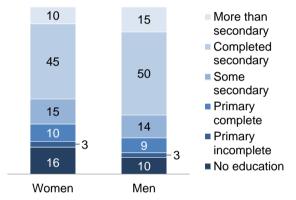
Sample: Women and men age 15-49

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**).

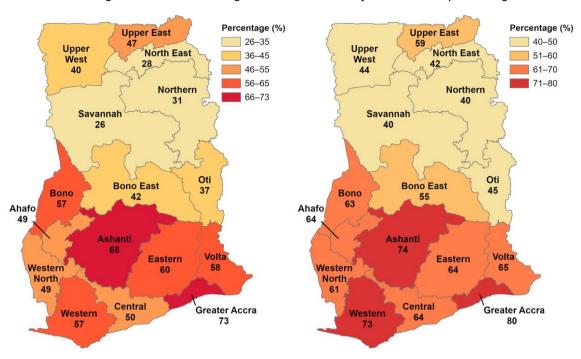
Figure 3.1 Education of survey respondents

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

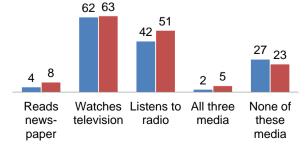
Respondents were asked if they have ever used the internet from any device. if they used the internet in the last 12 months, and, if so, how often they used it during the last month.

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



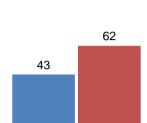
The internet is a critical tool through which information is shared. Internet use includes accessing web pages, email, and social media. Close to 5 in 10 women (47%) and about 6 out of 10 men (65%) have used the internet at least once, and 43% of women and 62% of men used it in the last 12 months. Among 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**).

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.

Figure 3.3 Internet usage by sex

Percentage of women and men age 15–49 who used the internet in the last 12 months

■ Men



■Women

3.4 EMPLOYMENT

Currently employed

Respondents who were employed in the 7 days before the survey.

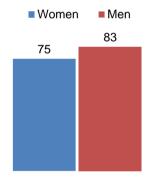
Sample: Women and men age 15-49

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



3.5 OCCUPATION

Occupation

Categorized as professional/technical/managerial, clerical, sales and services, skilled manual, unskilled manual, domestic service, agriculture, and other.

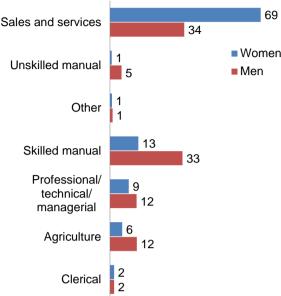
Sample: Women and men age 15–49 who were currently employed or had worked in the 12 months before the survey

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.

Figure 3.5 Occupation

Percentage of women and men age 15-49 employed in the 12 months before the survey by occupation



In addition, 61% of women are self-employed, 25% are employed by a non-family member, and 14% are employed by a family member. Most women (79%) 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

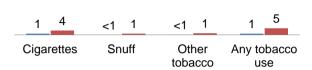
Smoking is a risk factor for cardiovascular diseases and multiple forms of cancer. It contributes to the severity of pneumonia, emphysema, and chronic bronchitis symptoms. Through secondhand smoke, tobacco use affects the health status of all household members.

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

Figure 3.6 Use of tobacco among women and men

Percentage of women and men age 15–49 who use tobacco products

■ Women ■ Men



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**).

LIST OF TABLES

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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

		Women			Men	
Background characteristic	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighte number
	регости	Humber	Hamber	percent	Humber	Hamber
Age 15–19	17.9	2,682	2,835	22.7	1,424	1,430
20–24	17.9	2,695		16.5	1,033	1,023
			2,669			
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	24.0	4.000	4.070	24.2	4.005	4 700
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 Bad	19.7	2,957	2,648	19.4	1,216	1,187
Very bad	3.0 0.4	451 63	480 73	3.1 0.3	192 18	222 21
-	0.4	00	70	0.0	10	2.1
Religion Catholic	9.1	1 267	1 660	0.1	E00	676
Catholic	0.8	1,367	1,669	8.1	508	676
Anglican		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
thnic group	40 .		= 0 :-	40 -		<u> </u>
Akan	46.1	6,917	5,217	46.0	2,887	2,146
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
larital 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
esidence						
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
egion						
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
ducation						
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
/ealth 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

			Highest leve	of schooling				Median	
Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	years completed	Number of women
Age					<u> </u>	· ·		•	
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	а	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	а	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

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

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

			Highest leve	l of schooling	J			Median	
Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	years completed	Number of men
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

¹ Completed 6 grade at the primary level ² Completed 6 grade at the secondary level

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

		No	schooling,	primary or se	condary sch	ool			
Background characteristic	Higher than secondary schooling	Can read a whole sentence	Can read part of a sentence	Cannot read at all	No card with required language	Blind/ visually impaired	Total	Percent- age literate ¹	Number of women
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	8.0	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

		No	schooling,	primary or se	condary sch	ool			
Background characteristic	Higher than secondary schooling	Can read a whole sentence	Can read part of a sentence	Cannot read at all	No card with required language	Blind/ visually impaired	Total	Percent- age literate ¹	Number of men
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
-			0.100 u 1100k		0.100 0 1.001	
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						
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

		Used the					b have used the internet in the last 12 months, o, in the last month, used the internet:			
Background characteristic	Ever used the internet	internet in the last	Number	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

		Used the				vho have use vho, in the las			
Background characteristic	Ever used the internet	internet in the last 12 months	Number	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

		the 12 months the survey	Not employed in the 12 months		
Background characteristic	Currently employed ¹	Not currently employed	preceding the survey	Total	Number of women
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/	04.0	0.4	12.0	100.0	0,200
widowed	88.9	4.0	7.1	100.0	1,542
	00.0	1.0		100.0	1,012
Number of living children	E2 0	2.6	40.4	100.0	4.005
0	53.9	3.6	42.4	100.0	4,925
1–2 3–4	78.9	4.4	16.7	100.0	4,598
	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

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 3.6.2 Employment status: Men

Percent distribution of men age 15–49 by employment status, according to background characteristics, Ghana DHS 2022

_		the 12 months the survey	Not employed in the 12 months		
Background characteristic	Currently employed ¹	Not currently employed	preceding the survey	Total	Number of men
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
	93.3	1.2	5.5	100.0	242
Number of living children	69.2	5.0	26.7	100.0	2 270
0 1–2	68.3	5.0 1.1	26.7 1.0	100.0	3,270
3–4	98.0 98.8	1.1 0.7	0.4	100.0 100.0	1,356 1,014
5 -4 5+	98.2	0.7	1.1	100.0	636
	30.2	0.7	1.1	100.0	000
Residence Urban	80.3	3.5	16.2	100.0	3,442
Rural	85.6	2.4	12.0	100.0	2,835
	55.5		.2.0		2,000
Region Western	73.5	4.6	21.9	100.0	414
Central	75.5 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

	Profes- sional/								
Background characteristic	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 Married or living	11.1	4.1	56.2	16.4	1.0	8.9	2.3	100.0	3,090
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	8.0	70.7	12.3	0.9	10.0	0.6	100.0	5,188
Region	0.0	4.0	60.2	117	4.4	4.4	0.0	100.0	757
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 10.5	1.3	70.6 72.4	13.7 14.4	0.3	2.7 0.4	1.0 0.3	100.0	560 919
Eastern		1.6			0.3			100.0	
Ashanti Western North	8.6 5.8	2.9 1.2	71.4 60.2	11.8 14.4	1.5 0.8	3.0 17.3	0.8 0.3	100.0 100.0	2,393 344
Ahafo	5.6 4.4	1.6	70.6	11.7	0.8	9.8	0.3 1.1	100.0	231
	9.7	2.3			0.9	9.6 7.6	3.1		444
Bono Bono East	9.7 6.2	2.3 2.4	63.5 60.6	13.2 11.9	0.5	7.6 18.5	0.4	100.0 100.0	503
Oti	6.2 4.7	0.6	81.9	7.9	0.0	4.5	0.4	100.0	340
Northern	4.7 6.5	0.6	62.9	13.0	0.0	4.5 15.7	0.4	100.0	898
Savannah	3.1	0.8	64.8	14.3	0.2	16.1	0.8	100.0	222
North East	2.3	0.8	77.4	12.6	0.7	6.5	0.2	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	0.1	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	8.0	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	8.0	1.8	8.0	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	8.0	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

	Profes- sional/								
Background	technical/		Sales and	Skilled	Unskilled				Number of
characteristic	managerial	Clerical	services	manual	manual	Agriculture	Other	Total	men
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	12.0	2.0	00.0	02.0	0.0	1 1.0	2.0	100.0	2,007
together	12.8	1.5	35.8	34.8	3.8	10.8	0.5	100.0	2,813
Divorced/separated/	12.0	1.0	00.0	01.0	0.0	10.0	0.0	100.0	2,010
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 characteristic	Agricultural work	Nonagricultural work	Total
Type of earnings			
Cash only	22.8	59.1	57.0
Cash and in-kind	19.0	20.2	20.1
In-kind only	24.9	4.6	5.8
Not paid	33.3	16.2	17.1
Total	100.0	100.0	100.0
Type of employer			
Employed by family member	55.9	11.7	14.2
Employed by non-family member	20.7	24.9	24.7
Self-employed	23.4	63.4	61.1
Total	100.0	100.0	100.0
Continuity of employment			
All year	49.5	81.1	79.3
Seasonal	31.2	14.3	15.2
Occasional	19.3	4.6	5.4
Total Number of women employed	100.0	100.0	100.0
during the last 12 months	661	11,081	11,741

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	Agricultural	Nonagricultural	T-4-1
characteristic	work	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			
All year	44.2	72.9	69.5
Seasonal	42.6	20.0	22.7
Occasional	13.2	7.1	7.9
Total Number of men employed during	100.0	100.0	100.0
the last 12 months	727	5,405	6,132

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 employer- based insurance	Mutual health organization/ community- based 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	0.0	0.2	0.1	13.1	86.9	2,411
Secondary	90.7	0.1	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
·	32.1	5.2	1.2	2.3	5.5	94.5	1,555
Wealth quintile	07.4	0.0	0.0	0.4	40.0	07.0	2.447
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	National/ district health	Other employer- based	Mutual health organization/ community- based	Privately purchased commercial		Any health	
characteristic	insurance	insurance	insurance	insurance	None	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	8.0	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

	Percentage who smoke:1								
Background characteristic	Cigarettes ²	Other type of tobacco ³	Any type of tobacco	Number of women					
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 North East	0.4 0.4	0.0 0.1	0.4 0.4	319 290					
Upper East	1.3	0.1	0.4 1.3	640					
Upper West	0.6	0.6	0.6	398					
• •	0.0	0.1	0.0	000					
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					

Includes daily and occasional (less than daily) use
 Includes kreteks
 Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes

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

	Perc	entage who sm	oke:1	S	moking frequer	псу		
Background characteristic	Cigarettes ²	Other type of tobacco ³	Any type of tobacco	Daily smoker	Occasional smoker ⁴	Nonsmoker	Total	Number of men
Age								
15–19	8.0	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
	5.3	1.4	6.4	4.0	2.5	93.5	100.0	725
Primary Secondary	3.0	1.3	3.9	1.7	2.3	96.0	100.0	3,990
More than secondary	3.0 1.5	1.1	1.9	0.9	2.3 1.2	98.0	100.0	935
Wealth quintile	1.0		1.0	0.0	1.2	00.0	100.0	000
Lowest	6.4	0.9	6.7	4.1	2.8	93.1	100.0	1,089
Second	3.5	0.9	4.0	2.4	2.6 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

 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.

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

		Number of respondents who smoke						
Background characteristic	<5	5–9	10–14	15–24	≥25	Don't know/ missing	Total	cigarettes daily ¹
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	0.0	0.0
Any type of smokeless tobacco ¹	0.1	1.2
Any type of tobacco ²	1.0	5.3
Number	15,014	6,277

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

	Won	nen	Men			
	Percentage		Percentage			
Background characteristic	using any type of tobacco	Number of women	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	4.5	2 444	0.6	600		
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	2,447 2,712	4.8	1,133		
Secona Middle			4.8 6.7			
	0.9	3,121		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

	Consumed					l any alcohol in quency of drin		Number of women who consumed
	any alcohol					Every		any alcohol
Background	in the last	Number of				day/almost		in the last
characteristic	month	women	1–5 days	6–10 days	11–24 days	every day ¹	Total	month
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

	Consumed		Among me	Number of men who consumed				
	any alcohol					Every		any alcohol
Background characteristic	in the last month	Number of men	1–5 days	6–10 davs	11–24 davs	day/almost every day ¹	Total	in the last month
A ma						, ,		
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 54
Oti Northern	28.9 19.3	187 484	77.2 74.6	8.5 10.9	7.0 4.6	7.3 9.9	100.0 100.0	93
Savannah	6.0	464 155	(59.6)	(5.7)	(1.6)	(33.0)	100.0	93
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

									Number of women who consumed any
-	Percent c	listribution of	usual numb	er of drinks o	consumed on	days wher	alcohol was c	onsumed	_ alcohol in
Background characteristic	<1	1	2	3	4	5	6 or more	Total	the last month
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	8.0	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 50.7	18.4	10.9	2.6	4.0	7.0	100.0	381
Western North	0.0 0.0	50.7 54.9	28.9 18.2	8.4 11.2	4.5 2.7	2.0 2.7	5.5 10.1	100.0 100.0	50 24
Ahafo Bono	0.0	63.1	18.9	8.7	3.7	0.7	5.0	100.0	24 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

	Percent distribution of usual number of drinks consumed on days when alcohol was consumed								
Background characteristic	<1	1	2	3	4	5	6 or more	Total	alcohol in the last month
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 Narthara	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 9
Savannah North East	(0.0) 0.0	(57.9) 16.9	(18.5) 8.7	(14.1) 9.6	(4.3) 2.8	(0.0) 4.5	(5.1) 57.4	100.0 100.0	22
Upper East	0.0	30.7	35.4	10.1	2.0 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

	Percent of	distribution by res	sidence and place		Among women who were born outside of their current place of residence		
Background characteristic	Always lived in current place of residence ¹	Born in Ghana but outside of current place of residence	Born outside of Ghana	Total	Number of women	Percentage who moved to current place of residence in the last 5 years	Number of women ²
Age							
15–19	49.4	49.1	1.5	100.0	2,668	48.8	1,350
20–24	36.6	61.4	2.0	100.0	2,671	56.6	1,695
25–29	28.4	69.2	2.4	100.0	2,314	51.5	1,657
30-34	23.9	72.6	3.5	100.0	2,232	40.2	1,700
35–39	24.2	73.3	2.5	100.0	2,047	26.6	1,552
40-44	27.5	70.9	1.7	100.0	1,672	21.7	1,213
45-49	28.1	70.7	1.3	100.0	1,308	17.1	941
Residence							
Urban	29.5	68.2	2.3	100.0	8,506	41.0	5,997
Rural	35.8	62.2	2.0	100.0	6,407	37.3	4,111
Region							
Western	28.0	68.4	3.6	100.0	944	39.5	679
Central	26.0	72.2	1.8	100.0	1,680	43.2	1,244
Greater Accra	22.0	74.8	3.1	100.0	2,324	42.6	1,813
Volta	32.7	61.6	5.7	100.0	709	41.4	478
Eastern	28.8	70.4	0.8	100.0	1,211	41.2	863
Ashanti	29.0	70.1	1.0	100.0	2,900	45.9	2,061
Western North	40.7	58.1	1.3	100.0	410	28.6	243
Ahafo	32.5	66.6	0.9	100.0	317	20.8	214
Bono	49.1	50.1	0.8	100.0	558	34.7	284
Bono East	36.9	61.2	2.0	100.0	671	35.5	424
Oti	30.3	63.7	6.0	100.0	402	38.1	280
Northern	38.2	59.8	2.0	100.0	1,147	18.8	709
Savannah	33.5	63.4	3.2	100.0	319	35.6	212
North East	65.2	33.3	1.5	100.0	289	36.9	101
Upper East	62.5	36.5	1.0	100.0	638	39.5	239
Upper West	32.7	63.9	3.4	100.0	394	40.3	265
Education							
No education	29.8	65.8	4.3	100.0	2,404	22.6	1,686
Primary	31.7	65.2	3.1	100.0	2,064	37.9	1,410
Secondary	34.5	64.0	1.6	100.0	8,925	43.4	5,848
More than secondary	23.5	75.3	1.1	100.0	1,520	46.3	1,163
Wealth quintile							
Lowest	40.2	57.5	2.3	100.0	2,431	29.8	1,455
Second	38.8	59.1	2.2	100.0	2,697	35.0	1,652
Middle	35.9	62.3	1.9	100.0	3,097	41.2	1,986
Fourth	28.2	69.5	2.3	100.0	3,355	43.0	2,408
Highest	21.8	76.0	2.2	100.0	3,333	43.3	2,608
Total	32.2	65.6	2.2	100.0	14,913	39.5	10,108

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

	Percent of	distribution by res	sidence and place		Among men who were born outside of their current place of residence		
Background characteristic	Always lived in current place of residence ¹	Born in Ghana but outside of current place of residence	Born outside of Ghana	Total	Number of men	Percentage who moved to current place of residence in the last 5 years	Number of men 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	50.0	07.4	4.0	400.0	007	04.7	000
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 More than secondary	48.7 35.3	50.1 64.0	1.1 0.6	100.0 100.0	3,976 934	35.0 40.4	2,039 604
Wealth quintile	33.3	00	0.0		00.		00.
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

		Number of				
Age	Urban to urban	Urban to rural	Rural to urban	Rural to rural	Total	respondents
			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

				Family reunification/ other family-				
Background characteristic	Employment	Education/ training	Marriage formation	related 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	45.5	4 7	05.0	50.0	0.5	0.5	400.0	070
Western Central	15.5 8.0	4.7 5.9	25.2 22.8	50.6 53.9	3.5 7.5	0.5 1.9	100.0	679
Greater Accra	6.0 12.2	5.9 4.3	20.0	43.6	7.5 10.1	9.8	100.0 100.0	1,244 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 Upper East	5.2 9.2	4.3 4.4	67.6 51.7	20.4 31.2	1.4 1.3	1.0 2.2	100.0 100.0	101 238
Upper East 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

				Family reunification/ other family-				
Background characteristic	Employment	Education/ training	Marriage formation	related 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	44.7	40.0	0.5	20.0	2.4	2.0	400.0	000
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 Ahafo	47.7 48.6	3.2 7.1	0.0 2.0	48.1 41.4	0.4 0.5	0.6 0.4	100.0	109 90
		7.1 7.1			0.5 1.7		100.0	
Bono Bono East	50.8 62.3	4.4	0.3 0.9	38.5 31.3	0.8	1.7 0.3	100.0 100.0	78 209
Oti	53.3	4.4 8.2	0.9	31.3 35.9	0.8 1.1	1.0	100.0	209 71
Northern	53.3 24.9	6.2 7.5	0.5 2.1	57.1	2.7	5.7	100.0	142
Savannah	44.4	7.5 5.2	2.1	44.1	1.8	2.1	100.0	67
North East		(3.7)	(0.0)	(48.3)	(0.0)	(0.0)	100.0	9
Upper East	(48.0) 26.1	18.1	0.0	(46.3) 51.4	0.0)	4.4	100.0	52
Upper West	30.7	12.4	4.3	51.4 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

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

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.

arriage 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

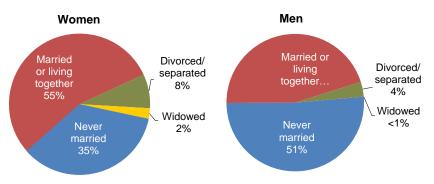
Women and men who report being married or living together with a partner as though married at the time of the survey. In this report, the terms currently in union and currently married are used interchangeably except where noted.

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.

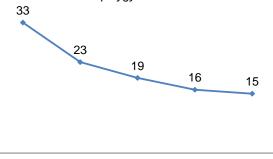
Sample: Currently married women age 15-49

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**).



Percentage of married women age 15–49 in a polygynous union



2008

GDHS

2014

GDHS

2022

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

1988

GDHS

1998

GDHS

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**).

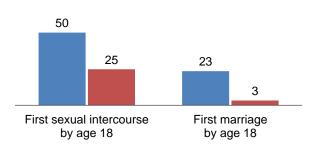
In Ghana, the percentage of respondents who were married by their 18th birthday is much higher among women (23%) than among men (3%). Similarly, more women (50%) than men (25%) had sexual intercourse by age 18 (**Figure 4.3**).

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**).

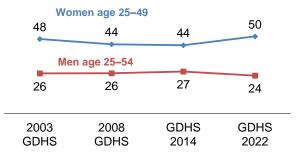
Trends: The percentage of women age 25–49 who had sexual intercourse by age 18 declined from 48% in 2003 to 44% in 2014 and then increased to 50% in 2022 (**Figure 4.4**).

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%)

Figure 4.4 Trends in early sexual intercourse

Percentage who had first sexual intercourse by age 18



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
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- Table 4.4 Age at first marriage
- Table 4.5 Median age at first marriage according to background characteristics
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- 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

<u>Table 4.1 Current marital status</u>

Percent distribution of women and men age 15–49 by current marital status, according to age, Ghana DHS 2022

	Marital status							Percentage of	
Age	Never married	Married	Living together	Divorced	Separated	Widowed	Total	respondents currently in union	Number of respondents
				WOM	EN				_
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
				MEI	N				
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

		Percentage whose current marriage or		
		union is registered	Percentage whose	
		and who have any	current marriage is	
	Percentage whose	documentation	registered and who	
Background	current marriage or	recognizing the	have a marriage	Number of women
characteristic	union is registered ¹	marriage/union	certificate	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	5 0		0.7	4.000
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

 $^{^{\}rm 1}$ 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

	-	Number o	f co-wives	_		Percentage with one or	
Background						more co-	Number of
characteristic	0	1	2+	Don't know	Total	wives ¹	women
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	88.0	8.7	2.2	1.1	100.0	10.9	4,248
Urban							
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	73.9 79.0	20.7 17.4	3.3	0.3	100.0	20.7	1,513
Middle	79.0 86.4	17.4	3.3 2.7	0.3	100.0	20.7 12.7	1,513
Fourth	89.3	7.1	1.8	1.8	100.0	12.7 8.9	1,545
Highest	93.0	7.1 5.2	0.7	1.0	100.0	5.9	1,743
riignest		ე.∠	0.7	1.1		ა.ყ	
Total	84.5	11.9	2.7	0.9	100.0	14.6	8,205

 $^{^{\}rm 1}$ 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 $\,$

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

		Percentage first married by exact age:					Number of	Median age at
Current age	15	18	20	22	25	Percentage never married	respondents	first marriage
				WOMEN				
15–19	1.5	na	na	na	na	92.1	2,682	а
20-24	3.3	16.1	28.4	na	na	58.0	2,695	а
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	а
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	а
20-24	0.0	2.4	7.3	na	na	85.7	1,033	а
25-29	0.0	2.7	8.7	17.3	33.0	54.5	888	а
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	а
25–49	0.2	3.2	9.3	18.2	34.2	23.9	3,819	а
20–59	0.1	3.2	9.2	na	na	32.5	5,620	а
25–59	0.2	3.4	9.6	18.7	34.9	20.5	4,586	а

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

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	Wome	en age	Men age		
characteristic	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	а	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	а	27.7	а	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	а	25.3	а	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

		entage who had	Percentage		Median age			
Current age	15	18	20	22	25	who never had intercourse	Number	at first intercourse
				WOMEN				
15–19	10.2	na	na	na	na	60.9	2,682	а
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	а
				MEN				
15–19	8.9	na	na	na	na	69.3	1,424	а
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	а
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	Wome	en age	Men	age
characteristic	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	а	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	а	20.2
Oti	17.6	17.5	19.4	19.5
Northern	18.1	18.0	а	20.4
Savannah	17.8	17.7	а	20.5
North East	17.8	17.8	а	20.7
Upper East	17.9	18.0	а	20.4
Upper West	18.6	18.5	а	20.5
Education				
No education	17.3	17.2	а	20.2
Primary	17.1	17.1	19.1	19.3
Secondary	18.1	18.1	19.7	19.8
More than secondary	а	20.6	а	20.9
Wealth quintile				
Lowest	17.4	17.4	19.8	20.0
Second	17.6	17.5	а	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	а	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		Timing of	flast sexual in	tercourse	Never had		
15-19 15.9 16.6 6.6 60.9 100.0 2.6 20-24 40.2 33.6 12.2 14.0 100.0 2.6 25-29 49.6 35.1 11.5 3.8 100.0 2.3 30-34 57.1 30.2 11.5 1.2 100.0 2.2 35-39 58.8 27.8 13.2 0.2 100.0 2.0 40-44 56.2 26.8 16.9 0.1 100.0 1.6 45-49 45.6 28.5 25.7 0.2 100.0 1.3 Maridal Satus Never married 19.1 27.0 13.3 40.5 100.0 8.2 Marida Or living together 65.6 27.8 6.5 0.0 100.0 8.2 Marridor living together 65.6 27.8 6.5 0.0 100.0 10.0 1.3 27.2 13.3 40.5 0.0 100.0 15.2 <td< th=""><th></th><th></th><th></th><th></th><th>sexual</th><th>Total</th><th>Number of women</th></td<>					sexual	Total	Number of women
15-19	Δαρ						
20-24		15 Q	16.6	6.6	60.0	100.0	2,682
25-29							2,695
30–34 57.1 30.2 11.5 1.2 100.0 2.2 35–39 58.8 27.8 13.2 0.2 100.0 1.6 46–44 45–49 45.6 28.5 26.7 0.2 100.0 1.6 1.0 1.0 1.6 45–49 45.6 28.5 26.7 0.2 100.0 1.3 100.0 1.6 45–49 45.6 28.5 26.7 0.2 100.0 1.3 1.3 1.3 1.0 1.0 1.0 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0							,
35-39 58.8 27.8 13.2 0.2 100.0 2.00							
40-44							
45-49 45.6 28.5 25.7 0.2 100.0 1,3 Marital stus Never married 19.1 27.0 13.3 40.5 100.0 5,2 Married or living together 65.6 27.8 6.5 0.0 100.0 8,2 Divorced/separated/widowed 20.2 35.1 44.7 0.0 100.0 8,2 Duration of current union² 41 year 71.1 25.5 3.1 0.2 100.0 3 4 - 4 years 64.1 30.4 5.5 0.0 100.0 100.0 100.0 20.0 20.0 20.0 100.0 1.5 110.0 100.0 100.0 100.0 12.5 12.5 12.5 10.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,059</td>							2,059
Marrial status 19.1 27.0 13.3 40.5 100.0 5.2							1,675
Never married	45–49	45.6	28.5	25.7	0.2	100.0	1,312
Married or living together 65.6 27.8 6.5 0.0 100.0 8.2							
Divorced/separated/widowed 20.2 35.1 44.7 0.0 100.0 1,5	Never married			13.3		100.0	5,268
Second S	Married or living together	65.6	27.8	6.5	0.0	100.0	8,205
-1 year 71.1 25.5 3.1 0.2 100.0 33 1-4 years 64.1 30.4 5.5 0.0 100.0 2.0 5-9 years 66.5 27.5 6.0 0.0 100.0 1.8 10-14 years 66.5 27.3 6.1 0.0 100.0 1.6 15-19 years 68.3 25.1 6.7 0.0 100.0 1.0 20-24 years 63.1 28.9 8.0 0.0 100.0 8.5 25+ years 61.1 26.3 12.6 0.0 100.0 8.5 25+ years 61.1 26.3 12.6 0.0 100.0 8.5 5+ years 61.1 26.3 12.6 0.0 100.0 8.6 55+ years 61.1 26.3 12.5 12.1 100.0 8.6 55+ years 61.1 26.3 12.9 1.0 100.0 0.0 6 60 2.0 29.2 <	Divorced/separated/widowed	20.2	35.1	44.7	0.0	100.0	1,542
1 year 71.1 25.5 3.1 0.2 100.0 33 1-4 years 64.1 30.4 5.5 0.0 100.0 2.0 5-9 years 66.5 27.5 6.0 0.0 100.0 1.8 10-14 years 66.5 27.3 6.1 0.0 100.0 1.6 15-19 years 68.3 25.1 6.7 0.0 100.0 1.0 20-24 years 63.1 28.9 8.0 0.0 100.0 8.5 25+ years 61.1 26.3 12.6 0.0 100.0 8.5 Residence Urban 42.0 29.2 13.0 15.8 100.0 8.5 Region Western 48.6 25.7 11.4 14.3 100.0 8.5 Region Western 48.6 25.7 11.4 14.3 100.0 1.7 Greater Accra 41.5 30.5 10.7 17.3 100.0 1.7 <	Duration of current union ²						
1—4 years 64.1 30.4 5.5 0.0 100.0 2.0. 5—9 years 66.5 27.5 6.0 0.0 100.0 1.8. 10—14 years 66.5 27.3 6.1 0.0 100.0 1.8. 110—14 years 68.3 25.1 6.7 0.0 100.0 1.0. 15—19 years 68.3 25.1 6.7 0.0 100.0 1.0. 15—19 years 68.3 25.1 6.7 0.0 100.0 1.0. 20—24 years 63.1 28.9 8.0 0.0 100.0 8. 25+ years 61.1 26.3 12.6 0.0 100.0 5. Residence Urban 42.0 29.2 13.0 15.8 100.0 6.4 Region Western 48.6 25.7 11.4 14.3 100.0 9. Central 42.6 28.4 13.8 15.1 100.0 1.7 Greater Accra 41.5 30.5 10.7 17.3 100.0 2.3 Volta 44.1 26.0 12.9 17.0 100.0 7. Eastern 47.5 25.6 12.5 14.4 100.0 1.2 Ashanti 42.9 27.9 16.0 13.2 100.0 2.9 Western North 48.3 30.9 10.3 10.5 100.0 2.3 Mostern Western 46.6 26.1 11.8 15.5 100.0 3 Bono 46.6 28.0 14.0 11.4 100.0 3 Bono 46.6 33.7 10.3 11.4 100.0 3 Bono 46.6 31.0 11.7 12.8 100.0 3 Bono 46.6 28.0 14.0 11.4 100.0 3 Bono 46.6 28.0 14.0 11.1 10.0 100.0 6 Upper West 41.1 29.7 12.7 16.5 100.0 3 Education No education 53.9 27.7 16.3 2.0 100.0 2.4 Primary 48.8 26.9 13.0 11.3 100.0 2.0 Secondary 41.8 28.1 11.8 18.4 100.0 3.0 More than secondary 41.1 32.6 13.3 11.3 100.0 2.7 Hoddle 44.7 28.1 13.8 13.3 100.0 3.1 Fourth 44.9 29.2 11.9 14.1 100.0 3.3		71.1	25.5	3.1	0.2	100.0	372
5–9 years 66.5 27.5 6.0 0.0 100.0 1.88 10–14 years 66.5 27.3 6.1 0.0 100.0 1,51 15–19 years 68.3 25.1 6.7 0.0 100.0 18.0 20–24 years 63.1 28.9 8.0 0.0 100.0 85 25+ years 61.1 26.3 12.6 0.0 100.0 85 Residence Urban 42.0 29.2 13.0 15.8 100.0 8.5 Rural 48.2 27.2 12.5 12.1 100.0 6.4 Region Western 48.6 25.7 11.4 14.3 100.0 9 Central 42.6 28.4 13.8 15.1 100.0 1,7 Greater Acra 41.5 30.5 10.7 17.3 100.0 1,7 Eastern 47.5 25.6 12.5 14.4 100.0 1,2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,022</td>							2,022
10—14 years 66.5 27.3 6.1 0.0 100.0 1.5 15—19 years 68.3 25.1 6.7 0.0 100.0 1.0 1.5 15—19 years 68.3 25.1 6.7 0.0 100.0 10.0 8.5 25+ years 61.1 26.3 12.6 0.0 100.0 8.5 25+ years 61.1 100.0 8.5 25+ years 7.2 12.5 12.1 100.0 9.5 25+ years 7.2 12.5 12.1 12.1 12.1 12.1 12.1 12.1 12							1,821
15-19 years 68.3 25.1 6.7 0.0 100.0 1.0 20-24 years 63.1 28.9 8.0 0.0 100.0 88 25+ years 61.1 26.3 12.6 0.0 100.0 58 25+ years 61.1 26.3 12.6 12.5 12.1 100.0 6.4 25+ years 61.1 25.2 12.5 12.1 100.0 6.4 25+ years 61.1 25.2 12.5 12.1 100.0 6.4 25+ years 61.1 25.2 12.1 100.0 6.4 25+ years 61.1 25.1 25.1 100.0 6.4 25+ years 61.1 25.1 25.1 25.1 100.0 6.4 25+ years 61.1 25.1 25.1 25.1 25.1 25.1 25.1 25.1 2							1,505
20–24 years 63.1 28.9 8.0 0.0 100.0 8. 25+ years 61.1 26.3 12.6 0.0 100.0 5 Residence Urban							
25+ years 61.1 26.3 12.6 0.0 100.0 55 Residence Urban 42.0 29.2 13.0 15.8 100.0 8,55 Rural 48.2 27.2 12.5 12.1 100.0 6,44 Region Western 48.6 25.7 11.4 14.3 100.0 96 Central 42.6 28.4 13.8 15.1 100.0 17.7 Greater Acra 41.5 30.5 10.7 17.3 100.0 2.3 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 12.2 Ashanti 42.9 27.9 16.0 13.2 100.0 2.9 Western North 48.3 30.9 10.3 10.5 100.0 2.9 Western North 48.3 30.9 10.3 10.5 100.0 2.9 Bono	-						
Residence Urban							834
Urban 42.0 29.2 13.0 15.8 100.0 8,56 Rural 48.2 27.2 12.5 12.1 100.0 6,48 Region Western 48.6 25.7 11.4 14.3 100.0 9 Central 42.6 28.4 13.8 15.1 100.0 1,7 Greater Accra 41.5 30.5 10.7 17.3 100.0 2,3 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 1,2 Ashanti 42.9 27.9 16.0 13.2 100.0 2,9 Western North 48.3 30.9 10.3 10.5 100.0 2,9 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono 46.6 26.1 11.8 15.5 100.0 5 Bono East 46.3 29.2 <	25+ years	61.1	26.3	12.6	0.0	100.0	570
Rural 48.2 27.2 12.5 12.1 100.0 6,48 Region Western 48.6 25.7 11.4 14.3 100.0 9 Central 42.6 28.4 13.8 15.1 100.0 1,77 Greater Accra 41.5 30.5 10.7 17.3 100.0 2,33 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 1,22 Ashanti 42.9 27.9 16.0 13.2 100.0 2,93 Western North 48.3 30.9 10.3 10.5 100.0 4 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono 46.6 26.1 11.8 15.5 100.0 3 Bono East 46.3 29.2 13.5 11.0 100.0 6 Oti 44.6 33.7 10.3 11.4 100.0 6 Northern 46.6 28.0 14.0 11.4 100.0 1,1 Savannah 44.6 31.0 11.7 12.8 100.0 3 H							
Region Western 48.6 25.7 11.4 14.3 100.0 98 Central 42.6 28.4 13.8 15.1 100.0 1,7 Greater Accra 41.5 30.5 10.7 17.3 100.0 2,3 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 1,2 Ashanti 42.9 27.9 16.0 13.2 100.0 2,9 Western North 48.3 30.9 10.3 10.5 100.0 4 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono 46.6 26.1 11.8 15.5 100.0 4 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono East 46.3 29.2 13.5 11.0 100.0 6 Oti 44.6 33.7 10.3 </td <td>Urban</td> <td></td> <td></td> <td>13.0</td> <td></td> <td>100.0</td> <td>8,557</td>	Urban			13.0		100.0	8,557
Western 48.6 25.7 11.4 14.3 100.0 99 Central 42.6 28.4 13.8 15.1 100.0 1,7 Greater Accra 41.5 30.5 10.7 17.3 100.0 2,3 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 1,22 Ashanti 42.9 27.9 16.0 13.2 100.0 2,2 Western North 48.3 30.9 10.3 10.5 100.0 2,4 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono 46.6 26.1 11.8 15.5 100.0 5 Bono East 46.3 29.2 13.5 11.0 100.0 6 Oti 44.6 33.7 10.3 11.4 100.0 1 Northern 46.6 28.0 14.0 11	Rural	48.2	27.2	12.5	12.1	100.0	6,457
Western 48.6 25.7 11.4 14.3 100.0 99 Central 42.6 28.4 13.8 15.1 100.0 1,7 Greater Accra 41.5 30.5 10.7 17.3 100.0 2,3 Volta 44.1 26.0 12.9 17.0 100.0 7 Eastern 47.5 25.6 12.5 14.4 100.0 1,22 Ashanti 42.9 27.9 16.0 13.2 100.0 2,23 Western North 48.3 30.9 10.3 10.5 100.0 2,4 Ahafo 49.0 27.5 11.1 12.4 100.0 3 Bono 46.6 26.1 11.8 15.5 100.0 5 Bono East 46.3 29.2 13.5 11.0 100.0 6 Oti 44.6 33.7 10.3 11.4 100.0 1 Northern 46.6 28.0 14.0 1	Region						
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North East 54.1 26.4 8.4 11.0 100.0 29 Upper East 45.2 28.9 10.9 15.0 100.0 66 Upper West 41.1 29.7 12.7 16.5 100.0 38 Education No education 53.9 27.7 16.3 2.0 100.0 2,4 Primary 48.8 26.9 13.0 11.3 100.0 2,0 Secondary 41.8 28.1 11.8 18.4 100.0 8,9 More than secondary 41.1 32.6 13.4 12.9 100.0 1,5 Wealth quintile Lowest 47.8 27.5 13.3 11.3 100.0 2,7 Middle 44.7 28.1 13.8 13.3 100.0 3,7 Fourth 44.9 29.2 11.9 14.1 100.0 3,3	Northern	46.6	28.0	14.0	11.4	100.0	1,149
Upper East Upper West 45.2 28.9 10.9 15.0 100.0 66 Upper West 41.1 29.7 12.7 16.5 100.0 38 Education No education 53.9 27.7 16.3 2.0 100.0 2,4 Primary 48.8 26.9 13.0 11.3 100.0 2,0° Secondary 41.8 28.1 11.8 18.4 100.0 8,9° More than secondary 41.1 32.6 13.4 12.9 100.0 1,5° Wealth quintile Lowest 47.8 27.5 13.3 11.3 100.0 2,4° Second 43.5 29.4 14.2 12.9 100.0 2,7° Middle 44.7 28.1 13.8 13.3 100.0 3,3° Fourth 44.9 29.2 11.9 14.1 100.0 3,3°	Savannah	44.6	31.0	11.7	12.8	100.0	319
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No education 53.9 27.7 16.3 2.0 100.0 2,4 Primary 48.8 26.9 13.0 11.3 100.0 2,0° Secondary 41.8 28.1 11.8 18.4 100.0 8,9° More than secondary 41.1 32.6 13.4 12.9 100.0 1,5° Wealth quintile Lowest 47.8 27.5 13.3 11.3 100.0 2,4° Second 43.5 29.4 14.2 12.9 100.0 2,7° Middle 44.7 28.1 13.8 13.3 100.0 3,1° Fourth 44.9 29.2 11.9 14.1 100.0 3,3°	Upper West	41.1	29.7	12.7	16.5	100.0	398
No education 53.9 27.7 16.3 2.0 100.0 2,4 Primary 48.8 26.9 13.0 11.3 100.0 2,0° Secondary 41.8 28.1 11.8 18.4 100.0 8,9° More than secondary 41.1 32.6 13.4 12.9 100.0 1,5° Wealth quintile Lowest 47.8 27.5 13.3 11.3 100.0 2,4° Second 43.5 29.4 14.2 12.9 100.0 2,7° Middle 44.7 28.1 13.8 13.3 100.0 3,1° Fourth 44.9 29.2 11.9 14.1 100.0 3,3°	Education						
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Second 43.5 29.4 14.2 12.9 100.0 2,7 Middle 44.7 28.1 13.8 13.3 100.0 3,1 Fourth 44.9 29.2 11.9 14.1 100.0 3,3		47.0	07.5	40.0	44.0	400.0	0.447
Middle 44.7 28.1 13.8 13.3 100.0 3,12 Fourth 44.9 29.2 11.9 14.1 100.0 3,3							2,447
Fourth 44.9 29.2 11.9 14.1 100.0 3,3							2,712
	Middle		28.1	13.8	13.3	100.0	3,121
	Fourth	44.9	29.2	11.9	14.1	100.0	3,379
		43.1			18.3		3,355
Total 44.7 28.3 12.8 14.2 100.0 15,0	Total	117	28.3	12.0	1/1.2	100.0	15,014

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

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

	Timing of last sexual intercourse			Never had		
Background characteristic	Within the last 4 weeks	Within 1 year ¹	One or more years	sexual intercourse	Total	Number of men
Age						
15–19	6.6	14.4	9.7	69.3	100.0	1,424
20–24	28.6	34.6	14.9	21.8	100.0	1,033
25–29	48.8	37.2	9.7	4.2	100.0	888
30–34	57.5	33.9	6.7	1.9	100.0	853
35–39	62.1	31.7	5.0	1.2	100.0	809
40–44	67.2	24.3	7.4	1.2	100.0	713
45–49	66.5	25.9	7. 4 7.1	0.4	100.0	557
Marital status						
Never married	18.1	27.9	13.8	40.1	100.0	3,208
Married or living together	70.9	26.9	2.2	0.0	100.0	2,828
Divorced/separated/widowed	33.2	41.1	25.7	0.0	100.0	242
Marital duration ²						
<1 year	72.9	27.1	0.0	0.0	100.0	102
1–4 years	65.8	30.8	3.5	0.0	100.0	540
5–9 years	67.2	30.8	2.0	0.0	100.0	604
10–14 years	71.5	27.0	1.5	0.0	100.0	456
15–19 years	68.5	29.8	1.7	0.0	100.0	319
20–24 years	82.3	15.4	2.3	0.0	100.0	232
25+ years	74.2	23.8	2.0	0.0	100.0	73
Married more than once	75.5	21.8	2.6	0.0	100.0	502
Residence						
Urban	43.2	28.3	9.1	19.3	100.0	3,442
Rural	41.6	27.5	9.0	21.9	100.0	2,835
Region						
Western	47.9	28.7	3.5	19.9	100.0	414
Central	37.3	33.3	6.9	22.5	100.0	686
Greater Accra	47.0	28.0	8.9	16.1	100.0	1,076
Volta	43.3	30.8	5.7	20.2	100.0	235
Eastern	42.3	23.7	15.1	18.9	100.0	466
Ashanti	40.8	26.0	10.8	22.4	100.0	1,179
Western North	47.2	27.9	7.0	17.9	100.0	181
Ahafo	50.2	21.8	7.1	20.8	100.0	133
Bono	46.0	25.1	8.6	20.2	100.0	222
Bono East	38.6	33.0	11.3	17.1	100.0	316
Oti	42.3	32.4	7.0	18.4	100.0	187
Northern	41.6	25.0	11.7	21.8	100.0	484
Savannah	43.8	24.4	6.9	24.9	100.0	155
North East	37.2	31.3	6.3	25.2	100.0	119
Upper East	37.6	29.2	9.2	24.1	100.0	267
Upper West	36.3	28.0	7.2	28.5	100.0	155
Education						
No education	53.2	28.8	7.9	10.0	100.0	628
Primary	42.6	23.4	9.6	24.3	100.0	725
Secondary	39.9	26.9	8.8	24.4	100.0	3,990
More than secondary	46.3	35.6	10.3	7.8	100.0	935
Wealth quintile						
Lowest	40.0	24.6	9.8	25.6	100.0	1,089
Second	36.2	27.8	9.7	26.3	100.0	1,133
Middle	41.7	29.0	9.6	19.7	100.0	1,137
Fourth	46.5	28.9	9.5	15.1	100.0	1,466
Highest	45.7	29.0	7.1	18.2	100.0	1,453
Total 15-49	42.5	28.0	9.1	20.5	100.0	6,277
50–59	57.2	30.1	12.4	0.4	100.0	767
Total 15–59	44.1	28.2	9.4	18.3	100.0	7,044

 $^{^{\}rm 1}$ Excludes men who had sexual intercourse within the last 4 weeks $^{\rm 2}$ 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.

he 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

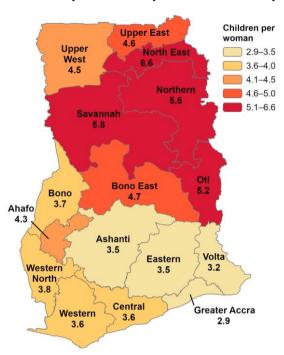
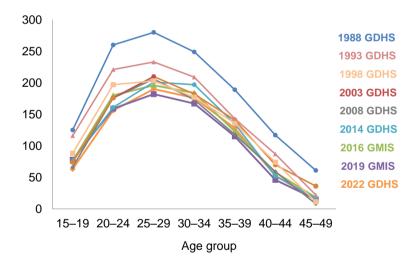


Figure 5.1 Trends in age-specific fertility

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; Conde-Agudelo 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 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

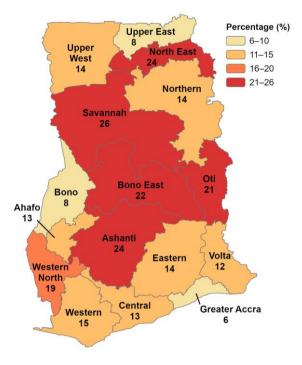
Percentage of women age 15-19 who have ever been pregnant

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: a child who was born alive, even if for a very short time **Stillbirth:** a child who was born dead (no signs of life) following a

a child who was born dead (no signs of life) following a pregnancy that lasted 7 months (28 weeks) or longer

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:

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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

	Resid		
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) GFR CBR	3.2 109 25.1	4.8 162 30.9	3.9 132 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

Dockground	Total	Percentage of women age	Mean number of children ever born to women
Background characteristic	fertility rate	15–49 currently pregnant	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 4.4
Ashanti Western North	3.5 3.8	5.8 6.5	4.4 4.6
Ahafo	3.6 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
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	5.8	3.0
Total	3.9	6.8	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	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

					Number o	of childrer	ı ever borr	n					Number of	Mean number of children ever	Mean number of living
Age group	0	1	2	3	4	5	6	7	8	9	10+	Total	women	born	children
							ALL WOM	EN							_
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	8.0	0.4	100.0	15,014	2.19	2.05
					С	URRENT	LY MARE	RIED WO	MEN						
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

		М	onths since pr	eceding live bi	rth		_	Number of	Median number of months since
Background characteristic	7–17	18–23	24–35	36–47	48–59	60+	Total	non-first live births	preceding live birth
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 Western North	3.9 7.8	10.4 7.7	25.3 22.4	19.2 22.9	15.7 13.7	25.4	100.0	1,077 169	41.3 41.7
Ahafo	7.0 5.0	9.1	24.7	22.3	12.2	25.5 26.6	100.0 100.0	141	41.7
Bono	5.2	7.6	24.7	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 Highest	4.2 3.9	8.4 12.8	21.5 24.2	20.9 17.4	12.1 15.2	32.9 26.5	100.0 100.0	1,114 1,031	44.7 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

	Percentag			
Months since birth	Amenorrhoeic	Abstaining	Insusceptible1	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

characteristic Mother's age	amenorrhoea	abstinence	insusceptibility ¹
Matharia ana			insusocptionity
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 25–49 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

			Age at n	nenarche			Percentage who have				
Current age	≤10	11	12	13	14	15+	never menstruated	Don't know	Total	Number of women	Mean age at menarche
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 menopausal ¹	Number of 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

		Percentage wh	no had a live birt	h by exact age		Percentage who have — never had a	Median age at	
Current age	15	18	20	22	25	live birth	Number of women	first live birth
15–19	0.7	na	na	na	na	89.1	2,682	а
20-24	1.5	11.8	26.6	na	na	53.2	2,695	а
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	а
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	Wome	en age
characteristic	25–49	30–49
Residence Urban Rural	23.4 20.8	23.1 20.7
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	21.6 21.4 24.5 22.2 21.8 22.2 21.1 21.1 22.4 20.8 20.6 21.9 20.9 20.5 21.0 22.1	21.2 21.4 24.4 21.6 21.7 20.9 20.8 22.3 20.6 20.5 21.7 20.9 20.5 21.7 20.9
Education No education Primary Secondary More than secondary	20.2 19.9 22.5 a	20.2 20.0 22.4 28.7
Wealth quintile Lowest Second Middle Fourth Highest	20.4 20.5 20.9 22.8 a	20.3 20.4 20.8 22.0 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

	Pe	Percentage of women age 15–19 who:							
Background	Have ever had	a pregnancy	Are currently	Have ever	Number of				
characteristic	a live birth	loss ¹	pregnant	been pregnant	women				
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	*	*	*	12.J *	2,130				
·									
Wealth quintile Lowest	17.5	2.1	4.1	23.1	462				
Second	17.5	3.7	2.2	23.1 19.2	568				
Secona Middle	13.0	3.7 6.1	2.2 1.5	19.2	568 639				
Fourth	5.0	4.1	1.6	9.6	523				
Highest	3.7	4.1 2.8	0.3	9.6 5.7	523 490				
nignest	3.1	2.0	0.3	5.1					
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

Sex	Had sexual intercourse before age 15	Married before age 15	Had a live birth/fathered a child before age 15	Pregnant before age 15	Number
Women	10.2	1.5	0.7	2.3	2,682
Men	8.9	0.0	0.0	na	1.424

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

		Pregnan				
Background characteristic	Live birth	Stillbirth ¹	Miscarriage ²	Induced abortion	Total	Number of pregnancies
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
regnancy 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 More than secondary	78.5 80.2	0.8 1.8	11.8 14.9	9.0 3.0	100.0 100.0	3,572 590
·	00.2	1.0	17.0	0.0	100.0	000
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	1,278
Fourth	75.6	0.4	14.5	7.6 9.5	100.0	1,296
		0. 4 1.7				
Highest	75.0		15.2	8.1	100.0	1,160
Total	81.7	1.3	10.5	6.5	100.0	6,407

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.

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

	Resid		
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 15–44

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.

nformation 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

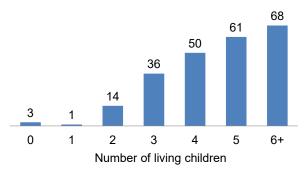
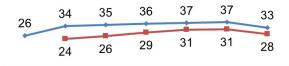


Figure 6.2 Trends in desire to limit childbearing

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



1988 1993 1998 2003 2008 2014 2022 GDHS GDHS GDHS GDHS GDHS GDHS

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?"

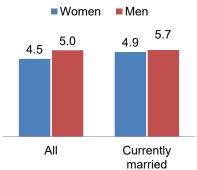
Sample: Women and men age 15-49

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.

Figure 6.3 Ideal family size

Mean ideal number of children among women and men age 15–49



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).

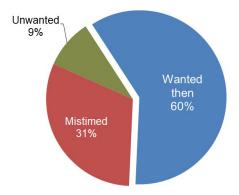
Sample: Current pregnancies and live births in the 3 years before the survey among women age 15–49 and all pregnancy outcomes in the 3 years before the survey among women age 15–49

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.

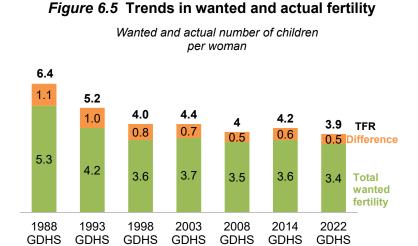
Wanted fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific 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**).



LIST OF TABLES

For more information on fertility preferences, see the following tables:

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	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

Number of living children					Total	Total			
Desire for children	0	1	2	3	4	5	6+	15–49	15–59
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
			ME	N 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	8.0	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

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

	Number of living children ¹							
Background characteristic	0	1	2	3	4	5	6+	Total
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 76.2	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

	Number of living children ¹							
Background								•
characteristic	0	1	2	3	4	5	6+	Total
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.

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

Number of living children ¹					children1			
Ideal number of children	0	1	2	3	4	5	6+	Total
			WOME	N				
0	0.8	0.5	0.8	0.6	0.7	0.7	1.2	0.7
1	0.7	8.0	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	8.0	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 children								
for women 15–49:2	2.0	4.0	4.0	4 7	- 0		~ -	4.5
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
Women	771	1,007			1,233	030	344	0,004
			MEN ³					
0	0.9	0.1	8.0	1.6	1.7	0.9	8.0	0.9
1	8.0	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	4.5	4.1	4.0	4.3	3.0	0.4	3.∠	5.1
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

 ¹ The number of living children includes the current pregnancy for women.
 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 15–49, according to background characteristics, Ghana DHS 2022

Background characteristic	Mean	Number of women ¹
	Wican	Women
Age	4.0	0.000
15–19	4.0	2,668
20–24	4.1	2,676
25–29	4.3	2,314
30–34 35–39	4.5 4.9	2,210
30–39 40–44	4.9 5.1	2,039
		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
Weelth mintile		
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
9		,
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 s	tatus of pregnan	pregnancy outcome				
Characteristic	Wanted then	Wanted later	Wanted no more	Total	pregnancy outcomes ¹		
Birth order							
1	55.8	40.8	3.4	100.0	1,652		
2	68.8	27.3	3.8	100.0	1,372		
3	67.3	28.1	4.6	100.0	1,061		
4+	57.8	23.0	19.1	100.0	2,172		
Mother's age at birth ²							
<20	35.4	59.2	5.4	100.0	543		
20–24	55.9	39.5	4.5	100.0	1,425		
25–29	66.9	27.3	5.8	100.0	1,639		
30–34	69.5	22.3	8.2	100.0	1,353		
35–39	65.1	18.2	16.8	100.0	943		
40-44	58.5	11.8	29.7	100.0	301		
45–49	39.6	12.4	48.0	100.0	52		
Total	61.3	29.5	9.1	100.0	6,257		

¹ For pregnancies that resulted in multiple outcomes (for example, twins), each outcome is counted

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

individually. 2 For current pregnancies, the maternal age at birth is estimated as the mother's expected age at the time of the birth.

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.

amily 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

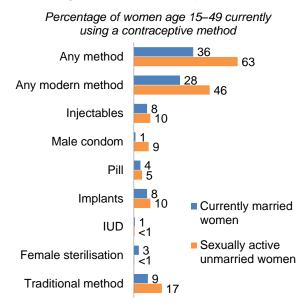
Include male and female sterilisation, intrauterine devices (IUDs), injectables, implants, contraceptive pills, male and female condoms, emergency contraception, the standard days method, and the lactational amenorrhoea method.

7.1.2 Contraceptive Prevalence

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%).

More than a third of currently married women (36%)

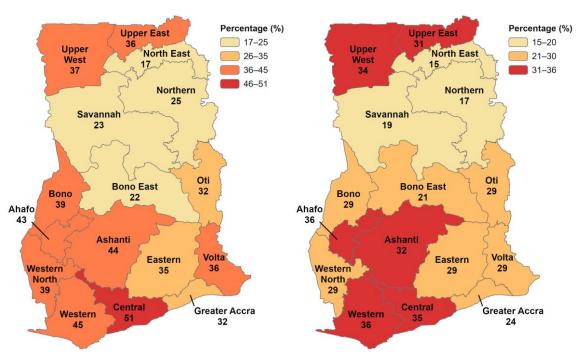
Figure 7.1 Contraceptive use



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).

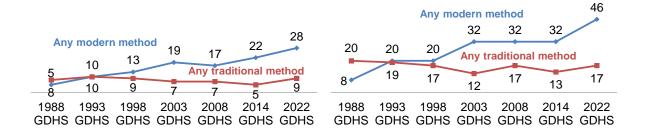
Emergency contraceptives are the most used method (12%) among sexually active unmarried women, followed by implants and injectables (10% each). Less than 1% of sexually active unmarried women use female sterilisation, IUDs, the standard days method, or the lactational amenorrhoea method. Among all men, 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 currently married women currently using a contraceptive method

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 scale-up 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

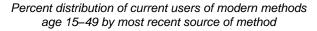
Information on the main sources of contraception is important for programme managers and implementers who design service delivery strategies, as well as for monitoring, evaluation, and demographic forecasting.

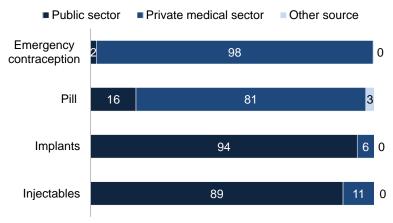
The public sector remains the major source of contraceptive methods in Ghana, providing methods to 59% of current contraceptive users (**Table 7.10**). Within the public sector, the main sources are government hospitals or polyclinics (26%) and government health centres and clinics (19%).

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.

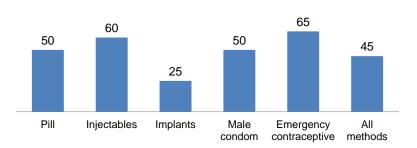
Overall, 45% of all episodes of contraceptive use were discontinued within 12 months (**Table 7.13**). Apart from emergency contraceptive pills (65%), the discontinuation rate was highest for injectables (60%); the rate was lowest for implants (25%).

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:	Unmet need for family planning + current contraceptive use (any method)
Proportion of demand satisfied:	Current contraceptive use (any method) Unmet need + current contraceptive use (any method)
Proportion of demand satisfied by modern methods:	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

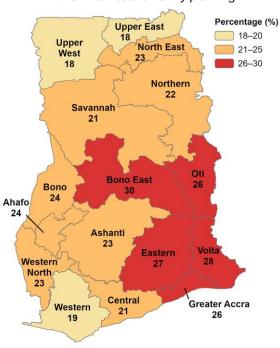
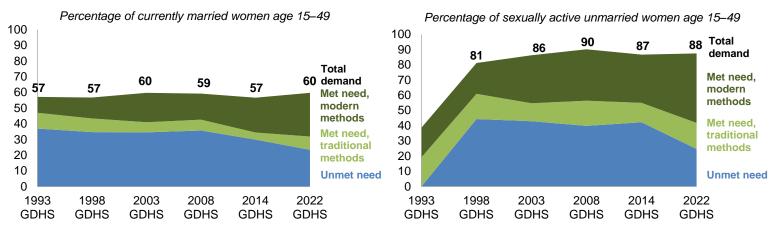


Figure 7.5 Trends in demand for family planning among currently married women and sexually active unmarried women



7.6 DECISION MAKING ABOUT FAMILY PLANNING

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 7.16** and **7.17** 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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For more information on family planning, see the following tables:

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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

		Women			Men	
Method	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 Female sterilisation Male sterilisation IUD Injectables Implants Pill Male condom Female condom Emergency contraception Standard days method (SDM) Lactational amenorrhoea method (LAM) Other modern method	99.0 80.0 40.2 54.7 92.9 91.5 89.2 96.8 79.3 75.5 32.6	99.0 81.1 41.6 59.8 96.7 95.9 94.4 96.2 79.8 74.7 34.8	99.9 85.8 41.8 56.5 94.5 94.3 89.8 99.5 84.4 86.4 32.8	99.0 65.2 43.0 37.1 81.5 78.7 83.3 98.6 83.7 70.6 23.1	99.6 70.9 47.6 42.3 90.2 87.7 89.0 99.3 89.5 73.8 27.7	99.4 64.8 43.3 42.1 84.8 84.9 89.0 99.4 89.5 81.7 22.0
Any traditional method Rhythm Withdrawal Other traditional method Mean number of methods known by respondents 15–49 Number of respondents	88.0 77.5 78.9 9.1 9.5 15,014	89.0 78.8 81.5 10.6	96.0 84.5 90.5 11.1 10.1 1,323	87.6 61.9 83.5 3.8 8.4 6.277	93.1 69.2 90.1 4.7 9.2 2.828	95.2 66.7 93.2 5.5 8.9 663
Mean number of methods known by respondents 15–59 Number of respondents	na na	na na	na na	8.5 7,044	9.2 3,485	8.9 686

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

		Women			Men	
		Heard of			Heard of	
Background	Heard of	any modern		Heard of	any modern	
characteristic	any method	method ¹	Number	any method	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 35–39	99.2 99.0	99.2 99.0	1,719 1,641	100.0 99.9	99.4 99.9	568 665
40–44	99.0	99.0	1,041	99.8	99.9	597
45–49	99.5	99.5	941	99.7	99.5	475
	00.0	00.0	• • • •	00	00.0	
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
	00.0	00.0	0,000	00.0	00.0	1,010
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 Na otla a su	98.9	98.9	248	100.0	100.0	87
Northern Savannah	94.2 96.9	94.0 96.9	870 218	99.5 98.2	99.1 97.9	276 86
North East	96.9 97.6	96.9 97.6	218	98.2 99.4	97.9 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 guintile						
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

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	metho	d				_	Trac	ditional me	ethod	_			
										Emer-			='				="			
		Any								gency				Any						
		mod-	Fe-							con-				tradi-				Not		
	Any	ern	male	Male					Male	tra-				tional		With-		cur-		
	meth-	meth-	sterili-	sterili-		Inject-		D	con-	cep-	0011		0.1	meth-	D	draw-	0.1	rently		Number of
Age	od	od	sation	sation	IUD	ables	plants	Pill	dom	tion	SDM	LAM	Other	od	Rhythm	al	Other	using	Total	women
									1	ALL WC	DMEN									
15-19	16.3	11.2	0.0	0.0	0.0	1.3	2.4	8.0	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	8.0	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	8.0	0.0	8.0	4.8	2.1	1.1	68.5	100.0	15,014
								CU	RRENT	LY MAI	RRIED	WOME	N							
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	8.0	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
					-		SE	XUAL	LY ACT	IVE UN	MARR	IED WO	DMEN 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	8.0	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

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 using male condoms	Number 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
CURF	RENTLY MARRIED MEN	
15–19	*	13
20-24	9.1	126
25-29	6.2	383
30-34	4.8	568
35–39	5.1	665
40-44	4.7	597
45–49	4.0	475
Total	4.9	3,485

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	metho	d					Trad	litional me	ethod				
Background characteristic	Any meth- od	Any mod- ern meth- od	Fe- male sterili- sation	Male sterili- sation	IUD	Inject- ables	Im- plants	Pill	Male con- dom	Emer- gency con- tra- cep- tion	SDM	LAM	Other	Any tradi- tional meth- od	Rhythm	With- draw- al	Other	Not cur- rently using	Total	Number of women
Number of living children	40.0	40.0	0.0	0.4	0.0	0.0	4.0	4.7	0.4	4.0	0.4	0.0	0.0	7.0	5.0	0.0	0.0	00.0	400.0	500
0 1–2 3–4 5+	19.8 33.1 41.5 39.1	12.0 23.9 32.4 32.3	0.2 0.2 4.6 6.2	0.1 0.0 0.0 0.0	0.3 0.3 1.0 0.5	2.6 8.4 8.5 8.0	1.9 6.8 8.6 10.8	1.7 3.6 5.1 4.2	3.4 1.7 1.3 0.4	1.6 1.2 0.9 0.9	0.1 0.3 0.6 0.1	0.0 1.1 1.8 1.2	0.0 0.1 0.0 0.1	7.8 9.2 9.1 6.7	5.8 5.7 5.9 3.6	2.0 2.4 1.6 1.3	0.0 1.1 1.5 1.8	80.2 66.9 58.5 60.9	100.0 100.0 100.0 100.0	593 3,018 2,792 1,801
Residence Urban Rural	37.1 35.5	26.6 29.1	3.8 2.2	0.0 0.0	0.8 0.3	6.6 9.4	6.5 9.4	4.0 4.3	2.0 0.8	1.0 1.1	0.5 0.1	1.2 1.3	0.1 0.0	10.4 6.5	6.6 4.0	2.5 1.2	1.4 1.2	62.9 64.5	100.0 100.0	4,248 3,956
Region Western Central Greater Accra Volta Eastern Ashanti Western	44.8 50.8 32.0 35.6 35.3 44.4	35.5 34.5 23.8 29.3 28.6 32.1	3.2 4.5 4.2 2.0 4.3 4.2	0.0 0.0 0.0 0.0 0.0 0.0	0.4 0.1 1.6 0.5 0.6 0.5	9.8 9.7 4.5 8.0 5.4 9.9	11.3 8.2 5.0 11.0 9.2 7.0	3.6 3.8 2.4 3.3 5.0 6.3	2.6 1.5 2.0 1.9 2.3 1.4	2.2 2.2 0.4 1.0 1.2 2.1	0.0 0.0 1.6 0.0 0.0	1.9 4.5 2.0 1.3 0.6 0.8	0.5 0.0 0.0 0.3 0.0 0.0	9.3 16.3 8.3 6.3 6.7 12.3	5.2 7.6 5.4 4.8 5.0 10.0	2.1 5.7 2.0 1.0 0.7 1.1	2.0 3.0 0.8 0.5 1.0	55.2 49.2 68.0 64.4 64.7 55.6	100.0 100.0 100.0 100.0 100.0 100.0	487 816 1,144 375 633 1,426
North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	39.2 42.8 38.5 22.1 32.0 24.6 23.4 17.1 35.5 36.8	29.1 35.8 28.3 20.7 28.5 17.2 19.1 14.9 30.9 33.8	4.6 3.3 4.1 1.0 3.5 0.5 0.8 0.5 0.7 1.4	0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.2 0.0	0.0 1.3 0.2 0.4 1.3 0.2 0.1 0.1 0.7	10.2 11.3 7.0 7.0 7.3 6.7 5.7 5.6 9.0 14.6	6.1 8.8 8.9 6.2 7.0 4.4 7.9 5.2 16.6 14.4	4.5 5.0 5.3 4.5 6.8 3.4 3.8 2.8 2.3 2.2	1.0 0.5 1.1 0.5 0.8 1.3 0.4 0.3 1.0	1.6 1.6 1.3 0.4 0.4 0.0 0.3 0.2 0.0	0.9 0.2 0.2 0.3 0.4 0.2 0.0 0.0 0.3	0.0 4.0 0.2 0.2 1.0 0.4 0.3 0.0 0.1	0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1	10.2 7.0 10.3 1.4 3.5 7.4 4.3 2.2 4.6 3.0	5.3 3.0 9.5 0.9 2.5 0.6 4.0 1.5 4.0 2.4	3.0 2.5 0.4 0.4 0.5 3.2 0.1 0.6 0.6	1.8 1.5 0.3 0.1 0.4 3.6 0.2 0.0 0.0	60.8 57.2 61.5 77.9 68.0 75.4 76.6 82.9 64.5 63.2	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	231 183 284 376 248 870 218 229 426 258
Education No education Primary Secondary More than secondary	26.7 35.8 40.7	22.6 29.6 30.3 25.0	2.5 2.6 3.1 4.9	0.0 0.0 0.0	0.3 0.3 0.7	7.2 8.7 9.1	8.9 11.3 7.2	2.7 4.1 4.8 4.1	0.3 0.5 1.8	0.2 0.7 1.7	0.0 0.1 0.4	0.5 1.2 1.5	0.1 0.0 0.1	4.1 6.2 10.4	1.7 2.7 7.1	1.0 1.4 2.1	1.4 2.1 1.3	73.3 64.2 59.3 61.4	100.0 100.0 100.0	2,015 1,233 4,174 783
Wealth quintile Lower Second Middle Fourth Highest	27.6 36.1 41.5 39.1 37.5	24.4 30.8 31.2 28.0 25.3	1.6 2.8 1.9 3.6 5.0	0.0 0.0 0.0 0.0 0.0	0.3 0.5 0.1 0.4 1.6	8.9 9.9 8.9 7.6 4.7	9.2 10.2 9.6 7.0 4.3	2.9 4.1 6.0 4.2 3.5	0.3 0.8 1.0 1.9 3.0	0.5 0.7 1.2 1.8 1.2	0.1 0.1 0.6 0.2 0.7	0.6 1.7 1.7 1.3 1.3	0.0 0.0 0.2 0.1 0.0	3.2 5.4 10.3 11.1 12.2 8.5	1.5 2.6 5.9 7.4 8.7	0.5 1.2 2.6 2.3 2.7	1.2 1.6 1.8 1.4 0.8	72.4 63.9 58.5 60.9 62.5	100.0 100.0 100.0 100.0 100.0	1,662 1,513 1,545 1,743 1,742 8,205

Note: If more than one method is used, only the most effective method is considered in this tabulation.

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

		A	Age at time of	of sterilisation	n			Number of	Median
Years since operation	<25	25–29	30-34	35–39	40-44	45–49	Total	women	age ¹
<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	8.0	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.

SDM = standard days method

LAM = lactational amenorrhoea method

¹ Women who have had sexual intercourse within 30 days preceding the survey

²⁵ unweighted cases and has been suppressed.

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

				Among DMPA person adminis			
Background	Percentage using DMPA-SC/	Number of women using		Injection given by health care	Don't	i trie iast time.	Number of
characteristic	Sayana Press	injectables	Self-injection	provider	know	Total	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
		35					
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	∠. 4 ∗	*	V.U *	100.0	14
		35	(0.0)	(400.0)	(0.0)		19
Bono East	53.6		(0.0)	(100.0)	(0.0)	100.0	
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	70.4	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 20–24 25–29 30–34 35–39	7.1 19.1 14.1 10.8 7.8	2,682 2,695 2,340 2,252 2,059
40–44 45–49	6.0 2.2	1,675 1,312
Residence Urban Rural	12.0 8.3	8,557 6,457
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	12.3 11.1 7.5 8.0 14.4 16.7 11.5 15.3 7.9 5.2 6.0 9.7 2.1 3.2 4.0 3.4	955 1,703 2,327 713 1,220 2,928 411 317 567 676 403 1,149 319 290 640 398
Education No education Primary Secondary More than secondary	4.2 5.2 12.4 16.0	2,411 2,071 8,999 1,533
Wealth quintile Lowest Second Middle Fourth Highest	4.8 8.6 10.8 13.6 12.5	2,447 2,712 3,121 3,379 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

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

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 $\,$

Age	Percentage with correct knowledge of the fertile period	Number of women
15–19	26.5	2,682
20–24	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 sterili- sation	IUD	Inject- ables	Implants	Pill	Male condom	Emer- gency contra- ception	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

	Among pill users							Among condom users ¹				
Background characteristic	Secure	Micro- gynon	Duofem	N/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	(02.0)	(02.0)	(0.0)	(4.5)	(0.0)	6	*	*	*	*	*	3
Upper East	*	*	*	*	*	9	(20.0)	(80.0)	(0.0)	(0.0)	(0.0)	13
Upper West	*	*	*	*	*	8	(20.0)	(00.0)	(0.0)	(0.0)	(0.0)	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.

Among condom users not also using the pill

Table 7.12 Informed choice

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

	Among women who started last episode of modern contraceptive method within 5 years preceding the survey:									
Method/source	Percentage who were informed about side effects or problems of method used	Percentage who were informed	Percentage who were informed of other methods that could be used		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 CHPS centre/government health	63.5	64.5	73.2	52.3	79.2	230				
post Community health service	65.5	71.6	71.6	51.9	75.8	309				
(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	12.1	10.2	10.2	0.7	10.0	200				
(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

					Other							
			Other	Changes	side	Wanted	Other	Husband/			Switched	Number
		Desire to	fertility-	in men-	effects/	more	method-	partner			to	of
	Method	become	related	strual	health	effective	related	disap-	Other	Any	another	episodes
Method	failure	pregnant	reasons1	bleeding	concerns	method	reasons ²	proved	reasons3	reason4	method ⁵	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	8.0	4.8	6.8	3.0	2.3	50.0	8.7	604
Emergency												
contraception	4.5	5.3	22.8	7.8	9.5	3.9	4.3	1.2	5.3	64.6	8.3	1,249
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.

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

						Emer- gency					
		Inject-			Male	contra-			With-		All
Reason	IUD	ables	Implants	Pill	condom	ception	SDM	Rhythm	drawal	Other ¹	methods
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	8.0	(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)	8.0	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	8.0
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

Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation
 Includes lack of access/too far, costs too much, and inconvenient to use
 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

[&]quot;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).

¹ 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

	Unme	t need for top	family	Met need for family planning (currently using)		Total d	emand for planning ¹	family	_	Percent-	Percentage of demand satisfied by	
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	modern meth- ods ³
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 Bono	14.6 14.7	9.6 9.0	24.1 23.7	25.8 22.1	17.0 16.4	42.8 38.5	40.4 36.9	26.5 25.4	66.9 62.2	183 284	64.0 61.9	53.5 45.4
Bono East	18.2	9.0 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	7.3 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	52.4	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.

 $\underline{\textbf{Table 7.15.2 Need and demand for family planning among all women and among sexually active unmarried women}$

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

	Unme	et need for planning	family		need for fa g (currently		Total demand for family planning ¹		family	- Number	Percent-	Percentage of demand satisfied by
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	modern meth- ods ³
					ALL WO	MEN						
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
•	5.0	4.3	10.1	20.9	1.5	34.0	32.1	12.2	44.3	1,000	11.0	30.4
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	25.3 31.5	32.6 33.6	15.9	46.4 49.5	2,447	63.7	46.0 51.5
Secona Middle	12.5	5.4 6.3	16.7	21.0 25.1	8.7	33.8	33.6 35.5	15.9	49.5 50.5	3,121	63.7 67.0	50.3
										,		
Fourth	10.0 6.1	4.4 5.1	14.4 11.2	25.6	9.2	34.7	35.6	13.5	49.2 41.7	3,379	70.7	50.2
Highest				20.1	10.4	30.5	26.1	15.6		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

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	Unmet need for family planning		Met need for family planning (currently using)			Total c	emand for planning ¹	r family		Percent-	Percent- age of demand satisfied by	
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	modern meth- ods ³
			SE	XUALLY A	CTIVE UN	IMARRIE	D 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 Upper West	51.6 30.4	0.0 0.0	51.6 30.4	43.2 54.6	0.0 3.3	43.2 57.8	94.8 85.0	0.0 3.3	94.8 88.3	33 21	45.6 65.5	37.7 57.0
Opper west	30.4	0.0	30.4	34.0	3.3	37.0	05.0	3.3	00.5	21	05.5	37.0
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	11.0	0.0	11.0	78.9	1.2	80.1	89.8	1.2	91.1	104	88.0	64.3
secondary	11.0	0.0	11.0	76.9	1.2	6U. I	09.0	1.2	91.1	104	00.0	04.3
Wealth quintile	0.5.5			=			05 -			,	===	40 -
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.

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.

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	
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

		Wife and	Mainly			Percentage who participate in decision	
Background characteristic	Mainly wife	husband/ partner jointly	husband/ partner	Someone else/ other	Total	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	40.7	44.4	44.5	4 7	400.0	00.0	4.040
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	00.7	04.0	0.0	0.0	400.0	00.7	407
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 Eastern	50.6 41.6	32.1 33.5	10.2 22.6	7.1 2.4	100.0	82.7 75.1	375 633
Ashanti	39.7	50.7	8.3	2.4 1.2	100.0 100.0	90.5	1,426
Western North	40.2	47.2	10.1	2.6	100.0	90.3 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

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

		_				
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

			News-			Poster/	Outdoor	Com- munity	None of these	
Background characteristic	Radio	Television	paper/ magazine	Mobile phone	Social media ¹	leaflet/ brochure	sign or billboard	meeting or event	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

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

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	News- paper/ magazine	Mobile phone	Social media ¹	Poster/ leaflet/ brochure	Outdoor sign or billboard	Com- munity 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
• •	30.4	24.0	5.2	0.0	13.0	12.7	12.5	20.7	31.0	133
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

	Percentage of women who were visited by a	Percentage who visited a in the last 12 m	health facility	Percentage of women who did not discuss family	Number of women	
Background characteristic	fieldworker who discussed family planning	Discussed family planning	Did not discuss family planning	planning either with a fieldworker or at a health facility		
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. 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.

nformation 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.

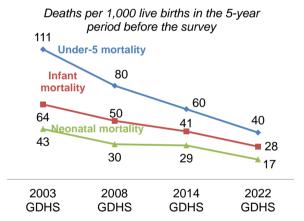
Under-5 mortality: The probability of dying between birth and the fifth birthday.

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.

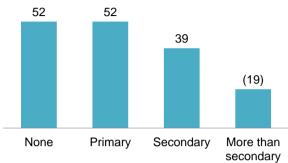
Figure 8.1 Trends in early childhood mortality rates



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, under-5 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

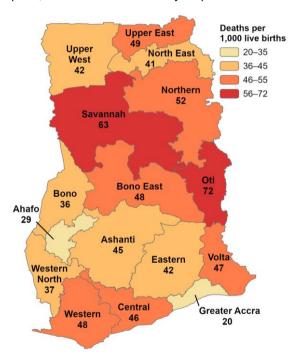
Deaths per 1,000 live births for the 10-year period before the survey



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).

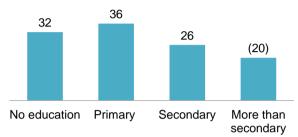
In the 2022 GDHS, 132 stillbirths were recorded, which is equivalent to 15 stillbirths per 1,000 pregnancies of 28 or more weeks' duration.

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



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

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. Twenty-three 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	Post- neonatal mortality (PNN) ¹	95% CI	Infant mortality (190)	95% CI	Child mortality (4q1)	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 characteristic	Neonatal mortality (NN)	Postneonatal mortality (PNN) ¹	Infant mortality (190)	Child mortality (4q1)	Under-5 mortality (5q0)
Child's sex					
Male	20	11	31	12	43
Female	14	10	24	12	36
Residence					
Urban	17	10	27	10	37
Rural	17	11	29	14	42
Total	17	11	28	12	40

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 (4q1)	Under-5 mortality (5q ₀)
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

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

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

		Normala a mark		E-alla.		Number of	Ratio of
Background	Number of	Number of early neonatal	Stillbirth	Early neonatal	Perinatal	pregnancies of 28+ weeks'	stillbirths to early neonatal
characteristic	stillbirths1	deaths ²	rate ³	mortality rate ⁴	mortality rate ⁵	duration ⁶	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 Western North	22	27	14 (6)	18 (10)	31	1,572 228	0.8 0.6
Ahafo	(1) 2	(2) 2	(10)	(10)	(17) (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 250-

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} floculdes 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

	Births in the preceding the		Percentage of
Risk category	Percentage of births	Risk ratio	currently married women ¹
Not in any high-risk category	29.5	1.00	20.8 ^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 Mother's age >34 only Birth interval <24 months only Birth order >3 only	3.8 3.6 5.2 15.8	1.92 1.02 1.62 1.33	0.2 8.3 9.2 10.3
Subtotal	28.4	1.43	27.9
Multiple high-risk category Age <18 and birth interval <24 months² Age >34 and birth interval <24 months Age >34 and birth order >3 Age >34 and birth interval <24 months and birth order >3 Birth interval <24 months and birth order >3	0.0 0.3 14.4 1.5	* 1.67 2.34 4.02	0.1 0.6 33.0 5.3 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 Mother's age >34 Birth interval <24 months Birth order >3 Number of births/women	3.9 19.8 10.1 34.7 8,581	1.94 1.58 2.39 1.75	0.3 47.2 21.7 55.2 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.

Includes the category age <18 and birth order >3

Includes sterilised women

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.

ealth 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 2020–2025 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.

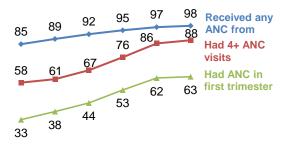
9.1.2 Timing and Number of Antenatal Care Visits

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% in 2014 and 88% in 2022 (**Figure 9.1**).

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)



1993 1998 2003 2008 2014 2022 GDHS GDHS GDHS GDHS GDHS

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

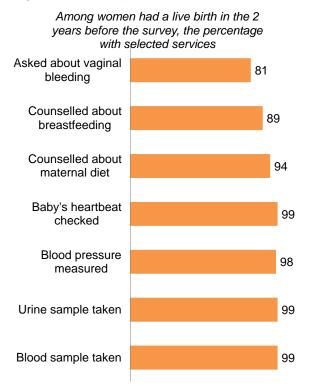
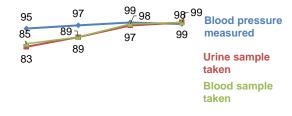


Figure 9.3 Trends in antenatal care coverage

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



2003	2008	2014	2022
GDHS	GDHS	GDHS	GDHS

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.

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 9.4 Health facility births by education

Percentage of live births in the 2 years before the survey that were delivered in a health facility

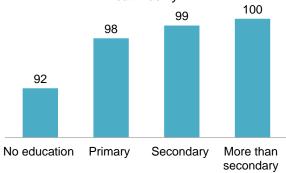


Figure 9.5 Trends in place of birth

Percentage of live births in the 2 years before the survey

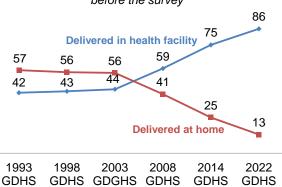
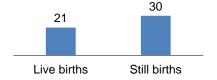


Figure 9.6 Caesarean section by birth outcome

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.

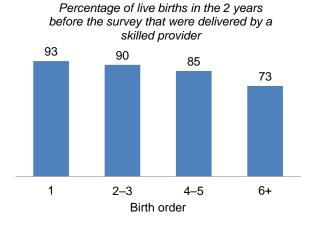
Sample: All live births and/or stillbirths in the 2 years before the survey

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

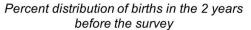


Trends: The percentage of live births delivered by a skilled provider increased from 43% in 1993 to 76% in 2014 and 88% in 2022. During the same period, the percentage of live births delivered by traditional birth attendants decreased from 16% to 15% and then to 7% (**Figure 9.9**).

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



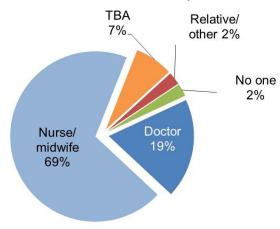
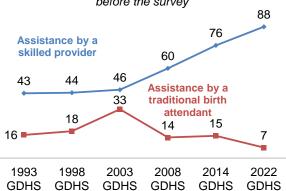


Figure 9.9 Trends in assistance during delivery

Percentage of live births in the 2 years before the survey



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**).

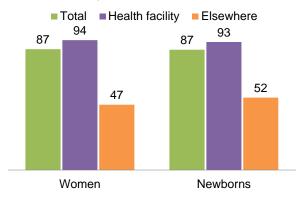
Trends: The percentage of women with a live birth who had a postnatal check during the first 2 days after birth increased from 55% in 2008 to 81% in 2014 and then to 87% in 2022.

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**).

Figure 9.10 Postnatal care by place of delivery

Percentage of last live births in the 2 years before the survey for which women and newborns received a postnatal check during the first 2 days after birth



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.

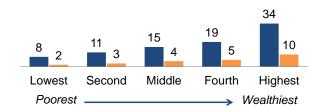
Sample: Women age 15-49

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

For more information on maternal and newborn health care, see the following tables:

	Table 9.1	Antenatal care
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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

		Ant	enatal care pro	vider		=		Percentage receiving	
Background characteristic	Doctor	Nurse/ midwife	Traditional birth attendant	Community health worker/ fieldworker	Other	No ANC	Total	antenatal care from a skilled provider ¹	Number of women
				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	8.0	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 BIF	RTHS AND STILL	.BIRTHS 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.

Skilled provider includes doctor and nurse/midwife (community health nurse, community health officer, enrolled nurse, public health nurse, or general nurse).

Birth order refers to the order of the birth among the respondent's live births.

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 9.2 Number of antenatal care visits and timing of first visit

Percent distribution of women age 15–49 who had a live birth and/or a stillbirth in the 2 years preceding the survey by number of antenatal care (ANC) visits during the pregnancy for the most recent live birth or stillbirth and by the timing of the first visit, and among women with ANC, median months pregnant at first visit, according to background characteristics, Ghana DHS 2022

Median

				Shor of ANC visite	o i i o i					N radamily	on settoom:	Number of months pregnant at time of first ANC visit	of first Al	;			months pregnant	
- Background					9101		Don't		4+ ANC	No antenatal		מונים		Don't			at first visit (for those with	Number of women
characteristic	None	_	2	3	4–7	8+	know	Total	visits	care	4	4-6	7+	know	Total	of women	ANC)	with ANC
								LIVE BIRTHS	HS									
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	8.9	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	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	629
Birth order ¹																		
-	1.0	4.	2.6	4.3	50.3		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		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	6.9	50.2	37.6	0.1	100.0	87.8	2.6	9.09	34.3	2.4	0.1	100.0	260	3.5	740
+9	3.0	2.7	6.1	8.0	52.2		0.0	100.0	79.4	3.0	49.5	41.2	6.3	0.0	100.0	428	4.0	415
Residence	•	•	(ľ	i i		(0			0			(0			
Urban	 	1.0	5.6	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		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	0.79	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	8.0	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	4.1	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	4.0	2.7	4.9	5.2	26.7	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	9/
Bono	0.5	9.0	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	8.0	3.6	4. r	5.7	51.8	33.7	0.0	100.0	85.6	0.8	64.1	33.4	1.7	0.0	100.0	194	3.5	189
5:	4.1	7.7	2.5	13.3	20.7	24.9	0.3	0.001	/2./	4.1	97.0	32.1	3.9	0.0	100.0	123	3.4	121
Northern	3.4	4. ₁	ω. Θ. (7.9	53.1	27.7	0.0	100.0	80.8	3.4	49.3	42.7	4 ·	0.2	100.0	395	9.0 0.0	382
Savannan	9. 9.	2.9		α.	1.09	19.4	0.8	0.001	79.5	9.4 9.	24.7	35.8	0.4	9.0	100.0	ဌ	3.6	30.
North East	4.3	1.5	6.4	2.0	54.9	28.7	9.0	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	6.69	25.7	3.1	0.3	100.0	191	3.1	189
Upper West	9.0	0.0	2.3	2.1	62.0	32.9	0.2	100.0	94.8	9.0	70.3	26.9	2.0	0.2	100.0	105	3.2	104 4
Education	•			1 1	c C		(0	0			0		(0	0	1	i
No education	4.8	0.4	4.2	7.5	53.8		0.2	100.0	80.8	3.4	55.4	36.8	4.2	0.2	100.0	7.28	3.7	407
Primary	2.3	2.7	2.5	5.9	53.3		0.2	100.0	84.8	2.3	56.1	36.5	5.1	0.0	100.0	542	3.7	529
Secondary More than secondary	7.7). 0	 	5.5	47.9 30.3	41.9 57.5	0.0	0.001	8.68 8.98 8.98	7.7	63.0	31.9 7.15	5.5 5.5	- 0	100.0	1,898	3.5 0.5	1,8/5
s management	5	25	2	5	9		3	2		5		2	2	2	2	20	i	10

Continued...

Table 9.2—Continued																		
			Numk	Number of ANC visits	visits					Number of	months pre	Number of months pregnant at time of first ANC visit	ne of first A	NC visit			Median months pregnant at first	
Background characteristic	None	-	2	က	4-7	8+	Don't know	Total	4+ ANC a	No antenatal care	4>	9-4	7+	Don't know	Total	Number to women	visit (for those with ANC)	Number of women with ANC
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	9.0	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	869
Fourth	1.6	0.5	9.0	2.9	47.7	46.9	0.0	100.0	94.5	1.6	8.99	28.6	3.0	0.0	100.0	631	3.3	621
Highest	0.0	0.5	2.2	9.4	35.5	61.6	0.0	100.0	97.0	0.0	77.5	20.9	1.5	0.0	100.0	629	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	THS									
Total	8.9	0.0	8.2	5.8	27.79	19.5	0.0	100.0	77.1	8.9	52.5	37.4	1.2	0.0	100.0	22	3.5	52
							LIVE BIR	THS AND S	LIVE BIRTHS AND STILLBIRTHS $^{\mathrm{2}}$	S^2								
Total	1.9	1.7	3.4	5.3	49.2	38.4	0.1	100.0	9.78	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.

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 9.3.1 Components of antenatal care among women receiving ANC

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

		percen	ntage who received specific services during ANC from a health care provider:	percentage who received specific services during ANC from a health care provider:	3 from a health care pro	ovider:		with ANC for their
Background characteristic	Blood pressure measured	Urine sample taken	Blood sample taken	Baby's heartbeat checked	Counselled about maternal diet	Counselled about breastfeeding	Asked about vaginal bleeding	most recent live birth and/or stillbirth in the last 2 years
				LIVE BIRTHS				
Age at birth								
×20	8.26	97.4	996	1.66	92.4	85.1	20.9	344
20–34	97.9	99.2	99.1	£.66	93.9	89.3	6.08	2.406
35–49	98.1	98.4	98.3	98.9	95.2	90.4	86.8	629
Birth order 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	2.06	86.9	740
+9	98.7	2.76	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	0.66	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	6.96	99.5	99.2	100.0	92.6	84.1	79.3	353
Greater Accra	97.9	99.1	99.3	8.66	8.86	94.9	87.8	392
Volta	100.0	100.0	99.4	99.5	92.6	97.3	81.2	129
Eastern	92.6	100.0	100.0	98.8	98.3	96.1	86.8	246
Ashanti	6.96	99.3	99.3	99.4	91.5	80.9	65.8	631
Western North	98.6	9.66	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	92
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
Ē	99.2	99.3	99.3	99.4	95.4	97.6	82.7	121
Northern	95.8	92.6	95.3	7.76	90.4	86.5	80.3	382
Savannah	7.76	98.0	95.7	98.2	92.6	83.3	7.77	100
North East	98.4	94.9	6.96	97.8	6.06	72.1	72.5	108
Upper East	8.66	98.3	98.5	8.66	7.76	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	0.76	98.0	92.0	86.0	82.1	704
Primary	97.5	98.6	98.7	99.1	94.7	89.0	29.6	529
Secondary	97.7	99.3	99.4	99.5	94.3	89.3	80.2	1,875
More than secondary	6.66	6.66	98.5	100.0	95.8	94.7	9.98	321

Continued...

Table 9.3.1—Continued								
		Among women w percen	ho received antenatal tage who received spe	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:	nt live birth or stillbirth in C from a health care pr	ithe last 2 years, ovider:		Number of women with ANC for their
Background characteristic	Blood pressure measured	Urine sample taken	Blood sample taken	Baby's heartbeat checked	Counselled about maternal diet	Counselled about breastfeeding	Asked about vaginal bleeding	most recent live birth and/or stillbirth in the last 2 years
Wealth quintile								
Lowest	98.4	97.4	97.2	98.8	91.5	85.2	80.6	821
Second	97.3	98.6	98.3	98.9	92.8	87.9	76.5	711
Middle	97.4	99.3	9.66	99.5	94.8	89.6	82.8	869
Fourth	97.8	9.66	99.5	99.1	95.4	92.0	82.2	621
Highest	98.8	6.66	99.3	100.0	2.96	92.4	84.3	629
Total	97.9	98.8	98.7	99.2	94.0	89.1	81.1	3,429
				STILLBIRTHS				
Total	6.76	98.6	95.4	94.3	88.0	62.6	74.1	52
			LIVE BI	LIVE BIRTHS AND STILLBIRTHS ²	4S ²			
Total	6.76	98.8	98.6	99.1	63.9	88.7	81.0	3,466

Note: The denominator for this table includes all women with a birth in the 2 years preceding the survey who received ANC for that birth. 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 9.3.2 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 stillbirth, according to background characteristics, Ghana DHS 2022

		Among women w	who received antenatal stage who received spe	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.	It live birth or stillbirth in C from a health care pro	the last 2 years, vider:		Number of women
Background characteristic	Blood pressure measured	Urine sample taken	Blood sample taken	Baby's heartbeat checked	Counselled about maternal diet	Counselled about breastfeeding	Asked about vaginal bleeding	stillbirth in the last
				LIVE BIRTHS				
Age at birth	0.96	95.6	94.9	87.2	2.06	83.6	9.69	351
20–34	96.2	97.4	97.4	92.6	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	i d	1	1	i d	, ,	1	i	
1 2_3	96.9 95.8	97.6	97.7	98.3 08.0	92.6	84.7	73.1 81.6	1,016
4-5 4-5	95.8	96.5	96.1	96.3	92.7 92.8	88.3 88.3	84.7	760
+9	95.7	94.8	94.5	92.6	89.9	86.3	80.7	428
Residence Urban	1,26	6.26	186	186	o c c	010	20 72	1.623
Rural	95.4	96.3	0.96	96.8	91.0	84.4	78.0	1,868
Region		1 1	1			1	0	0
Western	8.4.0	7.00	7.00	ο.4.ο. ο.ο.ο.	o. 19	90.7	80.7	208
Central Greater Acers	95.8	98.3	98.3	80.00	9. 5. 0.	83.1	78.3	357
Volta	2.66	0.66	98.7	98.7	0.46 0.40	96.5	- 90 - 90 - 90 - 90	130
Eastern	97.6	100.0	100.0	98.8	98.3	96.1	86.8	246
Ashanti	6.96	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	8.06	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 Oti	99.2	99.2	99.2	99.2	91.5 04.1	90.5	85.4 4.08	191
Northern	92.6	92.6	92.0	94.4	87.3	93.6	27.6	395
Savannah	93.0	93.2	91.0	93.4	81.5	79.2	73.9	105
North East	94.2	8.06	92.7	93.6	87.0	68.9	69.4	112
Upper East	98.8	97.3	97.5	98.8	2.96	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	23.66	23.66	87.8	99.3	95.1	94.0	86.0	323

Continued...

Table 9.3.2—Continued								
		Among women w	who received antenatal	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:	nt live birth or stillbirth in C from a health care pro	the last 2 years, ovider:		Number of women with a live birth and/or
Background characteristic	Blood pressure measured	Urine sample taken	Blood sample taken	Baby's heartbeat checked	Counselled about maternal diet	Counselled about breastfeeding	Asked about vaginal bleeding	stillbirth in the last 2 years
Wealth quintile								
Lowest	94.7	93.7	93.6	95.1	88.1	82.0	77.6	853
Second	95.7	6.96	2.96	97.2	91.2	86.3	75.1	723
Middle	96.3	98.1	98.5	98.4	93.7	88.6	81.8	705
Fourth	96.2	98.0	97.9	97.5	93.9	90.5	80.9	631
Highest	98.8	6.66	99.3	100.0	2.96	92.4	84.3	629
Total	96.2	97.1	96.9	97.4	92.3	87.5	79.6	3,491
				STILLBIRTHS				
Total	89.2	89.9	86.9	85.9	80.2	57.0	67.5	57
			LIVE BI	LIVE BIRTHS AND STILLBIRTHS ²	4S²			
Total	96.1	0.76	8.96	97.2	92.1	87.0	79.5	3,534

Note: The denominator for this table includes all women with a birth in the 2 years preceding the survey, whether or not they received ANC for that birth. 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 9.4 Deworming and iron-containing supplementation during pregnancy

Among women age 15-49 with a live birth or stillbirth in the 2 years preceding the survey, percentages who took deworming medication and any iron-containing supplements during the pregnancy of the most recent live birth or stillbirth, and percent distribution of the number of days during which women age 15-49 with a live birth or stillbirth in the 2 years preceding the survey took iron-containing supplements during the pregnancy for the most recent live birth or stillbirth, according to background characteristics, Ghana DHS 2022

	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:	with a live birth the last 2 years, ho during the most recent live tillbirth:	Number of day	of days during which women with a live birth and/or stillbirth in the last 2 years took iron-containing supplements¹ during the pregnancy for the most recent live birth or stillbirth:	nen with a live birth a	s during which women with a live birth and/or stillbirth in the last 2 years took supplements¹ during the pregnancy for the most recent live birth or stillbirth:	e last 2 years took e birth or stillbirth:	iron-containing		Number of women
Background	Took deworming	Took any iron- containing	occ N	Q V	8-09	90–179	180+	Don't know	T etoT	with a live birth and/or stillbirth in the last 2 years
					LIVE BIRTHS		2		5	ווס ומסג א למוס
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										
_	59.3	93.8	6.2	21.3	8.9	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	6.09	6.06	9.1	19.1	10.2	32.5	27.1	2.0	100.0	160
+9	55.1	89.2	10.8	24.9	12.2	30.5	19.6	2.1	100.0	428
Residence										
Urban	8.09	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	29.7	96.4	3.6	15.1	7.7	29.3	40.8	3.4	100.0	410
Volta	73.5	97.3	2.7	0.6	3.2	34.1	44.5	6.5	100.0	130
Eastern	81.4	95.9	4 ·	25.9	11.3	31.3	24.8	2.6	100.0	246
Ashanti	55.1	94.2	5. 5. 8. 0.	23.3	10.0	34.2	26.2	0.5	100.0	631
VVestern North	0.63	88.7	Σ. ζ	8.75 8.00	တ္ ဇ	0.420	12.4	4.0	100.0	90
Bobo	53.9	0 60 0 60 0 60	4 t 7 t	23.7	0.0	33.5	24.7	t 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
įĘ	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	8.6	28.9	18.3	0.8	100.0	395
Savannah	43.2	81.2	18.8	37.4	9.2	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	9.0	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	%: %: ·	100.0	1,898
More than secondary	0.70	96.4	3.0	19.2	0.7	18.8	9.00	F	0.001	323

Continued...

Table 9.4—Continued										
	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:	with a live birth the last 2 years, ho during the most recent live stillbirth:	Number of day	's during which wor supplements¹ duri	men with a live birth : ing the pregnancy fo	of days during which women with a live birth and/or stillbirth in the last 2 years took iron-containing supplements¹ during the pregnancy for the most recent live birth or stillbirth:	last 2 years took i	ron-containing		Nimber of women
Background characteristic	Took deworming medication	Took any iron- containing supplements ¹	None	09>	68-09	90–179	180+	Don't know	Total	with a live birth and/or stillbirth in the last 2 years
Wealth quintile	000	7	ç	c c	C o	000	7 0	,	0	0.90
Lowest	52.5	04.0	5.3	50.9		30.0	ø. /-	0.0	100.0	303
Second	54.6	91.3	8.7	22.7	4.8	31.4	26.6	2.7	100.0	723
Middle	63.0	94.4	9.6	22.4	9.1	34.1	27.3	1.5	100.0	705
Fourth	65.0	94.9	5.1	16.3	8.6	31.5	34.6	2.8	100.0	631
Highest	62.3	92.6	4.4	16.3	5.6	27.5	45.2	1.0	100.0	629
Total	58.9	92.3	7.7	21.9	8.4	31.1	29.1	1.7	100.0	3,491
				S	STILLBIRTHS					
Total	43.7	82.4	17.6	36.7	7.0	16.4	21.7	9.0	100.0	22
				LIVE BIRTH	LIVE BIRTHS AND STILLBIRTHS ³	IS ³				
Total	28.7	92.2	7.8	22.1	8.5	30.9	29.1	1.7	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 Iron tablets and iron syrup

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.

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

Percentage who obtained iron-containing supplements¹ from each source: Live births and Source Live births Stillbirths stillbirths2 **Public sector** 91.7 85.5 85.3 Government hospital 39.3 26.8 39.2 Government polyclinic 6.0 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) 0.6 1.1 1.1 Private medical sector (non-NGO) 10.5 7.1 10.4 Private hospital/clinic 6.9 Private clinic 2.6 0.0 2.6 Maternity home 8.0 5.6 0.8 Community health service (mobile 0.2 0.0 0.2 clinic) Other private medical sector 0.1 0.0 0.1 Private medical sector (NGO) 0.1 0.0 0.1 NGO hospital/clinic 0.1 0.0 0.1 Other private sector 4.6 1.2 4.5 4.3 4.2 Shop 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 tetanus¹	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 70.2	760 428
6+	30.4	70.3	420
Residence			
Urban	54.7	79.2	1,623
Rural	41.5	69.2	1,868
Region			
Western	49.6	72.9	208
Central Greater Accra	51.2	80.0	357
Volta	51.3 48.4	78.4 83.3	410 130
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 North East	30.1 26.6	43.1 45.7	105 112
Upper East	31.6	45.7 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

		Health facility					Percentage	
Background	Public		NGO medical				delivered in a	Number of
characteristic	sector	medical sector	sector	Home	Other	Total	health facility	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
			STILI	BIRTHS				
Total	79.2	13.9	0.0	6.9	0.0	100.0	93.1	57
			LIVE BIRTHS A					<u> </u>
Total	75.8	10.3	0.3	12.8	0.8	100.0	86.4	3,695
i otal	1 3.0	10.3	0.0	12.0	0.0	100.0	00.4	5,035

Note: Stillbirths are foetal deaths in pregnancies lasting 28 or more weeks. When pregnancy duration is reported in months, stillbirths are foetal deaths NGO = nongovernmental organisation

Birth order refers to the order of the birth among the respondent's live births.

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 C- section	Number of births
LIVE BI	RTHS	
Mother's age at birth		
<20	14.6	358
20–34 35–49	20.7 24.2	2,561
35–49	24.2	718
Birth order ¹		
1	24.3	1,054
2–3	21.1	1,338
4–5 6+	19.3 14.1	798 447
	14.1	447
Antenatal care visits ²	2.5	60
None 1–3	3.5 9.4	62 362
1–3 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 Ashanti	25.5 23.1	252 666
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 Upper West	20.7 17.8	196 109
	17.0	109
Mother's education	10.0	761
No education Primary	10.0 19.3	761 562
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
STILLB	IRTHS	
Total	20.2	57
LIVE BIRTHS AN		
		3 605
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.

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

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 most recent live births in the 2 years preceding the survey, percentage with skin-to-skin contact immediately after birth, according to background characteristics, Ghana DHS 2022

		Pers	Person providing assistance during delivery	stance during deli	ivery					Among most re	Among most recent live births
Background	ı	:	Traditional birth	Community health worker/		:		Percentage delivered by a	J. <e< th=""><th>Percentage with skin-to-skin contact immediately</th><th>Number of live</th></e<>	Percentage with skin-to-skin contact immediately	Number of live
characteristic	Doctor	Nurse/midwife	attendant	volunteer	Relative/other	No one	Total	skilled provider	stillbirths	after birth	births
					LIVE BIRTHS						
Mother's age at birth											
<20	11.3	77.1	7.6	0.7	2.0	4.1	100.0	88.3	358	9.09	351
20-34	18.7	2.69	9.9	0.4	2.1	2.4	100.0	88.4	2,561	61.1	2,449
35-49	23.0	61.2	8.8	9.0	3.7	2.7	100.0	84.2	718	54.6	692
Birth order ²											
_	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	260
+9	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	6.0	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	*	က	*	က
Place of delivery											
Health facility	21.8	77.8	0.1	0.2	0.1	0.1	100.0	9.66	3,137	62.9	3,004
Public sector	19.8	79.7	0.1	0.2	0.1	0.1	100.0	99.2	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	*	о	*	6
Elsewhere	0.5	11.6	51.7	2.1	17.2	16.9	100.0	12.1	200	22.1	487
Residence											
Urban	25.2	70.1	2.0	0.3	1. 6	1.3	100.0	95.3	1,700	60.6	1,623
Kural	13.2	67.5	11.7	0.6	3.6	3.3	100.0	80.8	1,938	59.0	1,868

Background databasistic Doctor Nursemitodile Traditional birth Community Appetentiage Number of life Community Region 15.9 60.0 11.0 0.4 0.5 2.2 3.1 100.0 85.0 360-No.0 Messer 15.9 60.0 11.0 0.4 0.5 2.2 3.1 100.0 85.0 36.0 General Actrial 15.9 60.0 11.0 0.4 0.5 2.2 3.1 100.0 85.0 36.0 36.0 36.0 4.1 0.0 0.0 2.2 3.1 100.0 93.5 buffer of provided in a silibritis and of contract of con			Pers	Person providing assi	stance during delivery	very					Among most r	Among most recent live births
openal 128 74,0 7,4 0.5 2.2 3.1 1000 86.8 212 stear 15.9 68.0 11.0 1.0 1.6 0.0 1.0 1.0 1.6 2.7 1.0 3.0 <t< th=""><th>Background characteristic</th><th>Doctor</th><th>Nurse/midwife</th><th>Traditional birth</th><th>Community health worker/</th><th>Relative/other</th><th>No one</th><th>Total</th><th>Percentage delivered by a skilled provider¹</th><th>Number of live births and/or stillbirths</th><th>Percentage with skin-to-skin contact immediately after birth</th><th>Number of live births</th></t<>	Background characteristic	Doctor	Nurse/midwife	Traditional birth	Community health worker/	Relative/other	No one	Total	Percentage delivered by a skilled provider¹	Number of live births and/or stillbirths	Percentage with skin-to-skin contact immediately after birth	Number of live births
sericy 12.8 64.0 17.4 0.6 0.2 2.1 100.0 650.8 212 start Accras 25.5 68.0 13.4 10.0 16.0 10.0 10.0 650.8 39 start Accras 25.5 68.0 13.4 10.0 16.0 10.0 10.0 10.0 10.0 10.0 10.0	Region											
and the control of th	Western	12.8	74.0	7.4	7.	2.2	7	1000	868	212	63.3	208
ten Acrea 36.2 578 478 14 10 16 16 10 100 940 477 ten 25.5 68.0 4.1 10.0 16 10.0 100 940 477 ten 26.8 68.0 4.1 10.0 10.0 1.3 1000 943 125 anti occupant 14.0 75.3 14.1 0.0 11.3 19.0 1000 93.5 155 anti occupant 14.0 75.3 14.1 0.0 11.3 19.0 1000 93.5 155 ten 10.0 18.7 72.4 14.1 0.0 11.3 19.0 1000 93.5 155 ten 11.2 18.1 72.4 14.1 0.0 11.3 19.0 1000 93.5 155 ten 11.2 18.1 72.4 14.1 0.0 11.1 12.2 10.0 19.0 10.0 19.3 11.1 ten 11.2 18.1 17.2 19.8 10.0 17.3 11.3 10.0 10.0 10.0 17.2 11.1 ten 11.2 18.1 17.2 18.1 0.0 1.1 12.1 10.0 10.0 10.0 10.0 17.1 11.1 ten 11.2 18.1 17.2 18.1 17.2 18.1 17.2 19.1 1	Central	1. 1. 0. 1.0	0.00			2.0	2.7	100.0	0.50	280 086	75.0	357
are North Size	Celital Crooter Appro	6.5.9	03.0	5.5	t C	. .		100.0	0.00	200	2.03	5 5
tean 25.8 63.0 63.1 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	Gleater Acord	30.2	0.70	, é	0.0	0.0	0.0	0.00	0.4.0	126	00.0	0 6
antiful 2.88	Volta	20.0	0.00	4. c	0.0		5. 4 5. 6	00.0	0.00	2 5	00.0	130
amint 1.18 7.18 3.0 0.0 1.5 1.8 100.0 9.35 0.00 sear of the control of the cont	Eastern	20.8	03.0	o.0	9.0 0	0.5	D. 0	100.0	90.3	797	0.79	246
the state of the control of the cont	Ashanti	21.8	71.8	3.0	0.0	9.	ر - . 3	100.0	93.6	999	54.9	631
19.9 7.35 1.2 0.4 3.0 1.9 1000 91.3 117 118 11.5	Western North	14.0	75.3	4.1	0.0	1.3	5.4	100.0	89.3	101	73.3	96
oe 18.7 72.6 4.5 0.0 1.1 3.2 100.0 91.3 17.7 then 15.1 72.6 4.5 0.0 1.1 3.2 100.0 97.6 202 then 9.5 62.1 19.3 1.2 10.9 9.0 100.0 77.6 17.6 406 th East 7.8 77.3 11.8 0.1 3.7 6.0 100.0 72.0 111 err West 11.2 56.8 1.8 0.0 2.1 1.0 10.0 98.0 146 err West 16.1 7.7 3.7 3.1 0.2 1.3 100.0 91.7 109 err West 16.1 65.5 15.0 0.2 1.3 100.0 91.7 109 err West 16.0 67.5 9.0 1.1 3.4 5.4 100.0 91.7 109 education 16.0 67.5 9.0 1.1 3.4	Ahafo	19.9	73.5	1.2	9.0	3.0	1.9	100.0	93.4	81	57.2	77
them 95 6 22 102 101 101 101 101 101 101 101 101	Bono	18.7	72.6	4.5	0.0	1.1	3.2	100.0	91.3	117	67.0	113
them the set of the foliation of the set of	Bono East	15.1	72.4	3.6	0.0	5.8	3.0	100.0	87.6	202	63.2	191
them 95 62.1 19.3 0.7 5.5 2.9 100.0 71.6 406 amenh 1.2 77.3 11.8 0.1 2.7 6.0 100.0 72.0 111 Fee East 77.3 11.8 0.0 0.9 0.2 1.0 100.0 72.0 111 Fee East 11.1 76.6 0.9 0.9 0.9 0.2 100.0 98.0 111 eff set Calcation 6.7 6.5 15.0 0.4 5.4 5.1 100.0 91.7 109 education 8.7 6.5 15.0 0.4 5.4 5.4 100.0 91.7 109 education 8.7 6.0 0.0 0.0 0.0 0.0 91.7 100 91.7 109 and 9.3 6.0 0.0 0.0 0.0 0.0 0.0 93.1 100.0 93.1 40.0 ond 1.5 0.2	Ōŧi	10.1	60.1	8.7	1.2	10.9	9.0	100.0	70.3	128	53.4	123
annah 12,	Northern	9.2	62.1	19.3	0.7	5.5	2.9	100.0	71.6	406	45.7	395
th East To Table 11.8	Savannah	12.2	59.8	18.1	0.1	3.7	0.9	100.0	72.0	111	8.89	105
eart East 11.2 86.8 0.9 0.0 0.9 0.2 100.0 98.0 196 eart seducation 16.1 75.6 3.7 3.1 6.2 6.2 1.3 100.0 98.0 196 et's education 8.7 65.5 15.0 0.4 5.4 5.4 100.0 74.2 761 nary advantation 16.0 67.9 9.0 1.1 3.4 2.6 100.0 83.9 562 ondary 30.1 7.7 4.9 0.4 5.4 1.6 100.0 99.7 1.979 ondary 30.2 0.0 0.0 0.0 0.0 0.0 9.7 1.979 1.979 th quintile 9.8 63.0 17.3 0.4 5.5 3.9 100.0 98.2 749 1.979 ond 14.1 74.1 6.5 0.8 2.8 1.1 100.0 98.4 5.9 die 2.3 1.8	North East	7.8	77.3	11.8	0.0	2.1	1.0	100.0	85.2	116	78.7	112
er Seducation 16.1 75.6 3.7 3.1 0.2 1.3 100.0 91.7 109 er's education et's education 8.7 65.5 15.0 0.4 5.4 5.1 100.0 74.2 761 education 16.0 67.9 9.0 1.1 3.4 2.6 100.0 74.2 761 nary 20.1 71.7 4.9 0.4 1.4 1.6 100.0 91.7 1.979 ondary 20.1 17.1 4.9 0.4 1.4 1.6 100.0 91.7 1.979 th quintile 39.8 6.0 0.0 0.0 0.0 0.0 0.0 0.0 99.3 3.9 5.6 est 14.1 7.4.1 6.5 0.8 2.8 2.9 100.0 92.3 7.49 ond 15.0 7.2 6.5 0.8 2.8 3.1 100.0 97.1 3.638 inhest 37.4	Upper East	11.2	86.8	0.9	0.0	6.0	0.2	100.0	98.0	196	63.7	191
er's education 87 65.5 15.0 0.4 5.4 5.1 100.0 74.2 761 education 16.0 67.9 9.0 1.1 3.4 2.6 100.0 74.2 562 nary 20.1 71.7 4.9 0.4 1.4 1.6 100.0 91.7 1,979 e than secondary 39.3 60.0 0.0 0.0 0.3 1.0 92.7 1,979 eth quintile 9.8 63.0 17.3 0.4 5.5 3.9 100.0 99.3 3.6 est 15.0 72.7 5.5 0.8 2.8 3.1 100.0 87.7 739 not 23.9 72.9 1.8 0.2 0.3 1.1 100.0 98.4 595 nest 66.1 0.8 2.8 3.4 1.0 9.0 9.0 7.2 7.3 nest 66.1 0.8 0.8 2.4 2.4 10.0 </td <td>Upper West</td> <td>16.1</td> <td>75.6</td> <td>3.7</td> <td>3.1</td> <td>0.2</td> <td>1.3</td> <td>100.0</td> <td>91.7</td> <td>109</td> <td>7.97</td> <td>105</td>	Upper West	16.1	75.6	3.7	3.1	0.2	1.3	100.0	91.7	109	7.97	105
education 8.7 66.5 15.0 0.4 5.4 5.1 100.0 74.2 761 nary and any and	Mother's education											
nary 16.0 67.9 9.0 1.1 3.4 2.6 100.0 83.9 562 ondary 20.1 71.7 4.9 0.4 1.4 1.6 100.0 83.9 562 et than secondary 39.3 60.0 0.0 0.0 0.0 0.2 0.3 1.6 2.9 100.0 91.7 1979 et than secondary 39.9 63.0 17.3 0.4 5.5 3.9 100.0 91.7 1979 et than secondary 39.9 63.0 17.3 0.4 5.5 3.9 100.0 99.3 3.6 ord 14.1 74.1 6.5 0.8 1.6 2.9 100.0 87.7 739 dle 72.9 1.8 6.5 0.8 2.8 3.1 100.0 87.6 5.8 nest 18.8 68.7 7.2 0.5 2.4 2.4 100.0 87.6 3.638 nest 18.8	No education	8.7	65.5	15.0	0.4	5.4	5.1	100.0	74.2	761	54.9	728
th quintile 20.1 71.7 4.9 0.4 1.4 1.6 100.0 91.7 1,979 th quintile est 9.8 60.0 0.0 0.0 0.3 1.4 1.6 1.0 91.3 1,979 th quintile est 9.8 63.0 17.3 0.4 5.5 3.9 100.0 72.9 896 est 14.1 74.1 6.5 0.8 2.8 3.1 100.0 88.2 749 cond 15.0 72.9 1.8 0.2 0.3 1.1 100.0 96.8 886 dele 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 hest 66.1 0.8 0.0 0.0 0.0 1.0 97.0 3,638 hest 68.7 7.2 0.5 2.4 2.4 100.0 87.6 3,638 and 39.9 53.2 5.9 0.0 0.0 0.0 0.0	Primary	16.0	62.9	0.6		3.4	2.6	100.0	83.9	562	57.4	542
th quintile rest 9.8 60.0 0.0 0.0 0.3 0.4 100.0 99.3 336 th quintile rest 9.8 63.0 17.3 0.4 5.5 3.9 100.0 72.9 896 rest ond 14.1 74.1 6.5 0.8 1.6 2.9 100.0 88.2 749 rest ond 14.1 72.7 5.5 0.8 2.8 3.1 100.0 87.7 730 delenth 23.9 72.9 1.8 0.2 0.3 1.1 100.0 96.8 688 dest 66.7 7.2 0.5 2.4 2.4 100.0 97.8 595 18.8 68.7 7.2 0.5 2.4 2.4 100.0 87.6 3.638 18.8 68.7 5.9 0.0 0.0 10.0 90.0 97.1 57 18.8 5.3 5.3 5.9 0.0 0.0 0.0 10.0 90.0	Secondary	20.1	71.7	4.9	0.4	1.4	1.6	100.0	91.7	1,979	62.9	1.898
th quintile lest 9.8 63.0 17.3 0.4 5.5 3.9 100.0 72.9 896 rest ond 14.1 74.1 6.5 0.8 1.6 2.9 100.0 88.2 749 dele cond 15.0 72.7 5.5 0.8 2.8 3.1 100.0 88.2 739 dele cond 15.9 72.9 1.8 0.2 0.3 1.1 100.0 96.8 688 nest 18.8 68.7 7.2 0.5 2.4 100.0 87.6 3,638 nest 39.9 53.2 5.9 0.0 0.0 100.0 87.6 3,638 nest 39.9 53.2 5.9 0.0 0.0 100.0 93.1 57	More than secondary	39.3	0.09	0.0	0.0	0.3	0.4	100.0	99.3	336	56.4	323
rest 9.8 63.0 17.3 0.4 5.5 3.9 100.0 72.9 896 ond 14.1 74.1 6.5 0.8 1.6 2.9 100.0 88.2 749 del 15.0 0.8 0.8 2.8 3.1 100.0 88.2 749 del 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 hest 68.7 7.2 0.6 2.4 100.0 96.8 668 18.8 68.7 7.2 0.5 2.4 100.0 87.6 3,638 18.8 68.7 7.2 0.5 2.4 100.0 87.6 3,638 18.8 68.7 7.2 6.5 0.0 0.0 10.0 96.8 688 18.8 68.7 7.2 5.9 0.0 0.0 10.0 97.1 57.2 18.8 53.2 5.9 0.0 0.0 10.0	Wealth quintile											
ond 14.1 74.1 6.5 0.8 1.6 2.9 10.0 88.2 749 dle 15.0 72.7 5.5 0.8 2.8 3.1 100.0 87.7 730 dle 23.9 72.9 1.8 0.2 0.3 1.1 100.0 87.7 730 rth 23.9 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 hest 66.1 0.8 0.0 0.8 0.0 100.0 98.4 595 STILLBIRTHS S	Lowest	9.8	63.0	17.3	0.4	5.5	3.9	100.0	72.9	968	53.1	853
dle 15.0 72.7 5.5 0.8 2.8 3.1 100.0 87.7 730 rth 23.9 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 rth 37.4 61.1 0.8 0.2 0.3 1.1 100.0 96.8 668 hest 68.7 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 rth 18.8 68.7 72.9 0.5 2.4 100.0 87.6 3,638 STILLBIRTHS STILLBIRTHS STILLBIRTHS LIVE BIRTHS AND STILLBIRTHS	Second	14.1	74.1	6.5	0.8	1.6	2.9	100.0	88.2	749	61.6	723
rth 23.9 72.9 1.8 0.2 0.3 1.1 100.0 96.8 668 help fight figh	Middle	15.0	72.7	5.5	0.8	2.8	3.1	100.0	87.7	730	64.4	202
hest 37.4 61.1 0.8 0.0 0.8 0.0 100.0 98.4 595 18.8 68.7 7.2 0.5 2.4 100.0 87.6 3,638 STILLBIRTHS STILLBIRTHS LIVE BIRTHS AND STILLBIRTHS LIVE BIRTHS AND STILLBIRTHS STAND STILLBIRTHS STAND STAND STILLBIRTHS	Fourth	23.9	72.9	1.8	0.2	0.3	1.	100.0	8.96	899	6.65	631
18.8 68.7 7.2 0.5 2.4 10.0 87.6 3,638 STILLBIRTHS 39.9 53.2 5.9 0.0 0.0 10.0 93.1 57 LIVE BIRTHS AND STILLBIRTHS	Highest	37.4	61.1	0.8	0.0	0.8	0.0	100.0	98.4	262	61.5	629
STILLBIRTHS 39.9 53.2 5.9 0.0 0.0 1.0 100.0 93.1 57 LIVE BIRTHS AND STILLBIRTHS	Total	18.8	68.7	7.2	0.5	2.4	2.4	100.0	87.6	3,638	59.8	3,491
39.9 53.2 5.9 0.0 0.0 1.0 100.0 93.1 57 EVILLE BIRTHS AND STILLBIRTHS						STILLBIRTHS						
LIVE BIRTHS AND STILLBIRTHS	Total	39.9	53.2	5.9	0.0	0.0	1.0	100.0	93.1	22	na	na
					LIVE BIR	THS AND STILLBIF	THS					
	- -			1	ı		,	0 0 0 0	1			
						i	į	>>>	5.50	0,00	ַ	

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation. 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.

na = not applicable
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 Includes only the most recent birth in the 2 years preceding the survey

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 E	BIRTHS				
Vaginal birth Caesarean section	18.8 3.3	19.2 1.6	12.3 1.0	39.1 11.6	10.5 82.5	0.2 0.0	100.0 100.0	2,308 696
			STILLE	BIRTHS				
Vaginal birth Caesarean section	(18.1)	(4.4)	(5.6)	(36.8)	(35.1)	(0.0)	100.0 100.0	42 12
		LI	VE BIRTHS AN	ID STILLBIR	THS ¹			
Vaginal birth Caesarean section	18.9 3.3	19.0 1.5	12.2 1.0	39.0 11.5	10.8 82.7	0.2 0.0	100.0 100.0	2,338 705

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

Table 9.11 Timing 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 of the mother's first postnatal check for the most recent live birth or stillbirth in the 2 years preceding the survey who received a postnatal check during the first 2 days after giving birth, according to background characteristics, Ghana DHS 2022

		Time aft	er delivery of moth	Time after delivery of mother's first postnatal check ¹	check1				Percentage of women with a	
Background characteristic	Less than 4 hours	4-23 hours	1–2 days	3–6 days	7–41 days	Don't know/ missing	No postnatal check²	Total	postnatal check during the first 2 days after birth ¹	Number of women
				LIVE	LIVE BIRTHS					
Age at birth										
<20	73.2	8.2	4.0	1.6	£.;	6 .	10.1	100.0	85.4	351
20–34	73.1	10.0	8.4	1.2	1.5	1.5	7.8	100.0	88.0	2,449
35–49	72.2	9.4	4.2	1.4	2.0	6:0	10.0	100.0	82.8	692
Birth order ³										
-	74.7	9.7	4.2	0.0	1.2	2.1	7.2	100.0	98.6	1,016
2-3	74.3	11.2	4.5	1.4	0.8	0.7	7.1	100.0	90.1	1,287
4-5	71.5	8.5	4.9	1.3	2.8	2.0	8.9	100.0	85.0	092
+9	67.0	7.4	5.5	1.7	2.3	1 .	15.0	100.0	79.8	428
Place of delivery	7 0 7	, 9	7 %	-	7.0	ر م	o	000	o C C	200
Elsewhere	33.1	0.4	10.2	3.7	6.4	9.0	42.7	100.0	47.2	487
Residence										
Urban	77.4	11.1	3.8	1.1	0.4	1.3	4.9	100.0	92.4	1,623
Rural	0.69	8.5	5.3	1.4	2.5	1.6	11.6	100.0	82.9	1,868
Region										
Western	73.0	10.7	3.6	0.7	1.9	5.4	4.6	100.0	87.3	208
Central	66.5	12.9	6.4	4.6	2.7	ر. دن ،	9.8	100.0	85.8	357
Greater Accra	81.0	70.5			0.0	- 0	7.0 9.8 9.8	100.0	95.4 4.00	014
Volta	20.7	5.0			0 C	0.0	ې 5 د	100.0	08.0 08.0	246
Ashanti	76.2	. w	3.5	0.1	2.5	2.3	7.7	100.0	87.9	631
Western North	70.8	11.5	5.1	0.0	1.2	4.1	10.0	100.0	87.4	96
Ahafo	64.9	7.2	16.0	5.1	2.5	0.5	3.8	100.0	88.2	77
Bono	83.2	7.8	3.1	1.3	0.0	0.0	4.6	100.0	94.1	113
Bono East	6.69	8.1	7.5	0.8	0.8	9.0	12.3	100.0	85.6	191
Ōŧi	63.5	11.4	1.9	2.5	4.5	1.6	14.6	100.0	76.8	123
Northern	26.0	10.6	6.1	3.7	2.7	0.2	20.7	100.0	72.7	395
Savannah	71.6	3.7	6.2	0.7	6.0	4.9	12.0	100.0	81.5	105
North East	69.2	10.1	3.9	1.0	0.5	6 6	13.6	100.0	83.2	112
Upper East	89.5	6.4	0.0	0.0	0.4	6.0	1.9	100.0	7.96	191
Upper West	78.7	10.1	2.2	0.3	0.8	0.5	7.3	100.0	91.0	105
Education	;	i		!	,				i	į
No education	66.3	7.2	4 z	1.7	2.2	6. 6.	16.2	100.0	78.3	728
Fillialy	7.4.1		4. <i>2</i>		- 6		. 0	100.0	90.4	242
Secondary More than secondary	74.5 79.3	11.9	4.6 3.7	- 6.0 0.0	7. E. O. 8. E. O. B. E.	0.1	ა წ. გ. წ.	100.0	89.7 94.9	1,898 323
										7
										Continued

Table 9.11—Continued										
		Time after		delivery of mother's first postnatal check ¹	check ¹				Percentage of women with a	
Background characteristic	Less than 4 hours	4-23 hours	1–2 days	3–6 days	7–41 days	Don't know/ missing	No postnatal check ²	Total	postnatal check during the first 2 days after birth¹	Number of women
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	6.0	1.3	7.3	100.0	88.9	202
Fourth	78.1	10.1	2.6	6.0	1.9	2.5	3.9	100.0	8.06	631
Highest	9.62	12.0	4.1	6.0	0.5	0.7	2.2	100.0	2.36	629
Total	72.9	9.7	4.6	1.3	1.5	1.4	8.5	100.0	87.3	3,491
				STILLE	STILLBIRTHS					
Total	2.89	6.1	3.8	0.0	2.2	2.1	17.1	100.0	78.6	22
				LIVE BIRTHS AN	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.

Includes women who received a check from a doctor, nurse/midwife, auxiliary midwife, community health worker/fieldworker, or traditional birth attendant

Includes women who received a check after 41 days

Birth order refers to the order of the birth among the respondent's live births.

Birth order refers to the order of the 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

	Type of health pr	ovider of mother's fi	rst postnatal check	No postnatal check during the		
Background characteristic	Doctor/nurse/ midwife	Traditional birth attendant	Community health worker/volunteer	first 2 days after birth	Total	Number of women
		1	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
	20.0	25.1		02.0	. 55.5	101
Residence	00.0	4.0	0.2	7.6	100.0	1 600
Urban Rural	90.8	1.3 5.6	0.3	7.6	100.0 100.0	1,623
	77.0	0.0	0.3	17.1	100.0	1,868
Region	a - ·		a -	40 =		
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 79.8	15.1 3.5	0.1 0.0	18.5	100.0	105 112
North East	79.8 96.1	3.5 0.7	0.0	16.8 3.3	100.0 100.0	112 191
Upper East Upper West	87.0	1.9	2.1	9.0	100.0	105
• •	07.0	1.5	2.1	3.0	100.0	103
Education				o	4000	
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
Гotal	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 BIRT	HS AND STILLBIRTH	IS ²		

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

		hom during the first birth, any health o	Percentage with all three checks performed in the				
Background characteristic	Measured blood pressure	Discussed vaginal bleeding	Discussed family planning		Number of women		
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 Nartharra	70.6	69.4	41.0	39.6	123		
Northern Savannah	56.7 64.9	51.8 61.2	45.2 44.5	40.3 39.9	395 105		
North East	65.3	51.5	44.5 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		
10141		STILLBIRTHS	+3.0	77.0	0,701		
Total	66.0	59.7	41.6	37.4	57		
1000	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.

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 9.14 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

									Percentage of births with a postnatal	
	Time after delivery of newborn's first postnatal check ¹								check during the	
Background characteristic	Less than 1 hour	1–3 hours	4–23 hours	1–2 days	3–6 days	Don't know	No postnatal check ²	Total	first 2 days after birth ¹	Number of births
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	6.1 3.7	1.1	0.6	9.8	100.0	88.5	130 246
Eastern Ashanti	46.0 44.2	38.5 30.9	7.2	3.7 3.5	0.0 1.1	0.5 2.4	5.2 10.7	100.0 100.0	94.3 85.8	246 631
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 1.3	2.9	6.9	100.0	90.0	631
Highest	30.7	49.4	8.2	4.5		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

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.

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 Mother's age at birth <20 20–34	Doctor/nurse/ midwife	Traditional birth attendant	Community health	check during the first 2 days			
<20	92.6		worker/volunteer	after birth	Total	Number of births	
	92.6						
20_34	02.0	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	

¹ Birth order refers to the order of the birth among the respondent's live births.

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

				births for whom a s during the first					
Background characteristic	Cord examined	Temperature measured	Mother told how to recognise if the baby needs immediate medical attention	Mother counselled on breastfeeding	Mother observed breastfeeding	Mother both counselled on breastfeeding and observed breastfeeding	Weighed ¹	Percentage with five ² signal functions performed during the first 2 days after birth	Number of births
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	00.5	00.7	74.6	81.0	77.5	70.0	90.4	00.4	4.000
Rural	80.5 75.3	80.7 71.6	67.0	71.4	66.8	76.8 65.4	90.4 75.1	66.1 54.6	1,623
Ruidi	15.5	71.0	07.0	71.4	00.0	03.4	75.1	54.0	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	112 191
Upper East	76.9 61.8	77.5 62.8	75.7 55.6	79.1 61.9	76.9 58.5	76.9 58.5	88.9 86.4	65.1 48.8	105
Upper West	01.0	02.0	33.0	01.9	30.3	30.3	00.4	40.0	103
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

	Perc		ived a postnatal of 2 days after birth		
Background characteristic	Mother	Newborn	Both mother and newborn	Neither mother nor newborn received a postnatal check ²	Number of births
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 Western North	87.9 87.4	85.8	81.8	8.1	631
Ahafo	88.2	84.9 83.8	82.5 82.4	10.1 10.4	96 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

	Among men with a your age	ngest child	Among men a a youngest ch whom the mo antenatal	ild age 0–2 for other had any	Among men with a youn age	gest child	Among men whose you age 0–2 v in a healt	ngest child was born
Background characteristic	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
Decidence								
Residence	05.4	750	50.0	700	05.0	750	00.0	700
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
•	00.0	200	01.2		01.0	200	7 1.0	220
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
101a1 13-39	95.2	1,034	51.7	000,1	65.9	1,034	00.∠	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 30–49 30–34 35–39 40–44 45–49	13.7	2.8	7,716
	23.3	7.3	7,298
	23.6	6.9	2,252
	24.5	7.1	2,059
	21.1	7.1	1,675
	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	44.0	0.0	4.005
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 Married or living together Divorced/separated/widowed	13.9	2.2	5,268
	20.9	6.4	8,205
	20.1	6.7	1,542
Employment (last 12 months) Not employed Employed for cash Employed not for cash	11.4	2.2	3,273
	22.8	6.4	9,055
	12.1	3.5	2,686
Residence Urban Rural	23.0 12.3	6.5 2.9	8,557 6,457
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	22.5	2.9	955
	17.8	3.9	1,703
	24.4	5.8	2,327
	18.4	6.4	713
	22.2	6.3	1,220
	18.8	5.7	2,928
	13.9	3.7	411
	17.4	5.0	317
	19.1	4.3	567
	13.7	3.8	676
	8.6	3.1	403
	15.4	6.7	1,149
	6.9	1.6	319
	17.7	4.0	290
	13.3	3.9	640
	10.0	3.7	398
Education No education Primary Secondary More than secondary	9.1	3.1	2,411
	11.4	3.3	2,071
	17.6	3.8	8,999
	47.3	16.6	1,533
Wealth quintile Lowest Second Middle Fourth Highest	7.7	1.5	2,447
	11.2	2.5	2,712
	15.4	4.3	3,121
	19.4	5.3	3,379
	33.8	9.6	3,355
	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

			Problems in acce	essing health care		
					At least one	
Background	Getting permission to go	Getting money	Distance to	Not wanting to	problem accessing	Number of
characteristic	for treatment	for treatment	health facility	go alone	health care	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	40.0	40.0		40.5	=0.0	
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 Eastern	5.4 14.0	39.9 41.1	15.1 13.4	13.6 13.3	46.6 51.8	713 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

	Trav	vel time to nea	arest health fa	acility			ans of transpor arest health fac			
Background characteristic	<30 minutes	30–59 minutes	60–119 minutes	≥2 hours	Total	Motorised ¹	Not motorised ²	Other	Total	Number of women
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 Distance to health facility	29.3	37.5	23.3	10.0	100.0	48.1	51.9	0.0	100.0	3,354
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 10

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.

nformation 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 Calmette-Guérin (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)

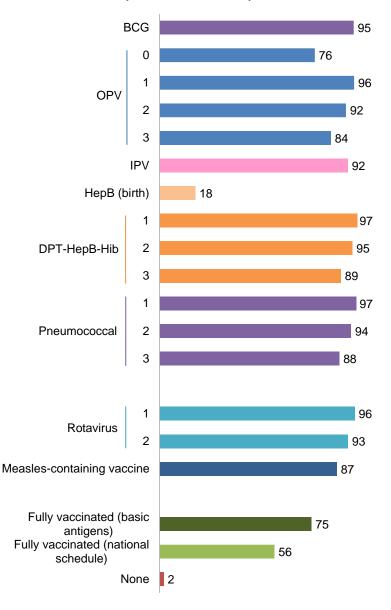
Sample: Children age 12-23 months and age 24-35 months

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

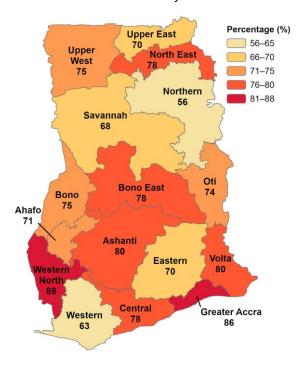
Percentage of children age 12–23 months vaccinated at any time before the survey



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

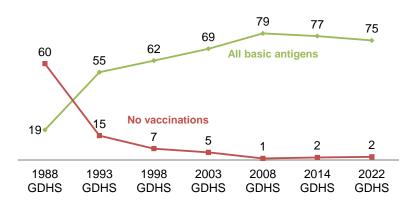
Percentage of children age 12–23 months who were fully vaccinated (basic antigens) at any time before the survey



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

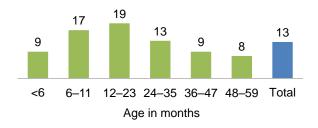
Children with diarrhoea for whom advice or treatment was sought.

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

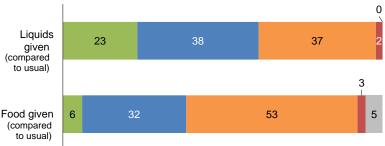
Children with diarrhoea are given more liquids than usual and as much food or more than usual.

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

Figure 10.4 Feeding practices during diarrhoea Percentage of children under age 5 with diarrhoea

in the 2 weeks before the survey
■ More ■ Same ■ Less ■ None ■ Never gave



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).

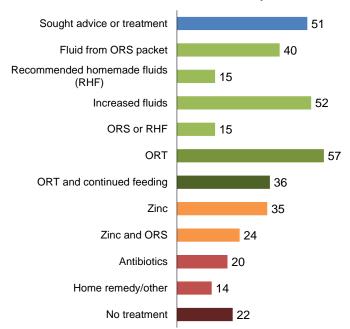
Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

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

Figure 10.5 Treatment of diarrhoea

Percentage of children under age 5 with diarrhoea in the 2 weeks before the survey



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

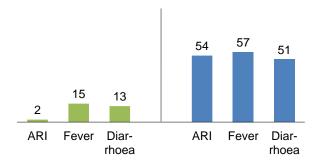
Children with diarrhoea for whom advice or treatment was sought were most likely to be taken to public sector facilities (51%). "Other" private sector suppliers (29%), including shops/markets (16%) and drug peddlers (13%), were the next most common source of advice and treatment for diarrhoea (**Table 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 Among those with symptoms of illness, percentage for whom advice or treatment was sought



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- Table 10.5 Source of vaccinations
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- Table 10.7 Source of advice or treatment for children with symptoms of ARI
- Table 10.8 Children with fever and care seeking for fever
- Table 10.9 Children with diarrhoea and care seeking for diarrhoea
- Table 10.10 Feeding practices during diarrhoea
- 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

Percent distribution of live births in the 2 years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the 2 years preceding the survey that have a reported birth weight, percentage less than 2.5 kg, according to background characteristics, Ghana DHS 2022

	:					Percentage	Percentage of births that have a reported	reported		Among births with a reported	th a reported
	Percent dist	Percent distribution of births by size of baby at birth ba	size or baby at bi	rn based on motner's estimate	r s estimate	דומ	birth weight according to:			birth weight	ght ¹
Background characteristic	Very small	Smaller than average	Average or larger	Don't know	Total	Written record	Mother's report	Either	Number of births	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	9.4	100.0	68.1	12.5	9.08	718	10.5	578
Birth order ²											
_	4.6	9.6	85.4	9.0	100.0	68.4	17.8	86.1	1,054	12.5	206
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	7.77	798	11.5	620
+9	3.3	8.9	87.3	9.0	100.0	59.4	10.7	70.0	447	11.9	313
Mother's smoking status	į	;	į	;		;	;	į	;		
Smokes cigarettes/tobacco Does not smoke	(9.6) 4.0	(4.2) 8.7	(86.2) 87.0	(0:0) 0:3	100.0 100.0	(63.6) 67.3	(12.0) 14.8	(75.5) 82.1	29 3,609	. L.	22 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	8.6	85.7	0.0	100.0	62.5	16.0	78.5	380	13.2	298
Greater Accra	9.0	2.2	97.2	0.0	100.0	74.8	16.1	6.06	427	4.7	388
Volta	4.0	6.5	88.8	9.0	100.0	73.3	13.8	87.1	135	7.0	117
Eastern	2.0	3.0	91.9	0.0	100.0	6.92	12.7	9.68	252	11.1	225
Ashanti	5.8	9.4	84.8	0.0	100.0	63.0	25.3	88.2	999	16.0	287
Western North	2.7	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	7. 6	.0.3	88 89 60 60 60	0.0	100.0	9.70 9.00	.5.3 5.0	83.1	202	10.5	89.
No.	5.5	0.0	500.0	† 5	0.00	0.02		02.0	907	0.00	26.4
Soldielli	. r	10.0	000.7	† c	0.00	20.0		00. 7	5 7	7.8	404 62
North East	t v	13.5	83.4	2.0	0.00	7.07	- u	. c az	- 4-	2.7	9.7
Notificasi	, ć	7.5.	4.00.7	5.5	0.00	83.4	ס ע	7.07	196	10.7	127
Upper West	2.0	13.3	83.9	- 8.0	100.0	78.6	5.5	86.0	109	8.0 8.0	94
Mother's education											
No education	3.4	10.5	85.5	0.6	100.0	61.7	5.3	0.79	761	10.7	510
Primary	0.5	80	86.6	0.4	100.0	62.7	13.1	75.7	562	10.8	426
Secondary	4 4 5	8.8	87.2	0.0	100.0	70.6	16.1	86.7	1 979	11.6	1 7 1 5
More than secondary	2.8	7.2	6.68	0.0	100.0	67.6	31.4	0.66	336	9.7	333

Continued...

Table 10.1—Continued											
	Percent dist	ribution of births by	size of baby at bir	Percent distribution of births by size of baby at birth based on mother's estimate	's estimate	Percentage birt	Percentage of births that have a reported birth weight according to:	reported :		Among births with a reported birth weight ¹	h a reported ght¹
Background characteristic	Very small	Smaller than average	Average or larger	Don't know	Total	Written record	Written record Mother's report	Either	Number of births	Percentage less than 2.5 kg	Number of births
Wealth quintile											
Lowest	4.7	10.2	84.5	9.0	100.0	59.1	5.8	65.0	968	13.1	582
Second	4.3	10.4	84.9	0.3	100.0	68.7	11.6	80.3	749	12.1	601
Middle	3.9	8.6	87.2	0.2	100.0	67.3	15.3	82.6	730	11.4	603
Fourth	4.6	6.8	88.3	0.2	100.0	72.3	20.0	92.4	899	11.4	617
Highest	1.9	6.3	91.8	0.0	100.0	71.9	25.6	97.5	262	7.7	280
Total	4.0	8.7	87.0	0.3	100.0	67.2	14.8	82.0	3,638	11.1	2,983

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.

Based on either a written record or the mother's recall

Birth order refers to the order of the birth among the respondent's live births.

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

	Ch	ildren age 12–23 mont	hs	Ch	ildren age 24–35 mont	hs
Background characteristic	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
J						
Total	98.1	87.9	1,823	98.1	78.5	1,546

Vaccination card, booklet, or other home-based record
 Birth order refers to the order of the birth among the respondent's live births.

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

		Children age 1	12-23 months			Children age	24–35 months	
Vaccine	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 Within 1 day of birth After 1 day of birth	11.0 2.0 8.9	6.6 4.7 1.9	17.5 6.7 10.9	na na na	9.7 1.5 8.2	10.9 8.8 2.1	20.6 10.3 10.2	na na na
DPT-HepB-Hib 1 2 3	87.4 86.8 84.2	9.7 7.9 4.8	97.1 94.6 89.0	96.9 94.1 87.9	78.1 77.8 76.6	17.5 13.9 9.4	95.6 91.7 85.9	94.8 90.8 83.4
Polio OPV 0 (birth dose) OPV 1 OPV 2 OPV 3 IPV	67.5 87.3 86.0 82.0 83.2	8.7 8.2 5.5 2.1 9.1	76.2 95.5 91.5 84.1 92.4	76.0 95.4 91.1 83.1 91.0	57.9 78.1 77.3 72.6 76.0	17.5 15.4 10.8 4.5 17.8	75.4 93.5 88.1 77.2 93.7	74.7 92.6 87.2 74.8 90.5
Pneumococcal 1 2 3	87.2 86.5 84.0	9.5 7.5 4.2	96.7 94.0 88.2	96.5 93.6 87.0	78.0 77.7 76.5	17.5 14.1 9.5	95.6 91.8 86.0	94.7 90.4 83.2
Rotavirus 1 2	86.8 84.9	8.9 7.6	95.8 92.5	95.6 91.8	77.7 75.8	16.6 13.4	94.3 89.2	93.4 87.2
Yellow fever Measles-rubella 1 2	77.1 79.2 na	6.9 7.8 na	84.0 87.0 na	76.1 80.4 na	74.1 74.9 61.4	16.1 15.8 11.1	90.2 90.7 72.5	80.5 81.6 69.3
Meningitis	0.0	0.0	0.0	na	59.3	15.0	74.3	70.1
Fully vaccinated (basic antigens) ⁶ Fully vaccinated (according to national schedule) ⁷ No vaccinations	73.0 55.5 0.1	1.6 1.0 1.9	74.6 56.4 2.0	68.9 51.4 na	68.3 40.3 0.1	3.3 2.1 2.2	71.5 42.4 2.3	63.6 36.5 na
Number of children	1,602	221	1,823	1,823	1,213	333	1,546	1,546

na = not applicable

BCG = bacille Calmette-Guérin

DPT = diphtheria-pertussis-tetanus

HepB = hepatitis B

Hib = Haemophilus influenzae type b

IPV = inactivated polio vaccine OPV = oral polio vaccine

- 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

- * Received by age 12 months for all vaccines except measles-rubella 2 vaccine, which should be received by age 24 months

 6 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

Table 10.4 Vaccinations by background characteristics

Percentage of children age 12–23 months and children age 24–35 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report), percentage fully vaccinated (basic antigens), percentage fully vaccinated according to national schedule, and percentage who received no vaccinations, according to background characteristics, Ghana DHS 2022

		Ī				1	1	1		Children	Children age 12–23 months:	-23 monti	JS:				1					Childre	₃n age 24	Children age 24–35 months:	hs:
			PPT	DPT-HepB-Hib	흱			Polio			Pneu	Pneumococcal		Rotavirus	sr		FL	Final Part Part Part Part Part Part Part Part	Fully vacci- nated accord-					Fully vacci- nated accord-	
Background characteristic	BCG	HepB (birth dose) ¹	-	2	က	OPV 0 (birth dose)	OPV 1 OPV 2		OPV 3	ΙΡΛ	-	2	က	-	Measles 2 rubella 1		(be Yellow ar fever ger		national h sched- va ule³ nat	No Nu vacci- nations chi	Number Me of -ru children	Measles -rubella M 2	Menin- gitis	national sched- ule ⁴	Number of children
Sex Male Female	95.5 95.1	17.5	97.4 96.7	95.7 93.6	89.8 88.2	74.5 78.0	96.2 94.8	92.0 91.1	84.9 83.3	92.6 92.2	96.8 96.6	94.8	90.0 86.4 96	95.9 95.6 9	92.5 86 92.4 87	86.4 8′ 87.6 8⁄	83.7 7. 84.3 7.	74.7 5	54.8	2.0 8	928 7 895 7	74.6	74.7	44.4 40.4	764 782
Birth order ⁵ 1 2-3 4-5 6+	97.1 94.3 94.6 95.5	20.3 16.5 16.5 16.0	97.2 96.9 96.6 98.0	94.0 94.7 94.6 96.0	86.9 90.1 90.0 88.9	80.8 79.1 70.3 67.4	95.7 95.6 94.9 95.9	91.9 91.2 92.7 89.3	84.0 84.3 86.0 80.7	92.1 93.6 91.1	97.4 96.0 96.4 97.6	93.6 94.2 92.8 96.4	86.7 88.7 99.0 90.0	96.6 9 95.4 9 94.7 9 96.6 9	93.8 88 91.7 86 91.7 86 93.0 85	88.7 84 86.7 84 86.1 84 85.5 84	84.8 7.882.8 7.84.7 7.84.6 68	75.8 6 74.4 5 76.3 5	60.1 58.3 54.5 46.2	2.0 2.0 2.4 4 4 4 4 4	529 7 663 7 401 6 230 6	72.4 75.8 69.0 68.4	74.2 78.2 69.5 70.7	42.5 46.8 40.5 31.2	380 623 355 187
Vaccination card ⁶ Seen Not seen or no longer haver had	93.0	12.5 60.0	99.5 88.7	98.7 74.4 (14.5)	95.8 44.5 (12.6)	76.8 79.7 (26.4)	99.3	97.8 53.4 (3.4)	93.3	94.7 84.2 (26.4)	99.3 (3.87.0 (6.95.5)	98.5 9 69.6 3	95.6 98 39.6 83 (8.7) (7.8)	98.8 9 83.5 7	96.6 90 72.2 71	90.2 87 71.5 66	87.7 8 65.0 13	83.1 6 15.1 (3.4)	63.1 (5.9.0) (6.9.0) (6.9.0)	0.1 1,6	7 1,602 7 187 E	78.2 55.2 (14.1)	75.6 74.3 (23.7)	51.4	1,213 303 30
Residence Urban Rural	97.9	18.2	98.1	96.0	91.4	82.6 70.5	97.2	94.0										Q 47					72.2	43.7	786 760
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono East Oti	93.2 99.1 98.8 99.1 97.2 97.2 97.7 98.6 97.7	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	93.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	98.22 98.22 97.22 96.24 97.29 90.53 96.4 96.4	82.8 93.4 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94	61.4 72.5 89.2 83.7 79.0 71.1 68.2 73.5 73.5	92.5 100.0 97.7 7.7 99.3 98.6 9.6 1.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9	86.8 95.0 95.0 95.0 95.0 95.0 97.9 97.9	78 88 88 88 88 88 88 88 88 88 88 88 88 8	87.9 96.9 96.9 94.3 1 99.1 99.1 99.1 99.1 97.7	60000000000000000000000000000000000000		88.89 89.80 89.80 89.80 89.90 80 80 80 80 80 80 80 80 80 80 80 80 80	898.38 90 90 90 90 90 90 90 90 90 90 90 90 90	88.9 95.0 95.8 96.4 96.4 96.4 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3	77.3 99.7.3 99.7.3 99.1.9 99.1.9 99.1.9 97.4 87.4 87.4 87.4 87.4 87.4 87.4 87.4 8	24 24 24 24 24 24 24 24 24 24 24 24 24 2	62.55 77.88 77.88 77.96 77.96 77.93 887.7 77.53 77.83	542.4 772.0 70.6 61.9 661.9 663.8 663.8 663.8 663.8 663.8 663.8 663.8 67	4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	200 200 200 200 200 200 200 200 200 200	74.9 885.5 885.5 880.6 880.6 885.5 87.0 17.1	56.9 71.0 86.5 88.5 742.3 79.7 79.7 79.7 77.5 76.5 76.5 76.5 76.5	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	102 210 210 60 60 115 255 255 77 77 77
Savannan North East Upper East Upper West	94.9 96.3 93.6 95.7		96.3 95.4 98.2 97.3	93.7 93.2 91.0 95.2	83.4 89.9 84.6 93.0	60.9 68.7 88.2 78.9	94.9 95.7 91.4 97.0	90.0 90.1 83.9 93.6	74.3 84.7 77.7 85.3			95.5 91.1 87.8 94.6											65.2 79.5 84.1 90.2	33.1 39.3 39.8 58.4	52 56 74 44

Continued...

										Childre	n age 12	Children age 12-23 months	ths									Chilc	Children age 12–23 months	2-23 mo	nths
			DP	DPT-HepB-Hib	ള			Polio			Pne	Pneumococcal	й	Rotavirus	irus				Fully vacci- nated accord-					Fully vaccinated accord-	
Background characteristic	BCG	HepB (birth dose)¹	-	2	3	OPV 0 (birth dose)	OPV 1	OPV 1 OPV 2 OPV 3	OPV 3	ΙΡΛ	-	2	3	-	2 2	Measles- \	Yellow fever	nated (basic r anti- gens) ²	ing to national sched- ule ³	No vacci- nations	Number of children	Measles- rubella 2	Menin- gitis	ing to national sched- ule ⁴	Number of children
Mother's education	0	0	9	9	0	3		2	1	0	9		7	0	,	0	1	0	27	L	000	3	0	7	010
No education Primary	8.60 90.80 80.80	18.7	9. 9. 9. 9.	88.1 97.4	82.8	62.1 77.4	- 80 80 80 80	84.8 80.6 80.6	81.7	86.0 94.5	8. 86 8. 88	. 288.1 26.2	88.1	88.6 04.0	84.4 94.7	76.9 87.6	75.9 83.6	63.6	51.8	0.0 9.0	390 291	66.4 4.66.3	70.3 67 4	42.4	376 231
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	9.96	94.9	92.2	93.2	95.1	94.3	89.2	92.6	97.1	94.0	2.06	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	8.06	19.4	93.0	89.5	83.4	63.8	90.0	84.1	77.1	86.0	95.6	88.9	82.1	91.5	86.4	81.0	80.1	66.2	45.0	2.8	440	73.0	75.2	29.8	333
Second	92.8	15.2	98.0	95.3	88.2	74.3	96.5	92.5	81.6	93.1	7.76	94.9	90.3	97.2	94.4	86.2	81.7	71.0	52.5	6.0	384	70.3	70.4	37.6	337
Middle	98.0	19.2	98.6	6.96	91.3	78.9	8.76	93.6	88.3	95.3	98.6	96.3	91.2	6.96	93.8	84.7	80.5	74.7	57.1	9.0	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	9.68	90.6	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	2.96	88.1	0.96	98.2	97.4	92.3	97.9	97.5	95.4	6.06	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	51.5	84.1	92.4	2 96	04.0	88.2	95.8	92.5	87.0	840	74.6	56.4	2.0	1 823	72 5	74.3	424	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 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. Figures in parentheses are based on 25–49 unweighted cases.

BCG = bacille Calmette-Guérin

DPT = diphtheria-pertussis-tetanus

HepB = hepatitis B

Hib = Haemophilus influenzae type b

OPV = oral polio vaccine IPV = inactivated polio vaccine

¹ Children are considered to have received HepB (birth dose) if it was recorded on their card or reported by their mother, regardless of timing.

² 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

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 doses of rotavirus vaccine, and one dose of measles-rubella

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 DPT-Hep B-Hib, four doses of rotavirus vaccine, two doses of measles-rubella vaccine,

and one dose of meningitis A vaccine ⁵ Birth order refers to the order of the birth among the respondent's live births. ⁶ Vaccination card, booklet, or other home-based record

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 a	age 12–23 r	nonths who	received at	least one	vaccination	Children	age 24–35 r	nonths who	received at	least one	vaccination
Background characteristic	Public medical sector	Private medical sector (non- NGO)	Private medical sector (NGO)	Other	Total	Number of children	Public medical sector	Private medical sector (non- NGO)	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	0.0	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

	Among children	under age 5:	Among children	under age 5 with sy	mptoms of ARI:
Background characteristic	Percentage with symptoms of ARI1	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					
Mother's smoking status Smokes cigarettes/tobacco	1.5	78	*	*	1
Does not smoke	2.2	8,237	53.8	21.5	180
Does not smoke	2.2	0,237	33.0	21.5	100
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	(70.0)	* (00.4)	5
Northern	4.1	923	(70.8)	(22.4)	38
Savannah North East	2.4 5.3	247 267	(54.7)	(15.9)	6 14
Upper East	1.3	406	(34.7)	(13.9)	5
Upper West	0.7	242	*	*	2
• •	J.,				-
Mother's education	0.0	4.000	00.0	00.5	00
No education	3.6	1,922	60.2	22.5	69
Primary Socondary	2.6 1.7	1,250	(56.5)	(30.3)	33 74
Secondary More than secondary	0.7	4,348 794	44.6 *	16.0 *	74 5
More than secondary	0.7	194			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	(20 7)	(4 E O)	19
Fourth	2.1	1,584	(38.7)	(15.9) *	33 47
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.

Includes stoves/cookers using electricity, liquefied petroleum gas (LPG)/natural gas/biogas, solar, and alcohol/ethanol

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

	treatment wa	whom advice or as sought from source:
Source	Among children with symptoms of ARI ¹	Among children with symptoms of ARI for whom advice or treatment was sought ¹
Public sector Government hospital Government polyclinic Government health centre Government clinic CHPS centre/government health post Community health service (outreach)	40.9 17.0 2.0 7.8 4.4 8.2 1.8	63.5 26.4 3.1 12.1 6.8 12.7 2.8
Private medical sector (non-NGO) Private hospital/clinic Private clinic Maternity home	2.3 0.8 1.4 0.2	3.7 1.2 2.2 0.3
Other private sector Shop/market Traditional practitioner Drug peddler	12.1 3.6 1.2 7.3	18.8 5.5 1.9 11.3
Other	1.9	2.9
Number of children	181	116

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

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

	Among children	under age 5:		Among children und	der age 5 with fever	
Background characteristic	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
	17.9					762
Rural	17.9	4,267	61.9	34.8	27.6	702
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

			Among childre 5 with dia	
Background characteristic	Percentage with diarrhoea	Number of children	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 48–59	9.3 7.8	1,632	46.5	152 125
	7.0	1,596	62.6	125
Sex	40.0	4.040		=
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 Volta	7.0 9.1	1,057 313	(15.6) (74.6)	74 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 Savannah	18.8 22.0	923 247	68.7 59.4	173 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.

³ See Table 16.6 for definition of categories.

Table 10.10 Feeding practices during diarrhoea

Percent distribution of children under age 5 who had diarrhoea in the 2 weeks preceding the survey by amount of liquids and food given compared with normal practice, according to background characteristics, Ghana DHS 2022

Amount of liquids given			Amoi	Amount of liquids given	iven						Amount of food given	ood given				Nimber of
Background characteristic	More	Same as usual	Some- what less	Much less	None	Don't know/ missing	Total	More	Same as usual	Some- what less	Much less	None	Never gave food	Don't know/ missing	Total	children with diarrhoea
Age in months																
9	15.7	53.0	11.5	10.7	9.5	0.0	100.0	4.5	28.1	16.2	12.7	0.0	38.5	0.0	100.0	62
6–11	17.1	40.2	23.3	18.4	1.0	0.0	100.0	2.4	36.1	27.5	24.1	6.4 6.0	5.0	0.0	100.0	146
12–23	23.4	33.8	23.0	18.0	1.9	0.0	100.0	6.4 5.3	30.5	32.8	24.6	3.2	9.4	0.0	100.0	349
24-35	28.4	34.4	18.8	16.7	8.	0.0	100.0	9.1	33.5	26.7	28.6	1.7	0.5	0.0	100.0	203
36–47	27.6	40.0 30.6	11. 4. 2.	19.8	1 . σ	9.3	100.0	9. d	38.6	23.0	26.4	2.0	4.0	0.3	100.0	152
90-01	0.1.7	0.60	C.4.2	5.0	o O		0.00		71.1		20.3	7.7	0.0	t	0.00	2
Sex	7 00	0 00	0.0	7	4	7	000	7	300	7 00	000	ć	0	7	000	099
Female	22.8	35.5	20.5	19.0	2.7	0.7	100.0	- 4 - 4	32.3	27.3	27.1	3.1	5.7	0.7	100.0	360 493
Breastfeeding status Breastfeeding Not breastfeeding	19.0	36.6	23.5	17.7	3.2	0.0	100.0	4 c 2 c	29.5 35.9	28.4	22.8	3.9	11.2	0.0	100.0	470
		5	<u> </u>	2	<u>?</u>	9	2	9	2	9		Ξ	;) ;	2	5
Residence Urban Rural	22.3 24.0	44.2 33.1	14.8 23.5	14.9 17.8	2.8	1.0	100.0	5.2	37.8 28.5	23.7 31.8	24.3 25.3	3.3	4.7 5.7	1.0	100.0	443 611
Region Western	*	*	*	*	*	*	100.0	*	*	*	*	*	*	*	100.0	25
Central	20.0	64.4	11.8	2.2	1.6	0.0	100.0	4.6	43.2	32.3	9.7	4.6	5.5	0.0	100.0	128
Greater Accra	(24.4)	(42.9)	(17.0)	(15.8)	(0.0)	(0.0)	100.0	(1.4)	(58.4)	(16.3)	(15.8)	(0.0)	(8.1)	(0.0)	100.0	74
Volta _	(24.6)	(39.7)	(11.1)	(24.6)	(0.0)	(0.0)	100.0	(8.0)	(39.4)	(10.2)	(34.2)	(8.2)	(0.0)	(0.0)	100.0	29
Eastern Ashanti	(21.8)	(41.2) 50.1	(20.8)	(16.2) 3.5	0.0	(0.0) 1 8 ()	100.0	(5.6) 5.0	(27.3)	(42.0)	(21.7)	(0.0 (0.0	(3.4)	(0.0) 1 8 ()	100.0	56 240
Western North	19.3	29.5	16.1	25.5	9.6	0.0	100.0	9.6	26.0	5.71	32.5	8.7	5.7	0.0	100.0	249 26
Ahafo	22.4	23.6	34.3	14.3	5.4	0.0	100.0	10.6	26.1	24.7	20.6	6.6	8.0	0.0	100.0	18
Bono	(10.0)	(59.4)	(21.1)	(9.6)	(0.0)	(0.0)	100.0	(0.0)	(57.5)	(8.3)	(18.4)	(3.8)	(12.0)	(0.0)	100.0	23
Bono East	40.7	19.8	16.2	13.7	9.5	0.0	100.0	თ. ი	25.3	22.5	25.4	5.1	12.8	0.0	100.0	67
Northern	2.2 5.4 6.0	18.5	38.2	42.3 25.7	2.0	0.0	100.0	0 6	20.7	35.3	32.5	ა c	0.6	0.0	100.0	173
Savannah	25.9	25.2	14.5	33.1	. . .	0.0	100.0	17.0	17.2	17,0	35.9	1.2	11.8	0.0	100.0	5. 45
North East	39.3	26.4	19.9	13.3	7.	0.0	100.0	9.5	25.7	26.9	29.0	2.0	7.3	0.0	100.0	48
Upper East	22.2	22.2	10.5	40.3	3.7	1.1	100.0	1.1	22.9	13.7	55.2	1.1	4.9	1.1	100.0	37
Upper West	(4.7)	(31.9)	(29.5)	(26.0)	(7.9)	(0.0)	100.0	(0.0)	(28.9)	(28.1)	(23.2)	(10.5)	(6.3)	(0.0)	100.0	16
Mother's education																
No education	21.0	29.2	26.8	21.3	1.7	0.0	100.0	5.9	27.3	29.1	28.7	1.8	7.1	0.0	100.0	303
Primary	26.2	32.9	15.7	17.8	4.2	0.2	100.0	10.2	30.5	28.7	25.3	1.9	3.2	0.2	100.0	184
Secondary More than secondary	23.2	32.7	17.9	13.4	1.2 7.2	0.0	100.0	4 V	37.4	27.0 37.8	22.9	4.6	4 4 6 6	0.0	100.0	512 54
6								!				2				
															•	Continued

Table 10.10—Continued																
			Amon	Amount of liquids given	ven						Amount of food giver	od given				Number of
Background characteristic	More	Same as usual		Some- what less Much less None	None	Don't know/ missing	Total	More	Same as usual	Some- what less	Much less	None	Never gave food	Don't know/ missing	Total	children with diarrhoea
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	9.4	100.0	4.1	38.0	33.3	24.8	1.5	9.0	4.0	100.0	114
Total	23.3	37.8	19.9	16.6	2.1	0.4	100.0	0.9	32.4	28.4	24.9	5.6	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 indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 10.11 Oral rehydration salts, zinc, continued feeding, and other treatments for diarrhoea

Among children under age 5 who had diarrhoea in the 2 weeks preceding the survey, percentage given fluid from an ORS packet or prepackaged ORS fluid; zinc; ORS and zinc; ORS and continued feeding; ORS or increased fluids; recommended homemade fluids (RHF); oral rehydration therapy (ORT); ORT and continued feeding; and other treatments, and percentage given no treatment, according to background characteristics, Ghana DHS 2022

					Percenta	age of childre	de of children with diarrhoea who were given:	sea who were	given:							
Background characteristic	Fluid from ORS packet or pre- packaged ORS liquid	Zinc	ORS and zinc	ORS and continued feeding¹	ORS, zinc, and continued feeding ¹	ORS or increased fluids	Recom- mended home fluids (RHF)	ORT (ORS, RHF, or increased fluids)	ORT and continued feeding¹	Antibiotic drugs	Antimotility drugs	Antimotility Intravenous drugs	Home remedy/	- Don't know	Percentage given no treatment	Number of children with diarrhoea
44 A																
Age III monuns	C	0	Ċ	C L	c	5	c	7	0	0	ć	ć	C	ć	Ċ	7
0>	9.0	0.3	3.0	2.6	3.0	7.17	Ö.5	27.7	2.8	2.3	9.5	0.0	73.5	0.0	30.9	D.
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	8.09	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	4.1	11.8	0.0	19.2	152
48–59	41.7	34.2	26.1	26.6	15.4	9.05	17.2	52.7	34.3	25.0	0.9	3.3	15.7	3.4	18.2	125
Sex																
Male Female	42.5	33.0	26.1	29.2	17.1	55.4 48.2	16.2	61.3	40.9 30.4	20.0	5.3	4.0	11.2	0.7	18.1	560 493
		9		ì	- 5	į	į) -		- 5	į		- 5	5	9	2
Residence	22.7	0 70	6.40	10.7	0.01	47.6	78.0	123	0.45	300	4	,	0 67	c	7 7 7	77.5
Rural	44.6	35.3	26.5	30.8	17.5	55.3	13.8	59.7	39.4	18.8	5.4	- T	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)	(26.9)	(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)	(26.7)	(6.9)	(59.2)	(36.3)	(32.2)	(0.0)	(0.0)	(6.4)	(0.0)	(18.7)	26
Ashanti	41.9	31.0	20.3	32.9	14.6	55.2	9.1	58.3	42.8	19.4	3.6	4.1	8.7	 8	18.1	240
Western North	47.9	43.4	36.2	19.1	14.2	49.5	15.5	53.5	23.1	ი. ი. i	6.6	0.0	2.0	0.0	32.0	26
Ahato	42.7	49.0	38.8	32.5	30.6	49.6	23.5	56.3	36.2	17.8	න ද න ද	0.0	æ. €	0.0	26.1	2 3
Bono Foot	(36.0)	(40.b)	(22.9)	(20.7)	(13.6)	(39.T)	(12.0)	(39.1)	(26.7)	(35.2)	(3.0)	(0.0) (0.0)	(15.4)	0.0	(25.2)	23
DOI D L'ast	9.00	37.5	30.00 8 90.00	27.5	τ. σ. α	5.55	2. 5 0. 0. 0.	0.00	- 90.	78.6 28.8	- œ	o 6	12.6	9 6	01	5 6
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	7.41	0.0	16.7	173
Savannah	32.7	15.0	9.1	20.0	4.7	42.8	8.9	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)	(2.6)	(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 More than secondary	39.4 34.8	37.4 44.9	26.6	25.5 29.2	15.8	51.4	15.1	56.4 53.4	35.0 41.8	18.2 32.2	3.3	8.0	12.4 7.8	0.0	25.8	512
(pp. 1000)	2	2		1	2				2	1	5	S	2	:	:	5
																Continued

					Poroca	relido do opo	dracilo dita	a chira con	- doi:00							
						age of ciliar	nage of children with dialitioea who were given.	Dea wild wer	d giveri.							
	Fluid from ORS													1		
	packet or pre-			ORS and	ORS, zinc,	ORS or	Recom- mended	ORT (ORS, RHF or	ORT and				Home		Percentage	Number of children
Background	packaged		ORS and	continued	continued	increased	home fluids	increased	continued	Antibiotic	Antimotility	Intravenous	remedy/			
characteristic	ÓRS liquid	Zinc	zinc	feeding ¹	feeding ¹	fluids	(RHF)	fluids)	feeding ¹	drugs	drugs solution	solution		Don't know	treatment	-
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	0.09	35.2	25.5	3.5	1.6	9.5	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

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

	Pero		n advice or treatr m each source:	ment
Source	Among children with diarrhoea	Among children with diarrhoea for whom advice or treatment was sought		Among children with diarrhoea who were given zinc
Public sector Government hospital Government polyclinic Government health centre Government clinic CHPS centre/government health post Community health service (outreach)	30.8	50.7	52.0	54.1
	9.3	15.3	16.4	19.1
	1.4	2.3	1.1	0.8
	7.1	11.7	11.6	12.8
	4.7	7.8	8.5	8.3
	8.2	13.5	14.2	12.8
	0.4	0.6	0.8	1.0
Private medical sector (non-NGO) Private hospital/clinic Community health service (mobile clinic) Other private medical sector	2.9	4.8	3.7	5.7
	1.4	2.3	1.3	2.5
	1.2	2.0	1.6	2.3
	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

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.

utrition 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).

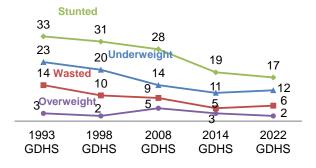
Table 11.1 shows the nutritional status of children under age 5 according to the three anthropometric indices. Seventeen percent of children under age 5 are stunted, among whom 4% are severely stunted, and 6% are wasted, including 1% who are severely wasted. Twelve percent of children are underweight, and 2% are overweight or obese.

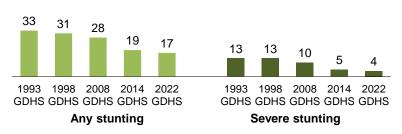
Figure 11.1 Trends in child growth measures

Figure 11.2 Trends in stunting

Percentage of children under age 5 who are malnourished

Percentage of children under age 5 who are stunted





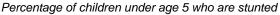
Trends: A comparison of anthropometric measurements from previous GDHS surveys shows that there have been improvements in the nutritional status of children under age 5 in the last 30 years. The prevalence of stunting declined from 33% in 1993 to 17% in 2022 (**Figures 11.1** and **11.2**). The percentage 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.

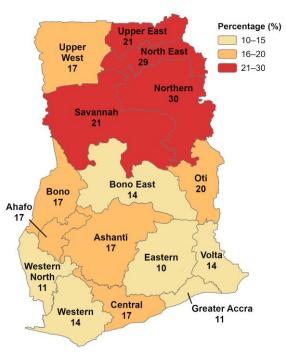
There are large disparities in stunting across regions (Map 11.1). The prevalence of stunting is highest in the Northern and North East regions (30% and 29%, respectively) and lowest in the Eastern, Western North, and Greater Accra regions (10%, 11%, and 11%, respectively). Similarly, wasting is highest 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 0–59 months, children age 0–11 months are expected

Map 11.1 Stunting in children by region





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

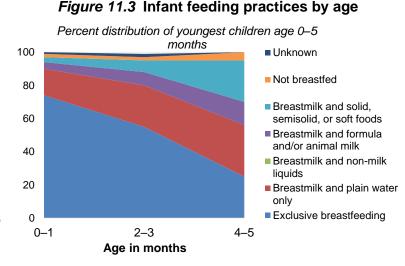
Mixed milk feeding under 6 months

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



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

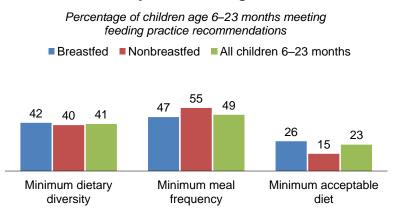
Egg and/or flesh food consumption

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



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

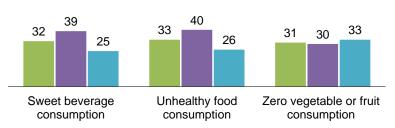
Table 11.9 shows the percentage of children age 6–23 months with unhealthy feeding practices. Thirty-two percent of children consumed a sweet beverage, 33% consumed unhealthy foods, and 31% did not consume any vegetables or fruits during the previous day or night.

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 11.10 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	ın	chi	dren

Anaemia status	Haemoglobin level in grams/decilitre*
Anaemic	<11.0
Mildly anaemic	10.0–10.9
Moderately anaemic	7.0-9.9
Severely anaemic	<7.0
Not anaemic	≥11.0

^{*} Haemoglobin levels are adjusted for altitude in enumeration areas above 1,000 metres.

Sample: Children age 6-59 months

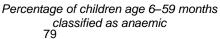
Overall, nearly half of children age 6–59 months (49%) are anaemic; 1% are severely anaemic, 28% are mildly anaemic, and 20% are moderately anaemic (**Table 11.12**).

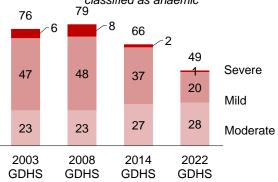
Trends: There has been a 36 percentage point decline in the prevalence of anaemia among children age 6–59 months since 2003 (**Figure 11.6**).

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





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, food-based 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 11.13 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 (kg/m²).

Adult status	ВМІ
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 11.14.1** 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 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

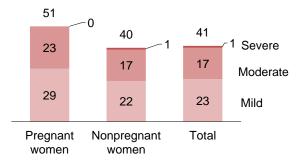
The 2022 GDHS results show that anaemia among women age 15–49 is of severe public health importance. Forty-one percent of women are anaemic; 23% are mildly anaemic, 17% are moderately anaemic, and 1% are severely anaemic (**Table 11.17** and **Figure 11.7**).

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

Figure 11.7 Anaemia in pregnant and nonpregnant women

Percentage of women age 15–49 classified as anaemic



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%).

LIST OF TABLES

For more information on nutrition of children and adults, see the following tables:

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Table 11.3	Early breastfeeding
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Table 11.6	Liquids consumed by children in the day or night preceding the interview
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Table 11.8	Minimum dietary diversity, minimum meal frequency, and minimum acceptable
	diet among children
Table 11.9	Egg and/or flesh food consumption and unhealthy feeding practices among
	children age 6–23 months
Table 11.10	Infant and young child feeding (IYCF) indicators
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	among women
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Table 11.18	Presence of iodised salt in household

Table 11.1 Nutritional status of children

Percentage of children under age 5 classified as malnourished according to 3 anthropometric indices of child growth: height-for-age, weight-for-height, and weight-for-age, according to background characteristics, Ghana DHS 2022

Age in the control of principal propertiage in the control of propertiage			Height-for-age¹	or-age1			V	Weight-for-height	t			Weight-for-age	for-age	
1	Background characteristic	Percentage below -3 SD	Percentage below -2 SD ²	Mean z score (SD)		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	Mean z score (SD)	Number of children
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Age in months													
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	900	2.7	13.2	9.0-	428	2.6	4.6	8.2	0.2	420	2.2	7.5	-0.3	430
23	6–11	4.4	11.5	9.0-	430	2.3	10.4	2.1	-0.5	430	2.6	14.4	-0.8	430
35 4 12 883 10 63 13 -04 816 32 140 -09 69 12 18 10 63 13 -04 879 15 140 -09 69 142 -06 183 0.6 45 0.6 -04 879 15 140 -09 39 142 -06 173 0.6 42 0.6 24 0.6 177 0.9 0.6 1 miles 142 -08 173 -04 270 0.4 270 0.9 0.6 1 miles 15 16 16 25 17 0.9 17 0.9 0.9 17 0.9 17 0.9 0.9 20 0.9 20 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 <t< th=""><td>12–23</td><td>4.5</td><td>17.2</td><td>-1.0</td><td>920</td><td>1.7</td><td>0.6</td><td>1.6</td><td>9.0-</td><td>921</td><td>3.6</td><td>15.9</td><td>-0.9</td><td>920</td></t<>	12–23	4.5	17.2	-1.0	920	1.7	0.6	1.6	9.0-	921	3.6	15.9	-0.9	920
47	24–35	5.4	24.6	-1.2	813	1.0	6.3	1.3	-0.4	816	3.2	14.0	6.0-	815
699 25 442 -0.0 833 0.6 45 0.6 -0.4 834 111 9.9 -0.8 839 839 839 839 839 839 839 839 839 83	36-47	3.6	18.8	-1.0	869	0.3	2.2	1.	4.0-	870	1.6	10.5	6.0-	870
3 g 149 -08 1478 21 83 33 -04 1771 30 135 -07 sele 193 -10 2515 10 251 10 -04 2520 20 114 -09 sele 153 -10 2192 115 -10 2192 12 -04 2520 20 114 -08 tributival 47 153 -04 210 210 210 20 20 114 -08 30 114 -08 114 -04 116 -08 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 117 -09 -09 20 20 -09 20 -09 20 -09 20 -09 20 -09 20 -09 20 -09 20 <t< th=""><td>48–59</td><td>2.5</td><td>14.2</td><td>-0.8</td><td>833</td><td>9.0</td><td>4.5</td><td>9.0</td><td>4.0-</td><td>834</td><td>1.1</td><td>6.6</td><td>-0.8</td><td>833</td></t<>	48–59	2.5	14.2	-0.8	833	9.0	4.5	9.0	4.0-	834	1.1	6.6	-0.8	833
69 38 1921.0 2516 0.6 43 10 -0.4 2520 20 114 -0.9 69 10 10 114 -0.9 69 10 114 -0.9 69 10 114 -0.9 69 10 114 -0.9 69 10 114 114	0-23	48	14.9	80-	1 7 7 8	2.1	en en	er er	40-	1 77 1	08	13.5	-0.7	1 781
Part	24–59	3.8	19.2	-1.0	2,515	9.0	6.4 6.3	1.0	4:0-	2,520	2.0	4.1	6.0-	2,518
Participation Participatio	Sex													
32 16.3 -0.9 2/101 0.9 6.2 1.9 -0.4 2/094 2.3 10.4 -0.8 4.5 20.2 -1.1 841 1.3 6.2 2.5 -0.4 838 3.0 13.1 -0.9 3.7 17.5 -0.9 566 1.6 6.8 2.5 -0.4 838 3.0 13.1 -0.9 4.6 17.8 -0.7 1.0 6.2 2.0 -0.4 838 3.0 13.1 -0.9 1.6 8.2 2.5 -0.3 2.4 1.0 -0.4 1.0 -0.4 1.0 -0.9 1.1 -0.9 1.1 -0.9 1.1 -0.4 1.0 -0.4 1.0 -0.4 1.0 -0.4 1.0 -0.9 1.1 -0.9 1.1 -0.9 1.1 -0.7 1.0 -0.4 1.0 -0.4 1.0 -0.4 1.0 -0.4 1.0 -0.4 1.0 -0.4 1.0	Male	5.2	19.4	-1.0	2.192	1.5	6.7	2.0	4.0-	2.197	2.5	14.1	-0.8	2.198
6.5 202 -1.1 841 1.3 6.2 2.0 -0.4 888 3.0 13.1 -0.9 4.6 17.5 -0.9 1566 1.6 5.8 2.5 -0.3 569 2.4 11.1 -0.7 17.8 -0.9 16.66 1.6 5.8 2.5 -0.3 569 2.4 11.1 -0.7 18.8 33.2 -1.5 10.2 1.436 0.9 6.9 2.4 -0.4 1.433 2.6 13.5 -0.9 18.8 33.2 -1.5 10.2 1.5 5.3 14.4 1.9 -0.7 2.2 2.0 10.4 -0.7 18.9 2.6 3.8 2.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	Female	3.2	15.3	6.0-	2,101	6:0	5.2	0:1	-0. -	2,094	2.3	10.4	-0.8	2,100
65 20.2 -11 68 13 -0.9 37 17.5 -0.9 566 16 6.9 2.6 -0.4 838 3.0 13.1 -0.9 37 17.9 -0.0 1.436 0.9 6.9 2.6 -0.4 1.433 2.6 11.1 -0.7 16.8 23.2 -1.5 10.6 2.6 10.3 1.4 -0.7 1.66 9.4 11.1 -0.7 4.1 1.2 2.6 -0.3 5.6 2.7 1.6 9.4 31.5 -0.7 4.1 1.2 2.7 1.4 1.9 -0.7 2.12 2.4 -0.7 2.12 2.1 -0.7 4.1 1.2 2.9 -0.7 2.12 2.1 2.1 2.1 1.3 6.2 2.1 -0.4 1.027 2.0 -0.5 1.1 -0.7 2.1 2.1 -0.7 2.1 2.1 -0.7 2.1 2.1 -1.4	Birth interval in months ³													
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3.7 17.9 -1.0 1436 0.9 6.9 2.0 -0.4 1433 2.6 13.5 -0.9 16.8 2.3 12.8 -1.5 10.2 2.4 -0.4 1,027 2.0 10.4 -0.7 10.8 11.8 -0.0 10.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	<24	4.6	17.5	6.0-	266	1.6	5.8	2.5	-0.3	699	2.4	11.1	-0.7	266
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3.1 21.1 -1.0 347 0.7 3.6 0.3 -0.3 346 1.8 13.1 -0.8 9.7 25.6 -1.2 334 1.7 6.5 2.0 -0.5 334 3.9 17.5 -1.0 4.0 16.6 -1.0 2.764 1.0 6.1 2.3 -0.4 2.761 2.5 11.9 -0.8 3.4 14.7 -0.8 772 1.9 6.3 1.8 -0.4 774 1.7 11.1 -0.8 8.0 26.7 -1.4 1650 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 5.0 19.6 -1.1 2,197	household	1.7	21.4	1.	92	0.7	3.1	0.3	-0.3	9/	1.5	12.2	-0.8	92
9.7 25.6 -1.2 334 1.7 6.5 2.0 -0.5 334 3.9 17.5 -1.0 4.0 16.6 -1.0 2,764 1.0 6.1 2.3 -0.4 2,761 2.5 11.9 -0.8 3.4 14.7 -0.8 772 1.9 6.1 2.3 -0.4 774 1.7 11.1 -0.7 8.0 26.7 -1.4 165 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 5.0 15.1 -0.8 5.8 2.3 -0.4 2,199 2.8 13.3 -0.9 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	household ⁶	3.1	21.1	-1.0	347	0.7	3.6	0.3	-0.3	346	1.8	13.1	-0.8	347
9.7 25.6 -1.2 334 1.7 6.5 2.0 -0.5 334 3.9 17.5 -1.0 4.0 16.6 -1.0 2,764 1.0 6.1 2.3 -0.4 2,761 2.5 11.9 -0.8 3.4 14.7 -0.8 772 1.9 6.3 1.8 -0.4 774 1.7 11.1 -0.8 8.0 26.7 -1.4 165 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	Mother's age ³													
4.0 16.6 -1.0 2,764 1.0 6.1 2.3 -0.4 2,761 2.5 11.9 -0.8 8.0 26.7 -1.4 165 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	<20	9.7	25.6	-1.2	334	1.7	6.5	2.0	-0.5	334	3.0	17.5	-1.0	334
8.0 26.7 -1.4 165 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.7 12.9 -0.7 1,490 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	20-34 35-49	0.4 0.4	16.6	0.1.0	2,764). O	 	ار ان م	4. O	2,761	2.5	 9	- 1 - 0.8 - 4.8	2,768
8.0 26.7 -1.4 165 3.3 12.1 0.0 -1.0 165 7.9 22.4 -1.4 4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9		t Ö	Ė	9	711	?	9	<u>.</u>	t.	†	<u>:</u>	-	Š	†
4.8 19.8 -1.1 1,670 1.7 8.1 1.5 -0.5 1,672 3.0 14.9 -1.0 1.0 3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	Mother's nutritional status' Thin	8.0	26.7	4.1-	165	6.	12.1	0.0	-1.0	165	7.9	22.4	4.1-	165
3.7 12.9 -0.7 1,490 0.4 4.3 2.5 -0.3 1,485 1.6 9.8 -0.6 3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	Normal	4.8	19.8	1.1	1.670	1.7	8.1	75.	-0.5	1.672	3.0	14.9	-1.0	1.670
3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	Overweight/obese	3.7	12.9	-0.7	1,490	0.4	4.3	2.5	-0.3	1,485	1.6	9.8	9.0-	1,492
3.4 15.1 -0.8 2,096 0.8 5.8 2.3 -0.4 2,092 2.0 11.2 -0.7 5.0 19.6 -1.1 2,197 1.6 6.1 1.7 -0.4 2,199 2.8 13.3 -0.9	Residence													
	Urban	ଧ ନ 4 ୦	15.1 19.6	1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	2,096	0.4 8.4	5.8	2.3	4. O	2,092	2 i 0	11.2	-0.7 -0.9	2,101
	5	3	2	:	1	2	5	:	5		ì	2	3	5

Continued...

Table 11.1—Continued													
		Height-for-age	or-age¹			ν .	Weight-for-height	4			Weight	Weight-for-age	
Background characteristic	Percentage below -3 SD	Percentage below -2 SD ²	Mean z score (SD)	Number of children	Percentage below -3 SD	Percentage below -2 SD²	Percentage above +2 SD	Mean z score (SD)	Number of children	Percentage below -3 SD	Percentage below -2 SD ²	Mean z score (SD)	Number of children
Region													-
Western	3.1	13.5	-0.9	262	0.0	5.3	2.1	-0.4	264	1.2	6.6	-0.8	264
Central	4.5	16.5	-0.9	440	0.4	8.9	2.7	-0.5	440	2.3	12.0	-0.8	440
Greater Accra	1.6	11.4	-0.7	528	0.8	4.7	1.8	-0.3	525	1.0	8.5	-0.5	530
Volta	1.8	14.4	-0.9	165	1.2	7.4	2.5	-0.5	165	1.8	13.1	-0.8	165
Eastern	3.0	10.4	-0.7	334	0.5	4.3	2.3	-0.3	334	1.5	11.0	-0.7	334
Ashanti	4.2	17.2	-0.8	784	3.2	7.7	2.4	-0.4	782	3.7	10.9	-0.7	784
Western North	1.7	10.6	-0.8	102	0.4	1.8	1.8	-0.3	103	0.9	7.5	9.0-	102
Ahafo	4.7	16.5	-1.0	86	1.0	4.2	4.3	-0.2	86	2.3	8.0	-0.7	86
Bono	5.2	17.0	6.0-	136	0.0	4.0	3.9	-0.3	135	1.7	11.0	-0.8	136
Bono East	2.6	13.9	-0.8	208	0.2	5.1	6.0	-0.4	207	9.0	11.1	-0.7	208
Ōţį	3.3	20.3	-1.2	134	0.7	7.3	0.3	-0.5	134	3.0	15.5	-1.0	134
Northern	8.8	29.6	-1.4	477	1.5	7.8	0.7	9.0-	480	3.7	19.9	-1.2	477
Savannah	4.4	21.0	-1.2	128	6.0	4.4	2.1	-0.3	128	1.2	14.0	-0.9	128
North East	8.8	29.3	-1.4	148	1.9	8.9	0.8	-0.5	148	4.7	20.4	-1.2	148
Upper East	4.9	21.1	-1.2	212	0.3	3.2	2.3	-0.3	213	3.1	12.7	-0.9	213
Upper West	2.7	16.5	-1.0	137	2.0	6.4	1.2	-0.4	137	3.6	11.4	-0.8	137
Mother's education ⁸													
No education	4.9	24.4	-1.2	948	1.1	7.1	1.2	-0.5	953	3.2	16.1	-1.0	951
Primary	4.5	18.5	1.1	582	1.6	8.5	1.3	-0.5	582	2.2	13.5	-1.0	582
Secondary	4.4	15.3	6.0-	2,058	4.	5.2	2.4	-0.4	2,054	2.6	11.0	-0.8	2,060
More than secondary	1.5	2.7	-0.4	328	0.3	5.5	3.8	-0.2	355	0.3	6.5	-0.3	329
Wealth quintile	•	;			,	1				;	:	,	
Lowest	0.9	22.8	-1.2	1,002	9.	2.8	4.	-0.4	1,003	3.2	14.3	-1.0	1,002
Second	5.5	22.0	-1.2	890	9.	7.8	1.3	-0.5	890	2.9	16.1	-1.0	891
Middle	4.1	16.9	-1.0	808	0.1	4.7	2.3	-0.4	808	9.	11.8	-0.8	812
Fourth	3.0	15.5	-0.8	835	9.1	6.2	0.1	4.0-	833	2.9	11.8	-0.8	835
Highest	1.7	7.5	-0.4	758	0.7	2.0	3.3	-0.2	757	6.0	6.2	-0.4	758
Total	4.2	17.4	-0.9	4,293	1.2	0.9	2.0	-0.4	4,291	2.4	12.3	-0.8	4,299

Note: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Recumbent length is measured for children under age 2; standing height is measured for all other children.
² Includes children who are below –3 standard deviations (SD) from the WHO Child Growth Standards population median
³ Excludes children whose mothers were not interviewed
⁴ First-born twins (triplets, etc.) are counted as first births because they do not have a previous birth interval.

5 Information available only for children age 0-35 months

Includes children whose mothers are deceased
 Excludes children whose mothers were not weighed and measured, children whose mothers were not interviewed, and children whose mothers are pregnant or gave birth within the preceding 2 months. Mother's nutritional status is defined using body mass index (BMI) for mothers age 20–49 and BMI-for-age for mothers age 15–19 (as presented in Tables 11.14.1 and 11.14.2).
 For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

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 24–59	75.7 30.3	57.5 24.3	30.9 14.7	56.8 23.9	30.0 13.5	3,541 4,774
	30.3	24.3	14.7	23.9	13.3	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
•	00					
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	46.2 46.5	38.2	18.7	33.2 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

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
Sex				· · · · · · · · · · · · · · · · · · ·
Male	96.6	57.3	80.3	1,889
Female	96.9	59.1	82.2	1,749
Breastfeeding counselling during ANC ²				
Counselled	97.1	58.8	82.1	3,054
Not counselled/don't know	97.3	56.7	81.6	374
Did not receive ANC	90.5	51.5	67.1	209
Assistance at delivery				
Health personnel ³	96.9	59.5	81.1	3,185
Traditional birth attendant	96.5	55.5	82.9	260
Other	96.5	44.6	85.5	106
No one	94.1	33.3	75.9	87
Place of delivery				
Health facility	97.0	59.4	81.2	3,137
At home Other	95.3 (97.9)	50.9	81.4	469 31
	(97.9)	(46.5)	(75.2)	31
Type of delivery		0= 4		
Vaginal birth Caesarean section	97.3 94.8	65.4 30.6	84.5 68.6	2,882 755
	94.0	30.0	00.0	755
Breastfeeding counselling during PNC ^{2,4}				
Counselled	97.8	56.9	81.6	2,648
Not counselled/don't know	94.9	63.6	83.6	843
Breastfeeding observation during PNC ^{2,4}				
Observed	98.1	56.9	81.8	2,506
Not observed/don't know	94.6	62.7	82.9	985
Residence				
Urban	96.5	56.4	79.8	1,700
Rural	97.0	59.7	82.5	1,938
Region				
Western	96.8	65.0	80.4	212
Central Greater Accra	97.1 98.7	51.5 43.8	77.1 74.2	380 427
Volta	98.9	43.6 68.4	88.9	135
Eastern	97.0	48.3	81.5	252
Ashanti	94.0	61.2	78.3	666
Western North	96.8	64.0	61.2	101
Ahafo	94.9	43.9	68.0	81
Bono Bono Foot	97.8	63.5	90.0	117
Bono East Oti	97.6 97.0	70.6 65.1	88.4 91.3	202 128
Northern	96.5	56.5	85.5	406
Savannah	95.5	63.3	94.1	111
North East	98.9	66.8	86.5	116
Upper East	97.4	66.4	80.4	196
Upper West	98.2	61.2	92.6	109
Mother's education				
No education	97.1	61.6	85.9	761
Primary Secondary	97.1	58.2	83.7	562
Secondary More than secondary	96.2 98.4	57.5 54.3	79.6 75.8	1,979 336
more than secondary	50.4	0-7.0	70.0	550

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

Children given nothing other than breast milk to eat or drink during the first 2 days after delivery 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

		ong youngest childre onths living with thei		Among all age 12–23		Among all age 0–23 i	
Background characteristic	Percentage exclusively breast-feeding	Percentage receiving mixed milk feeding ¹	Number of children	Percentage currently breast- feeding 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
	34.0	12.5	303	07.5	093	21.0	1,033
Residence	40.0	40.0	207	04.0	050	05.7	4.054
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	710
Fourth	45.1	21.4	164	54.3	310	24.1	653
Highest	52.3	21. 4 17.0	131	54.3 52.4	313	32.1	584
i iigiiest							
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

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	Unknown⁴	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 11.6 Liquids consumed by children in the day or night preceding the interview

Percentage of youngest children under age 2 living with their mother by type of liquids consumed in the day or night preceding the interview, according to age and breastfeeding status, Ghana DHS 2022

			Fresh, po packaged	Fresh, powdered, and packaged animal milk	Yoguri	ogurt drinks	Soy milk and nut milks	and nut ks		Sodas, malt drinks,	Tea, coffee drii	Tea, coffee, and herbal drinks		Other	Other liquids	Number of youngest children
Age in months	Plain water	Infant formula ¹	Any	Sweet/ flavoured	Any	Sweet/ flavoured	Any	Sweet/ flavoured	Fruit juice and fruit- flavoured drinks	sports drinks, and energy drinks	Any	Sweet/ flavoured	Clear broth and clear soup	Any	Sweet/ flavoured	under age 2 living with their mother
						BRE	ASTFEEDIN	BREASTFEEDING CHILDREN	EN				-			
5	19.1	76	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00	0.0	0.0	10	0	207
2-3	40.8	1.5	. 4	- - - -	0.0	0.0	0.0	000	0.0	0.0	9.0	0.0	0.0	- K	0.0	256
2-4	72.2	24.6	7.8	. s.	0:0	0.0	0.0	0.0	i e:	0.2	0:0	0.0	2.6	4.	0.0	250
8-9	96.5	31.6	16.4	7.8	0.3	0.3	0.0	0.0	2.4	3.5	0.5	0.2	5.9	4.8	0.5	418
9–11	97.0	34.3	12.8	8.8	0.3	0.2	0.0	0.0	8.9	0.9	1.7	1.2	9.2	7.6	0.1	403
12–17	7.76	20.9	12.7	7.7	1.6	1.4	0.0	0.0	7.5	9.6	4.0	2.7	12.5	13.0	6.0	77.1
18–23	8.96	10.3	11.0	6.2	0.8	0.3	0.0	0.0	9.7	10.8	4.5	2.4	8.2	11.6	4.0	411
0–5	42.7	13.0	3.5	4.1	0.0	0.0	0.0	0.0	9.0	0.1	0.0	0.0	0.8	6.0	0.0	802
6–11	96.8	32.9	14.6	8.3	0.3	0.3	0.0	0.0	4.6	4.7	1.1	0.7	7.5	6.2	0.3	821
12–23	97.4	17.2	12.1	7.2	1.3	1.0	0.0	0.0	8.3	10.0	4.2	5.6	11.0	12.5	0.7	1,182
6-23	97.1	23.6	13.1	7.6	6.0	0.7	0.0	0.0	6.7	7.9	2.9	1.8	9.6	6.6	9.0	2,002
Total	81.6	20.6	10.4	5.9	0.7	0.5	0.0	0.0	2.0	5.6	2.1	1.3	7.1	7.3	4.0	2,804
						NONB	REASTFEEL	NONBREASTFEEDING CHILDREN	REN							
0-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7
2–3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2
45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12
8-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7
9–11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13
12–17	95.5	32.9	40.0	28.0	5.6	0.3	0.0	0.0	27.6	26.1	4.7	2.7	15.7	26.3	0.0	116
18–23	94.5	17.6	21.8	15.2	2.9	4.8	0.0	0.0	15.6	23.5	9.7	5.3	12.7	23.7	0.0	419
0-5	(52.6)	(27.0)	(6.1)	(6.1)	(3.3)	(3.3)	(0.0)	(0.0)	(2.7)	(0.0)	(0.0)	(0.0)	(0.0)	(9.4)	(0.0)	24
6–11	(70.0)	(49.3)	(8.5)	(8.5)	(0.0)	(0.0)	(0.0)	(0.0)	(1.1)	(0.0)	(0.0)	(0.0)	(9.6)	(4.2)	(0.0)	25
12–23	94.7	20.9	25.8	18.0	2.8	1.5	0.0	0.0	18.2	24.1	7.0	4.8	13.4	24.3	0.0	535
6–23	93.6	22.2	25.0	17.6	2.7	4.1	0.0	0.0	17.5	23.0	6.7	4.6	13.2	23.4	0.0	260
Total	92.0	22.4	24.3	17.1	2.7	1.5	0.0	0.0	16.9	22.1	6.4	4.4	12.7	22.8	0.0	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. Infant formula includes Cerelac, NAN, and SMA.

Table 11.7 Foods consumed by children in the day or night preceding the interview

Percentage of youngest children under age 2 living with their mother by type of foods consumed in the day or night preceding the interview, according to age and breastfeeding status, Ghana DHS 2022

						Solic	Solid or semisolid foods	spo						
Age in months	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 A- rich fruits and vegetables ⁶	Other fruits and vegetables ⁷	Insects and other small 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
					BR	EASTFEEDI	BREASTFEEDING CHILDREN							
1-0	2.0	0.5	9.0	0.0	0.7	0.3	0.2	0.5	0.0	0.3	0.3	0.3	0.5	297
7-3	ر دن د	. ·	0.0	0.0	- c	0.0	- o	0. c	0.0	0.0	0.0	. · ·	- O. 4	720
. &	62.2	10.0	- 6	0.0	21.5	7.5	5.7 0.41	34.0	0.0	5.6	3.2	7.0	o 6	418
9-11	73.8	24.2	22.4	4.	49.2	17.0	28.8	59.1	0.1	17.2	26.5	4.0	8.6 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	9.9	771
18–23	84.7	40.1	47.5	2.8	67.3	16.8	38.9	C.1.5	0.0	16.9	24.4	4.2	4.7	41.1
0-5	8.6	9.0	0.8	0.2	1.1	0.3	6.0	1.7	0.0	0.5	1.1	0.7	0.7	802
6–11 12–23	67.9 84.9	16.9 36.6	14.0 33.7	1.2	35.1 62.6	12.1 20.0	21.3 35.4	46.4 69.3	0.0	13.1 15.6	18.5 24.8	2.3 3.5	5.7 5.9	821 1,182
6–23	6.77	28.5	25.6	1.5	51.3	16.8	29.6	6.69	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
					NONE	REASTFEE	NONBREASTFEEDING CHILDREN	Z						
0–1	*	*	*	*	*	*	*	*	*	*	*	*	*	7
2-3	*	*	*	*	*	*	*	*	*	*	*	*	*	2
4–5	*	*	*	*	*	*	*	*	*	*	*	*	*	12
8-9	*	*	*	*	* •	*	*	* •	*	*	*	*	* •	= :
9–11	k (* ·	k (* ·	* ·	k .	* (k •	k (k .	* (k (k (13
12–1 <i>/</i> 18–23	90.9 91.6	34.4 53.9	21.8 42.9	2.4 0.7	79.1 79.2	45.1 37.5	36.7 38.5	83.1 80.5	0.0	21.1 24.3	46.9 47.5	18.0 11.0	න හ න ග	116 419
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 12–23	(82.0) 91.4	(16.1) 49.7	(37.0) 38.3	1.1	(46.3) 79.2	(22.7) 39.1	(34.6) 38.2	(36.4) 81.1	(0.0) 0.0	(7.0) 23.6	(12.0) 47.4	(0.0) 12.5	(1.5) 6.7	25 535
6-23	91.0	48.2	38.3	1.1	7.77	38.4	38.0	79.1	0.0	22.9	45.8	12.0	6.5	260
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.

Includes bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, and tom brown

Includes bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, and tom brown

Includes bread, rice, maize, seasava, yam, cocoyam, plantain, and white sweet potato

Includes beans, bambara beans, groundhut paste, groundhut soup, agushi stew, neri soup, and cashews

Includes beans, bambara beans, groundhut soup, agushi stew, neri soup, and kagashi

Includes bard and, soft cheeses yourd south wagashi

Includes pizzard, liver, sausages, corned beef, beef, goat, sheep, pork, grasscutter, chicken, guinea fowl, fish, dried fish, koobi, anchovies, smoked herring, crab, and shrimp

Includes gizzard, liver, sausages, corned beef, beef, goat, sheep, pork, grasscutter, chicken, guinea fowl, fish, dried fish, koobi, anchovies, ademe, ayoyo, cassava leaves or other dark green leafy vegetables such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves or other dark green leafy vegetables such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves or other dark green leafy vegetables. and African star apple

Includes tomatoes, okrv, garden eggs, cabbage, mushrooms or other vegetables, and banana, pineapple, avocado pear, watermelon, orange, or other fruits

8 Includes termites

Table 11.8 Minimum dietary diversity, minimum meal frequency, and minimum acceptable diet among children

Percentage of youngest children age 6–23 months living with their mother who received minimum dietary diversity, minimum meal frequency, and a minimum acceptable diet during the day or night preceding the survey, by breastfeeding status, according to background characteristics, Ghana DHS 2022

Minimum dietary meal acceptable children age feeding dietary meal acceptable children age feeding dietary frequency ² diet ² 6–23 months frequency ⁴ diversity ¹ frequency ² dietary diversity ¹ frequency ² dietary diversity ¹ frequency ² dietary frequency ² dietary diversity ¹ frequency ² dietary d	Number of breastfed children age					ilieli iliotilei, percentage wilo received.	
28.7 47.1 19.2 821 (51.0) (31.1) 46.3 53.7 13.1 418 * * 49.8 48.5 25.6 403 * * * 49.8 48.5 25.6 403 *	6-23 months		Number of Minimum nonbreastfed acceptable children age diet ⁶ 6–23 months	of fed Minimum tge dietary iths diversity ¹	Minimum meal (Minimum N acceptable diet ⁸	Number of all children age 6-23 months
1 28.7 47.1 19.2 82.1 (51.0) (31.1) 4.8 6.3 47.7 19.2 25.6 40.8 * * -1.7 40.2 25.6 40.8 * 44.5 2.3 40.2 25.6 40.8 * 44.5 40.2 46.5 20.0 1,008 28.2 41.1 e 40.2 46.5 23.0 1,110 22.7 39.9 e 40.2 46.5 23.0 1,110 20.4 46.1 all 45.9 28.7 28.7 1,110 20.4 33.4 stem 45.9 29.3 28.7 30.8 46.1 30.8 46.1 stem 45.9 29.3 28.7 11.1 22.7 30.9 stem 46.8 52.6 23.1 1,110 20.4 31.4 stem 46.8 52.6 23.1 1,11 20.2 24.2 32.1							
8 16.3 53.7 13.1 418 * 11 41.5 40.2 25.6 40.3 * * 17 49.8 48.5 30.7 771 33.7 44.5 1.0 48.5 20.0 1,008 28.2 41.1 ee 40.2 46.5 29.8 41.1 22.7 39.9 an 40.2 46.5 29.8 1,008 28.2 41.1 an 40.2 48.3 28.7 995 24.2 39.9 an 40.2 48.3 28.7 995 24.2 39.9 an 48.9 29.3 893 30.8 46.1 39.9 an 48.9 70.3 35.6 19.0 20.4 33.4 an 48.8 57.6 34.5 19.2 44.4 44.9 an 46.8 52.6 30.8 46.1 44.8 44.8 44.8 44.8 44	821		(21.9) 25	28.7	47.3	19.3	845
-11 41.5 40.2 25.6 403 * * 43.2 48.5 29.8 411 22.7 39.9 e 40.2 46.5 29.3 411 22.7 39.9 e 40.2 46.5 29.3 411 22.7 39.9 dence 43.2 48.3 28.7 995 24.2 39.9 dence 45.9 29.3 883 30.8 46.1 an 38.4 45.4 23.1 1,110 20.4 33.4 an 42.1 45.4 23.1 1,110 20.4 33.4 stem 42.1 45.4 23.1 1,110 20.4 34.1 stem 42.1 45.4 23.1 1,110 20.4 34.1 stem 42.1 45.0 34.5 18.2 40.1 40.1 stem 44.7 54.0 34.5 12.2 43.4 44.4 stem <td></td> <td>*</td> <td>*</td> <td>16.2</td> <td>53.2</td> <td>13.1</td> <td>429</td>		*	*	16.2	53.2	13.1	429
17 49.8 48.5 30.7 771 33.7 44.5 23 46.5 29.8 411 22.7 39.9 e 40.2 46.5 23.0 1,008 28.2 41.1 sene 43.2 48.3 28.7 995 24.2 39.9 an 45.9 29.3 883 30.8 46.1 an 45.9 29.3 883 30.8 46.1 al 38.4 45.4 23.1 1,110 20.4 33.4 al 38.4 45.4 23.1 1,110 20.4 36.0 stem 42.1 43.8 27.4 117 30.2 36.4 40.1 stem 48.9 70.3 35.6 180 17.0 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 4	403	*	* 13	41.7	41.1	25.8	416
23 52.6 46.0 29.8 411 22.7 39.9 ele 40.2 46.5 23.0 1,008 28.2 41.1 denele 43.2 46.5 23.0 1,008 28.2 41.1 denele 45.9 49.9 29.3 893 30.8 46.1 all 38.4 45.4 23.1 1,110 20.4 33.4 attent 44.7 54.0 34.5 192 46.1 33.4 attent 44.7 54.0 34.5 192 43.4 44.9 attent 44.7 54.0 34.5 192 44.9 44.9 attent 45.5 47.0 24.3 26.3 34.2	771		20.1 116	49.1	49.9	29.3	887
e 40.2 46.5 23.0 1,008 28.2 41.1 dence 43.2 48.3 28.7 995 24.2 39.9 dence 45.9 48.3 28.3 1,110 20.4 38.4 an 45.9 49.9 29.3 893 30.8 46.1 an 45.4 45.4 23.1 1,110 20.4 33.4 stern 42.1 43.8 27.4 117 (30.2) (52.4) stern 48.9 70.3 35.6 180 17.0 40.1 stern 48.9 70.3 35.6 180 46.4 33.4 ater Accrae 46.8 50.7 24.7 132 (43.4) (44.9) ater Accrae 46.8 50.7 24.7 42.7 44.4 44.4 44.4 ater Accrae 46.1 23.3 34.2 29.9 45.8 45.8 ater Meet 47.0 24.3 24.	411		13.0 419	46.2	49.9	21.3	830
40.2 46.5 23.0 1,008 28.2 41.1 42.2 48.3 28.7 995 24.2 39.9 42.4 45.4 23.1 1,110 20.4 33.4 42.1 43.8 27.4 117 (30.2) (52.4) 48.9 70.3 35.6 180 17.0 40.1 48.9 70.3 35.6 180 (44.9) (44.9) 48.5 50.7 24.7 132 (31.3) (27.6) 41.5 54.3 26.3 342 29.9 45.8 40.1 22.0 11.7 116 (18.0) (33.9) 42.1 42.1 24.3 65 (7.8) (43.5) 42.1 40.9 29.9 11.7 65 (18.0) (33.9) 42.1 49.8 11.7 63 (18.0) (33.9) 42.1 49.8 35.3 116 ** 42.1 49.8 35.3 116 ** 43.9 35.3 116 ** 44.1 50.4 28.2 19.3 473 12.3 27.0 33.8 44.1 18.1 32.8 14.9 34.8						,	
45.9 49.9 29.3 893 30.8 46.1 33.4 45.4 23.1 1,110 20.4 33.4 46.1 38.4 45.4 23.1 1,110 20.4 33.4 46.1 38.4 45.4 23.1 1,110 20.4 33.4 46.9 70.3 35.6 180 17.0 40.1 40.9 33.5 50.7 24.7 132 (43.4) (44.9) (44.9) 31.9 50.4 33.4 46.1 37.5 47.0 24.3 65 (18.8) (16.4) 37.5 47.0 24.3 65 (18.8) (32.5) 45.8 46.1 37.5 47.0 24.3 65 (18.0) (33.9) 45.8 46.1 40.9 29.9 14.7 63 (14.0) (33.9) 45.8 49.9 25.0 14.7 63 (14.0) (33.9) 45.8 49.9 35.3 116	1,008		12.7 282	40.4 42.5	49.4 78.7	20.8 26.1	1,290
45.9 49.9 29.3 893 30.8 46.1 38.4 45.4 23.1 1,110 20.4 33.4 42.1 43.8 27.4 117 (30.2) (52.4) 48.9 70.3 35.6 180 17.0 40.1 48.9 70.3 35.6 180 17.0 40.1 48.9 70.3 35.6 180 17.0 40.1 46.8 52.6 30.8 84 (3.8) (16.4) 46.8 50.7 24.7 132 (3.3) (16.4) 33.5 50.7 24.7 24.7 (44.9) (44.9) 41.5 54.3 26.3 34.2 29.9 45.8 41.5 54.3 24.6 55 (18.9) (32.5) 41.5 47.1 24.3 26.3 14.3 27.9 46.8 41.1 40.1 23.3 14.3 27.9 14.4 14.9 14.3 14.3	Cee			6.24	10.	70.1	0 17,1
45.9 49.9 29.3 893 30.8 46.1 m 45.9 49.9 29.3 1,110 20.4 33.4 m 42.1 45.4 23.1 1,110 20.4 33.4 ar Accra 48.9 70.3 35.6 180 17.0 40.1 ar Accra 46.8 52.6 30.8 84 (3.4) (44.9) ar Accra 46.8 52.6 30.8 84 (3.4) (44.9) n 46.8 52.6 30.8 84 (3.8) (16.4) n 33.5 50.7 24.7 24.7 44.9 (44.9) n 41.5 54.3 26.3 34.2 46.8 46.8 ast 42.1 40.1 23.3 46. (7.8) 43.5 East 42.1 43.5 44.3 47.3 47.7 47.3 47.3 ast 49.8 42.9 36.3 47.3 47.3							
m 42.1 43.8 27.4 117 (30.2) (52.4) II 48.9 70.3 35.6 180 17.0 40.1 Sacraca 44.7 54.0 34.5 192 (43.4) (44.9) II 33.5 50.7 24.7 132 (31.3) (27.6) II 41.5 54.3 26.3 342 29.9 44.8 II 7 6.3 4.6 55.6 (18.8) (16.4) II 7 6.3 34.5 (18.8) (16.4) II 8 37.7 53.4 24.6 55.6 (18.8) (32.5) Sast 47.0 24.3 65 (18.8) (32.5) Sast 47.0 24.3 65 (18.8) (33.9) Sast 42.1 47.0 24.3 65 (18.8) (33.9) East 42.1 43.5 26.7 72 4.7 (18.0) (33.9) East 55.5 49.9 36.1 69 4.8 S education 34.9 39.2 19.3 473 12.3 27.0 S education 33.8 44.1 18.1 32.8 14.9 34.8 Aunucation 33.8 44.1 18.1 32.8 14.9 39.4	893		17.9 314	45.9	52.6	26.3	1,206
m 42.1 43.8 27.4 117 (30.2) (52.4) 1	1,110			37.4	45.9	20.9	1,356
42.1 43.8 27.4 117 (30.2) (52.4) 48.9 70.3 35.6 180 17.0 40.1 48.9 70.3 35.6 180 17.0 40.1 46.8 52.6 30.8 84 (3.8) (16.4) 46.8 56.7 24.7 132 (31.3) (27.6) 41.5 56.3 24.6 55 (18.8) (32.5) 45.1 40.1 23.3 46 7.8 45.8 37.5 47.0 24.3 65 (7.8) (43.5) 31.9 22.0 11.7 116 (18.0) (32.5) 40.9 29.9 11.7 72 7 7 7 40.9 29.9 11.7 69 8 7 7 49.8 42.9 36.1 69 8 7 8 55.5 49.9 35.3 116 8 8 8 49.8 42.9 36.1 69 8 8 8 8 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
48.9 70.3 35.6 180 17.0 40.1 44.7 54.0 34.5 192 (43.4) (44.9) 46.8 52.6 30.8 84 (3.8) (16.4) 33.5 50.7 24.7 132 (31.3) (27.6) 41.5 54.3 26.3 342 29.9 45.8 37.7 53.4 24.6 55 (18.8) (32.5) 45.1 40.1 23.3 46 * * 45.1 40.1 23.3 46 * * * 45.1 40.1 23.3 46 * * * 45.1 47.0 24.3 65 (7.8) (43.5) 40.9 29.9 14.3 279 (24.7) (31.4) 40.9 29.9 14.3 279 (24.7) (31.4) 49.8 42.9 36.1 69 * * 49.9 35.3 116 * * 55.5 49.9 35.3 14 * * 37.7 49.1 27.8 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	117		(18.2) 40	44.7	6.03	25.0	157
44.7 54.0 34.5 192 (43.4) (44.9) 46.8 52.6 30.8 84 (3.8) (16.4) 33.5 50.7 24.7 132 (31.3) (27.6) 41.5 54.3 26.3 342 29.9 45.8 37.7 53.4 24.6 55 (18.8) (32.5) 45.1 40.1 23.3 46 7.8 (3.5) 47.0 24.3 65 (7.8) (43.5) 42.1 43.5 26.7 72 * 40.9 29.9 14.3 279 (24.7) (31.4) 49.8 42.9 36.1 69 * * 49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 32.8 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	180			46.1	68.9	27.2	268
46.8 52.6 30.8 84 (3.8) (16.4) 33.5 50.7 24.7 132 (31.3) (27.6) 47.1 54.3 26.3 342 29.9 45.8 37.5 40.1 23.3 46 (7.8) (32.5) 45.1 40.1 23.3 46 (7.8) (43.5) 37.5 47.0 24.3 65 (7.8) (43.5) 40.3 22.0 11.7 116 (18.0) (33.9) 40.9 29.9 14.3 279 (24.7) (31.4) 49.8 42.9 36.1 69 * * 49.9 35.3 116 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 33.8 44.1 18.1 328 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	192		(21.2) 97	44.7	58.9	30.0	289
33.5 50.7 24.7 132 (31.3) (27.6) 41.5 54.3 26.3 342 29.9 45.8 45.7 53.4 24.6 55 (18.8) (3.5) 45.1 40.1 23.3 46 (7.8) (43.5) 37.5 47.0 24.3 65 (7.8) (43.5) 31.9 22.0 11.7 16 (18.0) (33.9) 40.9 29.9 14.3 279 (24.7) (31.4) 19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 (1.9) (5.5) 49.9 35.3 116 * * 55.5 49.9 35.3 17 * * 37.7 49.1 27.8 73 * * 44.1 50.4 28.2 1,060 28.0 39.4	84			40.1	46.1	24.0	107
41.5 54.3 26.3 342 29.9 45.8 37.7 53.4 24.6 55 (18.8) (32.5) 45.1 40.1 23.3 46 * * 37.5 47.0 24.3 65 (7.8) (43.5) 42.1 43.5 26.7 72 * * 42.1 43.5 26.7 72 * 40.9 29.9 14.3 27 (24.7) (31.4) 19.2 42.9 36.1 69 * * 49.8 42.9 35.3 116 * * 55.5 49.9 35.3 16 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 47.3 12.3 27.0 33.8 44.1 18.1 32.8 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	132		(21.7) 43	32.0	48.4	24.0	175
37.7 53.4 24.6 55 (18.8) (32.5) 45.1 40.1 23.3 46 * * * 45.1 40.1 23.3 46 (7.8) (43.5) 31.9 22.0 11.7 116 (18.0) (33.9) 42.1 43.5 26.7 72 * * 40.9 29.9 14.3 279 (24.7) (31.4) 19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 * * * 55.5 49.9 35.3 116 * * * 37.7 49.1 27.8 73 * * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	342		20.5	42.7	56.1	24.6	476
45.1 40.1 23.3 46 * * 37.5 47.0 24.3 65 (7.8) (43.5) 42.1 43.5 26.7 72 * (43.5) 40.9 29.9 14.3 279 (24.7) (31.4) 49.8 42.9 36.1 69 * * 49.8 42.9 36.3 116 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 32.8 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	55		_	36.5	52.5	20.3	72
37.5 47.0 24.3 65 (7.8) (43.5) 31.9 22.0 11.7 116 (18.0) (33.9) 40.9 29.9 14.3 279 (24.7) (31.4) 49.8 42.9 36.1 69 * * 49.8 42.9 36.3 116 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 32.8 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	46			44.7	40.0	20.8	54
31.9 22.0 11.7 116 (18.0) (33.9) 42.1 43.5 26.7 72 3.49 40.9 29.9 14.3 279 (24.7) (31.4) 19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 47.3 12.3 27.0 33.8 44.1 18.1 32.8 14.9 39.4 44.1 50.4 28.2 1,060 28.0 39.4	65			38.8	49.5	18.8	85
42.1 43.5 26.7 72 * * 40.9 29.9 14.3 279 (24.7) (31.4) 19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	116		(4.4) 21	32.2	19.2	10.6	137
40.9 29.9 14.3 279 (24.7) (31.4) 19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	72	*	* 10	40.2	41.2	23.7	82
19.2 44.8 11.7 63 (1.9) (5.5) 49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	279			40.2	30.0	13.9	302
49.8 42.9 36.1 69 * * 55.5 49.9 35.3 116 * * 37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	63		(1.9)	17.5	44.3	10.5	72
55.5 49.9 35.3 116 * * * * * * * * * * * * * * * * * *	69		L	51.4	44.3	34.5	9/
37.7 49.1 27.8 73 * * 34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	_	*	* 17	55.8	48.8	33.9	133
34.9 39.2 19.3 473 12.3 27.0 33.8 44.1 18.1 328 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4		*	*	36.8	49.0	26.3	79
3.3.8 44.1 18.1 3.28 14.9 34.8 44.1 50.4 28.2 1,060 28.0 39.4	473		5.1	33.0	α α c	17 K	073
44.1 50.4 28.2 1,060 28.0 39.4	2,50			2.50	20.00	5.7	207
t.50 0.02 000,1 2.02 t.00	328			0.6	0.03	5. 7.	1 380
47.5 141 38.1 58.1	47.5 141 38.1	58.1	28.0	62.3	59.9	39.7	236

Continued...

Table 11.8—Continued													
	Among you. living with	Among youngest breastfed children age 6–23 mont living with their mother, percentage who received:	children age 6- ercentage who	-23 months received:	Among younge	st nonbreastfe mother, po	Among youngest nonbreastfed children age 6–23 months living with their mother, percentage who received:	3–23 months li eceived:	ving with their	Among all you their	Among all youngest children age 6–23 months living witl their mother, percentage who received:	age 6–23 mon tage who rece	hs living with ved:
Background	Minimum dietary	Minimum meal	Minimum acceptable	Number of breastfed children age	Minimum milk feeding	Minimum dietary	Minimum meal	Minimum acceptable	Number of nonbreastfed children age	Minimum dietary	Minimum meal	Minimum acceptable	Number of all children age
characteristic	diversity ¹	frequency ²	diet	6-23 months	frequency ⁴	diversity	frequency ⁵	diet	6-23 months	diversity	frequency'	diet®	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	82	34.8	41.9	19.7	520
Middle	37.6	48.6	22.5	418	21.3	26.5	49.1	9.2	126	35.0	48.7	19.4	544
Fourth	50.4	20.8	30.6	325	28.0	46.4	74.3	13.5	129	49.3	57.5	25.8	454
Highest	56.3	29.0	40.3	282	43.2	9.73	61.8	25.2	149	26.7	6.65	35.1	431
Total	41.7	47.4	25.8	2,002	26.2	40.5	54.9	14.9	260	4.14	49.0	23.4	2,562

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.

' Minimum dietary diversity is receiving foods from five or more of the following eight food groups: a. breast milk; b. grains, white/pale starchy roots, tubers, and plantains; c. beans, peas, lentils, nuts, and seeds; d. dairy products (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; h. other fruits and vegetables.

For breastfed children, minimum meal frequency is receiving solid, semisolid, or soft food at least twice a day for infants age 6-8 months and at least three times a day for children age 9-23 months.

For breastfed children, minimum acceptable diet is receiving minimum dietary diversity (footnote 1) and minimum meal frequency (footnote 2)

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.

For nonbreastfed children, minimum meal frequency is receiving solid, semisolid, or soft food or milk feeds at least four times a day. At least one of the feeds must be a solid, semisolid, or soft feed. 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).

7 Minimum meal frequency is receiving the minimum recommended number of feeds per day according to age and breastfeeding status as defined in footnote 2 and 5.
8 Minimum acceptable diet is receiving minimum dietary diversity (footnote 1), minimum meal frequency (footnote 2 for breastfed children and footnote 5 for nonbreastfed children), and minimum milk feeding frequency (footnote 4 for nonbreastfed children).

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

		Unhe	althy feeding pra	actices:	Number of youngest _ children age 6–
Background characteristic	Eggs and/or flesh food ¹	Sweet beverage ²	Unhealthy food ³	Zero vegetables or fruits ⁴	23 months living with their mother
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 Bono East	61.6 59.2	27.5	22.0 25.0	30.6	85 137
Oti	59.2 69.6	28.9 13.8	25.0 22.0	35.9 29.0	82
Northern	51.3	18.7	22.0 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	96.8 3,638
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 Number of children born in the last 2 years	58.2 3,638
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	58.2 3,638
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 Number of youngest children age 0–5 months living with their mother	52.6 826
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 Number of youngest children age 0–5 months living with their mother	14.5 826
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 Number of children age 12–23 months	67.2 1,823
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 Number of youngest children age 6–8 months living with their mother	69.4 429
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	41.4 2,562
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 Number of youngest children age 6–23 months living with their mother	49.0 2,562
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 Number of youngest children age 6–23 months living with their mother who were not breastfed	26.2 560
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 Number of youngest children age 6-23 months living with the mother	23.4 2,562
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 Number of youngest children age 6—3 months living with their mother	62.3 2,562
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 Number of youngest children age 6–23 months living with their mother	31.6 2,562
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 Number of youngest children age 6–23 months living with their mother	32.9 2,562
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 Number of youngest children age 6–23 months living with their mother	31.2 2,562
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 Number of children age 0–23 months	21.0 3,541

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

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 12-23	52.9 47.9	845 1,717
Child's sex Male Female	50.1 49.0	1,290 1,273
Age 15–19 20–29 30–39 40–49	44.0 50.0 49.1 52.6	150 1,161 1,037 214
Residence Urban Rural	53.3 46.2	1,206 1,356
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	49.0 53.5 65.7 63.9 52.3 47.5 55.8 44.6 61.0 25.7 44.7 38.0 31.4 40.8 65.1 39.6	157 268 289 107 175 476 72 54 85 137 82 302 72 76 133 79
Education No education Primary Secondary More than secondary	36.7 45.8 54.9 53.9	540 397 1,389 236
Wealth quintile Lowest Second Middle Fourth Highest	38.4 48.0 50.3 57.1 58.4	613 520 544 454 431
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

-		Anaemia status by	haemoglobin leve	l	Number of
Background characteristic	Any (<11.0 g/dl)	Mild (10.0–10.9 g/dl)	Moderate (7.0–9.9 g/dl)	Severe (< 7.0 g/dl)	children age 6– 59 months
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 Upper West	69.3 61.2	27.0 29.0	40.6 30.5	1.8 1.7	184 122
• •	01.2	29.0	30.5	1.7	122
Mother's education					0=0
No education	60.0	28.7	29.7	1.6	858
Primary	58.7	31.5	25.9	1.3	517
Secondary More than secondary	44.0 34.7	26.2 27.4	17.3 7.1	0.5 0.2	1,815 300
•	34.7	21.4	7.1	0.2	300
Wealth quintile Lowest	63.9	30.0	32.3	1.6	900
Second	53.2	29.0	32.3 23.3	1.0	789
Middle	48.1	29.3	23.3 18.3	0.5	769 742
Fourth	43.2	29.3 27.7	14.9	0.5 0.6	730
Highest	31.2	22.4	8.8	0.6	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

	Amo	ng children age 6–59 mo	onths:	Among children a	ge 12–59 months:
Background characteristic	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					
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 Bono	53.6 47.8	81.5 83.3	164 251	53.5 41.1	144 225
Bono East			390	42.6	347
Oti	47.6 37.0	67.6 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

na = not applicable

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)

Deworming for intestinal parasites is commonly done for helminths and schistosomiasis.
 Information available for children age 0–35 months only

Table 11.14.1 Nutritional status of women age 20-49

Among women age 20-49, percentage with height below 145 cm, mean body mass index (BMI), and percentage with specific BMI levels, according to background characteristics, Ghana DHS 2022

	Short stature	tature					Body mass index				
Background	Height below	Number of	Mean body mass index	18.5–24.9	<18.5	17.0–18.4	<17 (moderately and severely	≥25.0 (total over- weight or	25.0–29.9	≥30.0	Number of
characteristic	145 cm	women	(BMI)	(total normal)	(total thin)	(mildly thin)	thin)	opese)	(overweight)	(opese)	women
Age	u	2 570	7 70	α U	ď	α	,	37.0	0.70	, 0	2 262
30_39		2,27.9	4.4. 4.8	30.0			2: C	2.72 2.02	24.0	2.5.2	2,202 1 935
40-49	0.0	1,533	27.1	35.9	. 4 - ა	9.5 9.3 9.3	1.0	59.7	30.0	29.3	1,508
Residence											
Urban	0.4	3,663	27.1	36.8	3.5	2.7	0.8	59.7	30.9	28.8	3,342
Kural	0.5	2,680	24.2	57.1	6.1	4.9	1.2	36.7	24.3	12.5	2,362
Region Western	9	304	26.1	42.5	Δ	2.4	ر بر	73.0	بر بر	9.16 8.16	ን አ
Central	o e	1 00	- 96.	28.5	פיש	r w		2.00	5.0	26.4	878
Greater Accra	0.00	1076	27.8	36.0	5.0	0.0	0.50	. 19 1. 8.	26.5	34. 9. 45.	026
Volta	- -	272	25.9	44.3	6.4	3.6	1.3	50.8	31.1	19.8	245
Eastern	9.0	515	26.7	40.7	3.4	3.1	0.3	55.8	29.8	26.0	455
Ashanti	0.4	1,261	26.5	37.9	2.6	1.9	0.7	59.5	35.1	24.3	1,152
Western North	1.2	154	25.8	46.5	3.4	2.3	1.2	50.1	31.3	18.8	141
Ahafo	0.5	134	25.8	48.0	3.1	1.7	 	48.9	31.6	17.3	117
Bono	4.0	240	25.6	45.9	4 r	က်းက	0.3	50.0	31.9	18.1	218
Bono East	o.0	708	- 65.5	0.4.0 5.7 F	7.0	ა. ა.	9. c	39.00 4.00	- 44.1	15.7	738 136
Northern	0.0	134	23.1	64.1	. α 4. α	5.0 7.0	2.5 2.5	32.1	2.61	0.5	128
Savannah	0.00	133	23 23.4	61.1	0.0		5. E.	6.66	21.9	9. C	113
North East	0.3	11	22.4	72.5	9.5	6.7	5.7	18.3	14.5	, co	91
Upper East	-	283	23.4	63.9	8.0	7.4	0.5	28.1	18.8	9.4	256
Upper West	0.0	157	23.2	67.8	6.1	5.8	0.3	26.0	18.2	7.8	140
Education No education	ند ح	171	23.7	0,19	7.3	o u	7	21.7	2.2	7	1 056
Priman,	9 6	864	26.0	9.04	. п.	, «	<u>.</u> α	24.2	3.00	7.7.	773
Secondary	0.5	3.548	26.3	42.1	- 0.) (r)	. e	53.9	29.9	23.9	3.185
More than secondary	0.0	759	27.4	40.6	2.4	2.0	0.4	67.0	25.6	31.3	069
Wealth quintile											
Lowest	0.5	866	22.4	7.07	9.2	7.7	1.8	19.8	14.8	2.0	874
Second	9.0	1,108	24.0	52.5	6.9	5.3	1.6	37.6	27.3	10.4	686
Middle	0.6	1,224	25.7	44.5	9.4		5.3	51.0	32.7	18.3	1,109
Fourth	4.0	1,526	28.4	30.0	2.2	1.7	0.1	68.0	30.5	37.5	1,362
	! ;			: :	; ;	: ;	: :	: :	: ;	: :	
Total	0.5	6,343	25.9	45.2	4.6	3.6	1.0	50.2	28.2	22.0	5,704

Note: Body mass index (BMI) is expressed as the ratio of weight in kilograms to the square of height in metres (kg/m^2) . 1 Excludes pregnant women and women with a birth in the preceding 2 months

Table 11.14.2 Nutritional status of adolescent women age 15-19

Among women age 15–19, percentage with height-for-age below -2 standard deviations (SD), mean body mass index (BMI)-for-age z score, and percentage with specific BMI-for-age levels, according to background characteristics, Ghana DHS 2022

	Short stature	tature				Bod	Body mass index-for-age ¹	age1			
Background characteristic	Height-for-age below -2 SD	Number of women	Mean BMI-for- age z score	-1 SD to +1 SD (total normal)	Below -1 SD (total thin) ²	Below -1 SD to -2 SD (mildly thin)	Below -2 SD (moderately or severely thin)	Above +1 SD (total overweight or obese) ³	Above +1 SD to +2 SD (overweight)	Above +2 SD (obese)	Number of women
Residence Urban Rural	3.2 5.2	765 617	0.1 0.2	66.9 73.6	15.1 18.4	13.7	3.7	18.0 8.0	12.6 5.7	5.4	748 591
Region Western	5.0	102	0.0	64.1	21.3	21.3	0.0	14.6	7.1	7.5	96
Central Greater Accra	3.1 3.1	211 193	-0.2 0.3	65.8 64.5	21.3 12.3	19.5 11.3	8; C ;	12.9 23.2	11.9	0.9 7.1	206 193
Volta Eastern	1.4 5.8	67 120	0.1	74.1 67.1	18.0 16.3	18.0 16.3	0.0	8.0 16.7	4.0 7.9	4.0 8.7	66 120
Ashanti Western North	2.5	232	1.00	74.5 72.6	8.5 8.5	3.6	0.4 0.0	17.0	13.0	0.4 6	223
Ahafo	200	788	-0.0	73.6	. t .	12.7	i – 2 5 4 4	25.3	10.7	1.7	26
Bono East	9.0 0.8	09	0.0-	68.8	14.5 24.3	10.4	6.2 6.2	6.9 6.9	5.7	3.1 1.2	28 28
Oţi	5.8	40	-0.2	74.2	14.1	13.1	1.0	11.7	7.4	4.3	37
Northern	3.5	74	4.0-	67.9	27.8	22.3	5.5	4. a	7.5 7.5	2.8	67
North East	0:0 •	29 29	-0.5	73.6	18.5	16.9	0.1 0.0	7.9	6.0	. 6.1	7 7 7 8
Upper East	3.2	51	-0.3 -0.3	68.4 79.6	24.5	19.6 13.6	5.0	7.1 3.8	6.3 8.3	8.0	51
opper west	7.0	<u>†</u>	5	0.6	2	200	?	ò	9	9	ř
Education No education Primary	5.3 5.0	45 214	-0.4 -0.5	77.9 70.9	19.5 20.3	16.4 18.0	3.2 2.3	2.5 8.8	2.5 5.7	0.0 3.1	38 205
Secondary More than secondary	တ *	1,110 14	0.0-	9.69	15.8	13.4	2.4 4.*	14.5 *	10.1	4. 4.	1,081 14
Wealth quintile											
Lowest Second	5.4 6.4	230 268	-0.4 -0.2	73.1 76.6	23.2 17.3	18.0 14.7	5.2 2.6 2.0	3.7 6.1	2.6 5.0	- C - O.	213 257
Middle	8.4.0	347	10.0	69.8	17.2	15.6	9. 7.	13.0	10.2	2.8	343
Highest	3.0	258	0.0	61.1	12.9	11.0		26.0	14.3	11.7	253
Total	4.1	1,383	0.0-	8.69	16.6	14.2	2.4	13.6	9.6	4.0	1,338

Note: Height-for-age and body mass index (BMI)-for-age are expressed in standard deviation units (SD) from the median of the WHO Growth Reference for adolescent women age 15–19. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Excludes pregnant women and women with a birth in the preceding 2 months

Includes adolescent women age 15–19 who are below –2 standard deviations (SD) from the WHO Growth Reference population median

Includes adolescent women age 15–19 who are above +2 standard deviations (SD) from the WHO Growth Reference population median

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				
C	Mean body			0	<17 (moderately	≥25.0 (total over-	0		
Background characteristic	mass index (BMI)	18.5–24.9 (total normal)	<18.5 (total thin)	17.0–18.4 (mildly thin)	and severely thin)	weight or obese)	25.0–29.9 (overweight)	≥30.0 (obese)	Number of men
Age	27 م	010	7 5	ע	-	11 3	ъ	0.6	1 906
30-39	23.1	71.3	. 4 5 t.	9. K	0.7	24.7	20.8	9.5 0.0	1,650
40-49	23.4	63.5	6.4	5.3	1.2	30.1	23.2	6.9	1,238
Residence									
Urban	23.2	2.99	5.8	4.8	1.0	27.5	21.7	5.8	2,707
Rural	22.0	81.6	6.4	5.5	6:0	12.0	10.5	1.5	2,087
Region									
Western	22.5	6.77	4.6	3.8	0.8	17.5	15.8	1.7	319
Central	22.5	71.3	7.7	7.4	0.3	21.0	17.0	4.0	513
Greater Accra	24.1	60.2	4.2	3.5	0.7	35.6	26.6	0.6	884
Volta	23.0	68.7	9.9	3.7	1.9	25.7	19.5	6.3	171
Eastern	22.6	75.9	4.6	3.9	0.7	19.5	16.4	3.1	343
Ashanti	22.6	71.8	7.3	5.8	1.5	20.9	17.4	3.5	878
Western North	22.1	6.77	7.1	5.8	1.4	14.9	12.3	2.6	135
Ahafo	22.0	79.2	9.9	4.9	1.7	14.2	12.7	4. (103
Bono	22.0	81.0	5.9	5.0	0.8	13.2	12.3	0.0	166
Bono East	22.3	79.1	6.9	5.0	1.9	14.1	12.6	4.6	254
ţ.	22.2	79.9	6.4	6.4	0.0	13.7	11.4	2.2	138
Northern	22.0	80.8	9.9	6.7	0.5	12.6	10.6	2.0	374
Savannan	22.4	9.97	0.5	5.2	7.7	13.6	11.8 0.0	. δ	121
North East	8.1.5 6.00	0 0 0	- 0	0.5	? o	4. 6	0.0	o c	900
Upper East	0.22	9 00	4 t vi t	4 1		7. 7	10.7	- c	90
Upper West	27.5	7.97).,	۲.7	0.5	16.1	12.4	3.7	116
Education									
No education	22.0	81.0	9.9	5.9	0.7	12.4	10.2	2.2	295
Primary	22.0	81.7	2.0	4.1	0.8	13.4	11.5	1.8	503
Secondary	22.6	73.2	6.3	5.4	1.0	20.5	16.9	3.6	2,822
More than secondary	23.8	63.7	5.4	4.4	1.0	30.9	23.7	7.3	206
Wealth quintile									
Lowest	21.3	85.4	0.6	7.9	1.1	9.9	5.3	0.3	791
Second	21.7	81.8	7.1	6.5	9.0	1.1	10.2	1.0	692
Middle	21.9	80.0	7.9	7.1	0.8	12.1	6.6	2.1	846
Fourth	23.1	69.5	4.7	3.3	4.1	25.9	22.5	3.4	1,186
Highest	24.4	58.6	3.4	2.7	0.7	38.0	28.0	10.0	1,202
Total 20-49	22.7	73.2	0.9	5.1	0.9	20.8	16.8	3.9	4,794
Total 20-59	22.7	73.2	0.9	5.1	0.9	20.8	16.8	3.9	4,794
Note: Body more specially is	posociation of (IIV	oroseed as the ratio of uncided in bilancements the source of height in matrice (balm2)	omerwelly di +dei	o ording out of	di the contract of the contrac	(ka/m²)			
Note: Body mass maek (B	vii) is expressed	as the fatto of wer	igin ini Milogramis	s to title square o	Height III Hettes	(ng/iii).			

Table 11.14.4 Nutritional status of adolescent men age 15-19

Among men age 15–19, mean body mass index (BMI)-for-age z score and percentage with specific BMI-for-age levels, according to background characteristics, Ghana DHS 2022

				Boc	Body mass index-for-age1	je¹			
Background characteristic	Mean BMI-for-age z score	-1 SD to +1 SD (total normal)	Below -1 SD (total thin) ²	Below –1 SD to –2 SD (mildly thin)	Below -2 SD (moderately or severely thin)	Above +1 SD (total overweight or obese) ³	Above +1 SD to +2 SD (overweight)	Above +2 SD (obese)	Number of men
Residence Urban Rural	-0.7	59.2 52.7	36.7 46.3	27.8 35.0	8.9 11.3	4.0	2.6 0.9	1.4	703 719
	2	i	<u> </u>		2	2	9	į	2
Region Western	6.0-	46.3	50.2	39.2	11.0	3.5	2.4	1.1	92
Central	-1.0	52.3	44.4	30.8	13.7	3.3	3.3	0.0	173
Greater Accra	7.0-	56.8	39.4	31.4	8.0	3.7	1.1	2.7	183
Volta	7.0-	63.7	32.4	27.1	5.3	3.9	3.9	0.0	64
Eastern	-0.8	57.0	42.1	32.4	9.7	6.0	0.0	6.0	121
Ashanti	7.0-	57.0	39.2	29.1	10.0	3.8	2.5	1.3	293
Western North	-0.8	58.3	40.4	33.5	6.9	1.3	0.0	1.3	43
Ahafo	6.0-	48.3	50.5	44.3	6.3	1.1	1.1	0.0	29
Bono	6.0-	56.1	42.1	31.5	10.6	1.8	1.8	0.0	54
Bono East	8.0-	63.5	35.2	25.1	10.0	1.3	1.3	0.0	28
Ōţį	-0.8	58.0	40.4	25.7	14.7	1.5	1.5	0.0	46
Northern	-1.0	48.7	51.3	39.5	11.8	0.0	0.0	0.0	66
Savannah	-0.5	62.8	32.9	27.7	5.2	4.3	4.3	0.0	33
North East	-0.8	64.8	33.6	22.2	11.4	1.6	1.6	0.0	28
Upper East	6:0-	59.3	40.7	29.4	11.3	0.0	0.0	0.0	69
Upper West	6.0-	56.2	43.8	34.2	9.6	0.0	0.0	0.0	37
Education		1	1	c c	7			c c	Ċ
No education	0.1	20.7	4/./	32.0	7.61	0.	0.1	0.0	75
Primary	-1.0	51.5	46.6	34.2	12.4	9. 0	9: .	0.0	218
secondary More than secondary	8. * 0.	% * %	40.7 *	1.1% *	o *	Z.5 *	*	æ.* O	1,134 19
Wealth quintile									
Lowest	-1.0	53.4	46.1	36.7	9.4	0.5	0.5	0.0	283
Second	6:0-	55.7	42.2	28.1	14.1	2.1	2.1	0.0	350
Middle	-0.8	54.5	43.7	34.7	0.6	1.8	1.8	0.0	282
Fourth	-0.8	57.0	40.8	30.5	10.3	2.1	0.5	1.6	268
Highest	9.0-	59.8	33.5	27.3	6.3	6.7	3.8	2.9	240
Total	-0.8	55.9	41.6	31.4	10.1	2.5	1.7	0.8	1,422

Note: Body mass index (BMI)-for-age is expressed in standard deviation units (SD) from the median of the WHO Growth Reference for adolescent men age 15–19. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Includes adolescent men age 15–19 who are below –2 standard deviations (SD) from the WHO Growth Reference population median

Includes adolescent men age 15–19 who are above +2 standard deviations (SD) from the WHO Growth Reference population median

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'	White/ pale starchy roots, tubers, and	Beans, peas,	Nuts and seeds*	Milk, cheese, yogurt, other milk	Meat, fish, poultry, organ meats	Eggs	Dark green leafy veget-	Other vitamin A- rich fruits and vege- tables?	Other vege- tables³	Other fruits®	Insects and other small protein foods '0	Red palm oi	Sweet foods such as choco-choco-lates, candies, cakes, biscuits, ice cream, occurrent, o	Fried and salty foods such as chips, crisps, puffs, french fries, and fried dough	Fruit juice and fruit- flavoured drinks	Sodas, malt drinks, sports drinks, and energy drinks	Sweeten- ed tea, coffee, herbal drinks, and other sweeten- ed bever- ages "	Number of women
Age 15–19 20–29 30–39 40–49		61.4 59.3 62.0 66.1	26.2 24.9 22.6 20.3	33.3 34.2 36.2 32.2	15.9 16.8 16.0	88.6 90.3 92.2 92.5	32.2 30.0 26.0 21.8	71.6 72.8 73.2 68.3	15.0 16.3 13.8 13.8	48.3 49.0 52.6 57.1	33.9 33.1 34.8 34.4	0.2 0.3 0.3	27.2 29.3 31.3 32.7	34.0 22.9 18.6 14.0	16.3 11.4 0.0 6.5	12.1 10.9 8.8 8.2	19.7 20.0 18.8 17.1	16.6 17.9 18.1 16.3	2,682 5,034 4,311 2,987
Maternity status Pregnant Not pregnant ¹²	91.0 91.1	62.2 61.8	27.8 23.2	36.6 34.0	14.7 15.4	90.6 91.0	29.2 27.5	71.0 71.9	17.0 15.7	50.1 51.6	37.1 33.8	0.3	29.9 30.2	19.7 22.0	8.9 10.7	9.1	17.5 19.1	17.2 17.4	1,025 13,989
Residence Urban Rural	92.1 89.7	58.7 65.9	22.0 25.5	30.8 38.7	20.9	91.9 89.8	34.7 18.3	70.9 73.1	18.7 11.8	49.2 54.6	35.9 31.4	0.2	31.7 28.3	25.7 16.8	13.6 6.6	12.6 6.5	22.7 14.1	21.8	8,557 6,457
Region Western Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono East Oti Northern Savannah North East Upper East Upper East	99 99 99 99 99 99 99 99 99 99 99 99 99	66.4 44.9 44.9 65.2 66.9 66.9 66.9 66.9 66.9 66.0 66.0 66.0	20.02 20.03 20.04 20.08 20	30.6 28.7 28.7 28.7 28.7 33.2 33.2 33.2 34.2 46.2 36.3 36.5 37.7 37.7 37.7 38.7 38.7	2	96.3 92.6 4 4.6 6.3 94.6 6.3 94.7 7 99.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.35.33 2.35.35.33 2.35.33 2.35.33 2.35.33 2.35.33 2.35.33 2.35.33 2.35.33 2.3	9.00 9.00	66.52 66.52 66.52 66.52 66.52 66.53	37.55 45.4 45.4 45.2 45.2 46.1 46.1 46.1 47.2 47.3	24. 4 4 2 2 3 3 3 5 2 3 8 2 3 3 3 3 5 2 3 3 3 3 5 2 3 3 3 3 5 2 3 3 3 3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	36.19 37	33.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	46 47 47 47 47 47 47 47 47 47 47 47 47 47	£, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	31.0 22.2 22.2 25.7 20.2 18.1 11.1 11.1 12.2 13.7 13.7 13.8 13.8 13.8	24 24 24 24 24 24 24 24 24 24 24 24 24 2	955 1,703 2,327 713 1,220 2,928 317 676 403 1,149 319 290 640 398 2,071
Secondary More than secondary	91.3 93.1	62.8 52.8	22.9 23.5	32.0 31.6	15.6 37.2	94.0	31.0 46.6	70.6	16.6 28.5	51.6 40.3	36.1 44.9	0.2	33.2 33.1	25.8 29.6	12.8	10.7	21.9 26.4	17.3 32.6	8,999

Continued...

Table 11.15—Continued	ntinued																		
Background	Foods made from grains ¹	White/ pale starchy roots, tubers, and plantains²	Beans, peas, lentils ³	Nuts and seeds ⁴	Milk, cheese, I yogur, other milk products	Meat, fish, poultry, organ meats ⁵	Eggs	Dark green leafy veget- ables ⁶	Other vitamin A- rich fruits and vege- tables ⁷	Other vege- tables 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 sally foods such as chips, crisps, puffs, french fries, and fried dough	Fruit juice and fruit- flavoured drinks	Sodas, malt drinks, sports drinks, and energy	Sweeten- ed tea, coffee, herbal drinks, and other sweeten- ed bever- ages ¹¹	Number of women
Wealth quintile Lowest Second Middle Fourth Highest Total	90.6 89.1 90.6 91.6 92.8	59.4 60.6 66.6 59.0 61.8	27.9 23.7 22.3 23.1 21.8 23.5	45.0 38.7 34.3 29.9 26.9 34.2	4.5 7.1 11.8 30.7 15.4	87.3 90.2 91.4 93.2 91.0	8.9 16.5 25.8 33.8 45.7 27.6	79.3 72.4 68.0 67.8 73.5	10.0 11.4 11.3 17.4 25.9	53.8 54.2 53.2 52.5 45.3	24.5 29.2 34.5 36.6 41.7	0.1 0.2 0.2 0.3 0.3	19.1 27.0 32.0 34.1 35.3	9.5 16.3 22.5 26.0 30.6	2.9 5.9 10.0 13.8 17.3	4.7 6.4 9.2 11.0 16.3	7.9 12.4 16.8 23.0 30.4	8.7 11.1 14.2 19.9 29.3	2,447 2,712 3,121 3,379 3,355

Includes bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, and tom brown

Includes tufu, gari, kokonte, cassava, yam, cocoyam, plantain, and white sweet potato

Includes beans and bambara beans
Includes beans and bambara beans
Includes groundhuts, kuli kuli, groundhut paste, groundhut soup, agushi stew, neri soup, and cashews
Includes groundhuts, kuli kuli, groundhut paste, groundhut soup, agushi stew, neri soup, and cashews
Includes grozard, liver, sausages, corned beef, beef, goat, saesava leaves, and other dark green leafy vegetables
Includes cocoyam leaves, ademe, ayoyo, cassava leaves, and other dark green leafy vegetables
Includes carrois or sweet potatoes that are yellow or orange inside, ripe mango, ripe papaya, and African star apple
Includes tomatoes, okro, garden eggs, cabbage, mushrooms, and other vegetables
Includes banana, pineapple, avocado pear, watermelon, orange, and other fruits

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	Minimum dietary	Sweet beverage	Unhealthy food	
characteristic	diversity for women ¹	consumption ²	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
	34.6	23.1	10.0	390
Education	40.4	00.4	0.4	0.444
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	40.0	40.0	44.0	0.447
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 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

		Anaemia	a status by haemoglob	oin level	
Background characteristic	Any (NP <12.0 g/dl/ P <11.0 g/dl)	Mild (NP 11.0–11.9 g/dl/ P 10.0–10.9 g/dl)	Moderate (NP 8.0–10.9 g/dl/ P 7.0–9.9 g/dl)	Severe (NP < 8.0 g/dl/ P < 7.0 g/dl)	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
				1.9	
Volta	43.0	21.0	20.1		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	23.1	17.0	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 (g/dl) using the HemoCue 201+ device. Figures in parentheses are based on 25–49 unweighted cases.

NP = nonpregnant

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

		Among all househ	olds, percentage:		Among househo	
Background characteristic	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 g/dl.
- Malaria: 9% of children age 6–59 months tested positive for malaria via microscopy.

his 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**).

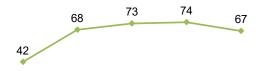
Trends: The percentage of households that own at least one ITN increased from 42% in the 2008 GDHS to 74% in the 2019 GMIS before decreasing to 67% in the 2022 GDHS (**Figure 12.1**).

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 12.2** 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)

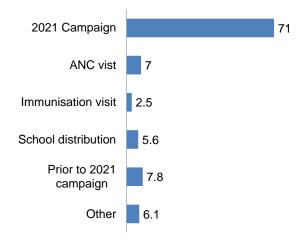


2008	2014	2016	2019	2022
GDHS	GDHS	GMIS	GMIS	GDHS

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**).

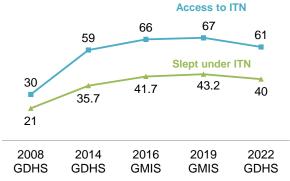
Trends: The percentage of the household population with access to an ITN increased from 30% in 2008 to 61% in 2022. Over the same period, the percentage of the population that slept under an ITN the night before the survey increased from 21% to 40% (**Figure 12.3**).

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.

Map 12.1 ITN access by region

Percentage of the household population that could sleep under an ITN if each ITN in the household were used by up to 2 people

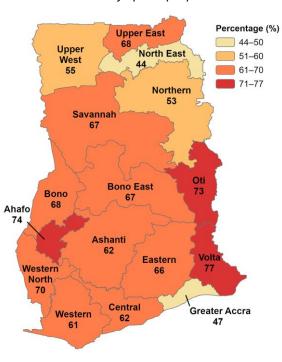
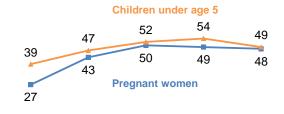


Figure 12.4 Trends in ITN use

Percentage who slept under an ITN the night before the survey



2008	2014	2016	2019	2022
2000	2014	2010	2013	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).

12.5 MALARIA IN PREGNANCY

Intermittent preventive treatment (IPTp) during pregnancy

Percentage of women who took at least three doses of sulfadoxine-pyrimethamine (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.

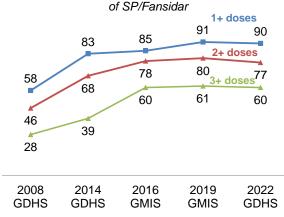
The 2022 GDHS measured coverage of IPTp among women age 15–49 with a live birth or a stillbirth in the 2 years before the survey. Ninety percent of women with a live birth in the 2 years before the survey reported receiving one or more doses of SP/Fansidar during the pregnancy of their most recent live 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



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 SP/Fansidar (**Table 12.12**).

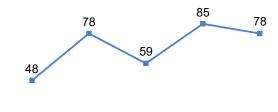
Trends: The percentage of children with recent fever who were taken for advice or treatment increased from 70% in 2008 to 78% in 2014 before decreasing to 72% in 2016, 69% in 2019, and 57% in 2022.

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 (g/dl) of blood. The cutoff of 8 g/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 g/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 g/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

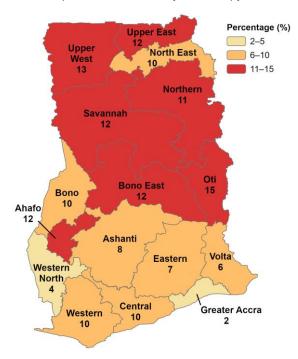
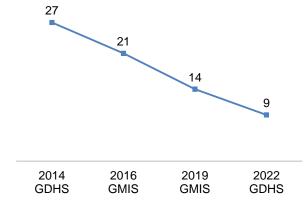


Figure 12.7 Trends in malaria prevalence among children

Percentage of children age 6–59 months who tested positive for malaria by microscopy



LIST OF TABLES

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- Table 12.2 Source 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

	Percentage of households with one mosquito net	e of households with at least one mosquito net	Average number of	Average number of nets per household		Percentage of housone net for every two	Percentage of households with at least one net for every two persons who stayed in the household last night!	Number of households with at
Background characteristic	Any mosquito net	Insecticide-treated mosquito net (ITN) ²	Any mosquito net	Insecticide-treated mosquito net (ITN) ²	Number of households	Any mosquito net	Insecticide-treated mosquito net (ITN) ²	least one person who stayed in the household last night
Residence								
Urban	58.3	58.2	1.3	1.3	10,320	41.6	41.5	10,256
Rural	78.3	78.1	2.0	2.0	7,613	55.6	55.4	7,562
Region								
Western	64.0	64.0	1.5	1.5	1,282	49.5	49.4	1,265
Central	67.3	67.3	1.7	1.7	1,950	49.0	49.0	1,929
Greater Accra	48.8	48.8	1.0	1.0	3,183	34.1	34.1	3,168
Volta	82.4	81.8	2.0	2.0	888	65.2	64.6	885
Eastern	70.3	70.2	1.6	1.6	1,701	53.4	53.3	1,698
Ashanti	66.2	0.99	1.6	1.6	3,469	48.8	48.7	3,429
Western North	77.2	0.77	1.9	1.9	521	58.9	58.6	517
Ahafo	79.8	79.8	2.1	2.1	388	61.5	61.5	384
Bono	72.7	72.6	1.7	1.7	899	52.4	52.2	999
Bono East	75.4	75.2	1.8	1.8	693	50.9	20.2	691
₹ŏ	85.4	85.1	2.3	2.3	444	60.3	60.1	441
Northern	67.7	9.79	1.6	1.6	1,064	37.2	37.1	1,061
Savannah	79.1	79.1	2.2	2.2	316	51.0	51.0	315
North East	62.8	62.6	1.3	1.3	287	26.3	26.2	287
Upper East	79.6	79.5	2.0	2.0	654	54.2	54.2	653
Upper West	8.69	69.5	1.4	1.4	427	38.2	37.9	427
Wealth quintile								
Lowest	81.2	81.0	2.1	2.1	2,797	54.5	54.3	2,790
Second	79.0	78.9	2.0	2.0	3,151	55.4	55.2	3,130
Middle	68.7	68.6	1.6	1.6	3,762	49.4	49.3	3,739
Fourth	59.0	59.0	1.3	1.3	4,204	44.0	44.0	4,166
Highest	53.5	53.3	1.2	1.2	4,020	38.4	38.2	3,992
Total	8.99	2.99	1.6	1.6	17,933	47.5	47.4	17,818

¹ De facto household members
² 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 (LLN).

Table 12.2 Source of mosquito nets

Percent distribution of insecticide treated nets (ITNs), non-ITNs, and all mosquito nets by source of net, according to background characteristics, Ghana DHS 2022

reicent distribution of insecucine treated riets (TINS), not-111NS, and all mosqu	n insecticine	nealed nels (I-IIOII (SNIII)	ins, and all		s by source (JI IIEL, ACCOI	to hets by source of het, according to background characteristics, chara day	TOUTING CHAIR	ciensucs, d	ומוומ בווח	7707				
	2021 mass						Com-				Petrol	Prior mass				
Background	distri- bution		Immu- nisation	Private health		Shop/	munity	Religious			station/ mobile	distri- bution		Don't know/		Number of
characteristic	campaign	ANC visit	visit	facility	Pharmacy	market	worker	institution	School	NGO	market	campaign	Other	missing	Total	nets
							П	ıTNS¹								
Residence																
Urban	68.1	8.0	2.5	0.3	1.0	1.3	9.0	0.1	6.9	0.3	0.0	7.7	2.9	0.1	100.0	13,525
Rural	74.3	0.9	2.4	0.2	0.3	6.0	1.1	0.1	4.4	0.4	0.0	7.8	2.1	0.1	100.0	15,010
Region																
Western	77.1	5.6	1.9	0.3		0.5	0.4	0.0	4.6	0.1	0.0	6.5	2.6	0.0	100.0	1,897
Central	68.7	9.9	2.3	0.3		0.4	0.0	0.3	6.7	0.2	0.1	11.6	2.6	0.1	100.0	3,326
Greater Accra	9.79	9.1	2.4	0.4	1.9	2.2	4.0	0.0	7.1	0.2	0.0	4.8	3.4	0.5	100.0	3,249
Volta	83.6	3.7	1.2	0.0		9.0	0.0	0.0	2.9	0.0	0.0	6.4	1.0	0.1	100.0	1,759
Eastern	76.7	4.7	2.3	0.0		0.3	0.2	0.1	7.2	0.0	0.0	9.9	1.5	0.0	100.0	2,766
Ashanti	73.8	5.8	1.0	0.3		4.1	9.0	0.1	5.3	0.1	0.0	8.5	2.2	0.0	100.0	5,638
Western North	76.0	4.0	4.	0.1		0.7	0.8	0.2	5.4	1.1	0.0	9.6	0.7	0.0	100.0	975
Ahafo	80.7	3.7	9.0	0.3		0.1	0.1	0.1	2.9	0.9	0.0	9.1	1.2	0.1	100.0	810
Bono	62.1	5.4	5.3	0.1		1.2	6.5	0.1	4.4	0.5	0.1	10.4	3.8	0.0	100.0	1,126
Bono East	73.7	5.9	2.4	0.2		1.1	0.7	0.0	5.8	0.0	0.0	8.5	1.6	0.0	100.0	1,274
Ōţ	78.9	5.0	1.9	0.0		0.7	0.3	0.0	4.0	0.1	0.1	8.2	0.7	0.0	100.0	1,008
Northern	75.3	10.3	4.0	0.2	0.0	0.4	9.0	0.0	4.3	6.0	0.0	2.0	2.0	0.0	100.0	1,744
Savannah	81.2	5.5	2.0	0.1		6.0	0.5	0.0	2.9	0.4	0.0	2.6	3.7	0.1	100.0	681
North East	31.3	26.9	9.4	0.0		5.3	6.3	0.1	2.1	4.1	0.1	12.1	3.5	0.7	100.0	378
Upper East	56.2	9.2	4.4	0.2		1.2	4.1	0.2	11.1	6.0	0.0	8.8	2.4	0.4	100.0	1,307
Upper West	18.8	24.4	11.1			4.8	2.4	0.2	2.8	2.4	0.2	14.4	15.3	0.2	100.0	265
Wealth quintile																
Lowest	70.7	9.7	3.0	0.2	0.1	1.3	1.5	0.1	4.0	0.3	0.0	8.3	2.8	0.1	100.0	5,775
Second	76.0	6.2	2.4	0.2	0.3	0.7	6.0	0.0	4.2	0.5	0.0	8.9	1.7	0.0	100.0	6,221
Middle	74.6	5.1	2.2	0.3	0.3	0.7	0.8	0.1	5.8	0.2	0.0	7.5	2.3	0.1	100.0	6,054
Fourth	71.2	7.5	2.2	0.1	0.5	0.5	9.0	0.2	6.9	0.3	0.0	7.4	2.4	0.2	100.0	5,504
Highest	62.4	89. 80.	2.7	9.0	2.2	2.4	0.4	0.1	7.3	0.5	0.0	0.6	3.7	0.2	100.0	4,980
Total	71.3	7.0	2.5	0.2	9.0	1.1	6.0	0.1	9.9	0.3	0.0	7.8	2.5	0.1	100.0	28,535
							NON	SNLI-NON								
Total	na	na	na	0.0	0.0	50.1	0.0	4.0	0.0	0.0	0.0	23.2	19.3	3.4	100.0	9/
							ALL MOSC	ALL MOSQUITO NETS								
Total	71.2	6.9	2.5	0.2	9.0	1.2	6.0	0.1	9.9	0.3	0.0	7.8	2.6	0.1	100.0	28,611
0																

na = not applicable
ANC = antenatal care
NGO = nongovernmental organisation

'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 12.3 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

Background characteristic Residence Urban Rural	Percentage of the de facto population with access to an ITN ^{1,2} 54.0 68.9	Number of persons 33,106 30,141
	00.9	30,141
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	60.8 62.1 47.2 77.2 66.3 62.4 69.6 73.5 68.1 66.9 73.2 52.7 66.8 43.7 67.7 55.3	3,933 6,868 9,198 2,919 5,287 11,685 1,748 1,392 2,274 2,836 1,901 5,430 1,574 1,546 2,891 1,764
Wealth quintile	00.0	10.054
Lowest Second	66.8 68.7	12,651 12,626
Middle	63.3	12,654
Fourth	56.0	12,622
Highest	50.8	12,694
Total	61.1	63,247

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

		lousehold population	า	Household p	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of persons	Percentage who slept under an ITN¹ last night	Number of persons
Age <5 5–14 15–34 35–49 50+ Don't know/missing	49.1 40.8 33.5 39.6 41.8 25.4	49.0 40.7 33.4 39.4 41.6 25.4	8,580 16,909 18,512 9,207 10,009 31	62.1 52.8 49.1 54.5 56.8 (36.8)	6,773 13,038 12,614 6,659 7,344 21
Sex Male Female	38.1 41.2	38.0 41.1	29,948 33,299	52.9 54.9	21,511 24,938
Residence Urban Rural	26.7 54.2	26.6 54.0	33,106 30,141	40.7 65.6	21,614 24,835
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	37.0 39.1 19.9 56.3 39.0 34.2 54.6 60.3 45.7 57.3 59.2 36.9 59.6 39.3 55.8 41.8	36.9 39.1 19.9 55.8 38.9 34.0 54.6 60.3 45.6 57.1 59.0 36.9 59.6 38.9 55.6 41.6	3,933 6,868 9,198 2,919 5,287 11,685 1,748 1,392 2,274 2,836 1,901 5,430 1,574 1,546 2,891 1,764	52.2 52.3 35.2 64.5 50.2 46.5 67.3 71.6 56.5 69.7 67.3 52.2 72.3 61.6 68.6 56.1	2,781 5,130 5,192 2,529 4,094 8,548 1,418 1,172 1,835 2,325 1,667 3,834 1,297 978 2,344 1,306
Wealth quintile Lowest Second Middle Fourth Highest	60.4 52.9 40.9 27.0 17.8	60.2 52.8 40.8 26.9 17.6	12,651 12,626 12,654 12,622 12,694	73.5 64.1 53.9 40.6 28.9	10,355 10,407 9,596 8,372 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 characteristic	Percentage of existing ITNs ¹ used last night	Number of ITNs ¹
Residence		
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
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 insecticide-treated 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

	Children u	under age 5 in all ho	useholds	Children und households with a	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ 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

		regnant women ag –49 in all househo		age 15-49 in h	nt women nouseholds with one ITN¹
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of pregnant women	Percentage who slept under an ITN¹ last night	Number of pregnant women
Residence Urban Rural	32.8 63.3	32.8 63.3	505 479	44.6 72.7	371 418
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	47.3 48.2 23.5 56.7 47.6 36.9 54.4 71.7 56.1 63.4 65.9 53.3 69.4 56.3 66.4 55.8	47.3 48.2 23.5 56.7 47.6 36.9 54.4 71.7 56.1 63.4 65.9 53.3 69.4 56.3 66.4 55.8	66 101 136 43 91 163 26 20 37 40 33 106 30 28 41	(56.2) (59.4) (34.6) (69.1) 52.0 47.3 (66.5) 80.9 61.8 75.0 75.4 72.3 81.3 82.3 75.9 65.5	55 82 92 35 84 127 21 17 33 34 28 78 26 19 36 21
Education No education Primary Secondary More than secondary Wealth quintile Lowest Second Middle Fourth Highest	58.1 53.7 45.7 28.8 70.2 71.7 51.7 32.1 17.4	58.1 53.7 45.7 28.8 70.2 71.7 51.7 32.1 17.4	183 143 573 86 193 179 185 241	75.5 64.3 57.0 35.2 83.5 82.0 62.7 42.2 24.2	141 119 459 70 162 157 152 183 134
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 12.8 Main reason mosquito net was not used the night before the survey

Among ITNs, non-ITNs, and all mosquito nets, percentage that were not used by anyone the night before the survey, and among mosquito nets that were not used by anyone the survey, percent distribution by the main reason each net was not used, according to background characteristics, Ghana DHS 2022

	c c						Main reason e	each net wa	Main reason each net was not used the night before the survey	∍ night before	e the survey					Number of
Background	rercentage of nets not used the night before the	Total number of mosquito	Tod oot	No mosqui- toes/no malaria	Prefer other	Net too	S Chemicals in net are	Don't like smell, size, shape, and/or	Usual user did not sleep here	Extra net/saving for later	Net was being washed/	Slept	Net brought	Ç.	Total	mosquito nets not used the night before the
	Son inc	3		5	3	5	PSNTI				5		200			San
Residence																
Urban	62.3	13,525	31.8	8.9	14.9	1.9	3.3	1.6	1.2	31.6	4:1	0.4	0.0	3.0	100.0	8,431
Rural	40.7	15,010	16.9	10.1	7.9	2.4	2.5	1.0	2.5	51.6	2.3	0.5	0.2	2.2	100.0	6,110
Region																
Western	58.0	1,897	25.7	8.2	17.2	2.5	4.0	1.0	1.8	35.0	2.2	0.4	0.0	2.0	100.0	1,100
Central	55.2	3,326	20.1	4.8	10.8	2.4	3.6	6.0	1.4	50.4	2.5	0.5	0.1	2.4	100.0	1,834
Greater Accra	8.99	3,249	36.3	7.5	16.2	1.1	3.2	0.7	0.8	28.3	0.7	0.2	0.0	2.0	100.0	2,171
Volta	44.4	1,759	14.9	9.7	17.9	1.3	2.3	3.1	4.1	1.4	3.0	0.3	0.0	2.0	100.0	780
Eastern	57.1	2,766	30.7	11.6	14.3	3.2	2.1	1.3	1.6	32.1	1.2	0.1	0.0	1.7	100.0	1,578
Ashanti	61.1	5,638	29.1	8.4	9.4	9.0	3.7	4.1	1.9	40.3	1.6	0.3	0.2	3.2	100.0	3,445
Western North	46.2	975	17.0	6.3	2.1	1.0	2.9	2.1	2.0	63.2	2.0	0.4	0.1	6.0	100.0	450
Ahafo	44.1	810	10.3	8.4	3.4	0.8	1.6	1.9	2.2	68.4	1.0	0.3	0.0	1.8	100.0	357
Bono	46.5	1,126	15.3	16.7	14.4	2.0	2.5	2.6	2.5	38.2	1.6	1.6	0.4	2.2	100.0	524
Bono East	34.7	1,274	12.4	14.2	8.7	6.3	1.2	1.7	2.2	48.7	3.5	0.3	0.1	0.7	100.0	442
Ōţį	38.9	1,008	20.4	6.4	5.4	4.6	0.7	4.1	5.6	51.5	2.5	0.4	0.0		100.0	392
Northern	37.4	1,744	26.9	18.8	8.9	1.2	2.6	2.0	0.4	34.7	2.3	0.3	0.0	1.9	100.0	652
Savannah	24.5	681	21.4	12.0	9.9	4.9	9.0	6.0	4.1	42.1	2.6	2.2	0.0	2.6	100.0	167
North East	20.1	378	29.0	20.6	12.7	9.6	2.1	1.5	1.7	17.1	1.4	4.1	0.0	0.3	100.0	9/
Upper East	29.3	1,307	17.1	13.3	16.7	3.7	1.8	1.3	2.3	37.7	2.0	1.6	0.0	2.5	100.0	383
Upper West	31.4	265	21.6	17.9	5.6	13.7	1.2	6.0	3.8	29.0	4.0	9.0	0.1	1.6	100.0	188
Wealth quintile																
Lowest	29.8	5.775	8.8	9.2	2.9	3.7	1.5	0.8	3.0	63.6	2.2	7.	0.0	3.1	100.0	1.722
Second	41.1	6,221	18.0	6.6	6.3	2.5	2.3	1.0	2.7	52.9	2.5	0.4	0.3	1.2	100.0	2,557
Middle	51.7	6,054	25.5	8.2	10.0	2.3	2.7	1.2	1.6	43.7	2.1	0.5	0.0	2.4	100.0	3,129
Fourth	64.2	5,504	33.3	8.1	13.6	4.1	3.6	1.1	1.4	32.3	1.8	0.4	0.1	3.0	100.0	3,533
Highest	72.3	4,980	31.3	11.5	20.4	1.6	3.7	2.2	6.0	24.0	6.0	0.1	0.0	3.4	100.0	3,600
Total	51.0	28,535	25.5	9.4	11.9	2.1	2.9	4.1	1.7	40.0	1.8	9.0	0.1	2.7	100.0	14,541
							SNTI-NON	INS								
Total	39.0	92	(13.8)	(15.7)	(20.7)	(5.1)	(0.0)	(12.2)	(8.8)	(21.8)	(1.9)	(0.0)	(0.0)	(0.0)	100.0	30
							ALL MOSQUITO NETS	ITO NETS								
Total	6.03	28,611	25.5	9.4	12.0	2.1	2.9	1.4	1.8	40.0	1.8	0.4	0.1	2.7	100.0	14,570
															i i	

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). Figures in parentheses are based on 25–49 unweighted cases.

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 Savannah	84.4 83.9	64.3 68.2	44.4 51.7	395 105
North East	90.5	06.∠ 79.1	51.7 59.9	105
Upper East	90.5 95.3	79.1 91.7	78.8	191
Upper West	95.4	90.7	76.6 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 BIRT	HS AND STILLBIRT	HS 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

	Children und	der age 5		Childre	en under age 5 wit	h fever	
Background characteristic	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

Percentage for whom advice or treatment was sought from each source:

		1001
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

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

				Percentag	ge of children	who took:				Number of children with fever who
Background characteristic	Any ACT	SP/ Fansidar	Chloroquine	Amodia- quine	Quinine pills	Quinine injection	Artesunate rectal	Artesunate injection	Other anti- malarial	took anti- malarial drug
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 Greater Accra	(88.7)	(0.0)	(0.0)	(2.6)	(0.0)	(3.2)	(2.4)	(0.0)	(3.1)	54 21
Volta	(75.9)	(13.5)	(0.0)	(7.6)	(0.0)	(0.0)	(0.0)	(10.6)	(0.0)	25
Eastern	*	*	*	*	*	*	*	*	*	22
Ashanti	(75.0)	(0.0)	(0.0)	(4.1)	(4.5)	(0.0)	(10.6)	(2.8)	(6.9)	117
Western North	·*	* (0.0)	× \	* *	* (0.0)	* (4.0)	* (0.0)	* (0.0)	* (0.0)	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 Upper West	63.7	10.3	3.4	3.7	4.2	7.7	2.8	36.4	1.9	41 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.

ACT = artemisinin-based combination therapy

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

		Percentag	e tested for:	
Background		Malaria	Malaria by	Number of
characteristic	Anaemia	with RDT	microscopy	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	3,943 140
Not interviewed and not in the	13.0	13.0	13.0	140
household ¹	97.2	97.2	97.2	435
	91.2	91.2	91.2	435
Residence Urban	96.7	96.7	96.7	1 001
				1,881
Rural	97.7	97.8	97.8	2,637
Region	07.0	07.0	07.0	040
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)

Includes children whose mothers are deceased
 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 g/dl in children

Percentage of children age 6–59 months with haemoglobin lower than 8.0 g/dl, by background characteristics, Ghana DHS 2022

Background characteristic	Haemoglobin <8.0 g/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 48–59	1.5 1.4	860 826
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 Not interviewed and not in the	1.2	67
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 Bono Foot	1.7	124
Bono East Oti	3.1 1.8	185 119
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	4.0	000
Lowest	4.0	900
Second Middle	3.4 1.6	789 742
Fourth	1.2	730
Highest	0.6	676
Total	2.3	3,837
-	2.0	0,001

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 (g/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

		prevalence ng to RDT	Malaria p according to	revalence microscopy
Background characteristic	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	40.5	4.040	0.0	4.040
Male	16.5	1,948	8.8	1,948
Female	16.5	1,890	8.4	1,890
Mother's interview status	45.0	0.405	0.0	0.405
Interviewed	15.9	3,425	8.3	3,425
Not interviewed but in household Not interviewed and not in the	23.1	67	14.2	67
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 Bono	21.4	87 124	11.8	87 124
Bono East	15.1 22.1	185	9.9 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	730 676	5.0	730 676
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.

his 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:

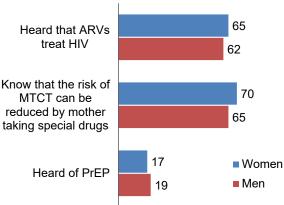
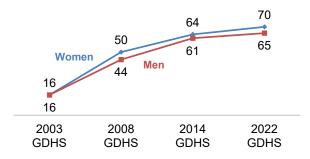


Figure 13.2 Trends in knowledge of motherto-child transmission (MTCT)

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

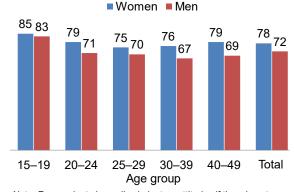
Two percent of women age 15–49 had two or more sexual partners in the last 12 months, and 12% used a condom during their last sexual intercourse (**Table 13.3.1**). Twenty-three percent of women had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them (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**).

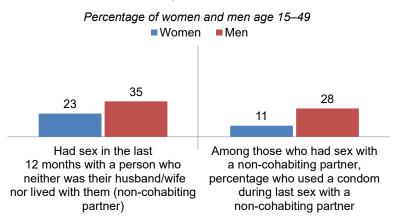
Figure 13.3 Discriminatory attitudes towards people living with HIV by age

Percentage among women and men age 15–49 who have heard of HIV



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 13.4 Sex and condom use with noncohabiting partners



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

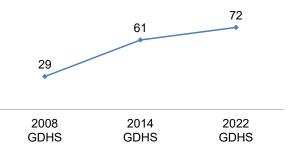


Figure 13.6 HIV testing

Percentage of women and men age 15–49

Women Men

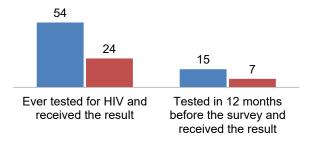
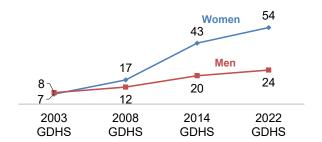


Figure 13.7 Trends in HIV testing

Percentage of women and men age 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

contracting an STI than young people who initiate sex later. Consistent condom use can reduce such risks.

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 13.8 Knowledge about HIV prevention among young people

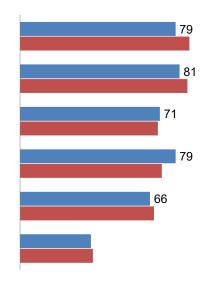


Figure 13.9 Trends in age at first sex

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.

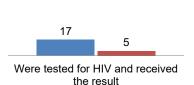
Among young men age 15–24 who had sex in the past 12 months, the percentage who were tested for HIV and received the results of the last test increased from 2% in 2003 to 3% in 2014 and 5% in 2022.

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

■Men

■Women



LIST OF TABLES

For more information on knowledge, attitudes, and behaviour related to HIV and AIDS, see the following tables:

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		transmission
•	Table 13.2	Discriminatory attitudes towards people living with HIV
٠	Table 13.3.1	Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Women
٠	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
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٠	Table 13.13.2	Multiple sexual partners and higher-risk sexual intercourse in the last 12 months among young people: Men
•	Table 13.14	Recent HIV tests among young people

 $\underline{\textbf{Table 13.1 Knowledge of and attitudes about medicines to treat HIV or prevent HIV transmission}$

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	taking special drugs	Percentage who have heard of PrEP	Number of respond- ents	people who	Number of respondent s who have heard of PrEP
Age						
15–24 15–19 20–24 25–29 30–39 40–49	53.0 45.8 60.2 74.5 73.2 68.8	61.5 52.7 70.3 74.6 75.8 72.0	13.2 10.2 16.1 21.0 18.6 16.0	5,376 2,682 2,695 2,340 4,311 2,987	65.9 66.9 65.2 72.4 73.1 68.0	708 274 434 491 803 477
Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/widowed	60.2 67.3 49.8 67.5 71.0	65.3 72.4 54.8 71.6 75.5	15.3 16.8 13.0 17.4 16.2	5,268 3,134 2,134 8,205 1,542	67.5 69.2 64.4 71.4 69.1	803 527 277 1,426 249
Residence Urban Rural	71.6 57.0	76.1 61.4	18.5 13.9	8,557 6,457	68.6 72.3	1,581 898
Education No education Primary Secondary More than secondary	48.8 57.5 66.9 92.7	48.3 61.6 73.5 92.5	11.6 12.7 15.5 35.3	2,411 2,071 8,999 1,533	71.5 67.9 71.9 64.9	279 262 1,397 541
Total 15-49	65.3	69.8	16.5	15,014	69.9	2,479
	ME	ΞN				
Age 15-24 15-19 20-24 25-29 30-39 40-49	45.0 35.6 57.9 70.7 74.8 73.5	56.5 49.4 66.4 67.3 71.9 71.7	14.6 11.5 18.9 21.9 22.4 22.7	2,458 1,424 1,033 888 1,662 1,270	72.4 71.3 73.3 65.2 71.5 68.7	359 164 196 195 373 288
Marital status Never married Ever had sex Never had sex Married/living together Divorced/separated/widowed	52.9 62.8 38.1 72.4 68.9	60.5 68.4 48.7 70.6 64.6	15.7 17.5 12.9 23.1 24.4	3,208 1,922 1,286 2,828 242	67.8 69.0 65.4 72.5 63.2	503 337 166 653 59
Residence Urban Rural	68.3 55.0	68.7 61.0	18.5 20.4	3,442 2,835	70.3 70.0	636 579
Education No education Primary Secondary More than secondary	48.4 49.1 60.4 89.9	45.6 50.3 66.2 85.8	15.4 16.1 18.2 29.4	628 725 3,990 935	66.0 74.1 72.0 64.8	97 117 726 275
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

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Table 13.2 Discriminatory attitudes towards people living with HIV

Among women and men age 15-49 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, and percentage with discriminatory attitudes towards people living with HIV, according to background characteristics Ghana DHS 2022

Percentage think that c with HIV st that c with HIV st to attend children v characteristic c a 49e 15-24 15-19 20-24 30-39 30-39 55 40-49	Percentage who do not think that children living P with HIV should be able to attend school with	Percentage who would			Percentage who do not			
0.4	children who are HIV negative	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	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
0.4	63.7	7.7.1	817	5 076	618	71.2	8 22	2 333
	66.3	962		2,2,5		76.5	82.7	1,306 1,306
	2.7	73.0	0.0	2,493	5.00	0.5	71.7	1,020
	- 0	74.0	0.07	2,001	4.00	04.	4.1.0	1,00,1
	2.0	70.5	6.4.5	2,254	2.4c	90.1	69.7	1./8
	58.5	76.4	70.4	4,114	51.2	29.8	67.4	1,639
prital etatue	0.0	-	2	2,000	0.30	r r	7.60	107,1
Never married 5	57.4	71.4	76.2	5,066	56.8	66.3	72.9	3,077
Ever had sex 5i	58.1	71.4	76.1	3,062	53.0	62.7	69.8	1,886
	56.4	71.3	76.4	2,004	62.7	72.0	77.6	1,191
Married/living together 6:	63.2	75.7	79.9	7,695	55.3	63.9	71.6	2,778
dowed	9.6	72.9	78.1	1,519	52.4	65.2	68.2	238
Residence								
Urban	54.6	68.7	73.4	8,383	51.0	59.4	67.3	3,393
Rural 6	9.69	81.2	85.5	5,898	62.2	72.4	78.1	2,700
Region								
E	63.6	74.2	79.2	940	65.6	67.1	76.9	411
Central 6	64.2	73.7	79.5	1,675	58.7	68.4	73.3	657
Greater Accra 5	51.4	66.5	70.5	2,308	54.8	59.7	69.7	1,071
	26.0	72.3	76.9	707	45.1	55.2	61.9	234
Eastern 5	7.8	70.8	79.1	1,208	48.6	59.8	68.0	461
Ashanti 5	6.6	75.4	79.6	2,891	50.9	62.4	70.2	1,168
Western North 6	64.6	79.2	83.4	400	54.4	64.4	7.07	179
Ahafo 6	6.7	82.8	87.0	306	53.8	64.9	72.0	132
Bono 5i	0.5	66.5	70.5	549	46.5	61.0	67.0	217
Bono East 5	5.6	67.4	72.4	613	57.9	68.1	75.4	299
	68.9	82.6	86.4	379	71.0	73.8	81.5	183
Northern 7	76.4	83.2	85.7	803	70.4	80.1	83.1	437
Savannah 7	9.92	83.7	86.8	265	9.09	75.0	77.9	125
	02.0	83.0	85.9	241	80.2	82.3	85.2	111
Upper East 6	67.4	77.2	80.1	614	44.3	57.9	61.4	259
_	65.6	80.4	83.8	383	55.1	75.9	77.8	151

Table 13.2—Continued								
		Wor	Women			Men	ne ne	
	Percentage who do not think that children living Percentage who would with HIV should be able not buy fresh to attend school with vegetables from a	Percentage who would not buy fresh vegetables from a	Percentage with discriminatory attitudes	Number of women who	Percentage who do not think that children living with HIV should be able to attend school with	Percentage who would not buy fresh veqetables from a	Percentage with discriminatory attitudes	Number of men who
Background characteristic	children who are HIV negative	shopkeeper who has HIV	towards people living with HIV¹	have heard of HIV or AIDS	children who are HIV negative	shopkeeper who has HIV	towards people living with HIV¹	have heard of HIV or AIDS
Education								
No education	78.2	88.8	91.5	1,961	79.0	87.7	0.06	561
Primary	76.6	86.0	89.3	1,943	73.2	82.2	86.8	299
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	8.09	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

1 Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative and/or would not buy fresh vegetables from a shopkeeper who has HIV

Table 13.3.1 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Women

Among all women age 15–49, 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 women having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among women who had sexual intercourse 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; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Ghana DHS 2022

		All women		Women who had 2+ partners in the last 12 months	2+ partners months	Women who had intercourse in the last 12 months with a person who neither was their husband nor lived with them	itercourse in the ר'a person who husband nor them	Women who ever had sexual intercourse ¹	ever had course¹
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
Age 15-24 15-24 15-19 20-24 25-29 30-39 40-49	8, 2, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	34.2 26.8 41.6 28.0 14.4 11.4	5,376 2,682 2,695 2,340 4,311 2,987	17.1 16.9 8.7 8.7 *	161 70 91 77 24	13.7 17.2 10.5 6.6 0.9	1,841 719 1,122 656 621 341	2 1 2 2 3 9 2 2 2 8 8 8 9 8	3,363 1,047 2,317 2,244 4,268 2,972
Marital status Never married Married or living together Divorced/separated/widowed	3.5 9.0 4.0	46.1 3.8 46.6	5,268 8,205 1,542	15.7 6.7 6.3	186 78 62	12.6 9.8 2.2	2,427 312 719	2.6 2.4 3.7	3,131 8,178 1,538
Residence Urban Rural	2.2 2.2	25.2 20.1	8,557 6,457	14.3 8.4	185 141	11.7 8.7	2,159 1,300	2.8 4.8	7,179 5,669
Region Western Central Greater Accra Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oil Northern Savannah North East Upper East	8 4 - 2 2 8 8 2 2 - 2 0 5 8 8 6 - 5 7 7 0 - 8 5 - 1 - 5 0 7 7 7 7	28.28 28.28 28.29 28.29 28.29 28.20 28.88 28.88 28.20 28.88 28.88	955 1,703 2,327 1,220 2,928 411 317 403 1,149 1,149 398	(10.7) (13.3) (10.0) (5.3) (5.3)	£ 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 1.4 9 7.7 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	424 482 482 482 482 484 484 484 484 484	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 18 1,445 1,022 1,034 2,539 2,539 2,639 1,016 2,79 2,79 2,79 2,79 2,79 3,32 3,32 3,32
									Continued

Table 13.3.1—Continued									
		All women		Women who had 2+ partners in the last 12 months	12+ partners months	Women who had intercourse in the last 12 months with a person who neither was their husband nor lived with them	itercourse in the haben who husband nor them	Women who ever had sexual intercourse ¹	ever had course 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	(2.8)	25	6.4	165	1.9	2,356
Primary	2.8	21.5	2,071	3.5	28	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	28	5.8	625	2.5	2,357
Middle	2.5	27.8	3,121	8.4	78	11.1	998	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	969	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 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Men

Among all men age 15-49, 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, percentage reporting that a condom was used during last intercourse; among men having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among 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; and among men who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Ghana DHS 2022

		All men		Men who had 2+ partners in the last 12 months	+ partners months	Men who had intercourse in the last 12 months with a person who neither was their wife nor lived with them	rurse in the last son who neither ved with them	Men who ever had sexual intercourse ¹	ad sexual se 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 eneither 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
Age	Ċ	0 40	0.460	7 70	040	000	9		770
13-24	Dio	33.7	2,430	24.7 20.0	242	20.7	900		444
13-18		20.7	424,	2.27	7 17	21.7	282	7.0 0.0	0.00
20–24	10.5	25.2	1,033	30.0	- 2	37.0	0/6	0.4	800
25–29	23.6	55.6	888	23.4	210	31.8	493	0.9	845
30–39	18.8	33.6	1,662	15.9	312	27.1	558	8.8	1,618
40–49	14.3	19.4	1,270	7.3	182	22.1	247	8.3	1,241
Marital status									
Never married	12.7	46.0	3,208	31.4	406	30.2	1,476	5.5	1,913
Married or living together	17.5	18.4	2,828	6.8	494	25.3	519	7.6	2,795
Divorced/separated/widowed	18.7	6.69	242	(23.3)	45	18.3	169	10.6	240
Type of union									
In polygynous union	46.9	15.1	242	5.3	114	(32.4)	37	7.7	240
In nonpolygynous union	14.7	18.7	2,585	7.3	381	24.7	482	7.6	2,555
Not currently in union	13.1	47.7	3,449	30.5	452	28.9	1,645	6.1	2,153
Residence									
Urban	16.2	37.4	3,442	22.3	556	33.2	1,286	7.8	2,754
Kurai	13.7	31.0	2,835	12.3	390	20.02	8/8	5.9	2,194

Continued...

Vote: Figures in parentheses are based on 25–49 unweighted cases. Means are calculated excluding 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

	Percentage tested for l antenatal ca	HIV during	Percentage HIV test dur labour ar	ing ANC or	Number of women who
Background characteristic	Received results	Did not receive results	Received results	Did not receive results	gave birth in the last 2 years ²
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 Oti	60.5 71.2	12.0 3.8	62.5 72.5	11.6 3.4	191 123
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

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.

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

		oution of won by whether th sults of the la	ey received			Percentage who have been tested for HIV in the past 12 months and	
	E	ver tested, di	d			received the	
Background characteristic	Ever tested and received results	not receive results	Never tested ¹	Total	Percentage ever tested	results of the last test	Number of women
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 Divorced/separated/widowed	68.1 66.8	4.5 4.3	27.4 28.9	100.0 100.0	72.6 71.1	18.9 12.6	8,205 1,542
•	00.0	4.5	20.9	100.0	7 1.1	12.0	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
	10.0	***			00.0		0, .0.
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 Savannah	32.5 26.6	7.2 4.6	60.4 68.7	100.0 100.0	39.6 31.3	7.9 6.0	1,149 319
North East	34.2	4.6 4.6	61.1	100.0	31.3 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

		on of men by testir ceived the results				Percentage who have been tested for HIV in the past 12 months	
		Ever tested, did				and received the	
Background characteristic	Ever tested and received results	not receive results	Never tested ¹	Total	Percentage ever tested	results of the last test	Number of men
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	22.4	4.0	07.7	100.0	00.0	0.5	0.440
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 30.9	2.1 1.4	60.9 67.7	100.0	39.1	9.1 9.4	1,076
Volta Eastern	30.9 27.8	0.2	67.7 72.0	100.0 100.0	32.3 28.0	9.4 7.7	235 466
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	8.0	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 More than secondary	20.9 58.1	2.0 2.1	77.0 39.8	100.0 100.0	23.0 60.2	5.3 18.7	3,990 935
•	30.1	2.1	39.0	100.0	00.2	10.7	933
Wealth quintile	40.0	4.4	00.4	100.0	44.0	0.0	4.000
Lowest	10.2	1.4	88.4	100.0	11.6	2.0	1,089
Second Middle	14.3 18.2	1.5 1.8	84.2 80.0	100.0 100.0	15.8 20.0	3.9 5.5	1,133 1.137
Fourth	26.2	2.7	71.1	100.0	28.9	5.5 7.3	1,137
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
. 5 0 00	20.1	1.0	70.1	100.0	20.0	0.0	7,011

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

		Nun	nber of times tes	ted for HIV in life	etime				Number of
Age	1	2	3	4	5	6+	Never tested	Total	respondents
				WOM	IEN				_
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	8.0	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
				ME	N				
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

		Women			Men	
Background characteristic	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

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

		(Circumcision statu	IS				
Background characteristic	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	Total	Percentage traditionally or medically circumcised ¹	Number of men
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 45–49	60.7 73.1	32.0 19.7	1.0 0.9	2.1 2.2	4.2 4.1	100.0 100.0	95.8 95.9	713 557
Ethnic group								
Akan	46.4	48.7	0.1	3.1	1.7	100.0	98.3	2,887
Ga/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 Other	52.5 *	35.6	0.0	3.7	8.2	100.0	91.8	300 4
Residence	50.4	40.0				400.0	07.0	0.440
Urban Rural	52.4 58.8	42.8 29.5	0.6 0.8	2.0 2.9	2.2 8.0	100.0 100.0	97.8 92.0	3,442 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	8.0	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 Northorn	60.4 61.5	29.7 10.7	0.2	0.6	9.1	100.0	90.9	187 484
Northern Savannah	61.5 71.3	10.7 19.2	7.9 0.8	0.6 1.5	19.4 7.3	100.0 100.0	80.6 92.7	484 155
North East	71.3 84.3	10.3	0.0	0.9	7.3 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 More than secondary	53.6 47.8	40.0 47.9	0.4 0.2	2.9 1.9	3.0 2.3	100.0 100.0	97.0 97.7	3,990 935
Wealth quintile		17.5	U. <u>L</u>	1.0	2.0	100.0	VI.1	300
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	8.0	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

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

	F	Percentage of women who reported		having in the past 12 months:	iths:	Ь	Percentage of men who reported having in the past 12 months:	ho reported having i	n the past 12 month	:SI
Background		Bad-smelling/ abnormal genital	Genital sore	STI/genital discharge/	Number of women who ever had sexual		Bad-smelling/ abnormal discharge from	Genital sore or	STI/abnormal discharge from penis/	Number of men who ever had sexual
characteristic	STI	discharge	or ulcer	sore or ulcer	intercourse	STI	penis	ulcer	sore or ulcer	intercourse
Age	1	;					!	:		
15–24	7.7	29.8	11.4	34.8	3,366	15.1	15.9	11.3	23.1	1,246
15–19	7.7	31.9	12.1	37.6	1,048	12.5	13.0	4.1.	22.2	438
20–24	 	28.8	11.1	33.6	2,318	16.5	17.0	71.3	23.6	808
25–29	 -	24.3	10.4	29.3	2,251	12.6	13.2	 	18.5	820
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	8.0 8.0	1,259
Marital status										
Never married	8.3	30.6	10.5	35.2	3,134	13.6	14.3	9.8	20.2	1,922
Married or living together	5.9	19.8	0.6	24.5	8,204	8.7	7.9	8.9	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	па	na	na	na	na	10.4	6.6	0.9	15.2	1,792
both traditionally and medically	1	•	•	•	•	ć	ć	() () () () () () () () () ()	6	ć
circumcised	na L	na I	na !	na	na	(5.9)	(23.9)	(17.4)	(32.2)	S 4
Other-	na	na !	na :	na	na	1 00	12.7	10.3	27.50	01.1
Not circumcised of don t know	na	Па	na L	na	na	0.7	10.7	11	24.0	CIZ
Residence	7	2	u O	6	7	0	c c	o u	7	727.0
Olbai.	- v	24	ი თ თ	26.2	7,202	0.0	2.8 10.5	o «	+ C	2.7.7
ימומו	9	0.14	9	7.07	0,0	9.	5.4	9	9.	5,4
Region	9	7 70	Š	000	0	17	0	4	0 40	200
Westelli		24.7		70.0	0 0 7	 	9.0		0.02	232
Central	0.0	21.0	8.0	20.2	1,445	15.7	18.4	10.4	23.3	532
Greater Accra	χ χ. α		2.3	22.3	325,1	o 6	2 . 2).	0. o. o.	903
Volta	4. r xo c	7.7	0.0	4.12	285	10.0	v. 6	4.7	10.0	18/
Eastern	0.7	7.07	ω c	7.67	440,	13.7	12.8	0. c	9: /- 9: 4:	3/8
Ashani Mostory North	0.7	4.77	0.6	25.0	2,342	0.0	9.00	. c	4.00	9.70
Abafo	† C	20.4 40.5	- r	37.8	300 378	16.1	47.7	. r	20.7	91
Bono	2.6	10.3	2.2	23.50	479	<u>.</u> 6	t - 0	- w	1.7	22
Bono Fast	- K	σ ο α		23.7	504	- 6	- 7-1-	5.0	5. 2.	282
Dello Last	לימי	10.7 7.7	σ τ	20.4 20.5	357	5.0	11.7	- r	5. Z	152
No.	9 6	. ce	23.0	38.0	40.0	ν γ. α	13.0	- 6	. a	370
Sayanah	5.6	02.3 05.4	2.5.4 5.7.6	30.9	070,	о С	10.0	0.0	16.0	277
North Fast	- w	1, 2, 4 1, 2, 4	2.0	200.2	258	ט טיני	5. a	. d	5.0 0.0	08
Upper Fast	5. c.	12.4	4 · C	16.8	544	3.5	5.5	. 0 0	5.6	203
Upper West	5.3	20.8	6.4	24.4	332	2.3	2.7	1.6	5.1	111
										:

Continued...

		Percentage of women who reported	no reported having	d having in the past 12 months:	onths:		Percentage of men who reported having in the past 12 months:	o reported having i	in the past 12 mont	JS:
Background characteristic	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
Education										
No education	4.4	21.2	11.3	25.8	2,361	5.3	8.2	8.7	15.7	265
Primary	5.3	19.2	8.1	24.0	1,836	9.4	11.2	8.0	17.5	549
Secondary	7.2	22.8	9.0	27.5	7,346	12.3	11.7	8.0	17.4	3,015
More than secondary	6.9	22.3	7.4	27.6	1,336	10.4	8.3	5.1	13.5	862
Wealth quintile										
Lowest	4.5	22.7	11.3	27.0	2,170	8.5	9.0	10.9	18.2	810
Second	5.8	21.9	11.3	26.4	2,362	9.6	13.0	7.8	17.5	834
Middle	6.7	20.3	8.1	25.3	2,705	13.3	13.5	7.6	19.2	913
Fourth	7.2	22.3	8.8	27.2	2,902	14.0	11.8	8.2	18.2	1,245
Highest	7.3	22.7	6.9	27.5	2,740	8.0	6.8	4.5	11.1	1,189
Total 15–49	6.4	21.9	9.1	26.7	12,880	10.8	10.7	7.6	16.6	4,991
50–59	na	na	па	na	na	4.8	4.1	3.4	8.4	764
Total 15–59	na	na	na	na	na	10.0	8.6	7.0	15.5	5,755

Note: Figures in parentheses are based on 25–49 unweighted cases.

na = not applicable

lincludes all men who report they are circumcised

lincludes all men who report they are circumcised

lincludes men who report they are (1) medically circumcised but don't know whether they are traditionally circumcised but don't know whether they are traditionally circumcised but don't know whether they are (1) medically circumcised but don't know whether they are traditionally circumcised but don't know whether they are circumcision

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

		P	ercentage who know	<i>I</i> :			
		e their risk of getting / by:					
Background characteristic	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	Percentage with knowledge about HIV prevention ¹	Number of women
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

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.

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

-		Р	ercentage who know	<i>r</i> :			
		e their risk of getting / by:					
Background characteristic	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	Percentage with knowledge about HIV prevention ¹	Number of men
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 Upper West	84.5 76.7	77.2 69.4	66.5 58.3	81.4 49.7	72.5 55.3	41.7 21.0	109 58
• •	70.7	09.4	30.3	43.7	55.5	21.0	30
Education	40.5	54.4	44.0	20.2	24.0	44.4	444
No education	49.5 72.5	54.1 67.4	44.2 53.2	38.3 59.3	31.9 49.7	11.1 19.1	111 319
Primary Secondary	72.5 89.1	67.4 89.0	53.2 72.3	59.3 76.1	49.7 71.2	39.3	1,835
More than secondary	93.3	90.9	94.1	78.2	84.9	60.0	1,633
Ť	55.5	55.0	J	. 3.2	01.0	55.0	.51
Wealth quintile Lowest	71.3	69.2	58.5	59.6	50.6	26.9	475
Second	71.3 84.9	82.9	56.5 66.2	68.2	63.2	29.0	475 501
Middle	90.2	89.0	69.6	77.0	71.6	37.3	515
Fourth	88.3	89.5	75.1	77.0 78.5	74.9	39.6	513 521
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

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.

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

	Women ag	je 15–24	Women ag	je 18–24	Men age	15–24	Men age	18–24
Background characteristic	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

	Women a	ige 15–24	Men ag	e 15–24
Background characteristic	Percentage who have never had sexual intercourse	Number of never- married women	Percentage who have never had sexual intercourse	Number of never- married 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

		Women age 15–24		Women age 15–; partners in the la		Women age 15 intercourse in the la a person who ne husband nor liv	st 12 months with ither was their
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 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							_
Ī5 – 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

		Men age 15–24		Men age 15–24 who		Men age 15–24 who in the last 12 month who neither was the with th	ns with a person eir wife nor lived
Background characteristic	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 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
Age							
15–19	5.0	20.7	1,424	12.2	72	21.7	295
15–17	2.7	12.6	915	*	25	20.4	115
18–19	9.2	35.3	510	(13.7)	47	22.5	180
20–24	16.5	55.2	1,033	30.0	171	31.6	570
20–22	13.7	52.0	640	32.1	87	30.7	332
23–24	21.1	60.5	394	27.7	83	32.8	238
Marital status							
Never married	8.5	34.7	2,295	27.1	195	29.0	796
Ever married	29.0	42.9	163	(14.6)	47	19.9	70
Residence							
Urban	10.0	36.0	1,286	30.3	129	33.7	463
Rural	9.7	34.4	1,172	18.3	113	22.0	403
Education							
No education	8.1	31.9	111	*	9	9.4	35
Primary	9.3	32.0	319	(12.7)	30	16.4	102
Secondary	9.8	34.1	1,835	23.5	180	27.4	625
More than secondary	12.3	53.6	194	*	24	51.4	104
Total	9.9	35.2	2,458	24.7	242	28.2	866

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

	Women age 15- had sexual int the last 12	ercourse in	Men age 15–24 had sexual inte the last 12 r	ercourse in
Background characteristic	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).

he 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 15–49 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.

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 14.1 Trends in NHIS coverage

Percentage of women and men with health insurance currently covered under NHIS

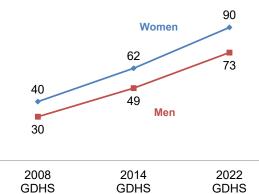
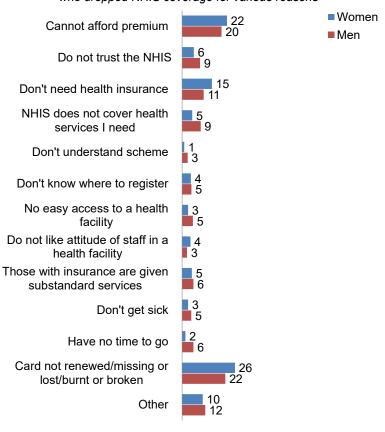


Figure 14.2 Reasons for dropping NHIS coverage

Percentage of women age 15–49 and men age 15–59 who dropped NHIS coverage for various reasons



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 **14.4.2a** 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

						Among won		insurance cover	age, type of
	F	Percent distributi	on by health insu	rance cover	age		cove	erage	
Background characteristic	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/ community- based health insurance	Private/com- mercially 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	8.0	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

	F	Percent distributi	on by health insu	rance covera	age	Among me		surance covera	ge, type of
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/ community- based 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

Table 14.2 Reasons for dropping NHIS coverage

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

	Per	cent distribution	by valid NHIS	card	Number of women
Background			Card not		covered by
characteristic	No card	Card seen	seen	Total	NHIS
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

	Per	cent distributio	n by valid NHIS ca	rd	Number of
Background					men covered
characteristic	No card	Card seen	Card not seen	Total	by NHIS
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

Among all women age 15–49, percentage who visited a health facility during the 6 months prior to the interview and percentage who visited a health facility during the 6 months prior to the interview and had a National Health Insurance Scheme (NHIS) card, and among women age 15–49 with any health insurance coverage, percentage who last used health insurance to access different services and made full payments or had co-payments, according to background characteristics, Ghana DHS 2022

Number of women	with any insurance aid in full coverage	0.4 2,303 1.2 2,442 1.5 2,147 1.4 2,078 2.0 1,897				0.1 502 0.7 559 1.0 630 0.1 339 0.3 1,003 0.5 274 0.7 289 2.1 619 1.1 372	0.7 2,133 1.3 2,418 1.1 2,795 1.8 3,062 1.1 3,124 1.2 13,532
Other	Co-paid Pai	0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 6.0 7.	1.1	0. E. E. O. C.	7800-0000 78000-00000 78000-00000	0.1.2 0.7.0 0.7.0 0.9
Surgery	Paid in full	0.2 0.7 0.8 1.0	0.1 1.0	0.0 0.8 3.	0.00 2.00 4.00 6.00 6.00 6.00 6.00 6.00 6.00 6	- 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.00 0.1. 4.00 0.1. 6.00 0.1. 6.00 0.1.
ns	Co-paid	0.000 4.000 0.000	0.0 0.0	0.1 0.6 0.7	0.0 0.0 0.0 0.0 0.0	0.000000000000000000000000000000000000	0.2 0.8 0.5 1.1 0.5
Admission	Paid in full	1. 2. 2. 2. 2. 2. 2. 3. 5. 5. 4. c.	3.0 2.9 3.0 3.0	2.3 2.7	6.6 6.2 6.2 6.2 6.2 6.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 332.0 332.0 332.0 332.0
Adm	Co-paid	2 8 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.7		ω 4 4 Ω α ω ∸ ω ο α	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
Diagnosis	Paid in full	3.8 6.5 4.7 7.7	8.6 7.9 5.6	8. 8. 9. 8. 8. 9.	5.9 4.7 4.6	6.6 6.6 6.6 6.6 6.7 6.7 6.7 6.7 6.7 6.7	3.4 6.7 7.8 9.3 9.0
Diaç	Co-paid	8.0 8.0 7.7 7.4 8.0	4. C.	4.7 8.3 4.7	8.3 10.0 8.1 1.3	0,4.6.7.0.4.9.6.1.0.0.7.7.0.4.0.0.7.7.0.4.0.0.0.0.0.0.0.0	3.0 4.2 6.7 6.7 6.0 6.0
Medicine	Paid in full	6.2 7.8 5.7 10.0 10.0 1.0 1.0	10.0	6.3 7.6 10.5	6.6 13.1 7.8 8.8 7.8	. 8 8 7 . 9	6.8 6.8 7.9 6.0 9.0
Mec	Co-paid	8	12.3	11.8 4.4 5.2	0.01 0.41 0.4.00 0.00 0.00 0.00 0.00 0.0	20000445000 2000000000000000000000000000	9 0 1 1 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Consultation	Paid in full	2.2.4.8.8.4 2.6.4.8.8.4	. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	2.8.8. 3.0.8.	6.23 9.59 9.49 9.49	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2.2.2.4 3.3.2.2.8 3.3.8.8.8 3.3.8.8.8
Cons	Co-paid	2.4.6.4.4.6.6.6.4.6.6.4.6.6.4.6.6.4.6.6.4.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.4.6.6.6.6.4.6.6.6.6.4.6.6.6.6.4.6	5.1 4.6 3.7	6.4 2.7	7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.8.4.4.6. 4.6.6.4.6.6.4.6.6.4.6.6.4.6.6.4.6.6.4.6.6.4.6.4.6.6.4.4.6.4
	Number of women	2,682 2,695 2,340 2,252 2,059	1,312 8,557 6,457	955 1,703 2,327	713 1,220 2,928 411	567 676 676 403 1,149 290 640 398	2,447 2,712 3,121 3,379 3,355 15,014
Percentage of women who visited a health provider or health feetings.	had an NHIS card	16.2 25.0 30.5 26.6 25.0	22.2 24.2 22.8	20.1 21.9 18.7	28.0 30.1 24.9 27.8	255.2 255.2 255.3 179.2 139.4 139.2	19.1 20.6 22.9 25.9 27.8 23.6
	provider or health facility	22.8 34.7 39.7 35.3 33.9	32.6 33.4 31.0	28.7 33.4 31.2	34.2 35.4 34.4 36.7	24.0 3.1.5 3.1.7 25.2 29.6 39.0 26.3	26.8 27.1 29.9 36.2 39.3
	Background characteristic	Age 15-19 20-24 25-29 30-34 35-39	45–49 Residence Urban Rural	Region Western Central Greater Accra	Volta Eastern Ashanti Western North	Anaio Bono East Oti Northern Savannah North East Upper East	Wealth quintile Lowest Second Middle Fourth Highest

Table 14.4.1a Utilisation of health services and type of payment: Women

Among women age 15-49 who visited a health provider or health facility during the 6 months prior to the interview and last used health insurance to access different services, percentage who made full payments or had co-payments by type of service, according to background characteristics, Ghana DHS 2022

	O	Consultation	_	_	Medicine			Diagnosis		∀	Admission			Surgery			Other	
			Number of			Number of			Number of			Number of			Number of			Number of
Background characteristic	Co-paid	Paid in full	respond- ents	Co-paid	Paid in full	respond- ents	Co-paid	Paid in full	respond- ents	Co-paid	Paid in 1 full	respond- ents	Co-paid	Paid in full	respond- ents	Co-paid	Paid in full	respond- ents
Age	7	Ç	7	r T	7	Ç	0	Ċ	7	2	ç	5	*	*	ć	(4.00)	6	Ü
81-0	7.10	0.0	- 1		0. 1 0. 1	040 0 0	50.0	50.9	7/1	0.10	0.00	- 6	0	í	2 6	(1.0c) (1.0c)	(30.0)	C (
20–24	65.0	34.7	178	58.4	40.7	523	49.9	49.4	322	29.0	39.8	138	(36.9)	(60.5)	30	(41.7)	(54.1)	53
25–29	55.7	42.9	205	9.99	45.0	295	48.9	50.9	353	58.4	41.6	143	(54.8)	(45.2)	36	33.2	62.9	51
30–34	56.2	43.8	159	56.2	42.6	488	42.3	54.9	280	44.9	51.2	144	(42.5)	(44.1)	48	46.4	51.3	26
35–39	55.2	44.2	153	29.0	41.0	423	49.6	50.2	286	61.3	38.4	117	(36.6)	(62.5)	46	40.6	57.4	65
40-44	40.9	54.1	114	52.2	44.2	292	33.9	61.2	192	31.1	63.1	77	(26.6)	(60.1)	32	(22.8)	(73.7)	26
45–49	26.7	40.7	103	53.8	43.5	260	37.1	59.4	165	46.1	52.5	99	*	*	9	*	*	27
Residence																		
Urban	29.7	41.6	627	53.1	45.0	1,748	43.0	54.7	1,127	48.7	47.8	469	37.0	52.9	158	41.3	56.4	165
Rural	53.1	45.0	402	61.3	37.6	1,143	49.0	50.1	643	9.99	42.7	307	44.5	54.4	69	40.3	54.8	138
Region																		
Western	70.2	29.8	73	65.2	34.8	153	58.4	41.6	29	(61.6)	(38.4)	20	*	*	10	*	*	23
Central	6.99	31.6	137	65.3	34.7	313	47.0	53.0	250	(26.9)	(43.1)	99	*	*	19	*	*	18
Greater Accra	(42.5)	(23.9)	126	44.6	51.1	414	37.6	55.3	252	(33.0)	(23.6)	100	*	*	28	*	*	19
Volta	6.99	33.1	47	74.2	24.7	178	57.1	41.1	96	(67.4)	(32.6)	33	*	*	10	*	*	7
Eastern	48.7	51.3	151	51.9	48.1	310	40.4	9.69	283	40.1	59.9	115	*	*	32	37.9	2.09	93
Ashanti	57.5	38.6	270	62.0	36.2	287	51.2	47.1	427	26.7	40.3	196	*	*	31	*	*	62
Western North	50.5	49.5	36	8.09	39.2	8	52.8	47.2	36	(40.8)	(28.5)	56	*	*	2	*	*	က
Ahafo	(36.6)	(63.4)	14	62.7	37.3	62	35.7	64.3	35	55.8	44.2	19	*	*	2	*	*	-
Bono	*	*	19	51.9	45.3	104	49.4	49.0	20	(73.8)	(26.2)	75	*	*	2	*	*	6
Bono East	(40.2)	(26.8)	23	54.9	44.4	123	35.2	63.3	99	(47.3)	(42.8)	75	*	*	∞	*	*	13
ij	65.3	34.7	36	69.4	30.6	81	50.2	49.1	25	68.9	29.7	56	*	*	တ	*	*	7
Northern	(38.4)	(61.6)	45	32.7	65.2	143	(17.2)	(82.8)	48	(39.5)	(58.5)	37	*	*	20	*	*	7
Savannah	(45.9)	(52.2)	4	34.0	65.5	47	44.9	55.1	52	(55.1)	(41.4)	7	*	*	_	*	*	က
North East	48.8	48.1	4	62.5	36.0	22	(51.6)	(48.4)	4	(40.5)	(28.2)	0	*	*	7	*	*	က
Upper East	(69.5)	(28.4)	27	27.7	37.6	174	53.6	40.4	37	(68.2)	(24.5)	30	*	*	2	(21.7)	(49.8)	56
Upper West	*	*	4	28.5	70.9	49	22.3	77.7	30	(34.0)	(0.99)	9	*	*	2	*	*	4
Wealth quintile																		
Lowest	60.1	39.9	94	58.5	39.3	332	45.3	51.2	141	29.7	41.7	81	*	*	13	20.2	36.1	42
Second	52.3	47.2	145	59.3	39.9	410	45.5	54.5	226	50.1	48.7	140	49.5	48.6	36	47.8	51.3	62
Middle	63.6	32.8	211	6.99	41.7	582	47.5	52.1	360	54.6	44.8	124	(49.6)	(50.4)	27	37.6	27.0	22
Fourth	53.1	43.2	268	57.0	39.4	749	44.5	51.0	522	49.9	43.8	221	(24.8)	(51.4)	62	35.2	64.4	8
Highest	51.5	48.5	311	52.9	46.9	816	44.0	22.7	521	51.5	48.1	210	42.1	26.7	82	(37.6)	(80.8)	26
Total	55.3	42.9	1,028	56.3	42.0	2,891	45.2	53.1	1,770	51.8	45.8	922	39.3	53.3	226	40.8	55.7	303

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

Table 14.4.2 Access to and utilisation of health services: Men

Among all men age 15–49, percentage who visited a health provider or health facility during the 6 months prior to the interview and percentage who visited a health facility during the 6 months prior to the interview and a National Health Insurance Scheme (NHIS) card, and among men age 15–49 with any health insurance coverage, percentage who last used health insurance to access different services who made full payments or had copayments, according to background characteristics, Ghana DHS 2022

Age Frontier of lacility and characteristic Incontact of lacility and chara	Consultation	Medicine	Diagnosis	Admission	uo	Surgery		Other	
rear 17.4 9.2 1,424 20.2 9.3 1,033 21.9 7.1 888 18.4 9.3 853 18.3 5.9 809 20.5 8.2 713 20.5 8.2 713 20.5 8.2 713 20.5 8.2 713 20.5 8.2 713 20.5 8.2 713 20.9 8.0 2,835 22.4 13.1 235 22.4 13.1 235 22.2 12.1 222 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 225 22.4 13.1 137 20.2 8.0 1,133 20.3 8.1 145 20.4 8.1 267 20.4 8.1 267 20.4 8.1 137 20.5 8.1 137 20.6 6.6 1,133 20.7 1,089 20.7 1,089 20.7 1,089 20.7 1,089 20.7 1,089 20.7 1,089	aid Paid in full	Co-paid Paid in full	Co-paid Paid in full	Co-paid Pa	Paid in full Co	Co-paid Paid in	in full Co-paid	l Paid in full	Number of men
ree 20.2 9.3 1,424 20.2 9.3 1,033 21.9 7.1 888 18.4 9.3 6.9 809 18.3 5.9 809 18.3 5.9 809 18.4 8.0 2,442 18.4 8.0 2,835 19.2 19.2 6.6 414 19.2 19.4 1,179 19.2 12.1 222 22.4 13.1 235 23.5 19.6 6.8 414 19.2 12.1 222 23.5 19.6 6.8 414 19.2 12.1 222 23.8 14.0 8.1 119 24 119 25 4 119 28 5 119 28 6 1,139 4 4 6 6 1,133 4 4 7 8 1 6 6 6 1,137 25 7 1,089 4 4 7 8 1 14.0 8.1 155 4 4 16.0 6.6 1,137 25 7 1,089 4 18.3 7.8 1,137 25 7 1,089									
20.2 20.2 21.9 21.9 21.9 21.9 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.6 20.9 20.7 20.0 20.0 20.0 20.0 20.0 20.0 20.0		9	2 2	0.5	9	0	0	4.0	1,204
21.9 7.1 888 18.4 9.3 863 20.5 8.2 713 25.6 13.5 5.7 15.5 6.6 6.8 19.2 9.9 9.9 686 19.2 9.9 9.9 686 19.2 5.8 1,076 20.9 9.9 686 19.2 13.1 236 19.2 12.1 222 19.6 13.2 316 11.3 6.2 155 11.3 6.2 155 11.3 6.2 155 11.3 6.2 155 11.3 6.2 155 11.3 6.2 155 11.3 6.2 155 11.3 6.7 1,089 16.0 6.6 1,133 21.4 9.8 1,466		5	ς Θ	1.0	ίς.	-0	o.	9.0	821
18.4 9.3 853 20.5 6.9 809 20.5 13.5 557 21.0 9.4 3,442 15.5 6.6 6.8 686 19.2 22.4 13.1 235 20.9 9.9 686 19.2 14.1 235 20.9 8.0 1,776 20.9 8.0 1,179 19.6 13.2 1316 17.6 8.1 187 19.1 6.8 13.2 119 17.6 6.2 155 12.3 6.7 1,089 16.0 6.6 1,133 18.3 7.8 1,137 20.5 14.2 6.2 155 21.4 8.1 187 21.4 8.1 187 22.5 119 23.8 14.2 6.2 155 24.0 14.0 8.1 14.2 6.7 14.8 6.7 14.8 6.7 14.8 6.7 14.8 6.7 14.8 6.7 14.8 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.2 6.7 14.8 6.8 14.3 14.3 14.8 6.8 14.3 14.3 14.8 6.8 14.3 14.3 14.8 6.8 14.8 14.8 6.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14		4.1	e: .	0.4	က္ဖ	0 0	Ö,	£. 6	601
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Table 14.4.2a Utilisation of health services and type of payment: Men

Percentage of men age 15–49 who visited a health provider or health facility during the 6 months prior to the interview, and percentage of men who last used health insurance to access different services and made full payments or had co-payments, according to background characteristics, Ghana DHS 2022

		Consultation	ر		Medicine			Diagnosis		4	Admission			Surgery			Other	
			Number			Number			Number			Number			Number			Number
Background	:	Paid in	respond-	:	Paid in	respond-	:	Paid in	respond-	;	Paid in	respond-	:	Paid in	respond-	:	Paid in	respond-
characteristic	Co-paid	[n]	ents	Co-paid		ents	Co-paid	full	ents	Co-paid		ents	Co-paid	[n]	ents	Co-paid	[n]	ents
Residence																		
Urban	37.4	62.2	129	42.0	57.4	299	29.6	9.69	152	6.0	2.0	2	na	na	0	(1.1)	(1.8)	_
Rural	49.7	48.1	48	48.6	51.0	180	47.7	50.1	48	(1.5)	(1.9)	-	na	na	0	(0.9)	(5.6)	-
Total	40.8	58.3	213	45.4	54.1	564	35.1	9.29	240	9.0	8.0	-	na	na	0	0.5	6.0	_

Note: Figures in parentheses are based on 25-49 unweighted cases. na = not applicable

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.

his 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

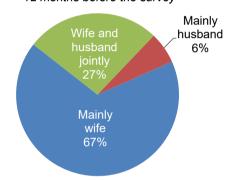
Respondents are considered to have control over their own earnings if they participate in decisions alone or jointly with their spouse about how their own earnings will be used.

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

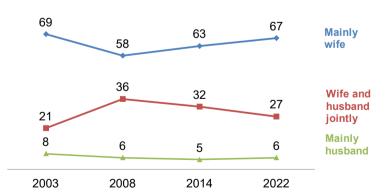
Percent distribution of currently married women with cash earnings in the 12 months before the survey



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

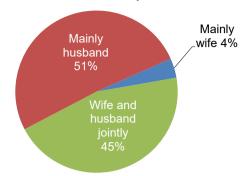
Forty-five percent of currently married men aged 15–49 decide jointly with their wife how their cash earnings are used, while 51% decide alone (**Figure 15.3**).

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

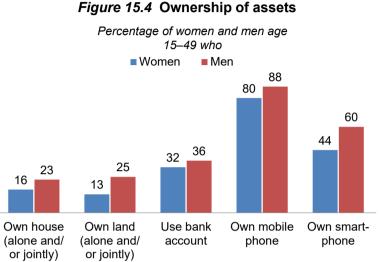
Use of bank accounts or mobile-money-service providers

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, or j 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.

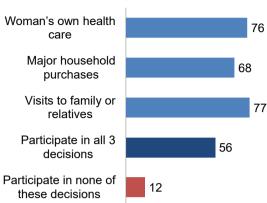
Sample: Currently married men age 15-49

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

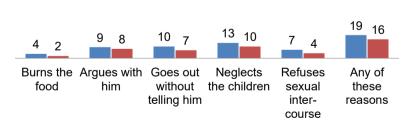
Nineteen percent of women and 16% of men agree with at least one of the specified reasons that a husband is justified in hitting or beating his wife. Significantly, 13% of women and 10% of men reported that a husband is justified in hitting or beating his wife if she neglects the children, indicating 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

Figure 15.6 Attitudes towards wife beating

Percentage of women and men age 15–49 who agree that a husband is justified in beating his wife for specific reasons

■ Women



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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		earnings
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•	Table 15.11	Ability to negotiate sexual relations with husband
•	Table 15.12	Women's participation in decision making regarding sexual and reproductive
		health

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

	•	ently married ndents:			rently married renonths by type o			
Age	Percentage employed in last 12 months	Number of respondents	Cash only	Cash and in-kind	In-kind only	Not paid	Total	Number of respondents
			WOM	/IEN				
15–19 20–24 25–29 30–34 35–39 40–44 45–49 Total 15–49	61.7 73.8 83.9 91.3 92.1 94.0 93.9 88.0	194 1,013 1,457 1,719 1,641 1,239 941 8,205	30.1 45.2 58.5 63.5 61.6 58.0 58.5 58.3	22.3 20.1 19.9 19.0 23.8 25.2 28.1 22.5	10.4 8.7 6.0 3.9 4.5 4.4 3.8	37.1 26.0 15.5 13.6 10.1 12.3 9.5	100.0 100.0 100.0 100.0 100.0 100.0 100.0	120 747 1,222 1,569 1,511 1,165 883 7,218
			ME	EN				
15–19 20–24 25–29 30–34 35–39 40–44 45–49	* 97.9 99.3 99.7 99.9 99.3 99.7	13 126 383 568 665 597 475	* 72.5 76.8 79.3 81.2 77.2 77.9	* 17.5 16.9 13.5 14.2 17.0 16.3	* 1.5 1.8 1.3 1.2 1.3 0.7	* 8.6 4.6 5.8 3.3 4.6 5.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	12 124 380 566 665 593 474
Total 15-49	99.5	2,828	78.3	15.6	1.3	4.8	100.0	2,813
50–59 Total 15–59	98.8 99.4	658 3,485	72.4 77.2	20.7 16.6	1.6 1.3	5.3 4.9	100.0 100.0	650 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

			ecides how nings are u			W		earnings co		ith		
Background characteristic	Mainly wife	Wife and husband jointly	Mainly husband	Other	Total	More	Less	About the same	Husband has no earnings	Don't know	Total	Number of women
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 Ahafo	71.1 63.3	23.3 21.3	5.6 15.3	0.0	100.0 100.0	11.3 6.2	80.0 84.5	7.0 6.2	0.6 0.6	1.0 2.4	100.0 100.0	181 110
Bono	70.1	27.9	1.9	0.0	100.0	7.4	73.7	11.9	0.0	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	8.0	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	8.0	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

			Me	en					Wor	nen		
Background characteristic	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
	wile	Jointry	Husbariu	Other	TOTAL	oi illeli	wiie	Jointly	Husbariu	Other	TOTAL	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	53.9	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	50.2	0.0	100.0	189	4.4	22.5	72.8	0.0	100.0	630
Ashanti	3.9	58.3	37.8	0.9	100.0	435	14.3	35.9	49.8	0.3	100.0	1,408
Western North Ahafo	0.0 2.1	44.0	55.5 35.4	0.6	100.0 100.0	81 67	21.8 18.9	26.2 21.9	51.7 59.2	0.2 0.0	100.0 100.0	230 182
		61.3		1.2								
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
10(a) 10–09	4.0	40.0	49.0	0.2	100.0	5,240	па	па	IId	па	па	IId

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

_		Marital	status		_
Ownership status	Never married	Married/ living together	Divorced/ separated	Widowed	Total
	HOU	SE 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
	LAN	D OWNERSHIP			
Alone Jointly with husband only Jointly with someone else only Jointly with husband and someone else Both alone and jointly Does not own	1.3	5.9	9.8	17.8	4.9
	na	10.3	0.0	1.6	5.7
	1.0	1.7	3.1	3.2	1.6
	na	1.0	0.0	0.2	0.6
	0.0	0.1	0.3	0.0	0.1
	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

		Marital	status								
	Never	Married/	Divorced/								
Ownership status	married	living together	separated	Widowed	Total						
	HOU	SE 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

	Percenta	ge who ow	n a house:	Percent-				e has 'deed¹:	_			
Background characteristic	Alone	Jointly ²	Both alone and jointly	age who do not own a house	Total	Number of women	Woman's name is on title/deed ¹	Woman's name is not on title/deed ¹	Does not have a title/deed ¹	Don't know ³	Total	Number of women who own a house ⁴
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 More than	2.7	10.4	0.2	86.6	100.0	8,999	34.8	18.5	43.8	2.8	100.0	1,203
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

	Percenta	ge who ow	n a house:	Percent-				e has 'deed ¹ :	_			
Background characteristic	Alone	Jointly ²	Both alone and jointly	age who do not own a house	Total	Number of men	Man's name is on title/deed¹	Man's name is not on title/deed ¹	Does not have a title/deed ¹	Don't know ³	Total	Number of men who own a house ⁴
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

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

	Percen	tage who c	wn land:					d has 'deed ¹ :	_			
Background characteristic	Alone	Jointly ²	Both alone and jointly	Percent- age who do not own land	Total	Number of women	Woman's name is on title/deed ¹	Woman's name is not on title/deed ¹	Does not have a title/deed ¹	Don't know ³	Total	Number of women who own land ⁴
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	8.0	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	8.0	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 More than	4.0	6.3	0.1	89.7	100.0	8,999	38.5	7.7	51.8	2.1	100.0	929
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

	Percen	tage who o	wn land:				Land a title/	d has 'deed ¹ :				
Background characteristic	Alone	Jointly ²	Both alone and jointly	Percent- age who do not own land	Total	Number of men	Man's name is on	Man's name is not on title/deed ¹	Does not have a title/deed ¹	Don't know³	Total	Number of men who own land ⁴
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 79.4	100.0	466	54.1 62.8	4.6 2.3	41.2	0.0 0.0	100.0	128 243
Ashanti Western North	15.7 23.1	4.9 14.7	0.0 0.8	79.4 61.4	100.0 100.0	1,179 181	22.5	2.3 3.9	34.9 73.6	0.0	100.0 100.0	243 70
Ahafo	19.9	8.7	0.0	71.4	100.0	133	44.2	3.9 4.5	73.0 51.3	0.0	100.0	38
Bono	14.4	8.8	0.0	71. 4 76.8	100.0	222	37.7	12.6	47.9	1.7	100.0	50 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

² Jointly with wife, someone eise, or both wire and someone eise
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 not 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 includes men who own land alone, jointly with their wife only, jointly with their wife and someone else, or both alone and includes men who own land alone, jointly with their wife only, jointly with their wife and someone else, or both alone and includes men who own land alone, jointly with their wife only, jointly with their wife and someone else, or both alone and includes men who own land alone, jointly with their wife only, jointly with their wife and someone else, or both alone and includes men who own land alone, jointly with their wife only, jointly with their wife and someone else, or both alone and includes men who own land alone, jointly with their wife only, jointly with their wife only includes men who own land alone, jointly with their wife only, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone, jointly with their wife only includes men who own land alone.

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

	Mobile phone	e ownership:	_		nt ownership use:	Percentage who have and use a bank	
Background characteristic	Percentage who own any mobile phone	Percentage who own a smartphone	Percentage who used a mobile phone for financial transactions in the last 12 months ¹	Percentage who have and use a bank account	Percentage who deposited or withdrew money from their own account in the last 12 months	account or used a mobile phone for financial transactions in the last 12 months	Number of women
Age							
15–19 20–24 25–29 30–34 35–39 40–44	49.8 86.7 87.3 87.7 85.2 84.4	27.4 57.0 53.2 49.4 42.8 35.1	37.8 76.2 81.4 78.5 78.1 75.0	6.7 27.3 40.7 40.7 42.9 37.0	5.0 22.6 32.1 32.8 34.4 28.8	39.8 78.7 83.1 81.1 80.9 78.8	2,682 2,695 2,340 2,252 2,059 1,675
45–49	83.8	33.3	73.3	34.7	27.2	76.4	1,312
Residence	22.0	23.0	. 3.0		=: - =		-,-· -
Urban Rural	86.6 70.4	57.0 25.7	79.8 57.9	41.4 18.6	32.9 15.0	82.3 60.4	8,557 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 Ashanti	82.9 84.6	46.0 55.2	71.1 73.2	29.8 45.1	25.2 36.0	73.4 78.2	1,220
Western North	74.1	34.6	73.2 66.4	31.1	26.0	70.2 70.4	2,928 411
Ahafo	74.1 75.6	32.4	70.7	27.2	22.6	70.4 73.4	317
Bono	81.9	44.4	74.5	37.2	33.6	73.4 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

	Mobile phone	e ownership:	_		nt ownership use:	Percentage who have and use a bank	
			Percentage who used a mobile phone		Percentage who deposited or withdrew	account or used a mobile phone for	
			for financial	Percentage	money from	financial	
Daalamaaad	Percentage	Percentage	transactions in		their own	transactions in	Nob
Background characteristic	who own any mobile phone	who own a smartphone	the last 12 months ¹	use a bank account	account in the last 12 months	the last 12 months	Number of men
•	'						·
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
	91.3	44.0	04.3	47.0	41.4	07.0	557
Residence	04.0	70.0	0.4.5	4	40.0	05.0	0.440
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 Lowest	75.5	27.2	56.2	10.2	7.4	57.7	1,089
Second					15.7		
Second Middle	82.9 87.4	42.7 56.3	68.5 79.6	19.5 29.6	24.1	70.7 81.7	1,133 1,137
				29.6 42.4			,
Fourth Highest	91.7 95.8	71.9 87.5	85.0 91.8	42.4 67.4	36.8 62.7	86.1 92.8	1,466 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
		WON	ΛEN			•	•
Own health care Major household purchases Visits to her family or relatives	38.2 30.0 28.2	37.4 37.6 48.9	23.8 31.4 22.3	0.5 0.8 0.4	0.1 0.2 0.3	100.0 100.0 100.0	8,205 8,205 8,205
		ME	EN .				
Own health care Major household purchases	7.8 11.4	42.8 48.2	48.4 39.5	0.8 0.5	0.1 0.4	100.0 100.0	2,828 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

		Specific decisions	3					
Background characteristic	Woman's own health care	Making major household purchases	Visits to her family or relatives	All three decisions	None of the three decisions	Number of women		
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

	Specific	decisions			
Background characteristic	Man's own health care	Making major household purchases	Both decisions	Neither of the two decisions	Number of men
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	
Employed for cash	93.0	91.5	88.7	4.0 4.2	2,642 171
	93.0	91.5	00.7	4.2	17.1
Number of living children	92.3	88.7	85.4	4.4	249
0 1–2	92.3 91.6	88.7 87.8	85.4 83.3	4.4 3.9	1,036
3–4	90.7	87.0	83.2	5.5	929
5 - 4 5+	90.8	88.1	83.9	4.9	613
	00.0	00.1	00.0	1.0	0.10
Residence Urban	90.2	87.1	82.8	5.5	1,479
Rural	92.4	88.3	84.5	3.8	1,349
Danien					.,
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	74 137
Upper East Upper West	94.9 97.9	82.7 90.4	80.2 88.9	2.6 0.6	86
• •	37.3	90.4	00.9	0.0	00
Education	01.6	00.0	0F F	F 0	460
No education	91.6 91.7	88.8 88.5	85.5 84.7	5.0 4.4	469 335
Primary Secondary	91.7 91.2	88.5 87.8	84.7 83.6	4.4 4.6	335 1,580
More than secondary	90.4	85.6	80.9	4.6 4.9	1,560 444
·		-3.0	-5.0		
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

	Hu	sband is justified	in hitting or be	ating his wife if sh	ne:	_ Percentage	
Background	Goes out without telling	Neglects the	Argues	Refuses to have sexual intercourse	Burns	who agree with at least one specified	Number of
characteristic	him	children	with him	with him	the food	reason	women
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
	15.4	10.5	10.2	11.4	0.5	21.5	2,000
Number of living children	7.0	40.4	0.0	0.0	2.0	40.5	4.005
0 1–2	7.8 9.5	12.4 12.1	8.6 8.6	6.2 6.5	3.6 3.3	18.5 18.4	4,925 4,598
							,
3–4 5+	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

	Hu	sband is justified	in hitting or be	eating his wife if sh	ne:	Percentage	
				Refuses to		who agree	
	Goes out			have sexual	_	with at least	
Background characteristic	without telling him	Neglects the children	Argues with him	intercourse with him	Burns the food	one specified reason	Number of men
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		44.0				40.0	
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	4.4	5.0	F 0	0.0	4.0	40.0	0.440
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	7.0	40.7	47.0	0.0	4.0	04.0	444
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 Volta	1.3 1.7	1.9 4.1	1.5 2.5	0.6 1.0	0.6 0.8	3.5 6.0	1,076 235
Eastern	6.5	10.6	2.5 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 Upper West	7.4 17.9	11.8 25.2	8.4 16.3	8.3 9.8	4.3 5.8	19.5 36.5	267 155
	17.5	20.2	10.5	3.0	5.0	30.5	133
Education	15.0	16.0	15.0	0.4	2.4	27.0	600
No education	15.0 12.0	16.2 15.8	15.8 13.3	9.1 7.5	3.1 3.9	27.9 23.8	628 725
Primary Secondary	5.8	9.4	7.3	3.7	1.8	15.3	3,990
Secondary 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
1010110-00	0.1	3.2	7.0	7.4	1.0	10.2	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

		Women			Men	
Background characteristic	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 15–19 20–24 25–29 30–39 40–49	72.3 72.0 72.6 71.4 70.5 69.4	84.2 82.3 86.0 87.0 84.8 83.9	5,376 2,682 2,695 2,340 4,311 2,987	69.4 67.5 72.0 69.4 71.3 72.9	85.7 82.6 89.9 86.7 89.1 87.3	2,458 1,424 1,033 888 1,662 1,270
Marital status						
Never married Ever had sex Never had sex Married/living together Divorced/separated/widowed	75.0 77.7 71.0 68.0 73.9	86.5 90.3 81.0 83.0 87.8	5,268 3,134 2,134 8,205 1,542	70.7 75.3 63.9 69.9 78.7	86.1 89.0 81.6 88.1 88.3	3,208 1,922 1,286 2,828 242
Residence Urban Rural	75.2 65.7	87.7 80.8	8,557 6,457	73.3 67.4	88.9 84.9	3,442 2,835
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	61.0 78.6 84.5 70.0 74.6 75.1 78.2 75.3 68.7 73.3 66.7 50.1 55.4 35.8 58.6 58.6	82.6 95.1 88.5 86.9 87.3 92.4 88.2 92.9 81.4 81.5 85.1 67.7 70.9 54.3 63.7 72.2	955 1,703 2,327 713 1,220 2,928 411 317 567 676 403 1,149 319 290 640 398	67.9 77.8 80.6 71.3 77.3 70.1 75.3 72.7 72.2 64.1 72.1 49.2 51.1 56.7 64.0 69.8	90.3 85.3 92.1 92.9 95.5 90.5 81.0 93.0 89.3 80.2 88.8 74.6 72.0 73.3 81.0 77.2	414 686 1,076 235 466 1,179 181 133 222 316 187 484 155 119 267 155
Education No education Primary Secondary More than secondary	53.6 69.1 75.0 78.1	69.4 81.8 88.2 92.4	2,411 2,071 8,999 1,533	56.5 65.0 72.8 75.0	72.6 81.3 89.3 91.8	628 725 3,990 935
Wealth quintile Lowest Second Middle Fourth Highest	57.3 65.9 75.3 75.8 76.7	71.5 80.7 86.8 89.7 90.8	2,447 2,712 3,121 3,379 3,355	59.1 68.4 71.8 74.8 75.9	76.8 87.1 85.9 91.2 91.4	1,089 1,133 1,137 1,466 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	00.5	00.0	4.007
15–24	69.5	68.9	1,207
15–19 20–24	66.7 70.1	63.4 69.9	194
	70.1 71.2		1,013
25–29	71.2 74.2	70.1	1,457
30–39		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	50.4	40.0	0.045
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.

 $\underline{\textbf{Table 15.12 Women's participation in decision making regarding sexual}} \\ \underline{\textbf{and reproductive health}}$

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 20-24 25-29 30-34 35-39 40-44 45-49	32.4 43.7 48.1 55.2 55.5 51.5 57.3	194 1,013 1,457 1,719 1,641 1,239 941
	37.3	341
Employment (last 12 months) Not employed Employed for cash Employed not for cash	34.4 57.4 40.2	986 5,832 1,387
Residence Urban Rural	59.3 43.6	4,248 3,956
Region Western Central Greater Accra Volta Eastern Ashanti Western North Ahafo Bono Bono East Oti Northern Savannah North East Upper East Upper West	69.0 59.4 69.0 54.5 42.1 47.8 40.5 37.4 61.7 50.9 50.5 40.1 39.1 28.5 52.5 40.8	487 816 1,144 375 633 1,426 231 183 284 376 248 870 218 229 426 258
Education No education Primary Secondary More than secondary	35.7 50.3 55.6 74.5	2,015 1,233 4,174 783
Wealth quintile Lowest Second Middle Fourth Highest	38.4 43.3 51.2 56.4 67.6 51.7	1,662 1,513 1,545 1,743 1,742 8,205

¹ Percentages of currently married women who make decisions regarding sexual 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.

he 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 well-being 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 16.1** 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

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

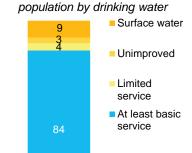
Drinking water directly from a river, dam, lake, pond, stream, canal, or irrigation canal.

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



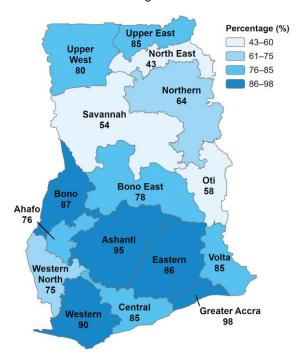
Total

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

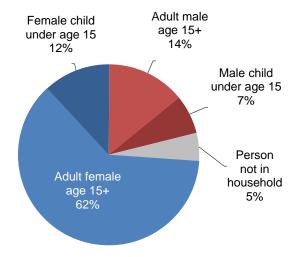


16.1.2 Person Collecting Drinking Water

Sixty percent of the population lives in households without drinking water on the premises (**Table 16.3**). In households without drinking water, the individual collecting water is more often an adult female age 15 or older (62%) than an adult male (14%). Similarly, female children under age 15 (12%) are more likely to be responsible for collecting water than male children (7%) (**Figure 16.2**).

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

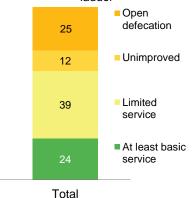
The JMP has also devised a five-rung sanitation service ladder to benchmark and compare progress towards achieving SDG targets related to sanitation. The 2022 GDHS captured information about all five rungs. However, for those households whose excreta were taken off-site, it is not possible to know if 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 defectation (**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.

Figure 16.3 Household population sanitation service

Percent distribution of de jure population by sanitation service ladder



16.2.2 Removal and Disposal of Excreta

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 non-service provider to an unknown location.

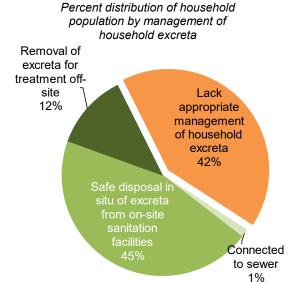
Sample: De jure population with on-site sanitation facilities (septic tanks, pit latrines, and composting toilets)

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



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
- Table 16.6 Household sanitation facilities
- **Table 16.7** Sanitation service ladder
- Table 16.8 Emptying and removal of waste from on-site sanitation facilities
- 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

		Households			Population	
Characteristic	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

Background	At least basic	Limited		Surface		Number of
characteristic	service ¹	service ²	Unimproved ³	water	Total	persons
Residence						
Urban	94.9	2.7	1.1	1.3	100.0	33,294
Rural	71.6	5.8	4.4	18.2	100.0	30,317
Region						
Western	90.4	1.9	2.1	5.5	100.0	3,944
Central	85.0	5.2	0.8	9.1	100.0	6,957
Greater Accra	97.7	0.8	0.0	1.5	100.0	9,217
Volta	84.8	1.6	2.7	10.8	100.0	2,902
Eastern	85.5	1.8	2.9	9.8	100.0	5,234
Ashanti	94.8	1.8	1.9	1.4	100.0	11,844
Western North	75.0	6.4	11.5	7.0	100.0	1,775
Ahafo	75.8	5.8	6.8	11.6	100.0	1,397
Bono	87.0	4.8	1.1	7.1	100.0	2,262
Bono East	78.3	4.0	0.9	16.8	100.0	2,831
Oti	57.8	5.2	1.4	35.6	100.0	1,937
Northern	64.4	6.3	2.9	26.4	100.0	5,493
Savannah	54.2	4.1	3.0	38.8	100.0	1,586
North East	43.4	14.1	25.1	17.4	100.0	1,552
Upper East	85.1	10.5	4.1	0.4	100.0	2,904
Upper West	79.9	18.0	0.9	1.3	100.0	1,774
Wealth quintile						
Lowest	52.1	7.7	7.9	32.3	100.0	12,721
Second	78.2	6.5	3.6	11.7	100.0	12,725
Middle	93.1	3.4	1.2	2.4	100.0	12,719
Fourth	97.7	1.5	0.4	0.4	100.0	12,726
Highest	97.9	1.7	0.3	0.1	100.0	12,719
Total	83.8	4.1	2.7	9.4	100.0	63,611

Note: Service ladder concept/definitions are based on the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and

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

	Percentage of de jure population		P	erson who us	sually collects	drinking wat	er		Number of persons
Background characteristic	without drinking water on premises ¹	Number of persons	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	Total	without drinking water on premises ¹
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

Background characteristic	Percentage with drinking water available in sufficient quantities ¹	Number of persons
Residence	1	
Urban Rural	80.2 81.7	33,294 30,317
Region		
Western	85.4	3,944
Central	81.4	6,957
Greater Accra Volta	82.0 77.0	9,217 2,902
Eastern	81.6	5,234
Ashanti	85.5	11,844
Western North	80.8	1,775
Ahafo	79.9	1,397
Bono	83.0	2,262
Bono East	85.1	2,831
Oti Northern	68.8 67.9	1,937 5,493
Savannah	77.4	1,586
North East	73.8	1,552
Upper East	86.0	2,904
Upper West	82.6	1,774
Source of drinking water ²		
Improved	81.1	55,937
Unimproved	79.0	1,704
Surface	79.8	5,970
Time to obtain drinking water (round trip)		
Water on premises ¹	81.0	25,514
30 minutes or less	82.4	33,789
More than 30 minutes	67.6	4,120
Don't know	89.0	187
Wealth quintile		
Lowest	82.1	12,721
Second	76.7	12,725
Middle Fourth	78.9 80.7	12,719 12,726
Highest	86.2	12,726
ŭ		,
Total	80.9	63,611

 $^{^{\}rm 1}$ Defined as having sufficient quantities of drinking water in the last month $^{\rm 2}$ 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

										Percent- age using	
		Bleach/	Strained	Ceramic,	Solar					an appro- priate	Number
Background		chlorine	through	sand, or	disin-	Let stand		Don't	No	treatment	of
characteristic	Boiled	added	cloth	other filter	fection	and settle	Other	know	treatment	method ¹	persons
Residence											
Urban	1.5	1.6	0.6	0.7	0.0	8.0	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	8.0	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	8.0	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

Note: Respondents may report multiple treatment methods, so the sum of treatment may exceed 100%.

Appropriate water treatment methods are boiling, bleaching, filtering, and solar disinfecting.

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

		Households			Population	
Type and location of toilet/ latrine facility	Urban	Rural	Total	Urban	Rural	Total
Improved sanitation facility Flush/pour flush to piped sewer	83.7	49.4	69.1	81.0	43.6	63.2
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 Flush/pour flush not to sewer/septic	6.9	17.7	11.5	7.4	17.5	12.2
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 Number of households/population	100.0 10,320	100.0 7,613	100.0 17,933	100.0 33,294	100.0 30,317	100.0 63,611
, ,	10,020	7,010	17,555	00,204	50,517	00,011
Location of toilet facility	00.0	7.0	40.0	00.5	0.0	40.0
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 Number of households/population with	100.0	100.0	100.0	100.0	100.0	100.0
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	At least basic	Limited		Open		Number of
characteristic	service ¹	service ²	Unimproved ³	defecation	Total	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

Packground Pac					f method of ks or other				ı		with o	Percentage of population with on-site sanitation facilities for which:			
Tright to septic Tright to s	•	by a service provider to treatment	by a service provider, don't know	in a covered	to un- covered pit, open ground, water body, or else-	Other	know where waste was		know if ever	Total	was safely disposed	was disposed of	was removed for treat-	of persons with improved on-site sanitation	
Flush to septic	•														
Flush to pit International Properties 1.6 13.4 1.0 0.2 0.0 0.0 0.9 76.6 6.3 100.0 83.9 0.2 15.9 24.428 1.0 Properties Prope	Flush to septic tank Latrines and other	6.3	32.7	0.0	0.1	0.0	1.3	54.8	4.8	100.0	59.6	0.1	40.3	13,060	
Matrine	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	
ViP) latrine 2.8 2.02 1.5 0.2 0.1 1.0 64.2 10.0 10.0 75.7 0.3 24.0 11,200	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	
Composting toilet Comp	(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	
Residence		0.3	5.1	0.7	0.1	0.0	8.0	90.3	2.6	100.0	93.6	0.1	6.3	11,467	
Urban Rural 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 0.0 0.9 41.0 6.3 100.0 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 82.1 0.4 17.5 1,840 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		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	
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 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 76.4 0.1 20.5 9,337 Western North 0.4	Urban													,	
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 1,80 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 79.4 0.1 20.5 9,337 Western North 0.4 7.1	•	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	
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 73.5 7.0 100.0 89.5 0.0 10.5 1,535 Bono East 0.4 17.0 1.0	Central	1.6	17.5	0.3	0.0	0.2	0.2	79.4	8.0	100.0	80.5	0.2	19.3	4,514	
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 73.5 7.0 100.0 89.5 0.0 10.5 1,535 Bono East 0.4 17.0 1.0 0.0 0.7 89.5 1.2 100.0 81.5 0.0 18.5 1,381 Oti 2.8 5.1 0.7 0.1															
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															
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 77.2 2.2 100.0 97.7 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 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
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 West 0.9 14.4 0.3															
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															
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															
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															
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 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 0.0 0.9 58.1 3.8 100.0 61.8 0.1 38.1 10,692															
Upper East Upper West 0.9 14.4 0.0 0.3 0.0 0.3 0.0 0.9 0.0 79.2 1.9 3.9 73.3 100.0 13.9 83.4 100.0 0.3 87.2 16.3 0.0 751 12.8 441 Wealth quintile Lowest 0.1 0.2 5.1 2.1 9.5 1.1 2.1 2.1 2.1 2.1 2.1 2.1 3.2 0.0 2.1 2.1 3.1 3.2 2.1 2.1 3.1 3.2 0.1 3.1 3.2 0.1 3.1 3.2 0.1 3.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.1 3.2 0.2 3.1 3.1 0.0 3.0 3.0 0.0 3.0 0.0 3.0 0.0 3.0 0.0 3.0 0.0 3.1 3.0 0.0 3.0															
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 0.9 58.1 3.8 100.0 61.8 0.1 38.1 10,692															
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 0.9 58.1 3.8 100.0 61.8 0.1 38.1 10,692															
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 0.9 58.1 3.8 100.0 61.8 0.1 38.1 10,692							***								
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 0.9 58.1 3.8 100.0 61.8 0.1 38.1 10,692	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	
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															
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															
•															
	· ·	3.2	20.1	0.7	0.1	0.0	1.1	69.0	5.8	100.0	75.4	0.2	24.4		

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

			g improved o nitation facili		-				Percent- age connected to sewer,	
Background characteristic	Connected to sewer	Safe disposal in situ of excreta from on- site sanitation facilities	Unsafe disposal of excreta from on- site sanitation facilities	Removal of excreta for treatment off-site	Using improved sanitation facilities, on-site status unknown	Using un- improved sanitation facilities	Practicing open defecation	Total	with safe disposal on-site, or with removal for treatment off-site	Number of persons
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 1.6	64.2 71.3	100.0	20.4 25.1	1,552
Upper East Upper West	0.2 0.1	21.6 21.7	0.9 0.3	3.4 2.8	1.1 0.0	18.6	71.3 56.4	100.0 100.0	25.1 24.7	2,904
Opper west	0.1	21.7	0.3	2.0	0.0	10.0	36.4	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

			Manner of o	lienosal of chi	ldren's stools				Percentage of children	
			ivialillel of c	iisposai oi ciii	1016113 310013			-	whose stools are	
Background	Child used toilet or	Put/rinsed into toilet or		Put/rinsed into drain	Thrown into	Loft in the			disposed of	Number of
characteristic	latrine	latrine	Buried	or ditch	garbage	open	Other	Total	appro- priately ¹	children
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 18–23	0.4 0.7	16.2 24.1	6.4 6.8	6.0 4.8	65.7 56.5	3.9 4.5	1.5 2.5	100.0 100.0	16.5 24.8	887 830
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	0		· · ·	0.2	52	0.0				2,002
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 0.3	12.6 17.4	3.6	5.2	75.5 55.9	1.2 4.5	1.5 3.5	100.0 100.0	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	8.0	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 Western North	0.5 0.0	18.4 53.3	2.9 0.0	1.6 1.4	72.4 43.7	3.6 0.0	0.4 1.5	100.0 100.0	19.0 53.3	603 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 0.6	4.4 10.3	6.4 5.5	16.2	61.1 43.9	10.1 2.4	1.5	100.0	4.7	386 103
Savannah North East	0.6	15.5	5.5 4.1	7.6 27.5	43.9 43.6	2.4 6.9	29.6 2.1	100.0 100.0	11.0 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	100.0	14.1	711
Primary	0.2	14.6	7.2	9.4	61.1	3.8	3.7	100.0	14.8	522
Secondary More than	0.3	16.1	5.9	5.8	68.8	1.6	1.5	100.0	16.4	1,835
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 Fourth	0.2 0.5	18.6 16.4	5.1 3.0	6.5 3.5	66.2 75.1	1.6 0.3	1.9 1.2	100.0 100.0	18.8 16.9	687 618
Highest	0.5	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 latrine. 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

> Number of persons for

Percentage of de jure population for whom place for washing hands was observed:			_ ,	Place for handwashing observed and:			Number of persons for - whom	of the	Percentage of the de jure population	whom a place for hand-washing was observed or with no place for hand-	
Background characteristic	Place for hand- washing was a fixed place	Place for hand- washing was mobile	Total	Number of persons	Water available	Soap available ¹	Cleansing agent other than soap available ²	place for hand- washing was observed	with a basic hand- washing facility ³	with a limited hand- washing facility ⁴	washing in the dwelling, yard, or plot
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

Soap includes soap or detergent in bar, liquid, powder, or paste form.
 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

		-		Percent- age able to wash	•
Reus- Dispo- able sable Men- Under- Background sanitary sanitary Tam- strual Toilet Cotton wear characteristic pads pads pons cup Cloth paper wool only Other	Nothing	Number of women	Percent- age able to wash and change in privacy	and change in privacy and who used appro- priate	Number of women
Age	0.4	0.404	00.0	00.4	0.400
15–19 2.2 93.4 0.1 0.0 4.4 1.4 0.0 0.2 0.5 20–24 2.0 94.1 0.0 0.1 4.1 0.2 0.1 0.2 1.0	0.1 0.0	2,491 2,334	96.9 97.2	96.4 96.8	2,460 2,311
25–29 2.2 92.0 0.5 0.0 5.5 1.0 0.2 0.3 0.9	0.0	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	0.1	7 206	07.5	00.0	7.054
Urban 2.2 92.4 0.2 0.1 4.5 1.1 0.1 0.1 1.3 Rural 2.1 82.6 0.1 0.0 15.6 1.3 0.3 0.8 1.4	0.1 0.2	7,386 5,111	97.5 97.9	96.6 96.4	7,354 5,037
Region	0.2	0,	0.10		0,00.
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 Western North 1.6 93.8 0.0 0.0 5.0 1.8 0.2 0.3 1.5	0.1 0.2	2,504 353	95.5 98.6	94.2 97.4	2,476 351
Ahafo 0.1 95.0 0.3 0.0 4.9 0.8 0.1 0.1 1.6	0.2	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 Savannah 0.2 80.8 0.0 0.0 19.5 0.4 0.4 1.1 0.4	0.8 0.0	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 North East 1.2 79.6 0.0 0.0 19.3 1.1 0.2 0.3 0.0	0.0	245 202	99.2 99.7	98.2 99.4	235 202
Upper East 0.7 92.0 0.0 0.0 7.6 0.2 0.1 0.4 0.2	0.0	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

¹ Reusable sanitary pads, disposable sanitary pads, tampons, menstrual cup, cloth, toilet paper, and/or cotton wool

Among women

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.

ender-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. 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

¹ https://apps.who.int/violence-info/intimate-partner-violence.

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.

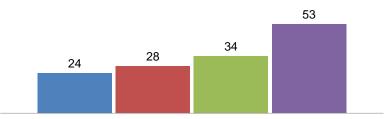
Sample: Women age 15-49

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.

Figure 17.1 Women's experience of physical violence by marital status





17.2.1 Perpetrators of Physical Violence

Percentage who have ever experienced physical violence since age 15

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

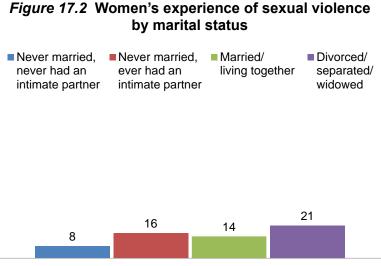
Sexual violence by any perpetrator

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 15-49 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).



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

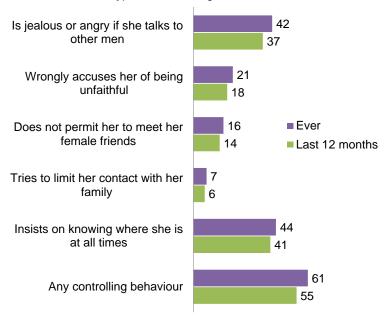
Controlling Behaviours

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

Figure 17.3 Forms of controlling behaviours

Percentage of women age 15–49 who have ever had a husband/intimate partner and have experienced specific types of controlling behaviours



knowing where they are at all times (44%) and jealousy or anger if they talk to other men (42%). Twenty-one 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

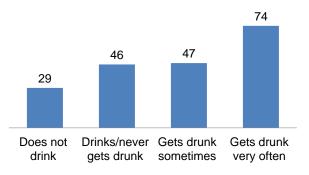
Nearly 4 out of 10 women (36%) who have ever had a husband/intimate partner report having experienced emotional, physical, or sexual violence by their current or most recent husband/intimate partner. Thirty-one percent of women have experienced emotional violence, 17% have experienced physical violence, 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

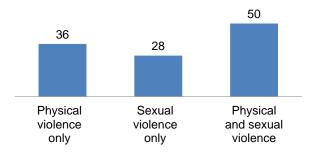
Fifty-one percent of women age 15–49 who have experienced physical or sexual violence have never sought help to end the violence or told anyone about the violence; 10% of women who have experienced violence told someone about the violence but did not seek help. Thirty-eight percent of women sought help 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



LIST OF TABLES

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•	Table 17.3	Experience of physical violence during pregnancy
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•	Table 17.5	Persons committing sexual violence
•	Table 17.6	Experience of sexual violence by any non-intimate partner
•	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
•	Table 17.10	Controlling behaviours of husband/intimate partner by background
		characteristics
•	Table 17.11	Intimate partner violence by background characteristics
•	Table 17.12	Intimate partner violence by husband's/intimate partner's characteristics and
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		background characteristics
•	Table 17.16	Violence by women against their husband/intimate partner by husband's/intimate
		partner's characteristics and women's empowerment indicators
•	Table 17.17	Help seeking to stop violence
•	Table 17.18	Sources for help to stop the violence

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

	Percentage who have experienced	Percentage	Percentage who experienced physical violence in the last 12 months			
Background characteristic	physical violence since age 15 ¹	Often	Sometimes	Often or sometimes ²	Number of women	
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 Islam	32.6 30.2	3.6 1.9	8.8 9.9	12.9 11.8	816 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 Western North	33.8 31.7	3.4 1.9	6.2 10.8	9.9 13.0	1,124 137	
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	
ducation						
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	

	Percentage who have experienced	Percentage			
Background characteristic	physical violence since age 15 ¹	Often	Sometimes	Often or sometimes ²	Number of women
Wealth guintile					
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

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

	Partners	hip status	
Person	Ever married/ever had intimate partner	Never married/never had intimate partner	Total
Current husband/intimate partner	37.1	na	33.2
Former husband/intimate partner	33.4	na	29.9
Current boyfriend	0.3	1.2	0.4
Former boyfriend	3.6	1.1	3.3
Father/stepfather	10.5	23.7	11.9
Mother/stepmother	10.0	28.3	11.9
Sister/brother	10.5	9.9	10.4
Other relative	9.4	15.2	10.0
Mother-in-law	0.3	na	0.3
Father-in-law	0.2	na	0.2
Other in-law	0.7	na	0.6
Teacher	3.4	17.9	4.9
Schoolmate/classmate	3.5	13.3	4.6
Employer/someone at work	1.1	0.0	1.0
Police/soldier	0.0	0.0	0.0
Other	5.3	12.6	6.1
Number of women who have experienced physical violence since age 15	1,704	198	1,902

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

unweighted cases and has been suppressed.

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 17.3 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
	F 3)	
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 9.7	84 85
No religion Other	9.7	65 4
		7
Ethnic group	0.0	4.005
Akan	8.0	1,965
Ga/Dangme Ewe	3.4 5.4	262 484
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 Western North	10.0 7.2	868 111
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 Upper West	3.8 5.1	182 105
• •	5.1	103
Marital status		
Never married	9.1	522
Never ever had intimate partner	(10.2)	23 499
Ever had intimate partner Ever married	9.0 6.5	499 3,704
Married/living together	6.0	3,704 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
σαασαιίστι	J. I	001
Primary	9.3	664
Primary Secondary More than secondary	9.3 6.8	664 2,329

Table 17.3—Continued		
Background characteristic	Percentage who experienced violence during pregnancy	Number of women who have ever been pregnant
Wealth guintile		
Lowest	5.5	723
Second	8.7	806
Middle	10.3	857
Fourth	5.9	958
Highest	3.8	882
Total	6.8	4,226

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

	Percentage who have violence by a		
Background characteristic	Ever ¹	In the last 12 months	Number of women
Age			
15–19	10.3	4.7	966
20–24	12.6	5.0	1,005
25–29 30–39	13.6 16.6	5.1 7.1	920 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 Other Christian	16.9 15.2	5.9 6.8	2,414 816
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	44.6	4.7	2.670
Akan Ga/Dangme	14.6 18.3	4.7 8.7	2,670 389
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	44.0	E A	2 206
Urban Rural	14.8 13.1	5.4 5.9	3,296 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 Ahafo	11.5	7.4	137
Bono	11.0 9.2	6.6 2.1	123 224
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	10 F	4.4	1.010
Never married	12.5	4.1	1,912
Never ever had intimate partner Ever had intimate partner	7.7 16.1	1.7 5.9	818 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	047
Primary	13.1	7.1 7.3	947 784
Secondary	14.0	7.3 5.1	3,422
More than secondary	13.9	3.5	584

Table 17.4—Continued					
		Percentage who have experienced sexual violence by any perpetrator:			
Background characteristic	Ever ¹	In the last 12 months	Number 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			
Person	Ever married/ever had intimate partner	Never married/never had intimate partner	Total	
Current husband/intimate partner	54.3	na	50.1	
Former husband/intimate partner	26.3	na	24.2	
Current/former boyfriend	3.4	(11.0)	4.0	
Father/stepfather	0.1	(11.9)	1.0	
Brother/stepbrother	1.3	(2.6)	1.4	
Other relative	4.3	(22.0)	5.6	
Own friend/acquaintance	6.3	(12.0)	6.8	
Family friend	4.8	(11.5)	5.3	
Teacher	2.4	(0.0)	2.2	
Schoolmate/classmate	1.7	(14.9)	2.8	
Employer/someone at work	0.8	(0.0)	0.7	
Police/soldier	0.0	(0.0)	0.0	
Priest/religious leader	0.2	(0.0)	0.2	
Stranger	9.6	(32.0)	11.3	
Other	5.5	(5.8)	5.5	
Number women who have experienced sexual violence	747	63	810	

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

	experien violence l othe husban	Percentage who have experienced sexual violence by someone other than a husband/intimate partner		
Background characteristic	Ever ¹	In the last 12 months	Number of women	
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 40–49	5.8 4.9	0.2 0.3	1,662 1,184	
Religion Catholic	5.5	0.5	497	
Anglican	(1.1)	(0.0)	53	
Methodist	5.3	0.9	316	
Presbyterian Pentecostal/Charismatic	6.0 7.7	1.2 0.7	341 2,414	
Other Christian	5.9	0.0	816	
Islam	3.8	0.3	1,094	
Traditional/spiritualist No religion	2.1 10.1	1.6 0.0	95 105	
Other	*	*	7	
Ethnic group Akan	6.4	0.2	2,670	
Ga/Dangme	8.3	3.2	389	
Ewe	7.7	0.6	665	
Guan Mole-Dagbani	7.3 4.9	2.2 0.2	181 1,065	
Grusi	3.1	0.8	201	
Gurma Mande	4.4 3.9	0.5 1.2	370 159	
Other	(11.5)	(0.0)	36	
Residence	7.0	0.0	0.000	
Urban Rural	7.0 5.0	0.6 0.6	3,296 2,441	
Region	2.0	0.5	070	
Western Central	3.9 8.7	0.5 0.9	373 665	
Greater Accra	8.4	0.9	937	
Volta Eastern	10.5 6.2	0.6 1.2	252 479	
Ashanti	6.4	0.0	1,124	
Western North	1.5	0.0	137	
Ahafo Bono	5.1 6.7	0.7 0.9	123 224	
Bono East	2.8	0.4	240	
Oti Northern	5.8 2.6	0.2	146 420	
Savannah	6.5	0.4 1.8	123	
North East	0.9	0.2	100	
Upper East Upper West	4.5 3.7	0.2 0.3	245 148	
Marital status				
Never married Never ever had intimate partner	8.0 7.7	1.2 1.7	1,912 818	
Ever had intimate partner	8.2	0.8	1,094	
Ever married	5.3	0.3	3,825	
Married/living together Divorced/separated/widowed	5.3 4.8	0.3 0.0	3,259 566	
Education				
No education Primary	2.8 5.5	0.2 1.7	947 784	
Secondary	6.9	0.5	3,422	
More than secondary	8.4	0.3	584	

584 Continued...

Table 17.6—Continued			
	Percentage who have experienced sexual violence by someone other than a husband/intimate partner		_
Background characteristic	Ever ¹	In the last 12 months	Number of
characteristic	Ever	12 months	women
Wealth quintile			
Lowest	3.2	0.5	904
Second	5.3	0.5	1,014
Middle	5.8	0.6	1,182
Fourth	7.8	0.6	1,335
Highest	7.6	0.6	1,302
Total	6.2	0.6	5,737

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

_	Percentage who first experienced sexual violence by exact age: who have not experienced							
Background characteristic	10		15	15 18		sexual violence	Number of women	
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

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

Age	Physical violence only	Sexual violence only	Physical and sexual violence	Physical or sexual violence	Number of 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

¹ Includes only ever-married women and never-married women who have ever had an intimate partner 2 Includes all women

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

	Ever	Experienced in the _	Frequency in t	he last 12 months
Type of violence experienced	experienced	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	20.0	17.7	1.2	10.4
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	1.3	1.2	0.0	0.0
weapon	1.1	0.5	0.1	0.4
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	0.1	2.0	0.0	1.0
to perform sexual acts she did not want to	2.5	1.8	0.6	1.2
•				
Emotional violence		0.5.4		4= 0
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
1.4044				
Intimate partner violence perpetrated by any				
current or previous husband or intimate				
partner	ac -			
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 never-	40:-	40:-	40:-	
married 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 never-married 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

	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	the specific	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 25–29	52.3 47.4	25.8 22.7	20.7 14.4	5.3 6.0	54.0 46.0	0.0 0.0	25.4 21.7	27.5 33.2	872 884
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 Pentecostal/Charismatic	39.8 43.7	22.2 21.5	14.7 16.0	9.4 5.7	48.4 46.7	0.0 0.0	22.1 21.4	39.7 37.2	287 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	40.0	24.5	47.0	6.0	45.4	0.0	20.7	26 E	0.040
Akan Ga/Dangme	42.9 44.8	24.5 17.7	17.3 11.0	6.0 4.5	45.4 44.5	0.0 0.0	22.7 18.5	36.5 41.4	2,312 318
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 Other	39.5 (50.1)	15.3 (12.4)	15.3 (4.7)	8.2 (1.7)	37.9 (48.6)	0.0 (0.0)	13.7 (12.7)	42.1 (37.4)	140 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 Volta	39.8 47.3	17.8 22.7	9.4 18.2	3.5 12.2	36.7 48.4	0.0 0.0	17.1 24.0	47.9 33.9	784 225
Eastern	47.3 42.1	26.0	17.7	4.7	40.4	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 Oti	28.4 38.4	13.2 19.3	7.2 20.2	3.2 8.3	34.9 49.0	0.0 0.0	11.7 21.7	55.3 35.1	204 130
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 Upper West	38.6 37.9	15.7 17.0	11.3 17.2	10.5 9.4	34.0 42.4	0.0 0.0	15.2 21.4	47.2 43.9	208 126
• •	51.5	17.0	17.2	3.4	72.7	0.0	21.4	40.0	120
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	30.1	23.0	12.0	J. I	1 3.3	0.0	۷.0	50.0	1,034
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

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	specific	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 9.0	3.6	3.6	14.7	33.0	884
30–39 40–49	29.3 41.4	15.9 24.6	9.0	4.5 6.9	4.3 6.0	20.4 27.5	34.8 45.3	1,635 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 Islam	34.2 27.5	17.6 15.3	9.6 5.3	5.0 2.9	4.7 2.8	22.3 17.7	39.2 32.2	720 926
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
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 Mala Daghani	37.8 27.8	20.8	10.3 6.9	5.3 2.7	4.6 2.6	25.9	43.4	148
Mole-Dagbani Grusi	27.8 29.4	15.4 14.2	5.2	2.7 0.7	2.6 0.4	19.6 18.7	34.1 33.8	906 156
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 Volta	31.2 39.0	12.4 18.1	6.9 14.2	4.3 7.2	3.7 7.0	15.0 25.0	33.5 43.6	784 225
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 Northern	33.8 34.1	19.5 21.2	13.6 5.4	8.2 2.7	7.7 2.7	25.0 23.9	40.9 40.1	130 367
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 Married/living together	34.1 31.4	19.4 17.2	8.8 7.6	5.2 4.1	4.8 3.8	22.9 20.7	39.0 36.2	3,825
Divorced/separated/widowed	49.8	31.8	7.6 15.6	11.6	10.5	35.8	54.7	3,259 566
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 More than secondary	29.8 19.4	15.4 5.6	8.3 4.8	5.1 1.6	4.6 1.6	18.6	34.5	2,789 521
More than secondary	19.4	5.6	4.8	1.6	1.6	8.8	23.0	521

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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
Wealth quintile								
Lowest	33.5	21.2	7.3	3.0	2.7	25.6	39.8	797
Second	36.2	18.0	8.5	4.6	4.4	21.9	40.8	887
Middle	34.5	19.6	10.0	5.8	5.6	23.8	39.4	983
Fourth	28.2	17.3	9.0	5.1	4.7	21.3	33.5	1,157
Highest	26.2	9.8	6.3	3.7	3.3	12.4	29.7	1,095
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. 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 Drinks alcohol but is never	24.6	12.3	5.0	2.1	2.0	15.2	29.2	3,447
drunk Is sometimes drunk	43.2 40.7	18.2 22.7	8.8 13.3	6.4 8.0	4.8 7.2	20.7 28.0	45.7 46.9	263 887
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 Don't know/missing	21.4 (43.6)	7.2 (31.4)	7.3 (4.9)	2.6 (2.1)	2.5 (2.1)	11.9 (34.2)	25.5 (48.7)	483 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		40.0						
Wife older	30.2	18.9	12.1	7.4	6.2	23.6	36.1	155
Wife 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	31.9	19.6 18.1	6.1 8.2	2.9 4.7	2.9	22.8 21.6	34.7 35.2	135
Wife 1–4 years younger Wife 5–9 years younger	29.3 30.4	16.7	6.6	3.8	4.6 3.7	19.5	34.7	1,102 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 5	57.1 82.1	36.5 52.1	17.5 35.7	12.9 20.3	12.0 20.1	41.1 67.6	62.2 86.0	871 125
Number of reasons for which	02.1	J2.1	33.1	20.3	20.1	07.0	00.0	123
wife beating is justified⁴ 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	04.4	54.0	05.4	40.0	40.0	F7.4	74.4	004
Afraid most of the time	61.4	51.9	25.1	19.6	18.9	57.4	71.1	321
Sometimes afraid Never afraid	45.8 24.9	26.7 11.2	13.1 5.5	6.8 2.6	6.5 2.3	33.1 14.1	52.1 29.0	946 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.

Includes only currently married women

According to the wife's report. Includes only currently married women. See Table 15.8.1 for list of decisions.

According to the woman's report. See Table 17.9 for list of behaviours.

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

	committed p against th	ge who have hysical violence leir husband/ te partner	Number of women who ever had a husband/
Background characteristic	Ever ¹	In the last 12 months	intimate partner
Women's experience of physical intimate partner violence			
Ever ¹ In the last 12 months Never	23.4 24.2 3.6	14.9 21.4 2.4	829 463 4,090
Age 15–19	5.3	4.6	351
20–24	7.0	5.8	872
25–29 30–39	5.6 6.5	4.4 4.3	884 1,635
40–49	9.1	3.9	1,177
Religion Catholic	4.3	2.5	394
Anglican	(9.3)	(3.4)	50
Methodist Presbyterian	10.8 6.8	9.1 4.0	265 287
Pentecostal/Charismatic	7.7	4.8	2,094
Other Christian Islam	10.2 2.5	6.5 1.6	720 926
Traditional/spiritualist	3.5	3.5	85
No religion Other	13.4	10.7	95 4
Ethnic group			
Akan Ga/Dangme	10.5 6.6	6.6 3.8	2,312 318
Ewe	6.3	5.4	562
Guan Molo Dagbani	3.4	2.9 1.5	148
Mole-Dagbani Grusi	2.3 4.2	3.6	906 156
Gurma	1.6	0.7	345
Mande Other	2.5 (8.3)	1.3 (0.5)	140 32
Residence		4.0	
Urban Rural	7.2 6.7	4.6 4.4	2,772 2,148
Region			
Western Central	7.4 8.7	4.7 5.3	317 558
Greater Accra	4.0	2.2	784
Volta Eastern	5.2 7.8	4.0 6.6	225 403
Ashanti	14.9	9.4	986
Western North Ahafo	9.3 4.5	4.7 3.0	128 105
Bono	2.5	2.2	184
Bono East Oti	2.6 1.7	0.9 1.3	204 130
Northern	1.9	1.9	367
Savannah North East	1.1 3.4	0.5 3.4	104 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 Ever married	2.9 7.5	2.1 4.8	248 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

Table 17.15—Continued									
	Percentag committed ph against the intimate	Number of women who ever had a husband/							
Background		In the last	intimate						
characteristic	Ever ¹	12 months	partner						
Education No education Primary Secondary More than secondary	5.6 8.4 7.6 3.9	3.9 5.7 4.9 1.7	914 696 2,789 521						
Wealth quintile Lowest Second Middle Fourth Highest	2.7 9.9 8.6 7.6 5.6	1.4 6.7 6.0 4.7 3.4	797 887 983 1,157 1,095						
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. 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

	physical vio	who committed blence against nusband/ te partner		
Background characteristic	Ever ¹	Last 12 months	intimate partner	
Husband's/intimate partner's alcohol consumption Does not drink alcohol Drinks alcohol but is never drunk Is sometimes drunk Is often drunk	4.4	3.1	3,447	
	7.1	2.7	263	
	11.5	6.5	887	
	22.3	15.8	323	
Husband's education ² No education Primary Secondary More than secondary Don't know/missing	6.0	3.8	690	
	7.9	6.2	296	
	7.5	5.6	1,752	
	2.9	0.8	483	
	(9.6)	(9.6)	38	
Spousal education difference ² Husband better educated Wife better educated Both equally educated Neither educated Don't know /missing	6.7	4.5	1,264	
	8.4	5.3	570	
	6.5	4.9	901	
	3.9	2.8	486	
	(9.6)	(9.6)	38	
Spousal age difference ² Wife older Wife is same age Wife 1–4 years younger Wife 5–9 years younger Wife 10 or more years younger	3.5	1.5	155	
	7.9	7.5	135	
	6.9	4.8	1,102	
	6.7	5.2	1,045	
	6.2	3.7	821	
Number of decisions in which women participate ³ 0 1-2 3	3.3	2.8	368	
	7.9	6.5	1,105	
	6.4	3.8	1,785	
Number of controlling behaviours displayed by husband/intimate partner ⁴ 0 1-2 3-4 5	2.6	1.0	1,918	
	7.8	5.0	2,006	
	12.1	9.4	871	
	25.5	17.3	125	
Number of reasons for which wife beating is justified ⁵ 0 1–2 3–4 5	6.5	4.0	3,956	
	11.7	9.1	635	
	4.7	2.5	244	
	1.6	1.6	84	
Woman's father beat mother Yes No Don't know	16.1 5.6 7.0	10.8 3.7 0.8	608 4,191 120	
Woman afraid of husband/intimate partner Afraid most of the time Sometimes afraid Never afraid	8.1 7.7 6.7	5.8 6.1 4.0	321 946 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

Includes only currently married women
 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 Both physical and sexual	28.0 50.1	13.5 9.6	58.5 40.3	0.0 0.0	100.0 100.0	284 525
	00.1	0.0	10.0	0.0	100.0	020
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 Presbyterian	49.3 43.2	14.1 12.2	36.6 44.6	0.0 0.0	100.0 100.0	115 124
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 Other	42.1	0.0	57.9 *	0.0	100.0 100.0	56 3
Other					100.0	3
Ethnic group	40.0	44.0	45.0	0.0	400.0	4 000
Akan Ga/Dangme	43.2 34.9	11.6 9.5	45.2 55.6	0.0 0.0	100.0 100.0	1,020 154
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 Other	40.9	11.6	47.5 *	0.0	100.0 100.0	46 15
					100.0	10
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
	00	0.2	00.0	0.0	.00.0	
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 Western North	47.9 37.3	10.3 14.0	41.8 48.8	0.0 0.0	100.0 100.0	452 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 Northorn	46.5	1.5	52.0	0.0	100.0	64
Northern Savannah	16.3 30.6	5.1 6.0	78.6 63.4	0.0 0.0	100.0 100.0	152 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 Married/living together	40.3 37.7	8.2 7.6	51.6 54.6	0.0 0.0	100.0 100.0	1,574 1,248
Divorced/separated/widowed	49.9	10.3	39.8	0.0	100.0	326
Employment						
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

Table 17.17—Continued Number of women who have ever Never sought Never sought experienced any Type of violence/ Sought help to help, never told help but told physical or background characteristic Don't know Total sexual violence stop violence someone anyone Wealth quintile Lowest 31.7 6.5 61.8 0.0 100.0 337 8.5 11.1 Second 43.9 47.6 0.0 100.0 405 Middle 41.6 47.2 0.0 100.0 520 Fourth 37.8 11.8 50.4 0.0 100.0 523 Highest 35.0 11.6 53.3 0.0 100.0 401 Total 38.4 10.2 51.4 100.0 2,186

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.

0.0

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	Physical or		
Source	Physical only	Sexual only	Both physical and sexual	sexual violence
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 15–49. 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 Urban Rural Total Urban % Region % Region Western 1,030,916 991,900 2,022,816 51.0 6.7 1,183,736 450,648 939,943 2,771,486 5,384,268 1,600,939 9.2 17.9 1,587,750 57.3 Central 4,933,620 660,996 91.6 41.3 Greater Accra 5.3 9.4 Volta 1,416,406 1,404,354 2,820,760 50.2 Eastern 3,181,537 2,066,333 5,247,870 60.6 17.4 Ashanti Western North 254,206 615,550 869,756 29.2 2.9 Ahafo 261,735 287,354 549,089 47.7 1.8 57.7 Bono 678,376 496,454 1,174,830 3.9 Bono East 568,157 1,184,634 52.0 3.9 616,477 499,418 1,211,533 Oti Northern 233,329 1,063,664 732,747 2,275,197 646,781 2.4 7.6 2.2 31.8 46.8 Savannah 188,512 458,269 29.1 North East 207,881 443,202 651,083 31.9 2.2 4.2 Upper East 313,325 958,747 1,272,072 24.6 Upper West 220,020 655,454 875,474 25.1 2.9 16,848,750 13,231,052 30,079,802 56.0 100.0

Source: 2021 Population and Housing Census

Ghana

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

		Number of EAs			Average EA size			
Region	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		
Nestern 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		
Jpper East	557	1,936	2,493	135	98	106		
Jpper 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%.

	All	Allocation of cluster			Allocation of households			
Region	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		
Jpper East	13	24	37	390	720	1,110		
Jpper West	13	24	37	390	720	1,110		
Ghana	304	314	618	9,120	9,420	18,540		

Table A.5 Sample allocation of expected numbers of interviews with women and men by region and type of residence

	Womer	n age 15–49 int	terviewed	Men a	age 15–59 inter	viewed
Region	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:

 P_{1hi} : first-stage sampling probability of the i^{th} EA in stratum h from the sampling frame P_{2hi} : second-stage sampling probability within the i^{th} EA (household selection)

Let n_h be the number of EAs selected in stratum h, M_{hi} the measure of size (number of residential households) according to the sampling frame in the i^{th} EA, and $\sum M_{hi}$ the total measure of size (total number of residential households) in stratum h. The probability of selecting the i^{th} EA in stratum h from the sampling frame is calculated as follows:

$$P_{1hi} = \frac{n_h \ M_{hi}}{\sum M_{hi}}$$

Let S_{hi} 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, $S_{hi} = 1$. Let L_{hi} be the number of households listed in the household listing operation in cluster i in stratum h, and let m_{hi} 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:

$$P_{2hi} = \frac{m_{hi}}{L_{hi}} \times s_{hi}$$

The overall selection probability of each household in cluster i of stratum h is therefore the product of the selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi}$$

Therefore, the design weight for each household in cluster i of stratum h is the inverse of its overall selection probability:

$$W_{hi} = 1/P_{hi}$$

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.6 Sample implementation: Women

Percent distribution of households and eligible women age 15–49 by results of the household and individual interviews, and household, eligible women, and overall women response rates, according to residence and region (unweighted), Ghana DHS 2022

	Residence	ence								Region	uc								
Result	Urban	Rural	Western Central		Greater Accra	Volta	Eastern	ر Ashanti	Western North	Ahafo	Bono	Bono East) j	Northern	Savan- nah	North East	Upper East	Upper West	Total
Selected households Completed (C) Household present but no	96.4	97.0	97.9	2.96	96.3	97.5	6.86	97.0	92.6	98.3	95.4	97.6	97.0	97.2	94.3	95.7	96.4	92.6	96.7
competent respondent at nome (HP) Refused (R) Dwelling not found (DNF) Household absent (HA) Powelling vacant/oddress not a	0.2 0.6 1.9	0.2 0.3 1.6	0.0 0.0 0.0 0.0	0.3 0.0 1.3	0.3 0.9 1.2	0.0 0.2 0.0	0.2 0.5 0.1	0.0 0.0 1.5	0.0 0.3 3.2	0.2 0.2 0.6	0.2 0.2 3.1	0.1 0.5 1.2	0.2 0.0 1.8	0.0 0.0 4.1	0.5 0.6 0.2 2.8	0.6 0.4 0.1	0.3 0.0 4.2	0.0 0.2 0.1 3.9	0.2 0.4 0.1 8.1
dwelling (DV) Dwelling destroyed (DD) Other (O)	0.0 0.0 0.1	0.0 0.0	0.7 0.0 0.2	0.0 0.0	0.1 0.1 0.1	0.5 0.0 0.2	0.2 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.6 0.0	0.6 0.0	0.0	0.0 0.0	0.9 0.3 0.4	1.2 0.0 0.0	0.5	0.3 0.0 0.0	0.7 0.1 0.1
Total Number of sampled households Household response rate (HRR)¹	100.0 9,120 99.2	100.0 9,420 99.4	100.0 1,110 99.7	100.0 1,200 98.5	100.0 1,440 98.7	100.0 1,110 99.8	100.0 1,230 99.3	100.0 1,440 99.4	100.0 1,110 99.6	100.0 1,080 99.5	100.0 1,080 99.5	1,080 1,080 99.4	100.0 1,080 99.7	100.0 1,170 98.9	100.0 1,110 98.6	100.0 1,080 98.9	100.0 1,110 99.4	100.0 1,110 1 99.7	100.0 18,540 99.3
Eligible women Completed (EWC) Not at home (EWNH) Refused (EWR) Partly completed (EWPC) Incapacitated (EWI) Other (EWO)	98.0 0.0 0.0 0.0 0.0	97.9 1.0 0.0 0.0 0.0	99.5 0.2 0.0 0.0	98.4 0.0 0.0 0.0 0.0	97.2 1.2 0.2 0.0	99.3 0.0 0.0 0.0	99.4 0.0 0.0 0.0 0.3	98.0 0.5 0.0 0.0 0.0	97.8 1.0 0.7 0.0 0.5	98.8 0.5 0.0 0.0 0.0	99.5 0.2 0.0 0.0	97.2 1.7 0.6 0.0 0.5	98.8 0.4 0.0 0.0 0.1	98.6 0.5 0.0 0.0 0.0	97.7 1.2 0.7 0.0 0.4	94.3 4.2 0.1 0.0	96.9 1.4 1.1 0.0 0.0	98.1 0.7 0.0 0.8 0.0	98.0 1.0 0.6 0.0 0.0
Total Number of women Eligible women response rate (EWRR) ²	100.0 7,502 98.1	100.0 7,815 97.9	100.0 801 99.5	100.0 995 98.4	100.0 997 97.2	100.0 843 99.3	100.0 859 99.4	100.0 1,154 98.0	100.0 810 97.8	100.0 859 98.8	100.0 839 99.5	1,002 1,002 97.2	100.0 932 98.8	1,186	100.0 1,023 97.7	100.0 1,021 94.3	100.0 1,019 96.9	97.7 1	100.0 15,317 98.0
Overall women response rate (OWRR) ³	97.3	97.3	99.2	6.96	95.9	99.1	98.7	97.4	97.4	98.4	0.66	96.7	98.5	97.5	96.3	93.2	96.2	97.8	97.3

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

100 * C

C + HP + P + R + DNF

² The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC). The overall women response rate (OWRR) is calculated as:

OWRR = HRR * EWRR/100

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 (unweighted), Ghana DHS 2022

	Resid	Residence								Region	ion								ĺ
Result	Urban	Rural	Western Central		Greater Accra	Volta	Eastern	ر Ashanti	Western North	Ahafo	Bono	Bono East	į	Northern	Savan- nah	North East	Upper East	Upper West	Total
Selected households Completed (C)	96.5	97.0	8.76	97.3	96.3	98.2	99.2	2.96	95.1	98.1	95.0	97.2	6.96	95.7	95.1	95.7	97.3	96.2	8.96
nousenoid present but no competent respondent at home (HP) Refused (R)	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 4.0	0.0	0.1
Dwelling not found (DNF) Household absent (HA)	1.9	0.1	0.0	0.0	1.3	0.0	0:0	0.0	0.0 3.6	0.4 4.0	3.3	0.0	0.0	1.7	0.0	0.2	0.0	3.2	1.7
Dwelling vacant/address not a dwelling (DV) Dwelling destroyed (DD) Other (O)	0.0 0.0	0.7 0.1 0.0	0.0 0.0 4.0	0.0	1.0 0.1 0.1	0.2 0.0 0.2	0.2 0.0 0.0	0.0 0.0	6:0 0:0 0:0	0.0 0.0	0.0 0.0 0.0	1.1 0.2 0.0	0.0 0.0	0.0	0.0 0.0 4.0	1.3 0.0 0.0	0.0 0.0	0.0	0.7 0.1 0.1
Total Number of sampled households Household response rate (HRR)¹	100.0 4,560 99.1	100.0 4,709 99.4	100.0 555 99.8	100.0 600 98.6	100.0 720 98.7	100.0 555 99.6	100.0 615 99.5	100.0 720 99.0	100.0 554 99.6	100.0 540 99.3	100.0 540 99.8	100.0 540 99.4	100.0 540 99.6	100.0 585 98.4	100.0 555 99.1	100.0 540 98.9	100.0 555 99.3	100.0 555 99.4	100.0 9,269 99.2
Eligible men Completed (EMC) Not at home (EMNH) Refused (EMR) Incapacitated (EMI)	96.5 1.9 1.2 0.4	97.4 1.7 0.5 0.4	98.7 0.5 0.5 0.3	97.1 1.1 1.5 0.2	95.7 1.9 2.1 0.2	98.0 1.8 0.3	99.0 0.0 0.8 0.3	95.2 2.9 1.4 0.6	97.3 1.7 0.7 0.2	97.5 1.4 0.7 0.5	97.5 1.7 0.0 0.8	96.9 2.3 0.6 0.2	97.9 1.3 0.0 0.8	98.0 1.7 0.2 0.2	97.3 1.2 1.1 0.4	94.3 5.0 0.2 0.5	95.3 2.7 1.2 0.8	97.2 1.7 1.2 0.0	97.0 1.8 0.8 0.4
Total Number of men Eligible men response rate ÆMRR 12	3,369	3,894	387	100.0 455	100.0 515 95.7	342	393	100.0 516 95.2	100.0 413 97.3	100.0 433 97.5	100.0 360 97.5	100.0 516 96.9	100.0 477 97.9		100.0 563 97.3	100.0 441	100.0 487 95.3	100.0 423 97.2	100.0 7,263 97.0
Overall men response rate (OMRR) ³	95.6	8.96	98.5	95.8	94.5	97.6	98.5	94.2	97.0	22	97.3	96.3	97.5	96.4	96.4	93.2	94.6	9.96	96.2

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

100 * C

C + HP + P + R + DNF

² The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC). ³ The overall men response rate (OMRR) is calculated as:

OMRR = HRR * EMRR/100

he 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:

$$SE^{2}(r) = var(r) = \frac{1}{x^{2}} \sum_{h=1}^{H} \left[(1 - f_{h}) \frac{m_{h}}{m_{h} - 1} \left(\sum_{i=1}^{m_{h}} z_{hi}^{2} - \frac{z_{h}^{2}}{m_{h}} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}$$
 and $z_h = y_h - rx_h$

where h represents the stratum, which varies from 1 to H; m_h is the total number of clusters selected in the h^{th} stratum; y_{hi} is the sum of the weighted values of variable y in the i^{th} cluster in the h^{th} stratum; x_{hi} is the sum of the weighted number of cases in the i^{th} cluster in the h^{th} stratum; and f_h is the sampling fraction of PSU in the h^{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:

$$SE^{2}(r) = var(r) = \frac{1}{k(k-1)} \sum_{i=1}^{k} (r_{i} - r)^{2}$$

in which

$$r_i = kr - (k-1)r_{(i)}$$

where r is the estimate computed from the full sample of 618 clusters,

 $r_{(i)}$ is the estimate computed from the reduced sample of 617 clusters (i^{th} cluster excluded),

and

k 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 (R±2SE) 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 (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, $R \pm 2 \times SE$. 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.

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tillbirth rate Rate years preceding the survey Pregnancies of 28 or more weeks' duration to women 15–49 in the 5 arly neonatal mortality rate n any avoidable high-risk category Proportion Rate years preceding the survey Children born in the 5 years preceding the survey to women 15–49 Women 15–49 who had a live birth in the 2 years preceding the survey Women 15–49 who had a live birth in the 2 years preceding the + ANC visits Proportion survey Survey Women 15–49 who had a live birth in the 2 years preceding the survey Survey Women 15–49 who had a live birth in the 2 years preceding the survey Survey Women 15–49 who had a live birth in the 2 years preceding the	erinatal mortality rate	Rate	years preceding the survey	8.4
arly neonatal mortality rate Any avoidable high-risk category eceived ANC from a skilled provider ANC visits Rate years preceding the survey Children born in the 5 years preceding the survey to women 15–49 who had a live birth in the 2 years preceding the survey Women 15–49 who had a live birth in the 2 years preceding the survey Women 15–49 who had a live birth in the 2 years preceding the survey Yomen 15–49 who had a live birth in the 2 years preceding the	tillbirth rate	Rate	years preceding the survey	8.4
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eceived ANC from a skilled provider Proportion Women 15–49 who had a live birth in the 2 years preceding the Proportion Proportion Proportion Proportion Proportion	any avoluable nign-fisk category	горопоп		8.5
Women 15–49 who had a live birth in the 2 years preceding the + ANC visits Proportion survey	eceived ANC from a skilled provider	Proportion	, ,	9.1
+ ANC visits Proportion survey			•	0.1
Women 15–49 who had a live birth in the 2 years preceding the	- ANC visits	Proportion	survey	9.2
	- ANC visits	Dronation	* '	9.2

Variable	Estimate	Base population	T-1-1-
	WOMEN (C	· ·	— Table numbe
		Women 15–49 who had a live birth in the 2 years preceding the	Humbe
Took any iron-containing supplements	Proportion	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
Nomen 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
Neight-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)	Dranartian	Children C. FO menths who were tested	11 10
(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) ≥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 Adolescent women 15–19 who were measured	11.14.2
Body mass index-for-age (+1 SD)	Proportion		11.14.2
Minimum dietary diversity (women 15–49)	Proportion	Women 15–49	11.16 11.17.1
Prevalence of any anaemia (women 15–49)	Proportion	Women 15–49 who were tested	11.17.1
Prevalence of any anaemia (nonpregnant women 15– 49) (haemoglobin <12.0 g/dl)	Proportion	Nonpregnant women 15, 40 who were tested	11.17.1
Prevalence of any anaemia (pregnant women 15–49)	Proportion	Nonpregnant women 15–49 who were tested	11.17.1
(haemoglobin <11.0 g/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	12.7
Child had fever in last 2 weeks	Proportion	Child under 5	12.10
Child had blood taken from finger/heel	Proportion	Child under 5 who had a fever in the last 2 weeks	12.10
Silid flad blood taken from linger/fleer	Порогион	Child under 5 with a fever in the last 2 weeks who received any	12.10
Child took ACT	Proportion	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 (rapid test) for malaria	12.15
Discriminatory attitudes towards people with HIV	Proportion	Women 15–49 who have heard of HIV/AIDS	13.2
Discriminatory attitudes towards people with this	Toportion	Women 15–49 with nonmarital, noncohabiting partner in last 12	10.2
Condom use at last sex	Proportion	months	13.3.1
Fested for HIV in the past 12 months and received the			10.0.1
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			. 5.0.1
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			
-xperienced emotional/physical/sexual violence by any			

Variable	Estimate	Base population	
variable			_ Table
	ME	N	number
Urban residence	Proportion	Men 15–49	3.1
No education	Proportion	Men 15–49	3.2.2
Secondary education or higher	Proportion	Men 15–49	3.2.2
Literacy	Proportion	Men 15–49	3.3.2
Use of the internet in last 12 months	Proportion	Men 15–49	3.5.2
Current tobacco use	Proportion	Men 15–49	3.13.2
Currently married/in union	Proportion	Men 15–49	4.1
Had sexual intercourse before age 18	Proportion	Men 20–49	4.6
Want to delay next birth at least 2 years	Proportion	Currently married men 15–49	6.1
Want no more children	Proportion	Currently married men 15–49	6.2.2
Ideal number of children	Mean	Men 15-49 with numeric responses	6.3
Discriminatory attitudes towards people with HIV	Proportion	Men 15–49 who have heard of HIV/AIDS	13.2
Condom use at last sex	Proportion	Men 15-49 with nonmarital, noncohabiting partner in last 12 months	13.3.2
Tested for HIV in the past 12 months and received the	·		
results of the last test	Proportion	Men 15–49	13.5.2
Male circumcision	Proportion	Men 15–49	13.9
Mobile phone ownership	Proportion .	Men 15–49	15.6.2
Have and use a bank account or mobile phone for	·		
financial transactions	Proportion	Men 15–49	15.6.2
Agree with at least one specified reason a husband is	•		
justified in wife beating	Proportion	Men 15-49	15.9.2

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.

			Number	of cases			Confide	nce limits
		Standard	Un-	14/ 11/ 1	Design	Relative		
/ariable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SE
	` '	POPULATI		(****)	(DLIT)	(OL/IT)	(IT-ZOL)	(11.20
lectricity 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,	0.020	0.010	00,007	00,011	0.400	0.010	0.750	0.040
and lighting	0.236	0.009	68,887	63,611	2.654	0.039	0.217	0.254
Births registered with civil authority Dwnership of at least one ITN	0.745 0.667	0.009 0.007	9,779 17,933	8,508 17,933	1.676 2.034	0.012 0.011	0.727 0.652	0.763 0.68
Ownership of at least one ITN for every two persons	0.474	0.007	17,836	17,818	1.922	0.011	0.460	0.489
mproved drinking water source	0.879	0.010	68,887	63,611	3.163	0.012	0.859	0.90
At least basic drinking water service	0.838	0.010	68,887	63,611	2.805	0.012	0.818	0.85
Nater available when needed	0.809	0.008	68,887	63,611	2.294	0.010	0.792	0.82
mproved sanitation facility At least basic sanitation service	0.632 0.243	0.013 0.011	68,887 68,887	63,611 63,611	2.964 2.876	0.021 0.045	0.605 0.221	0.65 0.26
Using open defecation	0.243	0.011	68,887	63,611	2.818	0.043	0.221	0.20
Jsing a handwashing facility with soap and water	0.435	0.011	67,662	62,264	2.543	0.026	0.413	0.45
· · · · · ·	WOME	N						
Jrban 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	0.71
iteracy	0.608	0.008	15,014	15,014	2.027	0.013	0.592	0.62
Jse of the internet in last 12 months Current tobacco use	0.433 0.009	0.009 0.002	15,014 15,014	15,014 15,014	2.299 1.909	0.021 0.160	0.415 0.006	0.45 0.01
Currently married/in union	0.546	0.002	15,014	15,014	1.564	0.100	0.534	0.55
Married before age 15	0.052	0.003	12,179	12,332	1.386	0.054	0.046	0.05
Married before age 18	0.217	0.006	12,179	12,332	1.547	0.027	0.205	0.22
Had sexual intercourse before age 18	0.488	0.008	12,179	12,332	1.810	0.017	0.472	0.50
Age-specific fertility rate 15–19 Fotal fertility rate (3 years)	62.915 3.902	3.257 0.085	8,140 42,155	7,798 42,292	1.200 1.416	0.052 0.022	56.401 3.732	69.42 4.07
Currently pregnant	0.068	0.003	15,014	15,014	1.356	0.022	0.063	0.07
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	4.63
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	2.24
Mean number of living children among women age 15–49	2.053	0.025	15,014	15,014	1.477	0.012	2.002	2.10
Median birth interval	40.619	0.474	6,930	6,247	1.550	0.012	39.671	41.56
First birth before age 18 Want to delay next birth at least 2 years	0.157 0.298	0.005 0.007	12,179 8,811	12,332 8,205	1.461 1.487	0.031 0.024	0.147 0.284	0.16 0.31
Want no more children	0.328	0.007	8,811	8,205	1.529	0.023	0.204	0.34
deal number of children	4.504	0.032	14,840	14,798	1.937	0.007	4.441	4.56
Total wanted fertility rate (3 years)	3.427	0.080	42,155	42,292	1.438	0.023	3.267	3.58
Currently using any contraceptive method	0.363	0.008	8,811	8,205	1.572	0.022	0.347	0.37
Currently using any modern method Currently using pill	0.278 0.041	0.007 0.003	8,811 8,811	8,205 8,205	1.468 1.494	0.025 0.077	0.264 0.035	0.29 0.04
Currently using injectables	0.041	0.003	8,811	8,205	1.434	0.077	0.033	0.04
Currently using implants	0.079	0.004	8,811	8,205	1.391	0.051	0.071	0.08
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
2-month discontinuation rate due to method failure 2-month discontinuation rate due to any reason	3.055 45.370	1.018 0.330	7,879 7,879	8,457 8,457	1.440 1.832	0.333 0.007	1.019 44.711	5.09 46.02
2-month discontinuation rate due to any reason 2-month discontinuation rate due to switching to another method	6.118	0.330	7,879 7,879	8,457	1.632	0.007	5.190	7.04
Inmet need for spacing	0.110	0.005	8,811	8,205	1.470	0.078	0.131	0.15
Inmet need for limiting	0.092	0.004	8,811	8,205	1.393	0.047	0.083	0.10
Inmet need total	0.234	0.006	8,811	8,205	1.409	0.027	0.221	0.24
Demand satisfied by modern methods	0.465	0.010	5,011	4,902	1.432	0.021	0.446	0.48
Demand satisfied by modern methods (all women) Participation in decision making about family planning	0.495 0.842	0.008 0.008	7,031 8,811	7,113 8,205	1.411 1.976	0.017 0.009	0.478 0.826	0.51 0.85
Not exposed to any of the eight media sources	0.042	0.008	15,014	15,014	2.182	0.003	0.020	0.31
Neonatal mortality (last 0–4 years)	17.164	1.826	9,355	8,572	1.246	0.106	13.511	20.81
Postneonatal mortality (last 0–4 years)	10.830	1.319	9,339	8,557	1.180	0.122	8.191	13.46
nfant mortality (last 0–4 years)	27.994	2.149	9,359	8,575	1.174	0.077	23.695	32.29
Child mortality (last 0–4 years)	11.863	1.379	9,158	8,425	1.177	0.116	9.104	14.62
Inder-5 mortality (last 0–4 years) Perinatal mortality rate	39.525 28.306	2.453 2.212	9,403 9,484	8,614 8,708	1.155 1.214	0.062 0.078	34.619 23.882	44.43 32.72
Stillbirth rate	15.158	1.764	9,484	8,708	1.340	0.076	11.630	18.68
Early neonatal mortality rate	13.343	1.644	9,353	8,581	1.265	0.123	10.056	16.63
n any avoidable high-risk category	0.477	0.008	9,353	8,581	1.398	0.017	0.460	0.49
Received ANC from a skilled provider	0.978	0.004	3,850	3,491	1.503	0.004	0.971	0.98
I+ ANC visits B+ ANC visits	0.878 0.386	0.009 0.013	3,850 3,850	3,491 3,491	1.761 1.627	0.011 0.033	0.859 0.360	0.89 0.41
Fook any iron-containing supplements	0.360	0.013	3,850	3,491	1.461	0.033	0.300	0.41
Nothers protected against tetanus for last birth	0.738	0.012	3,850	3,491	1.669	0.016	0.714	0.76
Delivered in a health facility (live births)	0.862	0.010	4,011	3,638	1.796	0.012	0.842	0.88
Delivered by a skilled provider (live births)	0.876	0.010	4,011	3,638	1.816	0.011	0.855	0.89
Delivered by C-section (live births)	0.208	0.010	4,011	3,638	1.431	0.049	0.187	0.22
Nomen with postnatal check during first 2 days Newborns with postnatal check during first 2 days	0.873 0.869	0.009 0.009	3,850 3,850	3,491 3,491	1.657 1.611	0.010 0.010	0.855 0.851	0.89 0.88
Any problem accessing health care	0.536	0.009	15,014	15,014	2.413	0.010	0.517	0.55

Table B.2—Continued								
		0, , ,		of cases	Б.	D	Confider	nce limits
Variable	Value (R)	Standard error (SE)	Un- weighted (N)	Weighted (WN)	Design effect (DEFT)	Relative error (SE/R)	(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) Received measles and rubella 2 vaccination	0.564 0.725	0.016 0.016	1,973 1,702	1,823 1,546	1.375 1.426	0.029 0.023	0.532 0.692	0.597 0.757
Fully vaccinated according to national schedule (24–35 months)	0.723	0.018	1,702	1,546	1.396	0.023	0.389	0.757
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) Weight-for-age (−2 SD)	0.020 0.123	0.003 0.007	4,931 4,935	4,291 4,299	1.238 1.304	0.133 0.056	0.014 0.109	0.025 0.137
Exclusive breastfeeding	0.123	0.007	958	826	1.361	0.030	0.482	0.137
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) ≥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) Minimum dietary diversity (women 15–49)	0.136 0.499	0.012 0.008	1,374 15,014	1,338 15,014	1.347 1.939	0.092 0.016	0.111 0.484	0.161 0.515
Prevalence of any anaemia (women 15–49)	0.499	0.008	7,557	7,655	1.368	0.010	0.396	0.313
Prevalence of any anaemia (nonpregnant women 15–49) (haemoglobin	0.411	0.000	1,001	7,000	1.000	0.013	0.000	0.421
<12.0 g/dl) Prevalence of any anaemia (pregnant women 15–49) (haemoglobin <11.0	0.404	0.008	7,004	7,141	1.369	0.020	0.388	0.420
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 0.151	0.013 0.006	3,850 9,062	3,491	1.633 1.554	0.021 0.042	0.577 0.138	0.628 0.163
Child had fever in last 2 weeks Child had blood taken from finger/heel	0.131	0.000	1,451	8,315 1,252	1.422	0.042	0.136	0.103
Child took ACT	0.783	0.023	707	560	1.272	0.029	0.737	0.440
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	0.150
Employed in last 12 months	0.130	0.004	15,014 8,811	15,014 8,205	1.633	0.026	0.142	0.159 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	0.400	0.000	45.044	45.044	4.040	0.000	0.400	0.005
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 sexual violence by any non-intimate partner	0.062	0.005	5,737	5,737	1.476	0.076	0.052	0.071
Experienced emotional/physical/sexual violence by any husband or intimate partner ever	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 Experienced emotional/physical/sexual violence by any husband or	0.206	0.008	5,137	4,919	1.469	0.040	0.189	0.223
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 6,277	1.535	0.091 0.017	0.035	0.051 0.466
Currently married/in union Had sexual intercourse before age 18	0.450 0.260	0.008 0.010	6,293 4,863	6,277 4,853	1.225 1.559	0.017	0.435 0.240	0.466
Had sexual intercourse before age 18 Want no more children	0.260	0.010	4,863 3,020	4,853 2,828	1.559	0.038	0.240	0.280
Want to delay next birth at least 2 years	0.270	0.012	3,020	2,828	1.649	0.043	0.350	0.408
deal 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 Have and use a bank account or mobile phone for financial transactions	0.875 0.791	0.006 0.008	6,293 6.293	6,277 6.277	1.395 1.559	0.007 0.010	0.863 0.775	0.886 0.807
ave and use a parik account of mobile phone for imancial transactions	0.791	U.UUQ	0.293	0.277	1.009	0.010	V//D	

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).

0.791

0.158

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6,293

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Have and use a bank account or mobile phone for financial transactions

Agree with at least one specified reason a husband is justified in wife beating

0.807

0.173

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0.144

			Number	of cases			Confide	nce limits
		Standard	Un-		Design	Relative		
/ariable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SE
	` ,	POPULAT		(****)	(DLI I)	(OL/IV)	(IX-20L)	(111201
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,	0.340	0.000	30,700	33,234	2.100	0.007	0.333	0.930
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 Ownership of at least one ITN for every two persons	0.582 0.415	0.010 0.009	8,795 8,746	10,320 10,256	1.886 1.798	0.017 0.023	0.562 0.396	0.602 0.434
mproved drinking water source	0.413	0.009	30,760	33,294	1.790	0.023	0.390	0.432
At least basic drinking water service	0.949	0.006	30,760	33,294	1.811	0.006	0.937	0.961
Nater available when needed	0.802	0.011	30,760	33,294	2.150	0.014	0.779	0.825
mproved sanitation facility	0.810	0.016	30,760	33,294	3.009	0.020	0.777	0.842
At least basic sanitation service Jsing open defecation	0.335 0.117	0.019 0.013	30,760 30,760	33,294 33,294	3.112 2.986	0.057 0.115	0.297 0.090	0.373 0.143
Jsing a handwashing facility with soap and water	0.528	0.017	30,192	32,643	2.600	0.032	0.494	0.56
	WOME	N						
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
iteracy	0.715	0.010	7,362	8,557	1.841	0.014	0.695	0.734
Jse of the internet in last 12 months	0.578	0.013	7,362	8,557 8,557	2.203	0.022	0.553	0.604
Current tobacco use Age-specific fertility rate 15–19	0.011 42.616	0.002 4.081	7,362 3,910	8,557 4,305	1.928 1.214	0.209 0.096	0.007 34.454	0.010 50.778
Fotal fertility rate (3 years)	3.213	0.093	20,748	24,171	1.370	0.029	3.027	3.39
Currently pregnant	0.062	0.004	7,362	8,557	1.448	0.066	0.053	0.07
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	4.04
Median birth interval Want no more children	42.262 0.347	0.717	2,732	2,910	1.373 1.454	0.017	40.829 0.325	43.69
deal number of children	4.171	0.011 0.038	3,884 7,278	4,248 8,441	1.434	0.032 0.009	4.096	0.369 4.249
Fotal wanted fertility rate (3 years)	2.820	0.086	20,748	24,171	1.370	0.003	2.647	2.993
Currently using any contraceptive method	0.371	0.013	3,884	4,248	1.630	0.034	0.346	0.39
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 0.066	0.004 0.006	3,884 3,884	4,248	1.158 1.433	0.091 0.087	0.033 0.054	0.047
Currently using injectables Currently using implants	0.065	0.005	3,884	4,248 4,248	1.435	0.067	0.054	0.07
Currently using male condoms	0.020	0.003	3,884	4,248	1.409	0.157	0.014	0.02
Currently using any traditional method	0.104	0.007	3,884	4,248	1.491	0.070	0.090	0.11
Jnmet need for spacing	0.128	0.008	3,884	4,248	1.534	0.064	0.111	0.14
Jnmet need for limiting Jnmet need total	0.096 0.223	0.006 0.009	3,884 3,884	4,248 4,248	1.357 1.374	0.067 0.041	0.083 0.205	0.109 0.249
Demand satisfied by modern methods	0.223	0.009	2,236	2,524	1.374	0.041	0.203	0.24
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	0.26
Neonatal mortality (last 0–4 years)	16.889	3.042	3,859	4,161	1.325	0.180	10.805	22.973 14.40
Postneonatal mortality (last 0–4 years) nfant mortality (last 0–4 years)	10.356 27.245	2.025 3.400	3,867 3,861	4,165 4,163	1.182 1.188	0.196 0.125	6.305 20.445	34.046
Child mortality (last 0–4 years)	9.787	1.860	3,822	4,135	1.161	0.190	6.067	13.50
Jnder-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	34.32
Stillbirth rate Early neonatal mortality rate	13.332 14.438	2.510 2.778	3,902 3,857	4,226 4,172	1.323 1.314	0.188 0.192	8.313 8.882	18.35 19.99
Received ANC from a skilled provider	0.986	0.005	1,561	1,623	1.538	0.192	0.002	0.99
I+ ANC visits	0.912	0.010	1,561	1,623	1.459	0.011	0.892	0.933
B+ ANC visits	0.462	0.018	1,561	1,623	1.401	0.038	0.427	0.49
Took any iron-containing supplements	0.944	0.008	1,561	1,623	1.323	0.008	0.928	0.95
Mothers protected against tetanus for last birth Delivered in a health facility (live births)	0.792 0.943	0.015 0.008	1,561 1,628	1,623 1,700	1.500 1.295	0.020 0.008	0.761 0.928	0.82 0.95
Delivered by a skilled provider (live births)	0.943	0.008	1,628	1,700	1.293	0.008	0.928	0.95
Delivered by C-section (live births)	0.270	0.017	1,628	1,700	1.368	0.062	0.237	0.30
Vomen with postnatal check during first 2 days	0.924	0.009	1,561	1,623	1.404	0.010	0.905	0.94
Newborns with postnatal check during first 2 days	0.905	0.010	1,561	1,623	1.359	0.011	0.885	0.92
Any problem accessing health care Ever had vaccination card	0.467 0.994	0.012 0.002	7,362 827	8,557 858	2.120 0.851	0.026 0.003	0.443 0.989	0.49 0.99
Received BCG vaccination	0.994	0.002	827	858	1.195	0.003	0.969	0.99
Received DPT-HepB-Hib vaccination (3 doses)	0.914	0.012	827	858	1.160	0.013	0.890	0.93
Received pneumococcal vaccination (3 doses)	0.888	0.014	827	858	1.211	0.016	0.859	0.91
Received measles and rubella 1 vaccination	0.880	0.016	827	858	1.283	0.018	0.849	0.91
Fully vaccinated according to national schedule (12–23 months)	0.633	0.022	827 716	858 786	1.203	0.034	0.589	0.670
Received measles and rubella 2 vaccination Fully vaccinated according to national schedule (24–35 months)	0.693 0.437	0.026 0.027	716 716	786 786	1.450 1.430	0.038 0.063	0.641 0.382	0.74 0.49
Sought treatment for diarrhoea	0.437	0.027	470	443	1.430	0.063	0.362	0.49
Freated with ORS	0.332	0.031	470	443	1.278	0.094	0.270	0.39
Height-for-age (−3 SD)	0.034	0.005	2,024	2,096	1.183	0.154	0.023	0.04
Height-for-age (-2 SD)	0.151	0.012	2,024	2,096	1.364	0.082	0.126	0.17
Weight-for-height (-2 SD)	0.058	0.008	2,023	2,092	1.374	0.133	0.043	0.07
Veight-for-height (+2 SD) Veight-for-age (−2 SD)	0.023 0.112	0.004 0.011	2,023 2,028	2,092 2,101	1.236 1.406	0.192 0.099	0.014 0.090	0.03 0.13

			Number	of cases			Confide	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0	0.000	.,	2,.00		0.0.0	0.000	000
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	0.011	0.014	0,004	7,270	1.000	0.020	0.000	0.000
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	0.140	0.007	7,002	0,001	1.700	0.000	0.120	0.107
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	0.026	0.291	0.350
Experienced physical violence since age 10 by any perpetrator Experienced sexual violence by any perpetrator ever	0.320	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	0.070	0.057	0.084
Experienced sexual violence by any non-miniate partner Experienced physical/sexual violence by the current or most recent	0.070	0.007	2,003	3,230	1.400	0.031	0.007	0.004
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	0.100	0.012	2,470	2,112	1.505	0.003	0.102	0.209
intimate partner in the past 12 months	0.266	0.013	2,470	2,772	1.506	0.050	0.239	0.293
muniate partitler in the past 12 months		0.013	2,470	2,112	1.500	0.030	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 poople with HIV	0.673	0.015	2,863	3,303	1 727	0.033	0.643	0.703

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).

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Condom use at last sex

Mobile phone ownership

Male circumcision

Discriminatory attitudes towards people with HIV

Ever tested for HIV and received results of last test

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

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			Number	of cases			Confide	nce limits
		Standard	Un-		Design	Relative		
/ariable	Value	error	weighted	ŭ	effect	error (SE/D)	(B 20E)	(D+36E
HOUSEHO	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
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,	0.001	0.025	30, 121	30,317	4.150	0.030	0.032	0.731
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 Ownership of at least one ITN for every two persons	0.781 0.554	0.009 0.011	9,138 9,090	7,613 7,562	2.175 2.067	0.012 0.019	0.763 0.533	0.800 0.576
mproved 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
Vater available when needed	0.817	0.012	38,127	30,317	2.481	0.015	0.792	0.842
mproved sanitation facility At least basic sanitation service	0.436 0.142	0.020 0.009	38,127 38,127	30,317 30,317	3.210 2.054	0.045 0.063	0.397 0.124	0.476 0.159
Jsing open defecation	0.388	0.019	38,127	30,317	2.960	0.048	0.351	0.42
Jsing a handwashing facility with soap and water	0.333	0.014	37,470	29,622	2.495	0.043	0.304	0.362
	WOME	N						
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
iteracy Jse of the internet in last 12 months	0.466 0.241	0.012 0.011	7,652 7,652	6,457 6,457	2.100 2.285	0.026 0.046	0.442 0.218	0.490 0.260
Use of the Internet in last 12 months Current tobacco use	0.241	0.011	7,652 7,652	6,457 6,457	2.285 1.595	0.046	0.218	0.26
Age-specific fertility rate 15–19	87.930	4.864	4,230	3,493	1.153	0.222	78.203	97.65
otal fertility rate (3 years)	4.828	0.114	21,407	18,120	1.361	0.024	4.601	5.05
Currently pregnant	0.077	0.004	7,652	6,457	1.206	0.048	0.070	0.08
Mean number of children ever born to women age 40–49 Median birth interval	5.302 39.280	0.099 0.600	1,485 4,198	1,306 3,337	1.669 1.665	0.019 0.015	5.104 38.081	5.49 40.47
Vant no more children	0.308	0.000	4,190	3,956	1.568	0.013	0.288	0.32
deal number of children	4.947	0.048	7,562	6,357	1.956	0.010	4.850	5.04
otal wanted fertility rate (3 years)	4.239	0.111	21,407	18,120	1.387	0.026	4.017	4.46
Currently using any contraceptive method	0.355	0.010	4,927	3,956	1.422	0.027	0.336	0.37
Currently using any modern method Currently using pill	0.291 0.043	0.010 0.005	4,927 4,927	3,956 3,956	1.503 1.830	0.033 0.124	0.271 0.032	0.31
Currently using injectables	0.043	0.006	4,927	3,956	1.551	0.069	0.032	0.00
Currently using implants	0.094	0.006	4,927	3,956	1.516	0.067	0.082	0.10
Currently using male condoms	0.008	0.002	4,927	3,956	1.246	0.199	0.005	0.01
Currently using any traditional method	0.065	0.005	4,927	3,956	1.478	0.080	0.054	0.07
Inmet need for spacing Inmet need for limiting	0.158 0.088	0.007 0.006	4,927 4,927	3,956 3,956	1.339 1.393	0.044 0.064	0.144 0.076	0.17
Inmet need total	0.246	0.009	4,927	3,956	1.413	0.035	0.228	0.26
Demand satisfied by modern methods	0.483	0.014	2,775	2,378	1.518	0.029	0.456	0.51
Demand satisfied by modern methods (all women)	0.500	0.013	3,655	3,236	1.558	0.025	0.475	0.52
Participation in decision making about family planning Not exposed to any of the eight media sources	0.813 0.368	0.011 0.013	4,927 7,652	3,956 6,457	2.054 2.348	0.014 0.035	0.791 0.342	0.83
Neonatal mortality (last 0–4 years)	17.424	2.111	5,496	4,411	1.136	0.033	13.202	21.64
Postneonatal mortality (last 0–4 years)	11.291	1.711	5,472	4,392	1.185	0.152	7.868	14.71
nfant 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	17.99
Inder-5 mortality (last 0–4 years) Perinatal mortality rate	42.263 28.982	3.208 2.900	5,529 5,582	4,438 4,483	1.161 1.233	0.076 0.100	35.847 23.182	48.679 34.78
Stillbirth rate	16.880	2.478	5,582	4,483	1.385	0.147	11.924	21.83
Early neonatal mortality rate	12.306	1.809	5,496	4,409	1.148	0.147	8.687	15.92
Received ANC from a skilled provider	0.971	0.005	2,289	1,868	1.526	0.006	0.960	0.98
+ ANC visits + ANC visits	0.848 0.320	0.015 0.018	2,289 2,289	1,868 1,868	1.973 1.850	0.017 0.056	0.818 0.284	0.87
ook any iron-containing supplements	0.905	0.010	2,289	1,868	1.574	0.030	0.284	0.92
Nothers protected against tetanus for last birth	0.692	0.017	2,289	1,868	1.796	0.025	0.657	0.72
Delivered in a health facility (live births)	0.791	0.018	2,383	1,938	2.047	0.022	0.756	0.82
Delivered by a skilled provider (live births)	0.808	0.017	2,383	1,938	2.058	0.021	0.773	0.84
Delivered by C-section (live births) Vomen with postnatal check during first 2 days	0.153 0.829	0.011 0.014	2,383 2,289	1,938 1,868	1.428 1.786	0.074 0.017	0.130 0.801	0.17 0.85
Newborns with postnatal check during first 2 days	0.829	0.014	2,289	1,868	1.770	0.017	0.810	0.86
Any problem accessing health care	0.628	0.016	7,652	6,457	2.842	0.025	0.596	0.65
ever had vaccination card	0.970	0.007	1,146	965	1.369	0.007	0.956	0.98
Received BCG vaccination	0.930	0.009	1,146	965	1.231	0.010	0.911	0.94
Received DPT-HepB-Hib vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.869 0.877	0.014 0.013	1,146 1,146	965 965	1.416 1.338	0.017 0.015	0.840 0.851	0.89 0.90
Received measles and rubella 1 vaccination	0.861	0.013	1,146	965	1.359	0.013	0.833	0.89
Fully vaccinated according to national schedule (12–23 months)	0.504	0.023	1,146	965	1.501	0.045	0.458	0.54
Received measles and rubella 2 vaccination	0.757	0.019	986	760	1.320	0.025	0.719	0.79
Fully vaccinated according to national schedule (24–35 months)	0.411	0.022	986 737	760 611	1.322	0.054	0.367	0.45
Sought treatment for diarrhoea Freated with ORS	0.529 0.446	0.024 0.036	737 737	611 611	1.275 1.842	0.046 0.080	0.480 0.375	0.57 0.51
Height-for-age (-3 SD)	0.440	0.036	2,904	2,197	1.042	0.000	0.373	0.06
	0.196	0.010	2,904	2,197	1.230	0.051	0.176	0.21
łeight-for-age (−2 SD)								
reight-for-height (~2 SD) Veight-for-height (~2 SD) Veight-for-height (+2 SD)	0.061 0.017	0.006 0.003	2,908 2,908	2,199 2,199	1.202 1.198	0.096 0.179	0.049 0.011	0.07 0.02

			Number	of cases			Confider	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
/ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.85
Child has malaria (based on rapid test)	0.252	0.013	2,578	1,957	1.338	0.051	0.226	0.27
Child has malaria (based on microscopy test)	0.128	0.009	2,578	1,957	1.261	0.074	0.109	0.14
Discriminatory attitudes towards people with HIV	0.855	0.008	6,856	5,898	1.907	0.009	0.839	0.87
Condom use at last sex Tested for HIV in the past 12 months and received the results of the last	0.087	0.009	1,355	1,300	1.173	0.103	0.069	0.10
test	0.142	0.005	7,652	6,457	1.304	0.037	0.131	0.15
Mobile phone ownership	0.704	0.008	7,652	6,457	1.600	0.012	0.688	0.72
Have and use a bank account or mobile phone for financial transactions	0.604	0.000	7,652	6,457	2.243	0.012	0.579	0.629
Participate in decision making (all three decisions)	0.497	0.015	4,927	3,956	2.038	0.021	0.468	0.52
Addree with at least one specified reason a husband is justified in wife beating	0.457	0.013	7,652	6,457	2.126	0.023	0.400	0.28
Make own decisions about sexual relations, contraceptive use, and	0.200	0.011	7,002	0,407	2.120	0.041	0.200	0.20
reproductive care	0.436	0.012	4,927	3,956	1.750	0.028	0.412	0.46
Experienced physical violence since age 15 by any perpetrator	0.430	0.012	2,934	2,441	1.612	0.020	0.318	0.40
Experienced physical violence since age 13 by any perpetrator Experienced sexual violence by any perpetrator ever	0.347	0.014	2,934	2,441	1.533	0.041	0.310	0.37
Experienced sexual violence by any non-intimate partner	0.050	0.006	2,934	2,441	1.523	0.073	0.038	0.130
Experienced sexual violence by any non-infiliance partitle. Experienced physical/sexual violence by the current or most recent	0.030	0.000	2,304	2,441	1.020	0.122	0.030	0.00
husband or intimate partner ever	0.232	0.011	2,667	2,148	1.405	0.050	0.209	0.25
Experienced emotional/physical/sexual violence by any husband or	0.202	0.011	2,007	2,140	1.400	0.030	0.203	0.23
intimate partner in the past 12 months	0.307	0.014	2,667	2,148	1.554	0.045	0.279	0.33
	MEN							
No education	0.164	0.011	3,368	2,835	1.655	0.064	0.143	0.18
Secondary education or higher	0.676	0.014	3,368	2,835	1.796	0.021	0.647	0.70
Literacy	0.600	0.015	3,368	2,835	1.736	0.024	0.571	0.62
Jse of the internet in last 12 months	0.460	0.015	3,368	2,835	1.725	0.032	0.430	0.49
Current tobacco use	0.051	0.005	3,368	2,835	1.315	0.097	0.041	0.06
Vant no more children	0.248	0.014	1,723	1,349	1.352	0.057	0.220	0.27
Discriminatory attitudes towards people with HIV	0.781	0.014	3,168	2,700	1.859	0.017	0.754	0.80
Condom use at last sex	0.206	0.018	947	878	1.364	0.087	0.170	0.24
Ever tested for HIV and received results of last test	0.046	0.005	3,368	2,835	1.468	0.116	0.035	0.05
Male circumcision	0.920	0.010	3,368	2,835	2.169	0.011	0.900	0.94
Mobile phone ownership	0.828	0.009	3,368	2,835	1.374	0.011	0.810	0.84
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	0.73
a a a a a a a a a a priorio for infariour a a rodouorio	J 12	J.J.L	5,555	_,555		0.011	5.555	5.70

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).

				of cases			Confider	nce limits
	Value	Standard	Un-	Maightad	Design	Relative		
/ariable	(R)	error (SE)	(N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2S
		POPULATI		(****)	(BEI I)	(OL/IT)	(IT ZOZ)	(11120
rimary reliance on clean fuels and technology for cooking, space heating,								
and lighting	0.309	0.036	3,390	3,944	2.295	0.118	0.236	0.38
Births registered with civil authority	0.856	0.021	459	526	1.083	0.025	0.814	0.89
Ownership of at least one ITN	0.640	0.021	1,087	1,282	1.413	0.032	0.599	0.68
Ownership of at least one ITN for every two persons At least basic drinking water service	0.494 0.904	0.020 0.035	1,073 3,390	1,265 3,944	1.341 3.036	0.041 0.039	0.453 0.834	0.53 0.97
Vater available when needed	0.854	0.033	3,390	3,944	1.689	0.039	0.809	0.89
At least basic sanitation service	0.241	0.038	3,390	3,944	2.420	0.157	0.165	0.31
Jsing open defecation	0.096	0.026	3,390	3,944	2.399	0.268	0.045	0.14
Jsing a handwashing facility with soap and water	0.836	0.028	3,380	3,930	1.994	0.033	0.780	0.89
	WOME							
lo education	0.097 0.769	0.013 0.024	797 797	955 955	1.219 1.619	0.132 0.032	0.072 0.720	0.12 0.81
Secondary education or higher Literacy	0.769	0.024	797 797	955 955	1.619	0.032	0.720	0.81
Jse of the internet in last 12 months	0.477	0.032	797	955	1.828	0.068	0.412	0.54
Current tobacco use	0.004	0.002	797	955	0.984	0.581	0.000	0.00
Total fertility rate (3 years)	3.596	0.280	2,239	2,681	1.296	0.078	3.037	4.15
Currently pregnant Mean number of children ever born to women age 40–49	0.071 4.477	0.008 0.229	797 133	955 163	0.902 1.293	0.116 0.051	0.054 4.018	0.08 4.93
Median birth interval	39.166	1.727	335	394	1.293	0.031	35.712	42.62
deal number of children	4.145	0.065	794	951	1.188	0.016	4.015	4.27
otal wanted fertility rate (3 years)	3.042	0.213	2,239	2,681	1.160	0.070	2.617	3.46
Currently using any contraceptive method	0.448	0.029	408	487	1.184	0.065	0.390	0.50
Currently using any modern method Currently using pill	0.355 0.036	0.028 0.010	408 408	487 487	1.168 1.048	0.078 0.269	0.300 0.017	0.41 0.05
Currently using injectables	0.030	0.010	408	487	1.144	0.209	0.017	0.03
Currently using implants	0.113	0.017	408	487	1.091	0.151	0.079	0.14
Currently using male condoms	0.026	0.009	408	487	1.186	0.360	0.007	0.04
Currently using any traditional method	0.093	0.015	408	487	1.041	0.161	0.063	0.12
Jnmet need for spacing Jnmet need for limiting	0.084 0.102	0.015 0.020	408 408	487 487	1.112 1.306	0.183 0.193	0.053 0.063	0.11 0.14
Inmet need total	0.102	0.025	408	487	1.271	0.133	0.003	0.14
Demand satisfied by modern methods	0.561	0.036	259	309	1.162	0.064	0.489	0.63
Demand satisfied by modern methods (all women)	0.554	0.029	410	484	1.159	0.052	0.497	0.61
Participation in decision making about family planning	0.907	0.018	408	487	1.277	0.020	0.870	0.94
Not exposed to any of the eight media sources Neonatal mortality (last 0–9 years)	0.140 24.763	0.018 5.265	797 871	955 1,036	1.489 0.955	0.131 0.213	0.104 14.234	0.17 35.29
Postneonatal mortality (last 0–9 years)	11.368	3.945	872	1,038	1.030	0.213	3.478	19.25
nfant mortality (last 0–9 years)	36.131	5.502	872	1,038	0.772	0.152	25.127	47.13
Child mortality (last 0–9 years)	12.109	3.493	886	1,056	0.947	0.288	5.123	19.09
Jnder-5 mortality (last 0–9 years)	47.802	5.865	873	1,039	0.792	0.123	36.072	59.53
Perinatal mortality rate Stillbirth rate	33.832 15.915	8.629 6.343	460 460	542 542	1.033 1.084	0.255 0.399	16.574 3.228	51.09 28.60
Early neonatal mortality rate	18.158	6.431	454	535	1.004	0.354	5.220	31.02
Received ANC from a skilled provider	0.929	0.024	176	208	1.242	0.026	0.881	0.97
I+ ANC visits	0.894	0.028	176	208	1.217	0.032	0.837	0.95
8+ ANC visits	0.465	0.041	176	208	1.077	0.087	0.384	0.54
Fook any iron-containing supplements Mothers protected against tetanus for last birth	0.912 0.729	0.025 0.039	176 176	208 208	1.182 1.163	0.028 0.054	0.862 0.651	0.96
Delivered in a health facility (live births)	0.729	0.039	179	212	1.019	0.034	0.031	0.90
Delivered by a skilled provider (live births)	0.868	0.027	179	212	1.076	0.032	0.813	0.92
Delivered by C-section (live births)	0.196	0.032	179	212	1.066	0.165	0.131	0.26
Vomen with postnatal check during first 2 days	0.873	0.032	176	208	1.269	0.037	0.809	0.93
Newborns with postnatal check during first 2 days Ny problem accessing health care	0.891 0.529	0.025 0.037	176 797	208 955	1.078 2.072	0.028 0.069	0.840 0.456	0.94 0.60
Ever had vaccination card	0.529	0.037	95	955 112	0.924	0.069	0.456	0.99
Received BCG vaccination	0.932	0.027	95	112	0.892	0.028	0.879	0.98
Received DPT-HepB-Hib vaccination (3 doses)	0.828	0.041	95	112	1.007	0.050	0.746	0.91
Received pneumococcal vaccination (3 doses)	0.789	0.041	95 05	112	0.928	0.052	0.707	0.87
Received measles and rubella 1 vaccination fully vaccinated according to national schedule (12–23 months)	0.773 0.424	0.048 0.069	95 95	112 112	1.032 1.315	0.062 0.162	0.677 0.287	0.86 0.56
Received measles and rubella 2 vaccination	0.424	0.069	95 85	102	1.142	0.102	0.267	0.67
Fully vaccinated according to national schedule (24–35 months)	0.315	0.063	85	102	1.217	0.200	0.189	0.44
Sought treatment for diarrhoea	0.691	0.104	23	25	1.037	0.151	0.483	0.89
Freated with ORS	0.500	0.092	23	25	0.851	0.185	0.315	0.68
leight-for-age (-3 SD)	0.031 0.135	0.010 0.023	229 229	262 262	0.788 0.951	0.324 0.174	0.011 0.088	0.05 0.18
Height-for-age (−2 SD) Veight-for-height (−2 SD)	0.135	0.023	229	262 264	0.951	0.174	0.088	0.18
Veight-for-height (+2 SD)	0.033	0.010	230	264	1.027	0.459	0.020	0.04
Veight-for-age (−2 SD)	0.099	0.021	230	264	1.018	0.212	0.057	0.14

Table B.5—Continued								
			Number	of cases			Confider	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Exclusive breastfeeding	0.376	0.082	34	42	0 971	0.218	0.212	0.540

+2SE) 0 540 0.447 0.053 1.226 Minimum dietary diversity (children 6-23 months) 134 157 0.118 0.341 0.553 Prevalence of anaemia (children 6–59 months) (haemoglobin <11.0 g/dl) Body mass index (BMI) <18.5 0.461 0.040 1.168 0.086 0.382 212 241 0.541 0.075 0.048 0.013 296 355 1.080 0.280 0.021 Body mass index (BMI) ≥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 0.000 0.000 0.334 Body mass index-for-age (+1 SD) 0 146 0.049 80 96 1 224 0.049 0 244 0.665 Minimum dietary diversity (women 15-49) 0.608 0.028 797 955 1.638 0.047 0.551 0.402 Prevalence of any anaemia (women 15-49) 0.459 0.028 409 487 1.151 0.062 0.516 Child slept under an ITN last night 0.460 0.033 466 533 1 182 0.071 0.394 0.526 0.329 Pregnant women slept under an ITN last night 0.473 0.072 58 66 1.073 0.152 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 0.020 438 1.229 0.162 0.083 0.162 0.123 515 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 1.010 212 Child has malaria (based on rapid test) 0 225 0.043 241 1.401 0.191 0.139 0.311 Child has malaria (based on microscopy test) 0.097 0.026 212 1 163 0 272 0.044 241 0 149 Discriminatory attitudes towards people with HIV 940 1 609 0 745 0.838 0.792 0.023 784 0.030 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 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 0.126 0.014 797 955 1.213 0.114 0.097 0.154 beating 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 0.305 Experienced physical violence since age 15 by any perpetrator 0.027 329 1.055 0.088 0.252 0.359 373 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 0.039 0.166 0.243 293 317 1 532 0 159 0.320 husband or intimate partner ever 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 0.050 No education 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 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 0.731 345 Current tobacco use 0.024 0.011 414 1.364 0.470 0.001 0.046 160 Want no more children 0.355 0.032 190 0.855 0.091 0.290 0.419 Discriminatory attitudes towards people with HIV 0.769 0.029 342 1.285 0.038 0.710 0.827 411 0.222 Condom use at last sex 0.305 0.041 143 171 1.067 0.135 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 0.986 0.006 345 414 0.948 0.006 0.973 0.998 Male circumcision 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 0.242 0.026 345 414 0.109 0.189 0.295 beating 1.142

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

			Number	of cases			Confide	nce limits
		Standard	Un-	OI Cases	Design	Relative	Cornider	ice iiiiiis
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHC	LDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.004	0.000	4.400	0.057	0.007	0.405	0.400	0.070
and lighting Births registered with civil authority	0.221 0.762	0.028 0.029	4,162 530	6,957 887	2.027 1.407	0.125 0.038	0.166 0.704	0.276 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 At least basic sanitation service	0.814 0.217	0.023 0.030	4,162 4,162	6,957 6,957	1.627 2.019	0.028 0.139	0.767 0.157	0.860 0.277
Using open defecation	0.217	0.030	4,162	6,957	3.575	0.133	0.137	0.217
Using a handwashing facility with soap and water	0.331	0.025	4,154	6,943	1.531	0.076	0.281	0.381
	WOME	N						
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 Use of the internet in last 12 months	0.729 0.467	0.023 0.033	979 979	1,703 1,703	1.590 2.064	0.031 0.071	0.683 0.401	0.774 0.533
Current tobacco use	0.407	0.033	979	1,703	1.015	0.071	0.401	0.033
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 Ideal number of children	40.887 4.046	2.209 0.069	376 971	646 1,690	1.095 1.359	0.054 0.017	36.468 3.908	45.306 4.184
Total wanted fertility rate (3 years)	2.810	0.069	2,708	4,705	0.956	0.017	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 0.082	0.017 0.011	469 469	816 816	1.226 0.860	0.173 0.133	0.064 0.060	0.131 0.104
Currently using implants Currently using male condoms	0.002	0.006	469	816	1.128	0.133	0.000	0.104
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 Demand satisfied by modern methods	0.213 0.479	0.019 0.028	469 338	816 588	1.026 1.019	0.091 0.058	0.174 0.424	0.252 0.534
Demand satisfied by modern methods (all women)	0.502	0.028	533	921	1.019	0.038	0.424	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) Infant mortality (last 0–9 years)	19.898 34.007	4.079 5.650	981 982	1,676 1,678	0.873 0.979	0.205 0.166	11.740 22.708	28.055 45.306
Child mortality (last 0–9 years)	12.575	3.855	997	1,713	1.078	0.100	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 Received ANC from a skilled provider	12.664 0.982	4.431 0.013	510 209	876 357	0.893 1.427	0.350 0.014	3.802 0.955	21.525 1.008
4+ ANC visits	0.880	0.013	209	357	1.427	0.014	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) Delivered by a skilled provider (live births)	0.829 0.850	0.033 0.032	222 222	380 380	1.263 1.283	0.040 0.038	0.762 0.785	0.896 0.915
Delivered by a skilled provider (live births) Delivered by C-section (live births)	0.030	0.032	222	380	0.954	0.036	0.783	0.915
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 Received BCG vaccination	1.000 0.991	0.000 0.009	111 111	193 193	na 1.001	0.000 0.009	1.000 0.974	1.000 1.009
Received DPT-HepB-Hib vaccination (3 doses)	0.934	0.009	111	193	0.923	0.003	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 89	152	1.287	0.088	0.589	0.839 0.492
Fully vaccinated according to national schedule (24–35 months) Sought treatment for diarrhoea	0.369 0.354	0.061 0.051	75	152 128	1.165 0.872	0.166 0.145	0.247 0.252	0.492
Treated with ORS	0.297	0.060	75	128	1.139	0.201	0.232	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) Weight-for-height (+2 SD)	0.068	0.016 0.010	265 265	440 440	0.998	0.236 0.392	0.036	0.100 0.047
weight-for-neight (+2 SD) Weight-for-age (−2 SD)	0.027 0.120	0.010	265 265	440 440	1.053 1.142	0.392	0.006 0.073	0.047

			Number	of cases			Confide	nce limits
Variable	Value (R)	Standard error (SE)	Un-	Weighted (WN)	Design effect (DEFT)	Relative error (SE/R)	(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 g/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) ≥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	116 979	206	0.969	0.235	0.068	0.189
Minimum dietary diversity (women 15–49)	0.557	0.020		1,703 894	1.231	0.035 0.060	0.518	0.596 0.497
Prevalence of any anaemia (women 15–49) Child slept under an ITN last night	0.444 0.490	0.027 0.036	514 537	901	1.214 1.361	0.060	0.390 0.418	0.497
Pregnant women slept under an ITN last night	0.490	0.036	60	101	0.970	0.074	0.416	0.609
Received 3+ doses of SP/Fansidar	0.462	0.004	209	357	1.033	0.152	0.588	0.724
Child had fever in last 2 weeks	0.180	0.018	488	841	0.951	0.002	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 Tested for HIV in the past 12 months and received the results of the last	0.114	0.017	280	482	0.892	0.149	0.080	0.147
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) Agree with at least one specified reason a husband is justified in wife	0.569	0.029	469	816	1.278	0.051	0.510	0.627
beating Make own decisions about sexual relations, contraceptive use, and	0.193	0.015	979	1,703	1.222	0.080	0.163	0.224
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 Experienced physical/sexual violence by the current or most recent	0.087	0.019	354	665	1.246	0.215	0.050	0.124
husband or intimate partner ever Experienced emotional/physical/sexual violence by any husband or	0.255	0.026	311	558	1.061	0.103	0.203	0.308
intimate partner in the past 12 months	0.348 MEN	0.037	311	558	1.368	0.107	0.274	0.422
No adversation		0.044	200	000	4.400	0.005	0.044	0.050
No education Secondary education or higher	0.037 0.847	0.011 0.030	396 396	686 686	1.182 1.660	0.305 0.036	0.014 0.787	0.059 0.907
Secondary education of higher Literacy	0.647	0.030	396	686	1.887	0.056	0.767	0.907
Use of the internet in last 12 months	0.741	0.042	396	686	1.423	0.056	0.509	0.625
Current tobacco use	0.030	0.008	396	686	0.963	0.276	0.003	0.030
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 Agree with at least one specified reason a husband is justified in wife	0.820	0.023	396	686	1.212	0.029	0.773	0.867
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

			Number	of cases			Confide	nce limits
	Value	Standard error	Un-	Weighted	Design effect	Relative error		
√ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
HOUSEHO	` ′	POPULATI	` ′		,			
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 0.341	0.022 0.020	1,387 1,379	3,183 3,168	1.611 1.563	0.044 0.059	0.444 0.301	0.531 0.381
Ownership of at least one ITN for every two persons At least basic drinking water service	0.341	0.020	4,080	9,217	2.776	0.039	0.301	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 0.685	0.016 0.037	4,080	9,217	2.290	0.330 0.054	0.017	0.081
Jsing a handwashing facility with soap and water			4,063	9,180	2.515	0.054	0.611	0.760
In a discontinu	WOME		000	0.007	4.400	0.477	0.000	0.000
No education Secondary education or higher	0.044 0.846	0.008 0.017	969 969	2,327 2,327	1.186 1.436	0.177 0.020	0.029 0.812	0.060 0.879
Literacy	0.792	0.017	969	2,327	1.357	0.020	0.756	0.827
Jse 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
Fotal fertility rate (3 years) Currently pregnant	2.946 0.062	0.202 0.009	2,744 969	6,593 2,327	1.131 1.211	0.069 0.152	2.542 0.043	3.351 0.080
Mean number of children ever born to women age 40–49	3.461	0.009	197	461	1.311	0.152	3.072	3.850
Median birth interval	42.335	2.344	319	745	1.203	0.055	37.647	47.023
deal 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 Currently using any modern method	0.320 0.238	0.029 0.023	491 491	1,144 1,144	1.363 1.219	0.090 0.099	0.263 0.191	0.378 0.285
Currently using pill	0.230	0.023	491	1,144	0.987	0.033	0.010	0.203
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 Jnmet need for spacing	0.083 0.129	0.015 0.019	491 491	1,144 1,144	1.181 1.258	0.178 0.147	0.053 0.091	0.112 0.168
Inmet need for limiting	0.123	0.016	491	1,144	1.040	0.121	0.099	0.163
Jnmet 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 Not exposed to any of the eight media sources	0.910 0.193	0.014 0.015	491 969	1,144 2,327	1.062 1.177	0.015 0.077	0.883 0.163	0.938 0.223
Neonatal mortality (last 0–9 years)	9.554	4.341	892	2,104	1.303	0.454	0.100	18.23
Postneonatal mortality (last 0–9 years)	6.473	2.825	886	2,089	1.028	0.436	0.822	12.12
nfant 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 19.584	2.230	888 892	2,096	1.083	0.617 0.259	0.000	8.074 29.730
Jnder-5 mortality (last 0–9 years) Perinatal mortality rate	24.838	5.073 7.201	463	2,104 1,100	1.079 1.007	0.239	9.437 10.437	39.239
Stillbirth rate	18.161	6.784	463	1,100	1.104	0.374	4.593	31.729
arly neonatal mortality rate	6.801	3.604	455	1,080	0.931	0.530	0.000	14.00
Received ANC from a skilled provider	0.957	0.017	174	410	1.089	0.018	0.924	0.99
+ ANC visits + ANC visits	0.901 0.493	0.026 0.042	174 174	410 410	1.162 1.111	0.029 0.086	0.848 0.409	0.954 0.577
ook any iron-containing supplements	0.493	0.042	174	410	1.056	0.000	0.409	0.99
Nothers protected against tetanus for last birth	0.784	0.038	174	410	1.204	0.048	0.708	0.85
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
Pelivered by C-section (live births) Vomen with postnatal check during first 2 days	0.342 0.954	0.048 0.018	183 174	427 410	1.304 1.137	0.140 0.019	0.246 0.918	0.43
lewborns with postnatal check during first 2 days	0.934	0.018	174	410	1.137	0.019	0.916	0.99
Any problem accessing health care	0.427	0.030	969	2,327	1.879	0.070	0.367	0.48
ver had vaccination card	1.000	0.000	89	207	na	0.000	1.000	1.00
Received BCG vaccination	0.988	0.012	89	207	1.040	0.012	0.964	1.01
deceived DPT-HepB-Hib vaccination (3 doses) deceived pneumococcal vaccination (3 doses)	0.940 0.932	0.023 0.026	89 89	207 207	0.889 0.972	0.024 0.028	0.895 0.879	0.98 0.98
Received measles and rubella 1 vaccination	0.932	0.020	89	207	0.800	0.020	0.079	0.98
fully vaccinated according to national schedule (12–23 months)	0.720	0.050	89	207	1.028	0.069	0.620	0.81
Received measles and rubella 2 vaccination	0.855	0.040	88	210	1.074	0.047	0.774	0.93
Fully vaccinated according to national schedule (24–35 months)	0.596	0.057	88	210	1.099	0.096	0.481	0.71
Sought treatment for diarrhoea	0.156 0.167	0.070 0.076	30 30	74 74	1.076 1.141	0.448 0.456	0.016 0.015	0.29
Treated with ORS Height-for-age (-3 SD)	0.167	0.076	234	74 528	1.141	0.456	0.015	0.31 0.03
leight-for-age (−2 SD)	0.010	0.003	234	528	1.033	0.203	0.068	0.03
Veight-for-height (-2 SD)	0.047	0.021	233	525	1.454	0.454	0.004	0.08
Veight-for-height (+2 SD)	0.018	0.008	233	525	0.965	0.478	0.001	0.03
Veight-for-age (−2 SD)	0.085	0.025	235	530	1.241	0.295	0.035	0.13

Table B.7—Continued								
				of cases			Confide	nce limits
	Value	Standard error	Un-	Maightad	Design effect	Relative		
Variable	(R)	(SE)	(N)	Weighted (WN)	(DEFT)	error (SE/R)	(R-2SE)	(R+2SE
	0.429		49	110			` ′	,
Exclusive breastfeeding Minimum dietary diversity (children 6–23 months)	0.429	0.080 0.069	120	289	1.115 1.501	0.186 0.154	0.269 0.310	0.588 0.585
Prevalence of anaemia (children 6–59 months) (haemoglobin <11.0 g/dl)	0.362	0.040	202	462	1.151	0.104	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) ≥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	0.400	0.044	000	0.007	4 4 4 7	0.000	0.440	0.405
test Mobile who no guyanarabin	0.168	0.014	969 969	2,327 2.327	1.147	0.082	0.140	0.195
Mobile phone ownership Have and use a bank account or mobile phone for financial transactions	0.898 0.872	0.011 0.013	969 969	2,327 2,327	1.153 1.173	0.012 0.014	0.876 0.847	0.920 0.897
Participate in decision making (all three decisions)	0.689	0.013	491	2,32 <i>1</i> 1,144	1.173	0.014	0.647	0.897
Agree with at least one specified reason a husband is justified in wife	0.009	0.025	491	1,144	1.102	0.030	0.040	0.738
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	0.000	0.000	303	2,021	1.175	0.100	0.040	0.070
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 Agree with at least one specified reason a husband is justified in wife	0.895	0.017	438	1,076	1.142	0.019	0.861	0.928

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

0.035

0.012

438

1,076

1.363

0.341

0.011

0.059

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

			Number	of cases			Confide	nce limits
		Standard	Un-		Design	Relative		
Variable	Value (R)	error	•	Weighted	effect	error (SE/D)	(B 20E)	(D+36E)
Variable HOUSEHO		(SE) POPULATI	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Primary reliance on clean fuels and technology for cooking, space heating,	LDO AND	T OI OLATI	011					
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 Ownership of at least one ITN for every two persons	0.818 0.646	0.016 0.020	1,082 1,079	888 885	1.399 1.372	0.020 0.031	0.785 0.606	0.850 0.686
At least basic drinking water service	0.848	0.020	3,536	2,902	2.789	0.031	0.000	0.000
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 Using open defecation	0.281 0.217	0.040 0.040	3,536 3,536	2,902 2,902	2.412 2.567	0.142 0.183	0.202 0.138	0.361 0.297
Using a handwashing facility with soap and water	0.546	0.054	3,536	2,902	2.954	0.103	0.130	0.653
	WOME	N						
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 Use of the internet in last 12 months	0.720 0.364	0.029 0.032	837 837	713 713	1.850 1.893	0.040 0.087	0.663 0.301	0.778 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 Median birth interval	4.149 43.393	0.153 2.785	178 286	151 233	1.026 1.309	0.037 0.064	3.843 37.824	4.455 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 Currently using any modern method	0.356 0.293	0.020 0.025	446 446	375 375	0.899 1.158	0.057 0.085	0.315 0.243	0.397 0.343
Currently using any modern method Currently using pill	0.293	0.025	446	375	1.130	0.003	0.243	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 Currently using any traditional method	0.019 0.063	0.007 0.013	446 446	375 375	1.036 1.102	0.352 0.202	0.006 0.038	0.033 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 Demand satisfied by modern methods	0.281 0.460	0.021 0.036	446 285	375 239	0.986 1.207	0.075 0.078	0.239 0.388	0.323 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) Postneonatal mortality (last 0–9 years)	29.205 8.708	7.143 3.720	794 794	666 664	1.132 0.938	0.245 0.427	14.919 1.269	43.491 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) Perinatal mortality rate	47.380 26.681	7.766 7.013	794 390	666 324	0.968 0.852	0.164 0.263	31.847 12.656	62.912 40.707
Stillbirth rate	21.158	6.747	390	324	0.032	0.203	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 8+ ANC visits	0.940 0.453	0.020 0.045	155 155	130 130	1.059 1.121	0.022 0.099	0.899 0.363	0.980 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) Delivered by a skilled provider (live births)	0.909 0.935	0.027 0.020	160 160	135 135	1.178 1.042	0.030 0.022	0.855 0.894	0.963
Delivered by a skilled provider (live births) Delivered by C-section (live births)	0.935	0.020	160	135	0.898	0.022	0.694	0.976 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 Ever had vaccination card	0.466 0.970	0.022 0.020	837 89	713 75	1.293 1.085	0.048 0.020	0.421 0.930	0.510 1.009
Received BCG vaccination	0.991	0.020	89	75 75	0.901	0.020	0.930	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) Received measles and rubella 1 vaccination	0.899 0.907	0.032 0.036	89 89	75 75	0.924	0.035 0.040	0.835	0.962 0.980
Fully vaccinated according to national schedule (12–23 months)	0.706	0.036	89 89	75 75	1.090 1.225	0.040	0.835 0.585	0.980
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 Treated with ORS	0.746 0.522	0.093 0.088	35 35	29 29	1.180 0.926	0.125 0.168	0.560 0.347	0.932 0.698
Height-for-age (-3 SD)	0.522	0.008	206	165	0.926	0.166	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

Table B.8—Continued								
				of cases			Confide	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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 g/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) ≥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	0.027	398	337	1.135	0.066	0.400	0.487
Child slept under an ITN last night	0.430	0.028	402	325	1.353	0.068	0.500	0.467
	0.567	0.039	55	43	1.109	0.000	0.300	0.030
Pregnant women slept under an ITN last night Received 3+ doses of SP/Fansidar	0.707	0.076	155	130	1.109	0.134	0.413	0.719
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	0.200	0.001	200	220	1.22	0.120	0.100	0.010
intimate partner in the past 12 months	0.363	0.033	288	225	1.166	0.091	0.296	0.429
	MEN							
No advection	0.035	0.010	285	235	0.051	0.205	0.015	0.056
No education		0.010			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

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

0.807

0.060

0.029

0.013

285

285

235

235

1.246

0.954

0.036

0.224

0.749

0.033

0.866

0.087

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

			Number	of cases			Confide	nce limits
		Standard	Un-	OI CUSCS	Design	Relative	Cornidor	ioc iiiiiio
	Value	error	•	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHO	DLDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.226	0.026	3,750	5,234	1.935	0.114	0.174	0.277
and lighting Births registered with civil authority	0.220	0.020	439	616	1.556	0.114	0.174	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 Water available when needed	0.855 0.816	0.035 0.022	3,750 3,750	5,234 5,234	2.865 1.633	0.041 0.027	0.785 0.773	0.926 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
	WOME							
No education Secondary education or higher	0.078 0.755	0.011 0.018	854 854	1,220 1,220	1.199 1.193	0.141 0.023	0.056 0.720	0.100 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 Total fertility rate (3 years)	0.004 3.507	0.003 0.234	854 2,403	1,220 3,427	1.158 1.114	0.604 0.067	0.000 3.038	0.009 3.976
Currently pregnant	0.077	0.234	2,403 854	3,427 1,220	0.916	0.067	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 Ideal number of children	42.105 4.121	1.486 0.068	313 841	456 1,201	1.307 1.145	0.035 0.016	39.132 3.985	45.077 4.256
Total wanted fertility rate (3 years)	2.994	0.000	2,403	3,427	1.145	0.016	3.965 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 Currently using injectables	0.050 0.054	0.010 0.012	445 445	633 633	0.983 1.108	0.203 0.221	0.030 0.030	0.070 0.077
Currently using implants	0.092	0.012	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 0.143	0.013	445 445	633 633	1.130	0.199	0.041	0.094
Unmet need for spacing Unmet need for limiting	0.143	0.018 0.017	445 445	633	1.078 1.071	0.125 0.131	0.107 0.096	0.178 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) Participation in decision making about family planning	0.498 0.751	0.022 0.039	420 445	603 633	0.910 1.899	0.044 0.052	0.454 0.672	0.543 0.829
Not exposed to any of the eight media sources	0.731	0.033	854	1,220	1.472	0.032	0.072	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) Child mortality (last 0–9 years)	26.081 16.340	4.959 4.199	842 837	1,207 1,196	0.840 0.957	0.190 0.257	16.164 7.943	35.999 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 Early neonatal mortality rate	10.426 12.586	4.497 6.334	440 436	637 631	0.940 1.207	0.431 0.503	1.432 0.000	19.421 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 Took any iron-containing supplements	0.448 0.959	0.049 0.021	167 167	246 246	1.277 1.367	0.110 0.022	0.349 0.917	0.546 1.001
Mothers protected against tetanus for last birth	0.959	0.021	167	246	1.459	0.022	0.917	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) Women with postnatal check during first 2 days	0.255 0.950	0.028 0.018	171 167	252 246	0.849 1.056	0.111 0.019	0.198 0.914	0.312 0.986
Newborns with postnatal check during first 2 days	0.943	0.016	167	246	0.902	0.013	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 70	115	0.941	0.011	0.967	1.011
Received BCG vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.905 0.854	0.032 0.038	79 79	115 115	0.965 0.958	0.035 0.045	0.841 0.778	0.968 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) Received measles and rubella 2 vaccination	0.619 0.703	0.058 0.059	79 79	115 115	1.049 1.158	0.094 0.084	0.503 0.585	0.734 0.822
Received measies and rubella 2 vaccination Fully vaccinated according to national schedule (24–35 months)	0.703	0.059	79 79	115	1.158	0.084	0.585	0.822
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) Height-for-age (−2 SD)	0.030 0.104	0.012 0.015	238 238	334 334	1.093 0.744	0.401 0.143	0.006 0.075	0.054 0.134
Neight-for-height (-2 SD)	0.104	0.015	238	334	1.115	0.143	0.073	0.134
Weight-for-height (+2 SD)	0.023	0.010	238	334	1.011	0.422	0.004	0.042
Veight-for-age (−2 SD)	0.110	0.025	238	334	1.165	0.228	0.060	0.161

			Number	of cases			Confider	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
√ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2S
Exclusive breastfeeding	0.401	0.084	43	64	1.109	0.210	0.232	0.56
Minimum dietary diversity (children 6–23 months)	0.320	0.046	119	175	1.069	0.143	0.229	0.41
Prevalence of anaemia (children 6–59 months) (haemoglobin <11.0 g/dl)	0.383	0.029	210	294	0.860	0.076	0.324	0.44
Body mass index (BMI) <18.5	0.034	0.011	320	455	1.035	0.309	0.013	0.05
Body mass index (BMI) ≥25.0	0.558	0.033	320	455	1.176	0.059	0.493	0.62
Body mass index-for-age (−2 SD)	0.000	0.000	81	120	na	na	0.000	0.00
Body mass index-for-age (+1 SD)	0.167	0.041	81	120	0.991	0.248	0.084	0.24
Minimum dietary diversity (women 15–49)	0.534	0.018	854	1,220	1.075	0.034	0.497	0.57
Prevalence of any anaemia (women 15–49)	0.375	0.029	441	630	1.241	0.076	0.318	0.43
Child slept under an ITN last night	0.447	0.039	455	639	1.431	0.087	0.369	0.52
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	0.79
Child had fever in last 2 weeks	0.063	0.010	422	611	0.845	0.161	0.043	0.08
Child had blood taken from finger/heel	0.642	0.101	26	38	1.038	0.158	0.439	0.84
Child took ACT	0.796	0.136	15	22	1.311	0.171	0.524	1.06
Child has malaria (based on rapid test)	0.148	0.030	210	294	1.216	0.201	0.089	0.20
Child has malaria (based on microscopy test)	0.067	0.018	210	294	1.024	0.263	0.032	0.10
Discriminatory attitudes towards people with HIV	0.791	0.019	846	1,208	1.361	0.024	0.753	0.82
Condom use at last sex	0.100	0.017	218	311	0.851	0.173	0.066	0.13
Fested for HIV in the past 12 months and received the results of the last	0.100	0.017	210	011	0.001	0.170	0.000	0.10
test	0.176	0.017	854	1,220	1.309	0.097	0.142	0.21
Mobile phone ownership	0.829	0.017	854	1,220	0.962	0.037	0.804	0.85
Have and use a bank account or mobile phone for financial transactions	0.734	0.012	854	1,220	1.278	0.013	0.695	0.03
Participate in decision making (all three decisions)	0.734	0.019	445	633	1.270	0.020	0.093	0.77
Agree with at least one specified reason a husband is justified in wife	0.432	0.029	445	033	1.229	0.007	0.374	0.49
beating	0.075	0.011	854	1.220	1.199	0.144	0.054	0.09
Make own decisions about sexual relations, contraceptive use, and	0.075	0.011	004	1,220	1.133	0.144	0.054	0.03
reproductive care	0.421	0.033	445	633	1.413	0.079	0.354	0.48
Experienced physical violence since age 15 by any perpetrator	0.421	0.033	358	479	1.359	0.079	0.334	0.460
Experienced physical violence since age 15 by any perpetrator Experienced sexual violence by any perpetrator ever	0.293	0.033	358	479 479	1.315	0.111	0.229	0.300
	0.129		358	479 479	1.159	0.161	0.032	0.176
Experienced sexual violence by any non-intimate partner	0.062	0.015	336	479	1.159	0.240	0.032	0.09
Experienced physical/sexual violence by the current or most recent	0.405	0.000	242	400	4 007	0.440	0.400	0.05
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	0.070	0.005	242	400	4 400	0.404	0.400	0.046
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	0.06
Secondary education or higher	0.826	0.032	325	466	1.531	0.039	0.762	0.89
Literacy	0.728	0.029	325	466	1.185	0.040	0.669	0.78
Use of the internet in last 12 months	0.592	0.037	325	466	1.361	0.063	0.518	0.66
Current tobacco use	0.022	0.010	325	466	1.200	0.441	0.003	0.04
Vant no more children	0.427	0.046	133	192	1.078	0.109	0.334	0.52
Discriminatory attitudes towards people with HIV	0.680	0.029	322	461	1.105	0.042	0.622	0.73
Condom use at last sex	0.260	0.035	108	158	0.828	0.135	0.190	0.33
Ever tested for HIV and received results of last test	0.200	0.033	325	466	1.301	0.155	0.130	0.33
Male circumcision	0.992	0.015	325	466	0.924	0.231	0.030	1.00
Mobile phone ownership	0.868	0.003	325	466	1.014	0.003	0.830	0.90
			325 325	466 466				
Have and use a bank account or mobile phone for financial transactions	0.784	0.029	323	400	1.268	0.037	0.726	0.84
Agree with at least one specified reason a husband is justified in wife	0.450	0.004	205	400	1 600	0.040	0.000	0.00
beating	0.158	0.034	325	466	1.693	0.218	0.089	0.22

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

			Number	of cases			Confide	nce limits
	Value	Standard	Un-	\\\\aimbtod	Design	Relative		
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SE
	` ′	POPULATI		(****)	(52. 1)	(02,11)	(11202)	(202
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 0.487	0.019 0.020	1,397 1,378	3,469 3,429	1.521 1.503	0.029 0.042	0.621 0.447	0.698 0.528
Ownership of at least one ITN for every two persons At least basic drinking water service	0.467	0.020	4,761	11,844	3.361	0.042	0.447	0.526
Nater 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
Jsing open defecation Jsing a handwashing facility with soap and water	0.093 0.429	0.037 0.039	4,761 4,453	11,844 11,066	3.542 2.409	0.396 0.091	0.019 0.351	0.167 0.508
osing a nandwashing radiity with soap and water	WOME		4,400	11,000	2.403	0.031	0.331	0.500
No education	0.090	0.012	1,131	2,928	1.450	0.137	0.066	0.115
Secondary education or higher	0.798	0.012	1,131	2,928	1.471	0.137	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 3.516	0.006 0.241	1,131 3,238	2,928 8,381	1.570 1.147	0.341 0.068	0.006 3.035	0.031 3.997
Fotal fertility rate (3 years) Currently pregnant	0.058	0.241	3,238 1,131	2,928	1.147	0.068	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
deal number of children	4.381	0.084	1,097	2,835	1.567	0.019	4.213	4.549
Fotal wanted fertility rate (3 years) Currently using any contraceptive method	3.028 0.444	0.229 0.025	3,238 550	8,381 1,426	1.214 1.159	0.076 0.055	2.570 0.395	3.485 0.493
Currently using any modern method	0.321	0.023	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 0.014	0.011 0.006	550 550	1,426 1,426	0.975	0.152 0.468	0.049 0.001	0.091 0.026
Currently using male condoms Currently using any traditional method	0.014	0.000	550 550	1,426	1.286 1.010	0.406	0.001	0.020
Jnmet need for spacing	0.148	0.019	550	1,426	1.224	0.126	0.111	0.185
Inmet need for limiting	0.082	0.012	550	1,426	1.037	0.148	0.058	0.106
Jnmet need total	0.230	0.023	550	1,426	1.258	0.098	0.184	0.275
Demand satisfied by modern methods Demand satisfied by modern methods (all women)	0.477 0.524	0.030 0.025	375 586	961 1,503	1.142 1.186	0.062 0.047	0.417 0.475	0.536 0.573
Participation in decision making about family planning	0.905	0.023	550	1,303	1.185	0.047	0.473	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
nfant mortality (last 0–9 years) Child mortality (last 0–9 years)	34.348 11.231	5.848 2.955	1,162 1,152	3,020 3,002	1.058 0.947	0.170 0.263	22.653 5.320	46.044 17.141
Inder-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 Received ANC from a skilled provider	17.528 1.000	6.492 0.000	592 246	1,551 631	1.069 na	0.370 0.000	4.543 1.000	30.513 1.000
H+ ANC visits	0.897	0.025	246	631	1.259	0.000	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
Nothers protected against tetanus for last birth Delivered in a health facility (live births)	0.808 0.924	0.035 0.019	246 259	631 666	1.394 1.146	0.043 0.021	0.738 0.886	0.878 0.962
Delivered by a skilled provider (live births)	0.936	0.019	259	666	1.123	0.021	0.880	0.902
Delivered by C-section (live births)	0.231	0.031	259	666	1.068	0.135	0.169	0.293
Vomen 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 Ever had vaccination card	0.527 1.000	0.025 0.000	1,131 140	2,928 359	1.678 na	0.047 0.000	0.477 1.000	0.577 1.000
Received BCG vaccination	0.972	0.000	140	359	1.098	0.000	0.942	1.000
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 fully vaccinated according to national schedule (12–23 months)	0.919 0.638	0.023 0.051	140 140	359 359	0.991	0.025 0.079	0.873 0.537	0.965
rully vaccinated according to national schedule (12–23 months) Received measles and rubella 2 vaccination	0.638	0.051	95	359 255	1.176 1.212	0.079	0.537	0.739 0.789
Fully vaccinated according to national schedule (24–35 months)	0.409	0.058	95 95	255	1.103	0.090	0.347	0.709
Sought treatment for diarrhoea	0.445	0.049	94	240	0.971	0.111	0.346	0.544
reated with ORS	0.419	0.077	94	240	1.474	0.183	0.266	0.572
leight-for-age (-3 SD)	0.042	0.011	315 315	784 784	0.963	0.252	0.021	0.063
Height-for-age (–2 SD) Neight-for-height (–2 SD)	0.172 0.077	0.027 0.015	315 314	784 782	1.177 0.938	0.159 0.193	0.118 0.047	0.227 0.106
Weight-for-height (+2 SD)	0.024	0.013	314	782	0.983	0.355	0.007	0.040
Veight-for-age (−2 SD)	0.109	0.020	315	784	1.067	0.186	0.069	0.150

Table	B.10—Continued
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			Number	of cases			Confider	nce limits
		Standard	Un-		Design	Relative		
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.100	0.020	1,101	2,320	1.002	0.120	0.120	0.201
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	0.00	0.01.		.,		0.2.0	0.00.	0.00
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	000	0.02.		000		0	00	0.20
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

Ariable HOUSEHO Imary reliance on clean fuels and technology for cooking, space heating, and lighting In this registered with civil authority Whership of at least one ITN Whership of at least one ITN for every two persons Least basic drinking water service ater available when needed Least basic sanitation service sing open defecation sing a handwashing facility with soap and water	Value (R) DLDS AND 0.107 0.702 0.770 0.586 0.750 0.808 0.184 0.063	Standard error (SE) POPULATI 0.020 0.044 0.017 0.022 0.048	Un- weighted (N) ON 3,558 457 1,061	of cases Weighted (WN)	Design effect (DEFT)	Relative error (SE/R)	(R-2SE)	(R+2SE
HOUSEHC imary reliance on clean fuels and technology for cooking, space heating, and lighting rths registered with civil authority wnership of at least one ITN wnership of at least one ITN for every two persons least basic drinking water service ater available when needed least basic sanitation service sing open defecation	(R) 0.107 0.702 0.770 0.586 0.750 0.808 0.184	(SE) O.020 0.044 0.017 0.022 0.048	(N) ON 3,558 457 1,061	(WN) 1,775	(DEFT)		(R-2SE)	(R+2SE
HOUSEHC imary reliance on clean fuels and technology for cooking, space heating, and lighting rths registered with civil authority wnership of at least one ITN wnership of at least one ITN for every two persons least basic drinking water service ater available when needed least basic sanitation service sing open defecation	0.107 0.702 0.770 0.586 0.750 0.808 0.184	0.020 0.044 0.017 0.022 0.048	3,558 457 1,061	1,775		(OL/IT)	(IT-ZOL)	(11.202
imary reliance on clean fuels and technology for cooking, space heating, and lighting rths registered with civil authority wnership of at least one ITN wnership of at least one ITN for every two persons least basic drinking water service atter available when needed least basic sanitation service sing open defecation	0.107 0.702 0.770 0.586 0.750 0.808 0.184	0.020 0.044 0.017 0.022 0.048	3,558 457 1,061	,	2 121			
and lighting rths registered with civil authority wnership of at least one ITN wnership of at least one ITN for every two persons least basic drinking water service ater available when needed least basic sanitation service sing open defecation	0.702 0.770 0.586 0.750 0.808 0.184	0.044 0.017 0.022 0.048	457 1,061	,	2 121			
wnership of at least one ITN wnership of at least one ITN for every two persons least basic drinking water service ater available when needed least basic sanitation service sing open defecation	0.770 0.586 0.750 0.808 0.184	0.017 0.022 0.048	1,061	227	2.131	0.191	0.066	0.148
wnership of at least one ITN for every two persons least basic drinking water service ater available when needed least basic sanitation service sing open defecation	0.586 0.750 0.808 0.184	0.022 0.048		227	1.654	0.062	0.614	0.789
least basic drinking water service ater available when needed least basic sanitation service sing open defecation	0.750 0.808 0.184	0.048	1,053	521 517	1.310 1.430	0.022 0.037	0.736 0.542	0.804 0.629
ater available when needed least basic sanitation service sing open defecation	0.808 0.184		3,558	1,775	2.834	0.037	0.655	0.846
sing open defecation		0.024	3,558	1,775	1.663	0.030	0.759	0.857
	0.063	0.026	3,558	1,775	1.719	0.140	0.133	0.236
ing a nanuwashing facility with soap and water	0.201	0.024 0.033	3,558 3,492	1,775 1,736	2.718 2.268	0.385 0.165	0.014 0.134	0.111 0.267
	WOME		3,492	1,730	2.200	0.103	0.134	0.207
o education	0.140	0.019	792	411	1.551	0.137	0.101	0.178
econdary education or higher	0.711	0.019	792	411	1.561	0.137	0.661	0.761
eracy	0.478	0.027	792	411	1.496	0.056	0.424	0.531
se of the internet in last 12 months	0.285	0.028	792	411	1.750	0.099	0.229	0.341
urrent tobacco use	0.004	0.002	792	411	0.922	0.494	0.000	0.009
otal fertility rate (3 years) urrently pregnant	3.784 0.065	0.225 0.010	2,222 792	1,151 411	1.133 1.190	0.060 0.160	3.334 0.044	4.235 0.086
ean number of children ever born to women age 40–49	4.607	0.187	161	83	1.151	0.041	4.233	4.982
edian birth interval	41.723	1.603	322	169	1.221	0.038	38.518	44.929
eal number of children	4.412	0.075	788	408	1.066	0.017	4.263	4.561
otal wanted fertility rate (3 years)	3.308	0.232	2,222	1,151	1.182	0.070	2.843	3.773
urrently using any contraceptive method urrently using any modern method	0.392 0.291	0.025 0.023	439 439	231 231	1.061 1.046	0.063 0.078	0.343 0.245	0.442 0.336
urrently using pill	0.045	0.013	439	231	1.330	0.292	0.019	0.072
urrently using injectables	0.102	0.015	439	231	1.002	0.142	0.073	0.131
urrently using implants	0.061	0.011	439	231	0.981	0.183	0.039	0.084
urrently using male condoms urrently using any traditional method	0.010 0.102	0.005 0.018	439 439	231 231	0.985 1.228	0.462 0.175	0.001 0.066	0.020 0.137
nmet need for spacing	0.102	0.018	439	231	1.069	0.173	0.113	0.186
nmet need for limiting	0.078	0.013	439	231	1.021	0.168	0.052	0.104
nmet need total	0.227	0.023	439	231	1.143	0.101	0.182	0.273
emand satisfied by modern methods	0.469	0.032	274	143	1.068	0.069	0.404	0.534
emand satisfied by modern methods (all women) articipation in decision making about family planning	0.493 0.874	0.024 0.027	406 439	210 231	0.955 1.676	0.048 0.031	0.446 0.820	0.541 0.927
ot exposed to any of the eight media sources	0.261	0.027	792	411	2.122	0.031	0.020	0.328
eonatal mortality (last 0–9 years)	13.317	4.179	863	454	0.936	0.314	4.959	21.674
ostneonatal mortality (last 0–9 years)	9.157	3.587	867	457	1.118	0.392	1.984	16.331
fant mortality (last 0–9 years)	22.474	5.774	864	455	1.007	0.257	10.927	34.021
nild mortality (last 0–9 years) nder-5 mortality (last 0–9 years)	15.227 37.359	5.511 8.849	855 868	448 457	1.150 1.228	0.362 0.237	4.205 19.660	26.249 55.058
erinatal mortality rate	16.594	6.154	437	228	1.012	0.371	4.285	28.902
illbirth rate	6.406	3.630	437	228	0.953	0.567	0.000	13.665
arly neonatal mortality rate	10.254	5.396	434	226	1.121	0.526	0.000	21.045
eceived ANC from a skilled provider	0.996	0.004	182	96 96	0.824	0.004	0.989	1.004 0.934
- ANC visits - ANC visits	0.868 0.301	0.033 0.033	182 182	96 96	1.311 0.965	0.038 0.109	0.802 0.235	0.934
pok any iron-containing supplements	0.887	0.028	182	96	1.202	0.032	0.831	0.944
others protected against tetanus for last birth	0.765	0.042	182	96	1.316	0.054	0.682	0.848
elivered in a health facility (live births)	0.889	0.037	192	101	1.507	0.041	0.815	0.962
elivered by a skilled provider (live births) elivered by C-section (live births)	0.893 0.181	0.036 0.032	192 192	101 101	1.492 1.096	0.040 0.176	0.821 0.118	0.965 0.245
omen with postnatal check during first 2 days	0.161	0.032	182	96	1.103	0.176	0.116	0.243
ewborns with postnatal check during first 2 days	0.849	0.037	182	96	1.401	0.044	0.775	0.924
ny problem accessing health care	0.536	0.034	792	411	1.905	0.063	0.468	0.603
ver had vaccination card	1.000	0.000	98	51 51	na 1 000	0.000	1.000	1.000
eceived BCG vaccination eceived DPT-HepB-Hib vaccination (3 doses)	0.977 0.942	0.017 0.022	98 98	51 51	1.099 0.924	0.017 0.023	0.944 0.898	1.010 0.980
eceived DPT-nepb-nib vaccination (3 doses)	0.942	0.022	96 98	51 51	0.924	0.023	0.898	0.986
eceived measles and rubella 1 vaccination	0.939	0.022	98	51	0.889	0.023	0.896	0.982
ally vaccinated according to national schedule (12–23 months)	0.620	0.055	98	51	1.107	0.089	0.509	0.73
eceived measles and rubella 2 vaccination	0.806	0.049	78 70	41	1.075	0.060	0.709	0.904
ully vaccinated according to national schedule (24–35 months) bught treatment for diarrhoea	0.403 0.446	0.070 0.072	78 50	41 26	1.184 1.076	0.174 0.163	0.263 0.301	0.540 0.590
eated with ORS	0.446	0.072	50 50	26 26	1.076	0.183	0.301	0.59
eight-for-age (−3 SD)	0.017	0.008	208	102	0.920	0.485	0.001	0.033
eight-for-age (−2 SD)	0.106	0.021	208	102	0.935	0.197	0.064	0.148
eight-for-height (-2 SD)	0.018	0.009	209	103	0.953	0.488	0.000	0.03
eight-for-height (+2 SD) eight-for-age (-2 SD)	0.018 0.075	0.008 0.020	209 208	103 102	0.915 1.067	0.465 0.265	0.001 0.035	0.03 0.11

			Number	of cases			Confider	nce limits
		Standard	Un-		Design	Relative		
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.440	0.047	700	444	4.004	0.440	0.400	0.477
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	0.273	0.021	792	411	1.346	0.078	0.230	0.315
beating Make own decisions shout sexual relations, contracentive use, and	0.273	0.021	192	411	1.340	0.076	0.230	0.313
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	0.403	0.030	281	137	1.043	0.090	0.333	0.476
Experienced sexual violence by any perpetrator ever	0.317	0.029	281	137	0.986	0.031	0.239	0.373
Experienced sexual violence by any non-intimate partner	0.115	0.006	281	137	0.894	0.432	0.002	0.133
Experienced physical/sexual violence by the current or most recent	0.013	0.000	201	137	0.034	0.432	0.002	0.020
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	0.101	0.020	200	120	1.001	0.140	0.123	0.200
intimate partner in the past 12 months	0.258	0.030	266	128	1.127	0.117	0.198	0.319
- Internate partition in the past 12 months		0.000	200	120	1.121	0.111	0.100	0.010
	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	0.440	0.045	054	404	0.070	0.404	0.000	0.440
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

			Number of cases				Confider	nce limits
		Standard	Un-	OI Cases	Design	Relative	Corilidei	ice iiiiiis
	Value	error		Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHO	DLDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.000	0.044	0.000	4.007	4 000	0.450	0.000	0.440
and lighting Births registered with civil authority	0.090 0.751	0.014 0.036	3,802 505	1,397 185	1.639 1.661	0.159 0.048	0.062 0.679	0.119 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 At least basic sanitation service	0.799 0.191	0.030 0.025	3,802 3,802	1,397 1,397	2.105 1.727	0.038 0.133	0.739 0.140	0.860 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
	WOME	N						
No education	0.175	0.021	849	317	1.603	0.120	0.133	0.217
Secondary education or higher	0.707 0.483	0.023 0.022	849 849	317 317	1.467 1.275	0.032 0.045	0.661 0.439	0.753 0.527
Literacy Use of the internet in last 12 months	0.463	0.022	849	317	2.239	0.045	0.439	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 Median birth interval	4.757 41.229	0.159 1.964	169 367	64 141	1.006 1.524	0.033 0.048	4.439 37.301	5.076 45.157
Ideal number of children	4.532	0.081	848	317	1.329	0.048	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 Currently using pill	0.358 0.050	0.035 0.011	484 484	183 183	1.593 1.123	0.097 0.224	0.288 0.027	0.427 0.072
Currently using pili Currently using injectables	0.030	0.011	484	183	1.123	0.224	0.027	0.072
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 Unmet need for spacing	0.070 0.146	0.017 0.021	484 484	183 183	1.451 1.303	0.240 0.144	0.036 0.104	0.104 0.187
Unmet need for limiting	0.146	0.021	484	183	0.978	0.144	0.104	0.107
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 Not exposed to any of the eight media sources	0.759 0.151	0.041 0.027	484 849	183 317	2.110 2.156	0.054 0.176	0.676 0.098	0.841 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) Under-5 mortality (last 0–9 years)	11.539 28.588	3.406 5.745	946 962	359 365	1.021 1.122	0.295 0.201	4.726 17.099	18.352 40.078
Perinatal mortality rate	19.523	6.079	503	192	1.007	0.201	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 4+ ANC visits	0.977 0.886	0.011 0.025	205 205	77 77	1.058 1.116	0.011 0.028	0.955 0.836	0.999 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) Delivered by a skilled provider (live births)	0.922 0.934	0.020 0.016	214 214	81 81	1.077 0.968	0.021 0.018	0.883 0.901	0.962 0.967
Delivered by C-section (live births)	0.934	0.018	214	81	1.039	0.018	0.301	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 Ever had vaccination card	0.641	0.029 0.028	849	317	1.747	0.045	0.584	0.699
Received BCG vaccination	0.946 0.888	0.028	97 97	38 38	1.223 1.208	0.029 0.043	0.890 0.812	1.001 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 Fully vaccinated according to national schedule (12–23 months)	0.841	0.048 0.061	97 97	38 38	1.315	0.058	0.744 0.416	0.937 0.661
Received measles and rubella 2 vaccination	0.538 0.855	0.061	97 89	36	1.214 1.167	0.114 0.049	0.416	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) Height-for-age (-2 SD)	0.047 0.165	0.012 0.019	269 269	98 98	0.922 0.804	0.252 0.113	0.023 0.127	0.070 0.202
Weight-for-height (-2 SD)	0.165	0.019	269	98	1.081	0.113	0.127	0.202
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

Tabl	le	В	.1	2-	Co	ntin	ued
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			Number	of cases			Confidence limits	
		Standard	Un-		Design	Relative		
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.000	0.004	0.40	0.47	4 400	0.004	0.400	0.074
beating	0.228	0.021	849	317	1.482	0.094	0.186	0.271
Make own decisions about sexual relations, contraceptive use, and	0.074	0.040	404	400	0.400	0.400	0.070	0.470
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	0.250	0.000	307	105	1 171	0.111	0.200	0.240
husband or intimate partner ever Experienced emotional/physical/sexual violence by any husband or	0.259	0.029	307	105	1.174	0.114	0.200	0.318
intimate partner in the past 12 months	0.385	0.037	307	105	1.311	0.095	0.312	0.458
mumate partier in the past 12 months		0.037	307	100	1.311	0.095	0.312	0.436
	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	0.470	0.00=	050	400	4.005	0.400	0.446	0.007
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).

			Number of cases				Confide	nce limits
		Standard	Un-	OI Cases	Design	Relative	Cornider	ice iii iii.
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
HOUSEHO	DLDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.455	0.000	0.450	0.000	0.000	0.470	0.400	0.000
and lighting Births registered with civil authority	0.155 0.684	0.026 0.038	3,456 429	2,262 279	2.300 1.478	0.170 0.056	0.102 0.608	0.208 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 At least basic sanitation service	0.830 0.288	0.032 0.031	3,456 3,456	2,262 2,262	2.201 1.785	0.038 0.107	0.766 0.226	0.893 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
	WOME	N						
No education	0.118	0.016	835	567	1.403	0.133	0.086	0.149
Secondary education or higher	0.774 0.615	0.026 0.031	835 835	567 567	1.799 1.828	0.034 0.050	0.721 0.553	0.826 0.677
Literacy Use of the internet in last 12 months	0.615	0.031	835 835	567 567	1.828	0.050	0.553	0.677
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 Mean number of children over born to women ago 40, 40	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 Median birth interval	4.298 42.599	0.191 2.192	167 301	113 202	1.163 1.149	0.044 0.051	3.916 38.216	4.680 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 0.053	0.023 0.008	424 424	284 284	1.072 0.777	0.083 0.160	0.236 0.036	0.330
Currently using pill Currently using injectables	0.033	0.008	424	284	0.777	0.100	0.036	0.070
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 Unmet need for limiting	0.147 0.090	0.018 0.016	424 424	284 284	1.070 1.131	0.125 0.175	0.110 0.058	0.184 0.121
Unmet need total	0.237	0.020	424	284	0.962	0.084	0.197	0.121
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 Not exposed to any of the eight media sources	0.917 0.295	0.016 0.022	424 835	284 567	1.197 1.377	0.018 0.074	0.885 0.251	0.949 0.338
Not exposed to any of the eight media sources Neonatal mortality (last 0–9 years)	12.551	6.262	830	555	1.580	0.074	0.231	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 35.861	3.456	810 832	542	0.868	0.276 0.191	5.620	19.446 49.584
Under-5 mortality (last 0–9 years) Perinatal mortality rate	25.626	6.862 11.036	433	556 290	1.070 1.463	0.191	22.137 3.554	49.564
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 8+ ANC visits	0.912 0.368	0.025 0.052	167 167	113 113	1.118 1.395	0.027 0.142	0.862 0.263	0.961 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) Delivered by C-section (live births)	0.913 0.212	0.037 0.037	174 174	117 117	1.695 1.107	0.040 0.172	0.839 0.139	0.986 0.286
Women with postnatal check during first 2 days	0.212	0.037	167	113	1.201	0.172	0.139	0.286
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 1 1 1 5	0.000	1.000	1.000
Received BCG vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.986 0.933	0.014 0.027	94 94	62 62	1.145 1.048	0.014 0.029	0.958 0.878	1.014 0.988
Received by 1-1-repb-1 iib vaccination (3 doses)	0.945	0.027	94	62	1.071	0.023	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 86	56 56	1.016	0.054	0.723	0.898
Fully vaccinated according to national schedule (24–35 months) Sought treatment for diarrhoea	0.492 0.365	0.045 0.097	86 34	56 23	0.815 1.110	0.092 0.266	0.402 0.171	0.582 0.560
Treated with ORS	0.360	0.085	34	23	0.968	0.235	0.171	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) Weight-for-age (-2 SD)	0.039 0.110	0.017 0.025	210 212	135 136	1.250 1.071	0.433 0.222	0.005 0.061	0.072 0.159

Table	B.13-	-Continued
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/alue (R) 0.579 0.388 0.401 0.041 0.500 0.041 0.082 0.448 0.301 0.595	Standard error (SE) 0.066 0.043 0.043 0.010 0.040 0.023 0.032 0.038 0.035	Un- weighted (N) 37 126 193 318 318 83 83	Weighted (WN) 25 85 124 218 218 58	Design effect (DEFT) 0.801 0.998 1.161 0.939 1.422	Relative error (SE/R) 0.113 0.112 0.108 0.255 0.080	(R-2SE) 0.447 0.302 0.314 0.020	(R+2SE) 0.710 0.475 0.488
(R) 0.579 0.388 0.401 0.041 0.500 0.041 0.082 0.448 0.301 0.595	(SE) 0.066 0.043 0.043 0.010 0.040 0.023 0.032 0.038	(N) 37 126 193 318 318 83 83	(WN) 25 85 124 218 218	0.801 0.998 1.161 0.939 1.422	(SE/R) 0.113 0.112 0.108 0.255	0.447 0.302 0.314 0.020	0.710 0.475 0.488
0.579 0.388 0.401 0.041 0.500 0.041 0.082 0.448 0.301 0.595	0.066 0.043 0.043 0.010 0.040 0.023 0.032 0.038	37 126 193 318 318 83 83	25 85 124 218 218	0.801 0.998 1.161 0.939 1.422	0.113 0.112 0.108 0.255	0.447 0.302 0.314 0.020	0.710 0.475 0.488
0.388 0.401 0.041 0.500 0.041 0.082 0.448 0.301 0.595	0.043 0.043 0.010 0.040 0.023 0.032 0.038	126 193 318 318 83 83	85 124 218 218	0.998 1.161 0.939 1.422	0.112 0.108 0.255	0.302 0.314 0.020	0.475 0.488
0.401 0.041 0.500 0.041 0.082 0.448 0.301 0.595	0.043 0.010 0.040 0.023 0.032 0.038	193 318 318 83 83	124 218 218	1.161 0.939 1.422	0.108 0.255	0.314 0.020	0.488
).041).500).041).082).448).301).595	0.010 0.040 0.023 0.032 0.038	318 318 83 83	218 218	0.939 1.422	0.255	0.020	
0.500 0.041 0.082 0.448 0.301 0.595	0.040 0.023 0.032 0.038	318 83 83	218	1.422			
0.041 0.082 0.448 0.301 0.595	0.023 0.032 0.038	83 83			0.080		0.062
0.082 0.448 0.301 0.595	0.032 0.038	83	58	1 0 4 4	0.000	0.420	0.580
0.448 0.301 0.595	0.038			1.044	0.560	0.000	0.086
0.301 0.595			58	1.045	0.386	0.019	0.146
0.595	0.035	835	567	2.182	0.084	0.373	0.523
		432	297	1.585	0.116	0.231	0.371
) 561	0.035	436	282	1.390	0.059	0.525	0.666
	0.080	56	37	1.209	0.142	0.402	0.721
0.666	0.038	167	113	1.027	0.056	0.591	0.741
0.093	0.018	415	277	1.271	0.194	0.057	0.130
0.572	0.094	40	26	1.176	0.164	0.384	0.760
							0.941
							0.239
							0.157
							0.771
0.088	0.017	233	159	0.918	0.194	0.054	0.122
150	0.040	005	507	4 004	0.404	0.400	0.404
							0.191
							0.855
							0.821
J.713	0.034	424	284	1.548	0.048	0.644	0.781
172	0.025	935	567	1 013	0.146	0.122	0.222
J. 17 Z	0.023	033	307	1.913	0.140	0.122	0.222
1617	0.032	121	284	1 371	0.053	0.553	0.682
							0.328
							0.320
							0.107
	0.020	021		1.101	0.002	0.020	0.107
150	0.023	284	184	1 065	0.151	0 104	0.195
	0.020	20.			0	0	000
0.183	0.026	284	184	1.135	0.143	0.131	0.235
MEN							
	0.025	324	222	1 667	0.334	0.027	0.125
							0.125
							0.827
							0.706
							0.760
							0.300
							0.715
							0.713
							0.139
							0.153
							0.877
							0.840
	0.001	02.1		1.0 10	0.010	0.7 10	0.010
0.159	0.026	324	222	1.258	0.161	0.108	0.210
	0.802 0.151 0.099 0.705 0.088 0.158 0.158 0.174 0.774 0.172 0.617 0.262 0.067 0.150 0.183 MEN 0.766 0.811 0.761 0.620 0.033 0.237 0.670 0.105 0.996 0.105 0.996 0.841 0.777	0.802 0.069 0.151 0.044 0.099 0.029 0.705 0.033 0.088 0.017 0.158 0.016 0.819 0.018 0.774 0.023 0.713 0.034 0.172 0.025 0.617 0.032 0.667 0.020 0.150 0.023 0.183 0.026 0.150 0.023 0.161 0.033 0.067 0.020 0.150 0.023 0.161 0.033 0.067 0.020 0.150 0.023 0.161 0.033 0.067 0.026 0.170 0.025 0.181 0.031 0.761 0.033 0.062 0.043 0.033 0.009 0.237 0.032 0.670 0.023 0.105 0.017 0.906 0.026 0.841 0.018 0.777 0.031	0.802 0.069 26 0.151 0.044 193 0.099 0.029 193 0.705 0.033 808 0.088 0.017 233 0.158 0.016 835 0.819 0.018 835 0.774 0.023 835 0.713 0.034 424 0.172 0.025 835 0.617 0.032 424 0.262 0.033 327 0.067 0.020 327 0.150 0.023 284 0.183 0.026 284 MEN 0.025 324 0.620 0.043 324 0.633 0.009 324 0.237 0.032 130 0.670 0.023 316 0.620 0.043 324 0.633 0.009 324 0.237 0.032 130 0.670 0.023 316 0.260 0.043 123 0.105 <	0.802 0.069 26 17 0.151 0.044 193 124 0.099 0.029 193 124 0.705 0.033 808 549 0.088 0.017 233 159 0.158 0.016 835 567 0.819 0.018 835 567 0.774 0.023 835 567 0.773 0.034 424 284 0.172 0.025 835 567 0.617 0.032 424 284 0.262 0.033 327 224 0.092 0.023 327 224 0.150 0.023 284 184 0.150 0.023 284 184 0.183 0.026 284 184 0.076 0.023 324 222 0.811 0.033 324 222 0.150 0.043 324 222 0.033 0.009 324 222 0.237 0.032	0.802 0.069 26 17 0.880 0.151 0.044 193 124 1.515 0.099 0.029 193 124 1.159 0.705 0.033 808 549 2.069 0.088 0.017 233 159 0.918 0.158 0.016 835 567 1.301 0.819 0.018 835 567 1.607 0.773 0.034 424 284 1.548 0.172 0.025 835 567 1.913 0.617 0.032 424 284 1.371 0.262 0.033 327 224 1.346 0.092 0.023 327 224 1.457 0.150 0.023 284 184 1.065 0.183 0.026 284 184 1.135 MEN 0.076 0.023 284 184 1.135 MEN 0.076 0.025 324 222 1.667 0.811	0.802 0.069 26 17 0.880 0.086 0.151 0.044 193 124 1.515 0.289 0.099 0.029 193 124 1.159 0.291 0.705 0.033 808 549 2.069 0.047 0.088 0.017 233 159 0.918 0.194 0.158 0.016 835 567 1.301 0.104 0.819 0.018 835 567 1.607 0.030 0.774 0.023 835 567 1.607 0.030 0.773 0.034 424 284 1.548 0.048 0.172 0.025 835 567 1.913 0.146 0.617 0.032 424 284 1.371 0.053 0.620 0.033 327 224 1.346 0.125 0.092 0.023 327 224 1.457 0.302 0.150 0.023 284 184 1.065 0.151 0.183 0.026 2	0.802 0.069 26 17 0.880 0.086 0.664 0.151 0.044 193 124 1.515 0.289 0.064 0.099 0.029 193 124 1.159 0.291 0.041 0.705 0.033 808 549 2.069 0.047 0.638 0.088 0.017 233 159 0.918 0.194 0.054 0.158 0.016 835 567 1.301 0.104 0.126 0.819 0.018 835 567 1.352 0.022 0.783 0.774 0.023 835 567 1.607 0.030 0.727 0.713 0.034 424 284 1.548 0.048 0.644 0.172 0.025 835 567 1.913 0.146 0.122 0.617 0.032 424 284 1.371 0.053 0.553 0.262 0.033 327 224 1.426 0.249 0.046 0.067 0.020 327 224

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).

na = not applicable

				of cases			Confider	nce limits
	Value	Standard	Un-	Maightad	Design	Relative		
/ariable	(R)	error (SE)	(N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SI
		POPULATI		(****)	(DLI I)	(OL/IT)	(IT ZOZ)	(11120
rimary reliance on clean fuels and technology for cooking, space heating,		. 0. 02						
and lighting	0.074	0.015	4,362	2,831	1.995	0.197	0.045	0.10
Births registered with civil authority	0.827	0.024	657	426	1.354	0.030	0.778	0.87
Ownership of at least one ITN	0.752	0.019	1,054	693	1.422	0.025	0.714	0.78
Ownership of at least one ITN for every two persons At least basic drinking water service	0.507 0.783	0.024 0.054	1,051 4,362	691 2,831	1.545 3.290	0.047 0.069	0.460 0.675	0.55 0.89
Vater available when needed	0.763	0.034	4,362	2,831	1.767	0.009	0.804	0.89
At least basic sanitation service	0.186	0.030	4,362	2,831	2.092	0.163	0.125	0.24
Jsing open defecation	0.440	0.069	4,362	2,831	3.611	0.156	0.303	0.57
Jsing a handwashing facility with soap and water	0.325	0.028	4,285	2,784	1.588	0.088	0.268	0.38
	WOME		07.4	070	0.007	0.440	0.400	0.00
lo education econdary education or higher	0.240 0.578	0.028 0.036	974 974	676 676	2.067 2.256	0.118 0.062	0.183 0.507	0.29 0.65
iteracy	0.449	0.030	974	676	1.954	0.062	0.387	0.51
Jse of the internet in last 12 months	0.305	0.031	974	676	2.072	0.100	0.244	0.36
Current tobacco use	0.005	0.002	974	676	1.120	0.521	0.000	0.01
otal fertility rate (3 years) Currently pregnant	4.715 0.062	0.303 0.009	2,740 974	1,906 676	1.322 1.160	0.064 0.145	4.110 0.044	5.32 0.08
Mean number of children ever born to women age 40–49	4.894	0.009	174	121	1.766	0.145	4.261	5.52
Median birth interval	39.882	1.588	505	344	1.366	0.040	36.706	43.05
deal number of children	4.876	0.138	968	671	2.128	0.028	4.600	5.15
otal wanted fertility rate (3 years)	4.268	0.279	2,740	1,906	1.302	0.065	3.709	4.82
Currently using any contraceptive method Currently using any modern method	0.221 0.207	0.027 0.026	548 548	376 376	1.500 1.505	0.120 0.126	0.168 0.155	0.27 0.25
Currently using pill	0.207	0.020	548	376	1.252	0.120	0.133	0.06
Currently using injectables	0.070	0.012	548	376	1.063	0.165	0.047	0.09
Currently using implants	0.062	0.013	548	376	1.289	0.215	0.035	0.08
Currently using male condoms	0.005 0.014	0.003 0.006	548 548	376 376	1.088 1.087	0.691 0.384	0.000 0.003	0.01 0.02
Currently using any traditional method Jnmet need for spacing	0.014	0.000	548	376	1.121	0.364	0.003	0.02
Inmet need for limiting	0.114	0.016	548	376	1.157	0.138	0.082	0.14
Inmet need total	0.296	0.024	548	376	1.216	0.080	0.249	0.34
Demand satisfied by modern methods	0.400	0.042	283	194	1.444	0.105	0.315	0.48
Demand satisfied by modern methods (all women) Participation in decision making about family planning	0.423 0.771	0.031 0.042	409 548	282 376	1.281 2.331	0.074 0.054	0.360 0.687	0.48 0.85
Not exposed to any of the eight media sources	0.455	0.042	974	676	2.426	0.034	0.007	0.53
Neonatal mortality (last 0–9 years)	24.375	4.790	1,220	833	1.049	0.197	14.795	33.95
Postneonatal mortality (last 0–9 years)	12.087	2.526	1,225	836	0.815	0.209	7.034	17.13
nfant mortality (last 0–9 years)	36.461	6.387	1,221	834	1.141	0.175	23.688	49.23
Child mortality (last 0–9 years) Jnder-5 mortality (last 0–9 years)	11.695 47.729	3.140 7.335	1,221 1,227	832 837	0.951 1.160	0.268 0.154	5.415 33.059	17.97 62.40
Perinatal mortality (last 6 6 years)	23.322	6.293	665	456	1.038	0.270	10.737	35.90
Stillbirth rate	8.036	3.689	665	456	0.941	0.459	0.659	15.41
Early neonatal mortality rate	15.410	5.038	659	452	1.057	0.327	5.334	25.48
Received ANC from a skilled provider H ANC visits	0.992 0.856	0.006 0.028	278 278	191 191	1.014 1.331	0.006 0.033	0.980 0.799	1.00 0.91
+ ANC visits	0.337	0.028	278	191	1.334	0.033	0.799	0.91
ook any iron-containing supplements	0.866	0.032	278	191	1.548	0.037	0.803	0.93
Nothers protected against tetanus for last birth	0.631	0.055	278	191	1.891	0.087	0.521	0.74
Delivered in a health facility (live births)	0.862	0.034	294	202	1.665	0.039	0.794	0.92
Delivered by a skilled provider (live births) Delivered by C-section (live births)	0.876 0.228	0.030 0.030	294 294	202 202	1.555 1.167	0.034 0.130	0.815 0.169	0.93 0.28
Vomen with postnatal check during first 2 days	0.856	0.030	278	191	1.380	0.130	0.797	0.20
lewborns with postnatal check during first 2 days	0.869	0.031	278	191	1.521	0.036	0.808	0.93
ny problem accessing health care	0.590	0.044	974	676	2.798	0.075	0.501	0.67
ever had vaccination card Received BCG vaccination	0.987 0.977	0.009 0.012	154 154	106 106	0.973 1.001	0.009 0.013	0.969 0.952	1.00 1.00
Received DPT-HepB-Hib vaccination (3 doses)	0.897	0.012	154	106	0.997	0.013	0.952	0.94
Received pneumococcal vaccination (3 doses)	0.904	0.026	154	106	1.071	0.028	0.853	0.95
Received measles and rubella 1 vaccination	0.919	0.025	154	106	1.146	0.028	0.868	0.96
fully vaccinated according to national schedule (12–23 months)	0.555	0.045	154	106	1.096	0.081	0.465	0.64
Received measles and rubella 2 vaccination Fully vaccinated according to national schedule (24–35 months)	0.711 0.417	0.045 0.053	111 111	77 77	1.021 1.104	0.063 0.127	0.620 0.312	0.80 0.52
ought treatment for diarrhoea	0.417	0.053	99	67	1.104	0.127	0.312	0.60
reated with ORS	0.399	0.059	99	67	1.152	0.149	0.280	0.51
Height-for-age (−3 SD)	0.026	0.011	323	208	1.170	0.444	0.003	0.04
Height-for-age (-2 SD)	0.139	0.020	323	208	0.951	0.145	0.098	0.17
Veight-for-height (-2 SD) Veight-for-height (+2 SD)	0.051 0.009	0.014	322 322	207 207	1.105 n.979	0.275	0.023	0.07 0.01
veight-for-neight (+2 SD) Veight-for-age (−2 SD)	0.009	0.005 0.020	323	207	0.979 1.060	0.586 0.176	0.000 0.072	0.0

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			Number	of cases			Confidence limits	
	Stand	Standard			Design	Relative		
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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)	0.030	0.003	202	137	1.356	0.030	0.330	0.763
Prevalence of anaemia (children 6–59 months) (haemoglobin <11.0 g/dl)	0.522	0.043	287	185	1.336	0.133	0.429	0.599
Body mass index (BMI) <18.5	0.057	0.042	344	239	0.920	0.202	0.423	0.080
Body mass index (BMI) ≥25.0	0.398	0.028	344	239	1.069	0.202	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	0.003	0.113
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	0.023	474	327	1.218	0.068	0.348	0.418
Child slept under an ITN last night	0.629	0.027	662	429	1.159	0.005	0.572	0.430
Pregnant women slept under an ITN last night	0.634	0.020	62	40	1.110	0.043	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	0.032	636	437	1.186	0.030	0.102	0.170
Child had blood taken from finger/heel	0.130	0.017	87	59	1.207	0.126	0.102	0.669
Child took ACT	0.869	0.007	45	32	1.434	0.120	0.726	1.012
Child has malaria (based on rapid test)	0.809	0.071	287	185	1.022	0.002	0.720	0.276
Child has malaria (based on microscopy test)	0.221	0.028	287	185	0.958	0.125	0.103	0.276
	0.724	0.022	871	613	2.096	0.163	0.660	0.787
Discriminatory attitudes towards people with HIV			222			0.044		
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	0.400	0.012	974	676	1 105	0.400	0.007	0.147
test	0.122			676	1.185	0.102	0.097	
Mobile phone ownership	0.753	0.020 0.033	974 974	676	1.441	0.026	0.713	0.793
Have and use a bank account or mobile phone for financial transactions	0.613			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	0.190	0.042	974	676	3.360	0.224	0.105	0.275
beating	0.190	0.042	974	676	3.300	0.224	0.105	0.275
Make own decisions about sexual relations, contraceptive use, and	0.509	0.035	548	376	1.645	0.069	0.420	0.579
reproductive care							0.438	
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	0.400	0.004	247	004	4 4 4 0	0.445	0.440	0.044
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	0.040	0.000	247	004	4 047	0.400	0.400	0.040
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
Deathly	0.100	0.024	401	310	1.000	0.231	0.002	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).

	Value	Standard		of cases				nce limits
HOUSEH			Un-		Design	Relative		
HOUSEH		error		Weighted	effect	error		
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	OLDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.047	0.000	4.470	4.007	4 500	0.400	0.000	0.005
and lighting Births registered with civil authority	0.047 0.605	0.009 0.042	4,470 634	1,937 281	1.520 1.850	0.196 0.069	0.029 0.521	0.065 0.688
Ownership of at least one ITN	0.851	0.042	1,048	444	1.355	0.003	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
Nater available when needed	0.688	0.045	4,470	1,937	2.510	0.065	0.599	0.778
At least basic sanitation service Jsing open defecation	0.139 0.506	0.021 0.061	4,470 4,470	1,937 1,937	1.647 3.277	0.153 0.120	0.097 0.384	0.182 0.627
Jsing a handwashing facility with soap and water	0.264	0.042	4,464	1,935	2.611	0.160	0.180	0.349
	WOME	N						
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
Jse of the internet in last 12 months Current tobacco use	0.178 0.001	0.020 0.001	921 921	403 403	1.563 1.010	0.111 1.006	0.138 0.000	0.217 0.003
Fotal 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
deal number of children Fotal wanted fertility rate (3 years)	5.157 4.634	0.155 0.219	888 2,548	386 1,122	2.276 1.024	0.030 0.047	4.847 4.196	5.468 5.072
Currently using any contraceptive method	0.320	0.219	2,346 547	248	1.448	0.047	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 Currently using male condoms	0.070 0.008	0.015 0.004	547 547	248 248	1.392 0.991	0.218 0.467	0.039 0.001	0.100 0.016
Currently using male condoms Currently using any traditional method	0.005	0.004	547	248	1.111	0.407	0.001	0.010
Jnmet need for spacing	0.186	0.021	547	248	1.256	0.112	0.144	0.228
Jnmet 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 Demand satisfied by modern methods (all women)	0.494 0.496	0.038 0.031	319 438	143 192	1.352 1.309	0.077 0.063	0.417 0.433	0.570 0.558
Participation in decision making about family planning	0.430	0.023	547	248	1.367	0.003	0.433	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
nfant mortality (last 0–9 years) Child mortality (last 0–9 years)	44.346 29.446	5.991 5.373	1,212 1,193	559 550	0.989 1.004	0.135 0.182	32.364 18.701	56.328 40.192
Jnder-5 mortality (last 0–9 years)	72.487	6.898	1,133	564	0.895	0.102	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 4+ ANC visits	0.974 0.757	0.010 0.047	269 269	123 123	1.073 1.793	0.011 0.062	0.954 0.662	0.995 0.851
B+ ANC visits	0.249	0.038	269	123	1.445	0.153	0.173	0.326
Γοοk 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) Delivered by C-section (live births)	0.703 0.121	0.042 0.022	281 281	128 128	1.520 1.086	0.060 0.181	0.618 0.077	0.787 0.164
Nomen with postnatal check during first 2 days	0.768	0.022	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 Received DPT-HepB-Hib vaccination (3 doses)	0.949 0.915	0.019 0.033	124 124	56 56	0.979 1.314	0.020 0.036	0.910 0.849	0.988 0.981
Received pneumococcal vaccination (3 doses)	0.884	0.035	124	56	1.220	0.030	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) Sought treatment for diarrhoea	0.492 0.691	0.063 0.059	99 90	48 40	1.288 1.121	0.127 0.085	0.366 0.574	0.617 0.808
Freated with ORS	0.400	0.059	90	40	0.851	0.065	0.374	0.606
Height-for-age (-3 SD)	0.400	0.043	300	134	1.148	0.348	0.010	0.456
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) Weight-for-age (−2 SD)	0.003 0.155	0.003 0.032	299 300	134 134	0.945 1.502	0.998 0.205	0.000 0.092	0.009 0.219

			Number	of cases			Confide	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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)	0.010	0.015	91	37	1.032	0.334	0.000	0.030
		0.033	921	403	2.221	0.233		0.187
Minimum dietary diversity (women 15–49)	0.408						0.336	
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	0.000	0.011	000	110	1.000	0.200	0.001	0.000
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	0.200	0.024	000	100	0.570	0.007	0.201	0.230
intimate partner in the past 12 months	0.323	0.038	300	130	1.404	0.118	0.247	0.400
mamate parties in the past 12 months		0.000	000	100	1.404	0.110	0.241	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	0.215	0.024	402	193	1 217	0.020	0.768	0.863

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).

0.815

0.164

0.058

0.909

0.836

0.733

0.191

Discriminatory attitudes towards people with HIV

Ever tested for HIV and received results of last test

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

Condom use at last sex

Mobile phone ownership

Male circumcision

0.024

0.042

0.011

0.030

0.020

0.019

0.027

402

151

411

411

411

411

411

183

65

187

187

187

187

187

1.217

1.371

0.971

2.138 1.078

0.869

1.377

0.029

0.253

0.193

0.033

0.024 0.026

0.140

0.155 0.768

0.081

0.036

0.848

0.796 0.696

0.137

0.314 0.862

0.247

0.080

0.970

0.875

0.771

0.244

			Number	of cases			Confide	nce limits
	Value	Standard	Un-	\\\\aimbtod	Design	Relative		
Variable	Value (R)	error (SE)	(N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SE
		POPULATI		(****)	(52. 1)	(02,11)	(202)	(202
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 Ownership of at least one ITN for every two persons	0.676 0.371	0.029 0.026	1,137 1,134	1,064 1,061	2.078 1.792	0.043 0.069	0.618 0.319	0.734 0.422
At least basic drinking water service	0.644	0.020	5,830	5,493	2.845	0.003	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 Using a handwashing facility with soap and water	0.706 0.198	0.037 0.029	5,830 5,771	5,493 5,450	2.437 2.086	0.053 0.144	0.631 0.141	0.781 0.256
Joing a Haridwashing facility with Soap and water	WOME		3,771	3,430	2.000	0.144	0.141	0.230
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 5.556	0.008 0.323	1,169 3,341	1,149 3,276	1.801 1.370	0.361 0.058	0.006 4.910	0.036 6.201
Fotal fertility rate (3 years) Currently pregnant	0.096	0.323	1,169	3,276 1,149	1.370	0.056	0.074	0.201
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
deal 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) Currently using any contraceptive method	5.056 0.246	0.273 0.026	3,341 893	3,276 870	1.330 1.768	0.054 0.104	4.510 0.195	5.602 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 Currently using male condoms	0.044 0.013	0.009 0.003	893 893	870 870	1.282 0.811	0.199 0.239	0.027 0.007	0.062 0.019
Currently using any traditional method	0.074	0.003	893	870	2.177	0.258	0.036	0.013
Jnmet need for spacing	0.160	0.015	893	870	1.225	0.094	0.130	0.190
Jnmet need for limiting	0.063	0.011	893	870	1.348	0.174	0.041	0.085
Jnmet need total	0.223 0.366	0.018 0.026	893 415	870 408	1.312 1.113	0.082 0.072	0.186 0.314	0.259 0.419
Demand satisfied by modern methods Demand satisfied by modern methods (all women)	0.379	0.020	512	503	1.113	0.072	0.314	0.419
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) nfant mortality (last 0–9 years)	10.034 25.424	2.941 4.793	1,856 1,864	1,812 1,820	1.218 1.178	0.293 0.189	4.152 15.837	15.917 35.010
Child mortality (last 0–9 years)	26.817	5.495	1,825	1,781	1.378	0.205	15.828	37.806
Jnder-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 Early neonatal mortality rate	22.039 11.664	5.083 3.370	991 970	969 948	1.101 0.977	0.231 0.289	11.874 4.924	32.204 18.403
Received ANC from a skilled provider	0.964	0.016	408	395	1.702	0.203	0.932	0.995
4+ ANC visits	0.808	0.045	408	395	2.319	0.056	0.717	0.899
B+ ANC visits	0.277	0.049	408	395	2.194	0.177	0.179	0.375
Fook 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 Delivered in a health facility (live births)	0.667 0.703	0.037 0.058	408 420	395 406	1.595 2.513	0.056 0.082	0.592 0.588	0.742 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
Nomen 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 Any problem accessing health care	0.730 0.654	0.046 0.042	408 1,169	395 1,149	2.083 2.989	0.063 0.064	0.638 0.571	0.822 0.738
Any problem accessing nealth care Ever had vaccination card	0.654	0.042	208	200	2.989 1.503	0.064	0.571	0.738
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 Fully vaccinated according to national schedule (12–23 months)	0.726 0.312	0.044 0.041	208 208	200 200	1.391 1.258	0.060 0.132	0.638 0.230	0.813 0.394
Received measles and rubella 2 vaccination	0.565	0.041	171	168	1.076	0.132	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
Freated with ORS	0.481	0.070	167 503	173 477	1.753	0.145	0.342	0.620
Height-for-age (−3 SD) Height-for-age (−2 SD)	0.088 0.296	0.015 0.025	503 503	477 477	1.064 1.174	0.165 0.083	0.059 0.247	0.117 0.345
Weight-for-height (−2 SD)	0.230	0.023	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
Veight-for-age (−2 SD)	0.199	0.022	503	477	1.151	0.109	0.155	0.242

Table B.16—Continued								
				of cases			Confide	nce limits
	Value	Standard error	Un-	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
	` ′	` ′		84		0.070		0.834
Exclusive breastfeeding Minimum dietary diversity (children 6–23 months)	0.732 0.402	0.051 0.040	88 310	302	1.073 1.422	0.070	0.630 0.322	0.634
Prevalence of anaemia (children 6–59 months) (haemoglobin <11.0 g/dl)	0.694	0.024	452	430	1.062	0.035	0.645	0.742
Body mass index (BMI) <18.5	0.034	0.019	435	428	1.372	0.212	0.051	0.126
Body mass index (BMI) ≥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 Tested for HIV in the past 12 months and received the results of the last	0.156	0.035	124	124	1.082	0.227	0.085	0.226
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
Vant 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	0.32
Ever tested for HIV and received results of last test	0.031	0.010	491	484	1.235	0.310	0.012	0.05
Male circumcision	0.806	0.046	491	484	2.546	0.057	0.715	0.89
Mobile phone ownership	0.836	0.023	491	484	1.374	0.027	0.790	0.88
Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife	0.685	0.033	491	484	1.577	0.048	0.619	0.75

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).

0.033

0.374

491

484

1.504

0.088

0.308

0.440

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

			Number	of cases			Confide	nce limits
		Standard	Un-	of cases	Design	Relative	Confider	ICE IIIIIIS
	Value	error		Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHO	LDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.005	0.004	5.450	4.500	4.450	0.404	0.047	0.000
and lighting Births registered with civil authority	0.025 0.651	0.004 0.034	5,153 838	1,586 255	1.150 1.683	0.161 0.053	0.017 0.582	0.033 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 Water available when needed	0.542 0.774	0.082 0.028	5,153 5,153	1,586 1,586	4.395 1.774	0.151 0.036	0.378 0.719	0.705 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
	WOME							
No education Secondary education or higher	0.469 0.318	0.048 0.040	999 999	319 319	3.028 2.675	0.102 0.124	0.373 0.239	0.565 0.398
Literacy	0.316	0.040	999	319	2.520	0.124	0.239	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) Currently pregnant	5.829 0.099	0.357 0.015	2,784 999	881 319	1.571 1.541	0.061 0.147	5.115 0.070	6.543 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 Total wanted fertility rate (3 years)	6.340 5.403	0.193 0.307	990 2,784	316 881	2.358 1.527	0.030 0.057	5.954 4.789	6.726 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 Currently using injectables	0.038 0.057	0.011 0.012	672 672	218 218	1.453 1.372	0.284 0.216	0.016 0.032	0.059 0.082
Currently using implants	0.037	0.012	672	218	1.302	0.210	0.052	0.002
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	672 672	218 218	1.437	0.262	0.020	0.065
Unmet need for spacing Unmet need for limiting	0.170 0.044	0.023 0.011	672	218	1.559 1.409	0.133 0.254	0.125 0.022	0.216 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) Participation in decision making about family planning	0.437 0.756	0.047 0.048	410 672	121 218	1.857 2.863	0.108 0.063	0.342 0.660	0.532 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 46.080	2.917 5.522	1,480 1,481	483 485	0.873 0.983	0.212 0.120	7.946 35.037	19.614 57.123
Infant mortality (last 0–9 years) Child mortality (last 0–9 years)	17.546	4.997	1,435	470	1.254	0.120	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 Early neonatal mortality rate	13.814 23.441	4.849 5.833	812 797	262 258	1.120 0.923	0.351 0.249	4.116 11.775	23.512 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 Took any iron-containing supplements	0.194 0.812	0.028 0.031	324 324	105 105	1.273 1.432	0.144 0.038	0.138 0.750	0.250 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) Delivered by C-section (live births)	0.720 0.070	0.040 0.016	340 340	111 111	1.615 1.125	0.056 0.231	0.639 0.038	0.800 0.102
Women with postnatal check during first 2 days	0.070	0.010	324	105	1.123	0.231	0.036	0.102
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 Received BCG vaccination	0.988 0.949	0.012 0.025	155 155	50 50	1.366 1.398	0.012 0.026	0.965 0.900	1.012 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 Fully vaccinated according to national schedule (12–23 months)	0.864 0.418	0.037 0.059	155 155	50 50	1.357 1.461	0.043 0.140	0.790 0.301	0.939 0.536
Received measles and rubella 2 vaccination	0.662	0.058	163	52	1.550	0.140	0.546	0.330
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 Treated with ORS	0.594	0.046	162 162	54 54	1.193	0.078	0.501	0.686
Treated with ORS Height-for-age (-3 SD)	0.327 0.044	0.061 0.012	162 423	54 128	1.637 1.130	0.188 0.276	0.204 0.020	0.450 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) Weight-for-height (+2 SD)	0.044	0.009	425	128	0.925	0.213	0.025	0.062
	0.021	0.006	425	128	0.944	0.311	0.008	0.034

Table	B.17—Cor	ntinued
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			Number	of cases			Confider	nce limits
		Standard	Un-		Design	Relative		
	Value	error	weighted	Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.000	0.040	000	240	4.070	0.470	0.000	0.004
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	0.570	0.043	999	319	2.004	0.076	0.400	0.000
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	0.030	371	123	1.605	0.096	0.346	0.512
Experienced sexual violence by any perpetrator ever	0.423	0.026	371	123	1.263	0.030	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	0.000	0.017	07 1	120	1.200	0.201	0.002	0.000
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	0.011	0.000	001	101	1.000	0.100	0.200	0.110
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 0.592	0.035	490 490	155	1.902 1.499	0.044	0.721	0.861
Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife	0.392	0.033	490	155	1.499	0.056	0.525	0.659
beating	0.432	0.047	490	155	2.078	0.108	0.338	0.525
	0.402	0.047	430	100	2.010	0.100	0.000	0.020

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

			Number	of cases			Confider	nce limits
		Standard	Un-	of cases	Design	Relative	Confider	ICE IIIIIIS
	Value	error		Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHC	DLDS AND	POPULATI	ON					
Primary reliance on clean fuels and technology for cooking, space heating,	0.000	0.000	F 550	4.550	4.050	0.000	0.044	0.005
and lighting Births registered with civil authority	0.023 0.741	0.006 0.045	5,558 1,041	1,552 296	1.356 2.581	0.262 0.060	0.011 0.651	0.035 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 Water available when needed	0.434 0.738	0.044 0.032	5,558 5,558	1,552 1,552	2.500 2.043	0.102 0.044	0.345 0.674	0.522 0.802
At least basic sanitation service	0.736	0.032	5,558	1,552	2.043	0.209	0.074	0.002
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
	WOME	N						
No education	0.551	0.038	963	290	2.382	0.070	0.474	0.627
Secondary education or higher Literacy	0.332 0.272	0.031 0.027	963 963	290 290	2.056 1.892	0.094 0.100	0.270 0.218	0.395 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) Currently pregnant	6.639 0.106	0.344 0.012	2,697 963	812 290	1.478 1.212	0.052 0.113	5.950 0.082	7.328 0.130
Mean number of children ever born to women age 40–49	6.291	0.012	145	45	1.393	0.113	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) Currently using any contraceptive method	6.509 0.171	0.341 0.023	2,697 744	812 229	1.512 1.667	0.052 0.135	5.827 0.125	7.191 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 0.052	0.010	744 744	229 229	1.232	0.185	0.036	0.077 0.074
Currently using implants Currently using male condoms	0.052	0.011 0.002	744 744	229	1.387 0.924	0.218 0.598	0.029 0.000	0.074
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 Unmet need total	0.050 0.225	0.007 0.019	744 744	229 229	0.919 1.207	0.147 0.082	0.035 0.188	0.065 0.262
Demand satisfied by modern methods	0.223	0.015	311	91	1.243	0.002	0.307	0.202
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 Neonatal mortality (last 0–9 years)	0.520 10.570	0.049 2.555	963 1,560	290 488	3.041 0.968	0.095 0.242	0.422 5.459	0.619 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) Under-5 mortality (last 0–9 years)	20.738 40.516	4.227 5.027	1,507 1,574	474 493	1.023 0.947	0.204 0.124	12.284 30.462	29.192 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 4+ ANC visits	0.955 0.835	0.016 0.031	365 365	112 112	1.422 1.596	0.016 0.037	0.924 0.773	0.986 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 Delivered in a health facility (live births)	0.457 0.844	0.039 0.026	365 379	112 116	1.488 1.398	0.085 0.031	0.379 0.791	0.535 0.897
Delivered by a skilled provider (live births)	0.852	0.026	379	116	1.393	0.031	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 Any problem accessing health care	0.841 0.657	0.028 0.040	365 963	112 290	1.469 2.618	0.034 0.061	0.785 0.576	0.897 0.737
Ever had vaccination card	0.037	0.040	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) Received pneumococcal vaccination (3 doses)	0.899 0.892	0.028 0.028	179 179	53 53	1.215 1.190	0.031 0.031	0.843 0.836	0.954 0.948
Received measles and rubella 1 vaccination	0.872	0.028	179	53	1.190	0.031	0.636	0.948
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) Sought treatment for diarrhoea	0.393 0.591	0.049 0.047	176 155	56 48	1.291 1.090	0.124 0.079	0.296 0.497	0.490 0.684
Treated with ORS	0.324	0.047	155	46 48	1.090	0.079	0.497	0.664
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) Weight-for-height (+2 SD)	0.068 0.008	0.010 0.004	523 523	148 148	0.993 0.952	0.153 0.455	0.047 0.001	0.089 0.015
Weight-for-age (−2 SD)	0.008	0.004	523 525	148	1.307	0.455	0.001	0.015

			Number	of cases			Confide	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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 g/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) ≥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	0.215	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	0.013	0.020	0.369
Tested for HIV in the past 12 months and received the results of the last	0.200	0.000	33	20	1.221	0.210	0.101	0.000
test	0.122	0.013	963	290	1.248	0.108	0.095	0.148
Mobile phone ownership	0.634	0.013	963	290	1.431	0.100	0.590	0.679
Have and use a bank account or mobile phone for financial transactions	0.438	0.022	963	290	2.390	0.033	0.362	0.515
Participate in decision making (all three decisions)	0.436	0.035	744	229	1.942	0.087	0.354	0.496
Agree with at least one specified reason a husband is justified in wife	0.425	0.033	744	229	1.942	0.063	0.334	0.490
beating	0.344	0.037	963	290	2.429	0.108	0.269	0.418
	0.544	0.037	903	290	2.423	0.100	0.209	0.410
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
·	0.237	0.036	343	100	1.919	0.127	0.213	0.336
Experienced physical violence since age 15 by any perpetrator	0.237	0.044	343	100	1.184	0.167	0.146	0.323
Experienced sexual violence by any perpetrator ever								
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	0.465	0.020	216	00	1 050	0.007	0.007	0.040
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	0.050	0.040	040	00	4 740	0.400	0.470	0.040
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
Jse 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
Nant 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 lest say	0 200	0.070	76	22	1 202	0.202	0.330	0.546

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).

0.388

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Condom use at last sex

Mobile phone ownership

Male circumcision

Ever tested for HIV and received results of last test

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

0.230 0.023

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			Number	of cases			Confide	nce limits
		Standard	Un-	M	Design	Relative		
/ariable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	(R-2SE)	(R+2SE
	` ′	POPULATI	` '	(****)	(DLI I)	(OL/IT)	(ITZGE)	(11.20)
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 At least basic drinking water service	0.542 0.851	0.025 0.030	1,069 4,660	653 2,904	1.607 2.335	0.045 0.035	0.493 0.791	0.591 0.910
Nater available when needed	0.860	0.036	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
Jsing open defecation	0.713	0.040	4,660	2,904	2.590	0.057	0.632	0.794
Jsing a handwashing facility with soap and water	0.324	0.038	4,537	2,836	2.353	0.118	0.248	0.401
	WOME							
No education Secondary education or higher	0.259 0.568	0.024 0.030	987 987	640 640	1.708 1.923	0.092 0.054	0.211 0.507	0.306 0.628
econdary education of higher	0.552	0.030	987	640	1.765	0.054	0.307	0.628
Jse 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
otal fertility rate (3 years)	4.598	0.262	2,781	1,804	1.357	0.057	4.074	5.12
Currently pregnant	0.067	0.009	987 176	640	1.147	0.136	0.049	0.086
Mean number of children ever born to women age 40–49 Median birth interval	4.962 42.975	0.230 0.833	176 433	115 280	1.452 1.124	0.046 0.019	4.502 41.309	5.42° 44.642
deal number of children	5.175	0.033	962	624	2.482	0.019	4.837	5.513
otal 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	0.40
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 Currently using male condoms	0.166 0.010	0.020 0.004	642 642	426 426	1.327 0.940	0.118 0.362	0.127 0.003	0.20 0.018
Currently using male condoms Currently using any traditional method	0.046	0.004	642	426	1.380	0.302	0.003	0.069
Inmet need for spacing	0.133	0.017	642	426	1.234	0.125	0.100	0.166
Inmet need for limiting	0.046	0.010	642	426	1.177	0.211	0.027	0.066
Inmet 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) Participation in decision making about family planning	0.558 0.900	0.022 0.020	439 642	283 426	0.911 1.725	0.039 0.023	0.515 0.859	0.602 0.94
lot exposed to any of the eight media sources	0.350	0.020	987	640	2.543	0.023	0.033	0.42
leonatal 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
nfant mortality (last 0–9 years)	36.359	6.683	1,115	735	0.978	0.184	22.993	49.72
child mortality (last 0–9 years)	13.298	4.134	1,035	681	1.111	0.311	5.029	21.56
Inder-5 mortality (last 0–9 years)	49.173	9.520	1,117	736	1.194	0.194	30.134	68.212 31.238
Perinatal mortality rate Stillbirth rate	19.960 8.212	5.639 3.383	643 643	420 420	1.039 0.963	0.283 0.412	8.681 1.446	14.978
arly neonatal mortality rate	11.843	4.656	638	416	1.094	0.393	2.531	21.15
Received ANC from a skilled provider	0.990	0.007	279	191	1.210	0.007	0.975	1.004
+ ANC visits	0.948	0.015	279	191	1.151	0.016	0.917	0.978
+ ANC visits	0.420	0.038	279	191	1.288	0.091	0.343	0.496
ook any iron-containing supplements	0.881	0.035	279	191	1.769	0.039	0.811	0.950
Nothers protected against tetanus for last birth Delivered in a health facility (live births)	0.751 0.974	0.057 0.011	279 287	191 196	2.173 1.163	0.076 0.011	0.638 0.953	0.869 0.996
Delivered by a skilled provider (live births)	0.980	0.009	287	196	1.052	0.011	0.963	0.99
Delivered by a skilled provider (live births)	0.207	0.003	287	196	0.871	0.104	0.363	0.250
Vomen with postnatal check during first 2 days	0.967	0.012	279	191	1.108	0.012	0.944	0.99
lewborns with postnatal check during first 2 days	0.955	0.014	279	191	1.155	0.015	0.926	0.98
ny problem accessing health care	0.505	0.053	987	640	3.298	0.105	0.399	0.61
ver had vaccination card	0.982	0.013	126 126	87 87	1.106	0.013	0.956	1.00
leceived BCG vaccination leceived DPT-HepB-Hib vaccination (3 doses)	0.936 0.846	0.020 0.029	126 126	87 87	0.951 0.933	0.022 0.035	0.896 0.788	0.97
Received pheumococcal vaccination (3 doses)	0.834	0.029	126	87	0.935	0.035	0.775	0.89
Received measles and rubella 1 vaccination	0.922	0.023	126	87	0.966	0.024	0.877	0.96
ully vaccinated according to national schedule (12–23 months)	0.554	0.058	126	87	1.332	0.104	0.439	0.67
Received measles and rubella 2 vaccination	0.748	0.047	111	74	1.111	0.063	0.654	0.84
fully vaccinated according to national schedule (24–35 months)	0.398	0.062	111	74	1.313	0.155	0.275	0.52
lought treatment for diarrhoea	0.561	0.052	63 63	37 37	0.732	0.092	0.458	0.66 0.68
reated with ORS leight-for-age (-3 SD)	0.566 0.049	0.061 0.017	63 339	37 212	0.852 1.264	0.109 0.347	0.443 0.015	0.08
leight-for-age (-3 SD)	0.049	0.017	339	212	1.204	0.347	0.015	0.06
Veight-for-height (−2 SD)	0.032	0.027	340	213	1.076	0.123	0.130	0.25
Veight-for-height (+2 SD)	0.023	0.012	340	213	1.460	0.503	0.000	0.04
Veight-for-age (−2 SD)	0.127	0.019	340	213	1.037	0.151	0.089	0.16

			Number	of cases			Confide	nce limits
Variable	Value (R)	Standard error (SE)	Un- weighted (N)	Weighted (WN)	Design effect (DEFT)	Relative error (SE/R)	(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	0.033	0.033	383	256	0.942	0.164	0.027	0.106
Body mass index (BMI) ≥15.0	0.000	0.013	383	256	1.278	0.104	0.033	0.340
Body mass index (bM) =20.0 Body mass index-for-age (−2 SD)	0.050	0.023	84	51	0.995	0.103	0.002	0.097
Body mass index-for-age (+1 SD)	0.030	0.024	84	51	0.905	0.358	0.002	0.037
Minimum dietary diversity (women 15–49)	0.681	0.020	987	640	2.284	0.050	0.613	0.749
	0.470	0.034	501	331	1.371	0.030	0.409	0.749
Prevalence of any anaemia (women 15–49)	0.470	0.031	679	423	1.081	0.065	0.409	0.531
Child slept under an ITN last night			65					0.676
Pregnant women slept under an ITN last night	0.664	0.065		41	1.121	0.098	0.534	
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 Tested for HIV in the past 12 months and received the results of the last	0.266	0.045	141	84	1.213	0.171	0.175	0.357
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) Agree with at least one specified reason a husband is justified in wife	0.633	0.039	642	426	2.064	0.062	0.554	0.711
beating	0.212	0.035	987	640	2.710	0.167	0.141	0.283
Make own decisions about sexual relations, contraceptive use, and	0.505	0.000	0.40	400	4.400	0.040	0.404	0.500
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 Experienced physical/sexual violence by the current or most recent	0.045	0.015	377	245	1.350	0.320	0.016	0.074
husband or intimate partner ever Experienced emotional/physical/sexual violence by any husband or	0.194	0.028	330	208	1.273	0.143	0.138	0.249
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
Mant no more children	0.164	0.045	200	127	1 7/12	0.275	0.074	0.254

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).

0.164

0.614

0.478

0.093

0.887

0.823

0.794

0.195

Current tobacco use
Want no more children

Condom use at last sex

Mobile phone ownership

Male circumcision

Discriminatory attitudes towards people with HIV

Ever tested for HIV and received results of last test

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

0.045

0.030

0.052

0.019

0.027

0.022

0.030

0.023

209

403

119

415

415

415

415

415

137

259

74

267

267

267

267

267

1.743

1.231

1.138

1.344

1.728

1.183

1.507

1.197

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0.254

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0.583

0.132

0.941

0.868

0.854

0.242

		04		of cases	D i	Dalation	Confider	nce limits
	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
HOUSEHO	LDS AND	POPULATI	ON					
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 Ownership of at least one ITN	0.780 0.695	0.031 0.025	625 1,061	253 427	1.667 1.737	0.039 0.035	0.719 0.646	0.841 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 At least basic sanitation service	0.826 0.118	0.039 0.017	4,359 4,359	1,774 1,774	2.905 1.476	0.048 0.143	0.747 0.084	0.904 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
	WOME	N						
No education	0.346	0.024	958	398	1.530	0.068	0.299	0.393
Secondary education or higher Literacy	0.472 0.510	0.032 0.027	958 958	398 398	1.972 1.648	0.067 0.052	0.409 0.457	0.536 0.563
Use of the internet in last 12 months	0.203	0.027	958	398	1.600	0.032	0.457	0.363
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 Mean number of children ever bern to women ago 40, 40	0.065 5.053	0.011 0.214	958 175	398 78	1.341 1.334	0.165 0.042	0.043 4.625	0.086 5.482
Mean number of children ever born to women age 40–49 Median birth interval	41.224	1.340	432	180	1.334	0.042	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 Currently using any modern method	0.368 0.338	0.029 0.028	609 609	258 258	1.467 1.468	0.078 0.083	0.311 0.282	0.426 0.394
Currently using pill	0.022	0.026	609	258	0.983	0.065	0.202	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 Currently using any traditional method	0.005 0.030	0.002 0.008	609 609	258 258	0.880 1.094	0.509 0.251	0.000 0.015	0.010 0.046
Unmet need for spacing	0.030	0.000	609	258	1.147	0.129	0.015	0.040
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 Demand satisfied by modern methods (all women)	0.619 0.617	0.043 0.034	338 422	141 173	1.600 1.431	0.069 0.055	0.533 0.549	0.704 0.686
Participation in decision making about family planning	0.803	0.034	609	258	1.595	0.033	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) Infant mortality (last 0–9 years)	9.759 25.334	3.213 4.859	1,110 1,116	465 467	1.103 1.028	0.329 0.192	3.334 15.616	16.185 35.052
Child mortality (last 0–9 years)	17.304	5.703	1,110	461	1.326	0.132	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 Early neonatal mortality rate	10.335 16.174	4.915 5.313	608 601	255 252	1.029 0.955	0.476 0.328	0.506 5.549	20.165 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 Took any iron-containing supplements	0.329 0.978	0.036 0.012	246 246	105 105	1.184 1.258	0.108 0.012	0.258 0.954	0.400 1.002
Mothers protected against tetanus for last birth	0.708	0.012	246	105	1.236	0.012	0.934	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	109 105	1.145	0.169	0.118	0.239 0.946
Women with postnatal check during first 2 days Newborns with postnatal check during first 2 days	0.910 0.896	0.018 0.021	246 246	105	0.999 1.072	0.020 0.023	0.873 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 Received DPT-HepB-Hib vaccination (3 doses)	0.957 0.930	0.016 0.032	135 135	58 58	0.933 1.480	0.017 0.035	0.924 0.865	0.989 0.995
Received DP1-nepb-nib vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.930	0.032	135	58	1.445	0.035	0.858	0.995
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 Fully vaccinated according to national schedule (24–35 months)	0.862 0.584	0.036 0.075	110 110	44 44	1.025 1.522	0.042 0.128	0.789 0.434	0.935 0.733
Sought treatment for diarrhoea	0.667	0.075	43	16	1.098	0.128	0.434	0.733
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) Weight-for-height (-2 SD)	0.165 0.064	0.024 0.014	341 341	137 137	1.125 0.967	0.144 0.216	0.118 0.036	0.213 0.092
Weight-for-height (+2 SD)	0.064	0.014	341	137	0.967	0.216	0.036	0.092
Weight-for-age (−2 SD)	0.114	0.016	342	137	0.933	0.138	0.082	0.145

			Number of cases				CaE.J	li!4:
		Standard	Un-	or cases	Design	Relative	Confide	nce limits
	Value	error		Weighted	effect	error		
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(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) ≥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	0.222	0.026	336	126	1 160	0.110	0.460	0.275
intimate partner in the past 12 months	MEN		330	120	1.162	0.119	0.169	0.275
No education	0.256		378	155	1 100	0.404	0.203	0.300
No education	0.256	0.027 0.033	378 378	155 155	1.183 1.276	0.104 0.058	0.203	0.309 0.630
Secondary education or higher Literacy	0.505	0.033	376 378	155	1.539	0.056	0.499	0.593
Use of the internet in last 12 months	0.395	0.040	376 378	155	1.222	0.077	0.434	0.593
Current tobacco use	0.393	0.031	378	155	1.150	0.076	0.334	0.457
Want no more children	0.039	0.011	204	86	1.130	0.290	0.016	0.001
Discriminatory attitudes towards people with HIV	0.177	0.030	366	151	1.414	0.204	0.103	0.249
Condom use at last sex	0.778	0.063	64	24	1.414	0.040	0.717	0.509
Ever tested for HIV and received results of last test	0.363	0.063	378	2 4 155	0.967	0.164	0.257	0.509
Male circumcision	0.033	0.011	378	155	2.614	0.210	0.031	0.076
Mobile phone ownership	0.782	0.030	378	155	1.398	0.071	0.071	0.893
Have and use a bank account or mobile phone for financial transactions	0.762	0.030	378	155	1.590	0.036 0.051	0.722	0.041

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).

0.701

0.365

0.036

0.040

378

378

155

155

1.514

1.600

0.051

0.109

0.630

0.285

0.773

0.444

Have and use a bank account or mobile phone for financial transactions Agree with at least one specified reason a husband is justified in wife beating

DATA QUALITY TABLES



Table C.1 Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), Ghana DHS 2022

	Wo	men	M	en		Woi	men	M	en
Age	Number	Percent	Number	Percent	Age	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
1	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
5	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
3	894	2.7	896	3.0	50	423	1.3	284	0.9
)	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	0.7
2	874	2.6	887	3.0	54	330	1.0	154	0.5
13	925	2.8	793	2.6	55 55	319	1.0	190	0.5
14	765	2.3	811	2.7	56	280	0.8	154	0.5
5	629	1.9	688	2.3	57	175	0.5	147	0.5
6	520	1.6	622	2.1	58	195	0.6	147	0.5
7	540	1.6	519	1.7	59	147	0.4	111	0.4
8	515	1.5	550	1.8	60	285	0.9	255	0.9
9	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	8.0
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
.9	397	1.2	383	1.3	71	43	0.1	30	0.1
80	570	1.7	497	1.7	72	107	0.3	113	0.4
81	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
3	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
5 5	406	1.2	398	1.3	77	72	0.2	44	0.1
i6	395	1.2	284	0.9	78	77	0.2	37	0.1
37	409	1.2	298	1.0	79	41	0.2	27	0.1
88	409 377	1.2 1.1	298 302	1.0	79 80+	551	1.7	27 297	1.0
99	420	1.1	302 324	1.0	Don't know	18	0.1	12	0.0
			324 432		אסווז גווסש	10	0.1	12	0.0
10 11	475 220	1.4 0.7	432 199	1.4 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

	Household population of women	Interviewed we	omen age 15–49	Percentage of eligible women
Age group	age 10–54	Number	Percentage	interviewed
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

	Household population of men age 10–64	Interviewed r	men age 15–59	Percentage of eligible men
Age group	Number	Number	Percentage	interviewed
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

				Age				Total – age	Age ratio (age 15/
Region	12	13	14	15	16	17	18	12–18	age 14)
			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

				Age				Total – age	Age ratio (age 50/
Region	47	48	49	50	51	52	53	47–53	age 49)
			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.5 Pregnancy outcomes by years preceding the survey

Number of pregnancy outcomes, percentage with year and month of birth given or end of pregnancy given, sex ratio at birth of live births, and ratio by years preceding the survey, according to living children, dead children, stillbirths, miscarriages/abortions, and total pregnancy outcomes (weighted), Ghana DHS 2022

					Percentage with y	ge with year	ear and month of birth given or end of	t birth given c	or end of								
_	Jumber of	Number of pregnancy outcomes	outcomes			, pr	pregnancy given	, ue		Sex ratio	Sex ratio at birth of live births1	∕e births¹		Ratio of y	Ratio of years preceding survey $^{\mathrm{2}}$	ng survey ²	
			Miscar-					Miscar-								Miscar-	
	Dead		riages/		Living	Dead		riages/		Living	Dead		Living	Dead		riages/	
O	children	Stillbirths	abortions	Total	children	children	Stillbirths	abortions	Total	children	children	Total	children	children	Stillbirths	abortions	Total
	49	24	379	2,170	6.66	100.0	99.1	2.96	99.4	113.6	54.5	111.4	na	na	na	na	na
	48	33	390	2,294	6.66	95.0	96.7	89.3	97.9	103.6	171.9	104.9	111.7	98.9	135.8	111.0	111.6
	48	25	324	1,943	6.66	95.2	98.9	85.8	97.4	97.8	202.1	8.66	89.5	95.7	88.9	86.3	89.1
	52	24	360	2,068	8.66	85.6	93.0	84.8	2.96	88.1	138.8	89.4	103.9	89.1	93.0	117.9	105.5
	69	26	287	1,977	99.1	93.1	91.8	85.6	6.96	119.8	110.2	119.4	100.7	115.3	88.4	97.0	100.4
	89	34	232	1,870	99.1	91.4	96.5	86.7	97.2	94.3	158.2	96.3	96.2	96.8	124.9	86.9	95.3
	71	29	246	1,946	98.8	88.9	6.96	85.1	9.96	104.2	142.6	105.6	108.0	100.8	92.6	99.1	106.3
	73	27	265	1,792	98.0	92.4	79.8	82.0	95.1	109.1	104.6	108.9	6.06	6.06	77.1	109.9	93.1
	06	40	236	1,906	0.66	88.6	69.3	9.07	94.4	101.2	104.0	101.4	108.1	123.9	135.4	95.0	107.4
	72	33	232	1,757	98.2	90.0	73.0	73.8	94.2	99.2	177.5	102.2	92.3	76.0	98.9	106.2	93.2
	266	132	1,740	10,452	2.66	93.6	95.9	88.7	7.76	104.1	121.9	104.6	na	na	na	na	na
	375	163	1,211	9,271	98.6	90.2	82.4	79.7	95.5	101.5	131.8	102.7	na	na	na	na	na
	432	119	819	7,665	97.4	9.98	80.3	78.3	94.4	95.4	118.3	8.96	na	na	na	na	na
	422	29	539	5,629	6.96	84.0	87.8	79.2	94.1	99.3	100.6	99.5	na	na	na	na	na
	564	105	289	5,441	92.0	84.2	72.5	9.99	89.8	92.6	112.1	97.4	na	na	na	na	na
	2,058	287	4,996	38,458	6.76	86.9	83.9	80.7	94.9	8.66	115.4	100.7	na	na	na	na	na

na = not applicable 1 (B_m/B₁)x100, where B_m and B₁ are the numbers of male and female births, respectively 2 [2P_s/(P_{x+1}+P_{x+1})]x100, where P_x is the number of pregnancy outcomes in year x preceding the survey

Table C.6 Completeness of reporting

Percentage of observations missing information for selected demographic and health questions (weighted), Ghana DHS 2022 $\,$

	Percentage with	
	information	
Subject	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

	Standardisa	tion exercise ¹
Measurer	Trainees' precision ²	Trainees' accuracy ²
Trainee 1	0.50	0.47
Trainee 1	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 Trainee 9	0.19 0.31	0.51 0.47
Trainee 3	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 Trainee 18	0.22 0.45	0.61 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 Trainee 27	0.40 0.22	0.40 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 Trainee 35	0.30 0.35	0.58 0.41
Trainee 35	0.33	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 Trainee 44	0.24 0.39	0.46 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 Trainee 52	0.21 0.30	0.36 0.40
Trainee 52 Trainee 53	0.30	0.40
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 Trainee 62	0.30 1.81	0.59 0.87
Trainee 62 Trainee 63	0.34	0.49
Trainee 64	0.56	0.82
Halliet 04		

Table C.7—Continued		
	Standardisat	ion exercise ¹
Measurer	Trainees' precision ²	Trainees' 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 $\sqrt{\Sigma}(D^2)/(2N),$ 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 cm for precision and <0.8 cm for accuracy.

Table C.8 Height and weight data completeness and quality for children

Among children under age 5 (age 0–59 months) who were eligible for anthropometry, percentage with incomplete or missing data for height, weight, or month or year of birth; among children with complete data on height and age, percentage with implausible data for height-for-age; among children with complete data on weight and age, percentage with implausible data for weight-for-age; and among all children under age 5 who were eligible for anthropometry, percentage with valid data for height-for-age, weight-for-age, weight-for-age, according to background characteristics (unweighted), Ghana DHS 2022

	Percentage	Percentage with data incomplete	complete or	or missing for:		Percer	ntage with im	Percentage with implausible data for:	a for:		Per	Percentage with valid data for ⁸ :	valid data f	Jr ⁸ :
Background characteristic	Height ¹	Weight ²	Month or year of birth ³		Height-for- age ⁴	Number of children with complete height and age ⁵	Weight-for- height ⁶	Number of children with complete weight and Weight-for- height age ⁷	Weight-for-	Number of children with complete weight and age ⁵	Height-for- age	Height-for- Weight-for- Number of age children	Weight-for- age	Number of children
Age in months														
90	3.6	3.4	0.0	527	0.4	208	1.0	208	0.2	209	0.96	95.4	96.4	527
6–11	4.1		0.0	504	9.0	497	0.4	497	0.4	497	98.0	98.2	98.2	504
12–23	0.8	0.8	0.1	1,066	0.2	1,056	0.2	1,057	0.1	1,056	98.9	0.66	0.66	1,066
24–35	2.5	2.5	0.4	977	0.1	951	0.1	953	0.0	951	97.2	97.4	97.3	222
36-47	2.1	2.0	0.3	1,011	0.0	686	0.0	066	0.0	066	97.8	97.9	97.9	1,011
48–59	2.5	2.4	0.4	096	0.0	932	0.0	936	0.0	936	97.4	97.5	97.5	096
0–23 24–59	1.7	1.6	0.0	2,097 2,948	0.3	2,061 2,875	0.0	2,062 2,879	0.2	2,062 2,877	97.9 97.5	97.9 97.6	98.1 97.6	2,097 2,948
Sex		,	;			1	,	1		,	ļ			
Male Female	1.7	1.7	0.3	2,600 2,445	0.0	2,536	0.2	2,538 2,403	o o	2,539	97.3 98.1	97.4 98.1	97.6 98.1	2,600 2,445
Mother's interview status														
Interviewed Not interviewed but in	1.2	1.1	0.1	4,458	0.2	4,399	0.2	4,404	0.1	4,402	98.5	98.6	98.7	4,458
household	24.8	24.8	4.0	149	6.0	112	0.0	112	0.0	112	74.5	75.2	75.2	149
household ⁹	3.0	3.0	0.2	438	0.0	425	0.2	425	0.0	425	97.0	8.96	97.0	438
Residence Urban	2.3	2.3	0.1	2,081	0.2	2,033	0.3	2,033	0.1	2,034	97.5	97.4	97.6	2,081
Rural	1.9	. 8.	0.3	2,964	0.1	2,903	0.1	2,908	0.1	2,905	97.8	98.0	97.9	2,964
Region Western	1.7	1.7	6.0	234	4.0	230	0.0	230	0.0	230	6.76	98.3	98.3	234
Central	1.5	1.5	0.0	269	0.0	265	0.0	265	0.0	265	98.5	98.5	98.5	269
Greater Accra			4.0	243	4.0	235	0.0	235	0.0	235	96.3	95.9	96.7	243
Volta Eastern	0.4	00	0.0	239	0.0	238 238	0.0	238	0.0	738 738	0.06 0.06	0.06 0.06	0.06 0.00	239
Ashanti	1.6	1.6	0.3	321	0.0	316	0.3	316	0.0	316	98.4	98.1	98.4	321
Western North	4.	4. L.	4.1	217	0.0	207	0.0	208	0.0	207	95.4	95.9	95.4	217
Ahato Bono	3.2	3.2 5.2	0.0	278	0.0	269 212	0.0	269 212	0.0	269 212	96.8 90.8	8.96 8.98 9.89	96.8 00.8	278 213
Bono East	1.2	1.2	0.0	328	0.3	324	0.0	324	0.3	324	98.5	98.2	98.5	328
Oti	2.3	2.3	0.3	307	0.0	300	0.3	300	0.0	300	7.76	97.4	97.7	307
Northern	1.9	1.9	4.0	517	4.0	202	0.0	202	0.4	202	97.3	98.1	97.3	517
Savannah	2.3	2.1	0.2	435	0.2	424	0.0	425	0.2	425	97.2	97.7	97.5	435
North East	2.6	2.2	0.0	537	0.0	523	0.0	523	0.0	525	97.4 06.6	97.4	97.8	537
Upper East Upper West		. t. - 4.	0.0	347	0.0	345 342	0.0	345 342	0.0	342	96.9 98.3	96.9 98.3	90.9 98.0	347

	Percentage	Percentage with data incomplet	е	or missing for:		Perce	ntage with in	Percentage with implausible data	ta for:		Pel	Percentage with valid data for ⁸ :	ı valid data f	١٢ ⁸ :
Background characteristic	Height ¹	Weight²	Month or year of birth ³	Number of children	Height-for- age⁴	Number of children with complete height and age ⁵	Weight-for- height ⁶	Number of children with complete weight and height	Weight-for- age ⁷	Number of children with complete weight and age ⁵	Height-for- age	Weight-for- Weight-for- height age	Weight-for- age	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	7.76	97.6	1,509
Primary	1.3	<u>1.</u>	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	9.0	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	62	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	2.96	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.	06	0.0	85	0.0	82	0.0	82	94.4	94.4	94.4	06
Measurer 7	1.3	1.3	0.0	79	1.3	78	0.0	78	0.0	78	97.5	98.7	98.7	6/
Measurer 8	1.4	4.1	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	66	0.0	66	0.0	66	0.66	0.66	0.66	100
Measurer 10	0.0	0.0	0.0	42	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	66	0.0	86	0.0	86	0.0	86	99.0	99.0	99.0	66
Measurer 13	8.0 0.0	8.0 0.0	0.0	120	0.0	119	8.0	119	0.0	119	99.2	98.3	99.2	120
Measurer 14	ر د د د د	ν, ο Ο ς	0 0	2 6	0.0	113	0 0	113	0.0	12	97.5	97.5	97.5	2 6
Measurer 16	5.0 C	0.0	o o	107	9.0	106	9 0	107	0.0	106	99.7	100.0	90.1	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	9.0	9.0	0.0	165	0.0	164	0.0	164	9.0	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	4.1	4.1	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	4.0	4.0	6.0 6.0	214	0.0	203	0.5	717	0.0	503	97.7	98.1	97.7	214 400
Measurer 24	7. 9.6	7. 9.6	0 0	196	0.0	191	0 0	191	0.6	191	97.4	97.9	97.4	136
Measurer 26	0.0	5.0	0.0	199	- C	197	000	198	7:- 0	197	0.00	99.5	0.00	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	99.2	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			0.0	129	0.0	125	1.6	125	0.0	125	96.9	95.3	96.9	129
Measurer 33	, i.c	, i.c	0.0	142 260	0.0	138	0 0	138	0.0	138	2.76	97.2	97.2	142
Measurer 35	6.7	 	0 0	144	0.0	141	0.0	141	0.0	141	6.06 0.70	0.76 0.70	0.78 0.78	0 4 4 7
Measurer 36	0.0	0.0	0.0	157	9.0	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	7.76	7.76	8.76	5,045

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 "other" result codes ³ Incomplete date of birth; a complete date of birth is month/day/year or month/year.

⁴ Implausible cases for height-for-age are defined as more than 6 standard deviations (SD) above or below the standard population median (z scores) based on the WHO Child Growth Standards among children with complete height and month/year of birth data.

⁵ Complete age is calculated from month and year of birth.

⁶ Implausible cases for weight-for-height are defined as more than 5 SD above or below the standard population median (z scores) based on the WHO Child Growth Standards among children with complete weight and height and height are defined as more than 5 SD above or 6 SD below the standard population median (z scores) based on the WHO Child Growth Standards among children with complete weight and month/year of birth data.

⁸ No missing data, incomplete data, or implausible data

⁹ Includes children whose mothers are deceased

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

	Median difference in height	Percentage of height measurements with a	Number of children randomly selected
Region and measurer	measurements ¹	difference >1 cm	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

¹ Median absolute difference between measurers' first and second height measurements in centimetres

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

	Percentage of	Percentage of children who were not	
Dadwarand	children for whom hairstyle or ornamentation	minimally dressed or who wore heavy permanent ornaments	
Background characteristic	interfered with height measurement	during weight measurement	Number of children
Age in months			
<6	1.1	0.6	527
6–11 12–23	2.2 1.4	0.2 0.5	504 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 24–59	1.5 1.4	0.4 0.4	2,097 2,948
Sex		0. .	_,0 .0
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 Bono Foot	3.3	0.5	213
Bono East Oti	1.8 0.3	0.6 0.0	328 307
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	4.0	4.0	00
Measurer 1 Measurer 2	1.2 3.8	1.2 0.0	83 131
Measurer 3	3.8 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	79 109
Measurer 11 Measurer 12	0.0 0.0	0.0 0.0	108 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 Measurer 22	1.4 0.0	0.0 0.0	148 102
Measurer 23	0.0 0.5	0.0 0.5	214
Measurer 24	3.1	2.0	196
Measurer 25	0.0	0.6	171

Table C.10—Continued			
		Percentage of	
	Percentage of children for whom	children who were not minimally dressed or	
	hairstyle or	who wore heavy	
	ornamentation	permanent ornaments	
Background	interfered with height	during weight	
characteristic	measurement	measurement	Number of children
Measurer 26	0.5	0.0	199
Measurer 27	0.6	0.0	181
Measurer 28	4.0	0.5	201
Measurer 29	0.5	0.5	222
Measurer 30	0.0	0.0	201
Measurer 31	0.0	0.0	196
Measurer 32	7.0	1.6	129
Measurer 33	0.7	0.7	142
Measurer 34	1.9	0.0	160
Measurer 35	1.4	0.7	144
Measurer 36	0.6	0.0	157
Measurer 37	0.9	0.0	115
Total	1.4	0.4	5,045

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	hairstyle or ornamentation interfered with height	Percentage who were not wearing lightweight clothing or who wore heavy permanent ornaments during weight	Number
characteristic	measurement	measurement	Number of women
Age			
15–19	11.5	1.9	1,441
20–29	10.0 7.4	1.4	2,558
30–39 40–49	6.0	1.3 1.3	2,195 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	475 540
Upper East Upper West	14.5 3.5	2.4 2.4	510 491
	0.0	2	101
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 Measurer 18	1.5 1.6	0.0 0.5	197 192
Measurer 19	3.2	1.8	218
14	0.0	0.0	040
Measurer 20 Measurer 21	6.2 20.1	0.0	210 229
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

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 $\,$

	We	ight	Height of	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 characteristic	Percentage of mosquito nets observed by interviewers	Number of mosquito nets
Residence		_
Urban	80.0	13,556
Rural	84.6	15,054
Region		
Western	81.3	1,905
Central	77.9	3,329
Greater Accra	73.5	3,249
Volta	91.9	1,775
Eastern	84.9	2,772
Ashanti	81.0	5,653
Western North	85.5	978
Ahafo	91.0	810
Bono	85.7	1,128
Bono East	88.3	1,281
Oti	93.4	1,011
Northern	82.0	1,748
Savannah	86.4	681
North East	88.9	382
Upper East	76.7	1,309
Upper West	85.3	601
Wealth quintile		
Lowest	85.9	5,798
Second	84.8	6,232
Middle	84.6	6,067
Fourth	78.7	5,511
Highest	76.9	5,003
Total	82.4	28,611

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

	Handwashing fa	cility observed	Handw	ashing facility not ob	served		
Background characteristic	Fixed place	Mobile	Not in dwelling, yard, or plot	No permission to see	Other reason	Total	Number of households
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.15 School attendance by single year of age

Percent distribution of the de jure population age 4-24 by educational level and grade attended in the current school year (weighted), Ghana DHS 2022

		Farly			Primary school gra	hool grade					secondary s	Secondary school grade						Nimber
Age in years at beginning of school year	Not attending school	childhood education program	1	2	3	4	5	9	1	2	3	4	5	9	More than secondary	Don't know	Total	of persons age 4–24
4	15.5	78.6	4.5	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	1,657
2	11.5	67.1	15.1	5.3	0.7	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	1,802
9	9.4	32.7	38.9	15.4	2.3	6.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	1,742
7	7.6	14.1	31.5	33.8	10.4	1.5	0.2	0.4	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	100.0	1,739
8	8.1	5.5	14.2	33.0	29.2	7.7	1.5	0.4	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.1	100.0	1,700
6	7.3	2.5	7.4	18.2	29.1	25.8	7.4	1.8	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0	100.0	1,756
10	7.3	1.7	3.3	9.5	21.2	26.3	23.0	5.7	9.0	0.0	0.2	0.8	0.3	0.0	0.1	0.0	100.0	1,533
1	7.1	0.5	1.2	4.5	9.8	21.4	27.8	19.1	9.9	1.2	0.2	0.1	0.2	0.2	0.0	0.1	100.0	1,707
12	8.8	0.1	0.5	1.9	0.9	11.3	18.4	26.3	18.8	0.9	1.0	0.5	0.2	0.1	0.1	0.0	100.0	1,721
13	11.8	0.2	0.2	6.0	3.1	6.3	11.4	19.4	24.6	17.9	3.5	0.3	0.4	0.1	0.0	0.0	100.0	1,619
14	15.1	0.0	0.1	0.2	1.3	1.9	6.1	12.4	21.8	23.9	15.2	6.0	9.0	4.0	0.1	0.0	100.0	1,402
15	22.8	0.0	0.1	0.2	9.0	1.3	2.6	8.9	13.1	23.1	21.3	2.0	2.7	0.3	0.0	0.0	100.0	1,200
16	30.2	0.0	0.0	0.2	0.4	0.8	6.0	3.3	8.9	15.6	17.5	12.3	8.5	5.9	0.7	0.0	100.0	1,059
17	44.9	0.0	0.0	0.0	0.0	0.2	0.5	9.0	2.9	6.4	14.9	9.3	10.8	8.3	1.2	0.0	100.0	1,057
18	52.6	0.0	0.0	0.1	0.1	0.3	0.3	0.4	1.3	5.1	4.7	6.2	8.1	17.6	3.3	0.0	100.0	296
19	68.5	0.0	0.0	0.1	0.2	0.1	0.4	0.8	9.0	1.7	2.5	2.5	6.1	10.8	5.2	0.1	100.0	1,071
20	76.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	4.0	1.7	1.	3.0	7.7	9.3	0.0	100.0	837
21	9.08	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.5	0.5	1.5	0.3	1.8	4.0	10.2	0.0	100.0	1,083
22	84.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	1.3	0.4	1.0	3.9	8.5	0.0	100.0	981
23	88.2	0.0	0.0	0.0	0.0	0.1	0.0	0.3	9.0	0.5	9.0	0.1	0.1	3.9	5.5	0.0	100.0	898
24ª	83.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	9.0	3.7	0.0	0.4	2.2	8.1	0.0	100.0	227

Note: Age at the beginning of the school year is calculated from dates of birth of household members or by rejuvenating household members based on the date of the survey, the date after the start of the school year, and completed age at the time of the survey. Levels and grades refer to the current school year or the most recent school year if data collection was completed between school years.

3 Those age 25 at the time of the interview who were age 24 at the beginning of the school year are excluded from the table since data on current attendance were collected only for those age 24 at the time of the interview.

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 seen, percentage of cards photographed, according to background characteristics (weighted), Ghana DHS 2022

	Percentage of	Percentage of	Percentage of	Percentage of children whose vaccination card	Percentage of children whose vaccination card		Among children wit	Among children with a vaccination card seen
Background characteristic	children reported to have a vaccination card	vaccination card was seen by interviewer	children whose vaccination card was photographed	photographed as permission was not received	was not photographed for other reasons	Number of children	Percentage of vaccination cards photographed	Number of children
Age in months	9		0 7	т И	<u> </u>	1 7 1 9	a C	4 533
12–23	9.06	87.9	83.7	6:0 6:0	9. K	1,823	95.2 95.2	1,602
24–35	83.5		74.3	1.0	3.2	1,546	94.6	1,213
Residence								
Urban	88.9	84.5	80.4	4.0	2.7	2,437	95.2	2,058
Kurai	9.99		ø0.0	6.0	4. ن	7,050	0.45	2,2/3
Region								
Western	86.7	81.6	80.5	0.4	0.7	309	98.7	253
Central	89.9	82.6	76.9	2.5	3.2	519	93.0	429
Greater Accra	93.4	89.2	84.5	0.7	3.6	626	94.8	559
Volta	92.1	5. 88 5. 88 6. 88	76.Z	1.1	11.6	193	85.7 85.3	301
Ashanti	± 68	85.5	82.6	2.5	0.6	200	2.00	762
Western North	93.0	92.1	87.9	1.2	3.7	142	95.4	131
Ahafo	86.9	85.2	84.5	0.0	9.0	115	99.3	86
Bono	90.4	87.9	84.4	0.0	3.5	171	96.0	151
Bono East	88.5	86.7	86.4	0.0	0.3	273	2.66	237
Ōŧį	87.0	84.1	81.6	1.8	0.8	172	97.0	144
Northern	81.8	79.7	74.4	0.8	4.6	269	93.3	454
Savannah	88.5	87.7	83.1	0.3	4.4	158	94.7	138
North East	92.0	91.5	89.7	1.0	8.0	171	98.0	157
Upper East Upper West	92.9	91.3	80.0 79.2	0.6	11.6	150	99.2 86.7	137
Wealth quintile								
Lowest	82.8	84.4	80.4	0.8	3.2	1,207	95.3	1,019
Second	89.2	85.9	80.9	0.4	4.6	1,055	94.2	906
Middle	90.3	85.4	81.2	1.0	3.2	1,012	95.1	864
Fourth	88.4	83.2	7.77	1.8	3.8	961	93.3	800
Highest	91.2	7.78	83.1	1.9	2.8	851	94.7	747
Total	88.8	85.2	9.08	1.1	3.5	5,087	94.6	4,337
Note: Vaccination cards include cards, booklets, and other home-based records.	oooklets, and other hom	e-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 o	f fieldwork		
Region	January	October	November	December	Number of EAs
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	9	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

	Percen		assified as having of fieldwork	malaria		Number of
Region	January	October	November	December	Total percentage	children
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 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		_	
	RDT+/ microscopy+	RDT-/ microscopy-	RDT+/ microscopy-	RDT-/ microscopy+	Total percentage	Number of children
Total	7.6	82.4	9.0	1.1	100.0	3,838

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ICF STAFF

Rathavuth Hong Rukundo Benedict Livia Montana Joy Fishel Gulnara Semenov Suzanne Arrington Kerry MacQuarrie Sara Scates Ruilin Ren Boaz Anglade Harouna Koche Peter Redvers-Lee Lady Ortiz Chris Gramer Peter Aka Monique Barrère Cameron Taylor Greg Edmondson

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FINALIZATION STAFF

Abena Asamoabea Osei-Akoto Peter Takyi Peprah Chris Opoku Fofie Emmanuel Boateng Dominic Kwabena Atweam

FORMATTING DATE: 8 Apr 2022 ENGLISH LANGUAGE: 8 Apr 2022

2022 GHANA DEMOGRAPHIC AND HEALTH SURVEYS HOUSEHOLD QUESTIONNAIRE

GHANA GHANA STATISTICAL SERVICE

IDENTIFICATION							
PLACE NAME	PLACE NAME						
NAME OF HOUSEHOL	LD HEAD						
CLUSTER NUMBER							
HOUSEHOLD NUMBE	:R						
HOUSEHOLD SELEC	TED FOR MAN'S SUR\	/EY? (1=YES, 2=NC					
HOUSEHOLD SELEC	TED FOR DV? (1=YES	, 2=NO					
		INTERVIEWER	R VISITS				
	1	2	3	FINAL VISIT			
DATE				DAY MONTH YEAR			
INTERVIEWER'S NAME				INT. NO.			
RESULT*				RESULT*			
NEXT VISIT:DATE				TOTAL NUMBER OF VISITS			
*RESULT CODES:	n	1		TOTAL PERSONS IN HOUSEHOLD			
2 NO HOUSEF AT HOME	HOLD MEMBER AT HO E AT TIME OF VISIT USEHOLD ABSENT FO	OME OR NO COMPETE		TOTAL ELIGIBLE WOMEN			
6 DWELLING V 7 DWELLING I	VACANT OR ADDRES: DESTROYED NOT FOUND	S NOT A DWELLING		TOTAL ELIGIBLE MEN			
9 OTHER							
LANGUAGE OF QUESTIONNAIRE**	1 LANGUAG		ATIVE LANGUAGE OF RESPONDENT**	TRANSLATOR USED (YES = 1, NO = 2)			
LANGUAGE OF QUESTIONNAIRE** ENGLISH **LANGUAGE CODES: 01 ENGLISH 03 GA 05 DAGBANI 02 AKAN 04 EWE							
TEAM		TEAM SU	JPERVISOR				
NUMBER		NAME	NUMBE	₹			

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INTRODUCTION AND CONSENT

the go questic confide survey you do time. I GIVE	My name is We are conducting a survey about health and other topic vernment to plan health services. Your household was seens about your household. The questions usually take about and will not be shared with anyone other than members, but we hope you will agree to answer the questions since on't want to answer, just let me know and I will go on to the naces you need more information about the survey, your CARD WITH CONTACT INFORMATION as have any questions?	lected for the survey. I would like to ask you some but 15 to 20 minutes. All of the answers you give will be bers of our survey team. You don't have to be in the e your views are important. If I ask you any question e next question or you can stop the interview at any
SIGNAT	URE OF INTERVIEWER	DATE
	RESPONDENT AGREES TO BE INTERVIEWED 1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED 2 → END
100	RECORD THE TIME.	HOURS

HOUSEHOLD SCHEDULE

							IF AGE 15 OR OLDER			
LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESI	DENCE	AGE	MARITAL STATUS		ELIGIBILITY	
1	2	3	4	5	6	7	8	9	10	11
	Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.	What is the relationship of (NAME) to the head of the household?	Is (NAME) male or female ?	Does (NAME) usually live here?	Did (NAME) stay here last night?	How old is (NAME)?	What is (NAME)'s current marital status?	CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49	IF HOUSE- HOLD SELEC- TED FOR MAN'S SURVEY	CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5
	AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP, SEX, RESIDENCE, AND AGE FOR EACH PERSON, ASK QUESTIONS 7A-7C TO BE SURE THAT THE THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 8-20 FOR EACH PERSON.					IF 95 OR MORE, RECORD '95'.	1 = MARRIED OR LIVING TOGETHER 2 = DIVORCED/ SEPARATED 3 = WIDOWED 4 = NEVER- MARRIED AND NEVER LIVED TOGETHER		CIRCLE LINE NUMBER OF ALL MEN AGE 15-59	
01			M F 1 2	Y N 1 2	Y N 1 2	IN YEARS		01	01	01
02			1 2	1 2	1 2			02	02	02
03			1 2	1 2	1 2			03	03	03
04			1 2	1 2	1 2			04	04	04
05			1 2	1 2	1 2			05	05	05
06			1 2	1 2	1 2			06	06	06
07			1 2	1 2	1 2			07	07	07
08			1 2	1 2	1 2			08	08	08
09			1 2	1 2	1 2			09	09	09
10			1 2	1 2	1 2			10	10	10
	ust to make sure that I have a concern any other people such as s		ante		> ADD TO		CODES FOR Q. 3:	RELATIONSH	IIP TO HEAD OF	HOUSEHOLD
Th A of fr	there any other people such as small children or infants that we have not listed? 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? ADD TO TABLE NO TIMES TO TABLE							BAND 0 GHTER 0 OR 1	7 = PARENT-IN- 8 = BROTHER C 9 = OTHER REL 0 = ADOPTED/F STEPCHILD	R SISTER ATIVE
h	re there any guests or tempora ere, or anyone else who stayed ave not been listed?		O YES	6	→ ADD TO TABLE) NO	DAUGHTER-IN-L 05 = GRANDCHILD 06 = PARENT	1	1 = NOT RELATI 8 = DON'T KNOV	

HOUSEHOLD SCHEDULE

		IF AGE 0-	17 YEARS		IF AGE 4 YEARS OR OLDER		IF AGE 4-24 YEARS		IF AGE 0-4 YEARS
LINE NO.	SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS			EVER ATTENDED SCHOOL		CURRENT/RECENT SCHOOL ATTENDANCE		BIRTH REGISTRATION	
	12	13	14	15	16	17	18	19	20
	Is (NAME)'s biological mother alive?	Does (NAME)'s biological mother usually live in this household or was she a guest last night?	Is (NAME)'s biological father alive?	Does (NAME)'s biological father usually live in this household or was he a guest last night?	Has (NAME) ever attended school or any early childhood education program?	What is the highest level of school (NAME) has attended? 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? IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority?
		MOTHER'S LINE NUMBER. IF NO, RECORD '00'.		FATHER'S LINE NUMBER. IF NO, RECORD '00'.		SEE CODES BELOW.	your.	SEE CODES BELOW.	1 = HAS CERTIFICATE 2 = REGISTERED 3 = NEITHER 8 = DON'T KNOW
	Y N DK		Y N DK		Y N	LEVEL GRADE	Y N	LEVEL GRADE	
01	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 ↓ GO TO 20		
02	1 2—8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 20		1 2 ↓ GO TO 20		
03	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 ↓ GO TO 20		
04	1 2 — 8 GO TO 14		1 2 8 GO TO 16		1 2 ↓ GO TO 20		1 2 V GO TO 20		
05	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 V GO TO 20		
06	1 2 — 8 GO TO 14		1 2 8 GO TO 16		1 2 ↓ GO TO 20		1 2 V GO TO 20		
07	1 2 — 8 GO TO 14		1 2 - 8 GO TO 16		1 2 ↓ GO TO 20		1 2 V GO TO 20		
08	1 2 — 8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 ↓ GO TO 20		
09	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 ↓ GO TO 20		
10	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 20		1 2 ¥ GO TO 20		
<u>)</u>						CODES FO	R Qs. 17 AND	19: EDUCATION	

CODES FOR Qs. 17 AND 19: EDUCATION

LEVEL

0 =PRE- PRIMARY 4=SECONDARY 1 = PRIMARY 5=SSS/SHS 2 = MIDDLE 6 = HIGHER

3 = JSS/JHS8 = DON'T KNOW

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?	PIPED WATER PIPED INTO DWELLING 11 PIPED TO YARD/PLO* 12 PIPED TO NEIGHBOR 13 PUBLIC TAP/STANDPIPE 14	106
		TUBE WELL OR BOREHOLE 21 DUG WELL PROTECTED WELL 31 UNPROTECTED WELL 32 WATER FROM SPRING PROTECTED SPRING 41 UNPROTECTED SPRING 42	→ 103
		RAINWATER 51 TANKER TRUCK 61 CART WITH SMALL TANI. 71 SURFACE WATER (RIVER/DAM/ LAKE/POND/STREAM/CANAL/ IRRIGATION CHANNEL) 81 BOTTLED WATER 91 SACHET WATER 92	
		OTHER96 (SPECIFY)	→ 103
102	What is the main source of water used by your household for other purposes such as cooking and handwashing?	PIPED WATER PIPED INTO DWELLING 11 PIPED TO YARD/PLO* 12 PIPED TO NEIGHBOR 13 PUBLIC TAP/STANDPIPE 14 TUBE WELL OR BOREHOLE 21 DUG WELL 31 PROTECTED WELL 32 WATER FROM SPRING 41 UNPROTECTED SPRING 42 RAINWATER 51 TANKER TRUCK 61 CART WITH SMALL TANI 71 SURFACE WATER (RIVER/DAM/ LAKE/POND/STREAM/CANAL/ IRRIGATION CHANNEL) 81 OTHER 96 (SPECIFY)	106
103	Where is that water source located?	IN OWN DWELLING 1 IN OWN YARD/PLOT 2 ELSEWHERE 3]→ 106
104	How long does it take to go there, get water, and come back?	MINUTES	
105	Who usually goes to this source to collect the water for your household? RECORD THE PERSON'S NAME AND LINE NUMBER FROM THE HOUSEHOLD SCHEDULE. IF THE PERSON IS NOT LISTED IN THE HOUSEHOLD ROSTER, RECORD '00'.	NAMELINE NUMBER	

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?	YES	
107	Do you do anything to the water to make it safer to drink?	YES]→ 109
108	What do you usually do to make the water safer to drink? Anything else? RECORD ALL MENTIONED.	BOIL A ADD BLEACH/CHLORINE B STRAIN THROUGH A CLOTI C USE WATER FILTER (CERAMIC/SAND/COMPOSITE/ETC) D SOLAR DISINFECTION E LET IT STAND AND SETTLE F CAMPHOR/ NAPHTHALENE G PURIFICATION TABLET H	
		OTHER X (SPECIFY) DON'T KNOW	
109	What kind of toilet facility do members of your household usually use? IF NOT POSSIBLE TO DETERMINE, ASK PERMISSION TO OBSERVE THE FACILITY.	FLUSH OR POUR FLUSH TOILET FLUSH TO PIPED SEWER SYSTEM 11 FLUSH TO SEPTIC TANK 12 FLUSH TO PIT LATRINE 13 FLUSH TO SOMEWHERE ELSE 14 FLUSH, BIO-DIGESTER (BIOFIL) 15 FLUSH, DON'T KNOW WHERE 16 PIT LATRINE VENTILATED IMPROVED PIT LATRINE 21 PIT LATRINE WITH SLAB 22 PIT LATRINE WITHOUT SLAB/OPEN PIT 23	
		COMPOSTING TOILET 31 BUCKET TOILET 41 HANGING TOILET/HANGING LATRINE 51 NO FACILITY/BUSH/FIELD 61 OTHER96 (SPECIFY)	→ 117
110	Do you share this toilet facility with other households?	YES 1 NO 2	→ 112
111	Including your own household, how many households use this toilet facility?	NO. OF HOUSEHOLDS 0 IF LESS THAN 10 95 DON'T KNOW 98	
111A	What kind of shared toilet is it?	PUBLIC TOILET/ COMMUNAL TOILET 1 COMPOUND TOILET 2	
111B	How much do you pay to use the facility?	GH¢	
112	Where is this toilet facility located?	IN OWN DWELLING 1 IN OWN YARD/PLOT 2 ELSEWHERE 3	
113	CHECK 109: CODES 12, 13, 21, 22, 23, OR 31 CIRCLED ✓	OTHER	→ 117
114	Has your (septic tank/pit latrine/composting toilet) ever been emptied?	YES]→ 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?	YES	
116	Where were the contents emptied to?	A TREATMENT PLAN'	
		OTHER 6	
117	In your household, what type of cookstove is mainly used for cooking?	ELECTRIC STOVE	→ 121 → 120 → 120
		NO FOOD COOKED IN HOUSEHOLD	→ 123 → 120
118	Does the stove have a chimney?	YES	
120	What type of fuel or energy source is used in this cookstove?	ALCOHOL/ETHANOL 01 GASOLINE/DIESEI 02 KEROSENE/PARAFFIN 03 COOKING GEL 04 CHARCOAL 05 WOOD 06 STRAW/SHRUBS/GRASS 07 AGRICULTURAL CROP 08 ANIMAL DUNG/WASTE 09 PROCESSED BIOMASS (PELLETS) OR WOODCHIPS 10 GARBAGE/PLASTIC 11 SAWDUST 12	
		OTHER96 (SPECIFY)	
121	Is the cooking usually done in the house, in a separate building, or outdoors?	IN THE HOUSE	→ 123
122	Do you have a separate room which is used as a kitchen?	YES	
123	What does this household use to heat the home when needed? IF THE RESPONDENT SAYS ELECTRICITY OR GAS, ASK: What type of heater is the (electricity/gas) used in?	CENTRAL HEATING 01 MANUFACTURED SPACE HEATEF 02 TRADITIONAL SPACE HEATER 03 MANUFACTURED COOKSTOVI 04 TRADITIONAL COOKSTOVE 05 THREE STONE STOVE/OPEN FIRE 06	→ 125 → 125
		NO SPACE HEATING IN HOUSEHOLD/NO	→ 126 → 125

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
124	Does it have a chimney?	YES	
125	What type of fuel or energy source is used in this heater?	ELECTRICITY 01 PIPED NATURAL GAS 02 SOLAR AIR HEATER 03 LIQUEFIED PETROLEUM GAS (LPG)/ 04 COOKING GAS 04 BIOGAS 05 ALCOHOL/ETHANOL 06 GASOLINE/DIESEI 07 KEROSENE/PARAFFIN 08 COAL/LIGNITE 09 CHARCOAL 10 WOOD 11 STRAW/SHRUBS/GRASS 12 AGRICULTURAL CROP 13 ANIMAL DUNG/WASTE 14 PROCESSED BIOMASS (PELLETS) OR WOODCHIPS 15 GARBAGE/PLASTIC 16 SAWDUST 17	
		OTHER96 (SPECIFY)	
126	At night, what does your household mainly use to light the home?	ELECTRICITY 01 SOLAR LANTERN 02 RECHARGEABLE FLASHLIGHT, TORCH OR 03 BATTERY POWERED FLASHLIGHT, TORCH OR 04 LANTERN 04 BIOGAS LAMP 05 GASOLINE LAMP 06 KEROSENE OR PARAFFIN LAMP 07 CHARCOAL 08 WOOD 09 STRAW/SHRUBS/GRASS 10 AGRICULTURAL CROP 11 ANIMAL DUNG/WASTE 12 OIL LAMP 13 CANDLE 14 NO LIGHTING IN HOUSEHOLD 95 OTHER 96 (SPECIFY)	
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?	YES	→ 130
129	How many of the following animals does this household own? IF NONE, RECORD '00'. IF 95 OR MORE, RECORD '95'. IF UNKNOWN, RECORD '98'.		
	a) Milk cows or bulls?	a) COWS/BULLS	
	b) Other cattle?	b) OTHER CATTLE	
	c) Horses, donkeys, or mules?	c) HORSES/DONKEYS/MULES	
	d) Goats?	d) GOATS	
	e) Sheep?	e) SHEEP	
	f) Chickens or other poultry?	f) CHICKENS/POULTRY	
	g) Rabbits?	g) RABBITS	
	h) Grasscutters?	h) GRASCUTTERS	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
130	Does any member of this household own any agricultural land?	YES	→ 132
131	How many hectares of agricultural land do members of this household own?	HECTARES 1	
		ACRES 2	
		PLOTS 3	
	IF 95 OR MORE HECTARES, RECORD '950' IF 95 OR MORE ACRES, RECORD IN HECTARES IF 95 OR MORE PLOTS, RECORD IN ACRES	95 OR MORE HECTARES	
132	Does your household have:	YES NO	
	a) Electricity? b) A radio?	a) ELECTRICITY	
	c) A television?	b) RADIO	
	d) A non-mobile telephone?	d) NON-MOBILE TELEPHONE 1 2	
	e) A computer? f) A refrigerator?	e) COMPUTER 1 2 f) REFRIGERATOR 1 2	
	g) A freezer?	g) FREEZER 1 2	
	h) An electric generator/Invertor?	h) GENERATOR	
	i) A washing machine?j) A photo camera? (NOT ON PHONE)	i) WASHING MACHINE	
	k) A video deck/DVD/VCD?	k) VIDEO/DVD/VCD 1 2	
	I) A sewing machine?	I) SEWING MACHINE 1 2	
	m) A bed? n) A table?	m) BED	
	o) A chair?	o) CHAIR 1 2	
	p) A cabinet/cupboard?	p) CABINET 1 2	
133	Does any member of this household own:	YES NO	
	a) A watch?	a) WATCH 1 2	
	b) A mobile phone?	b) MOBILE PHONE 1 2	
	c) A bicycle?	c) BICYCLE 1 2	
	d) A motorcycle or motor scooter? e) An animal-drawn cart?	d) MOTORCYCLE/SCOOTER 1 2 e) ANIMAL-DRAWN CART 1 2	
	f) A car or truck?	f) CAR/TRUCK 1 2	
	g) A boat with a motor?	g) BOAT WITH MOTOR 1 2	
	h) A boat without a motor?	h) BOAT WITHOUT MOTOR 1 2	
134	Does any member of this household have an account in a bank or other financial institution?	YES	
135	Does any member of this household use a mobile phone to make financial transactions such as sending or receiving	YES 1	
	money, paying bills, purchasing goods or services, or receiving wages?	NO 2	
136	How often does anyone smoke inside your house? Would you	DAILY 1	
	say daily, weekly, monthly, less often than once a month, or never?	WEEKLY 2	
	116 V G1 :	MONTHLY	
		NEVER 5	
136A	At any time in the past 12 months, has anyone come into your	YES 1	
	dwelling to spray the interior walls against mosquitoes?	NO 2	→ 137
		DON'T KNOW 8	
136B	Who sprayed the dwelling?	GOVERNMENT WORKER/PROGRAM A	
		PRIVATE COMPANY B NONGOVERNMENTAL	
		ORGANIZATION (NGO) C	
		OTHER X (SPECIFY)	
		DON'T KNOW Z	
137	Does your household have any mosquito nets?	YES 1	
		NO 2	→ 149
138	How many mosquito nets does your household have?		
		NUMBER OF NETS	
	IF 7 OR MORE NETS, RECORD '7'.		

MOSQUITO NETS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
	ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN TH FOR EACH NET, ONE BY ONE.	HE HOUSEHOLD. OBSERVE AND ANSWER THE QUESTION	ONS
139	ASSIGN EACH NET A SEQUENTIAL NUMBER AND RECORD THE NUMBER HERE.	NET NUMBER	
140	WAS THIS NET OBSERVED?	OBSERVED 1 NOT OBSERVED 2	
141	How many months ago did your household get the mosquito net?	MONTHS AGO	
	IF LESS THAN ONE MONTH AGO, RECORD '00'.	MORE THAN 36 MONTHS AGO	
142	OBSERVE OR ASK BRAND/TYPE OF MOSQUITO NET. IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT.	INSECTICIDE TREATED NET (ITN) OLYSET	
		OTHER TYPE (NOT ITN) 96 DON'T KNOW TYPE 98	
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 1 YES, ANC 2 YES, IMMUNIZATION VISIT 3 YES, SCHOOL DIST. 4 NO 5	145
144	Where did you get the net?	PRIVATE HEALTH FACILITY 01 PHARMACY/ CHEMIST/DRUG STORE 02 SHOP/MARKET 03 RELIGIOUS INSTITUTION 04 NGO 05 COMMUNITY VOLUNTEERS 06 PETROL STATION/MOBILE MART 07 PRIOR MASS DIST. CAMPAIGN 08 OTHER 96 DON'T KNOW 98	
145	Did anyone sleep under this mosquito net last night?	YES	→ 147 → 148

MOSQUITO NETS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
146	Who slept under this mosquito net last night?	NAME	_
	RECORD THE PERSON'S NAME AND LINE NUMBER FROM HOUSEHOLD SCHEDULE.	LINE NUMBER]
		NAME	<u>-</u>]
		LINE NUMBER	<u> </u>
		NAME	→ 148
		LINE NUMBER	<u> </u>
		NAME	_
		LINE NUMBER	<u> </u>
147	What was the main reason this net was not used last night?	TOO HOT 0 NO MOSQUITOES 02 NO MALARIA 03 PREFER OTHER METHOD (COILS, SPRAY, FANS) 06 NET TOO OLD/TORN 06 CHEMICALS IN NET ARE UNSAFE 06 DON'T LIKE SMELL 07 NET TOO SHORT/SMALL 06 USUAL USER DID NOT SLEEP HERE 06 EXTRA NET/SAVING FOR LATER 16 NET WAS BEING WASHED/DRIED/ 1 AIRED 1 SLEPT OUTSIDE 15 NET BROUGHT BUGS 15 DON'T LIKE SHAPE 16 DO NOT LIKE TEXTURE 15 OTHER 96 (SPECIFY) 96	2 3 4 5 6 7 8 9 0 1 2 3 4 5
148 (9)	GO BACK TO 139 FOR NEXT NET; OR, IF NO MORE NETS, GO	O TO 149.	

ADDITIONAL HOUSEHOLD CHARACTERISTICS

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?	OBSERVED, FIXED PLACE 1 OBSERVED, MOBILE 2 NOT OBSERVED, NOT IN DWELLING/YARD/PLO1 3 NOT OBSERVED, NO PERMISSION TO SEE 4 NOT OBSERVED, OTHER REASOI 5	152
150	OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING. RECORD OBSERVATION.	WATER IS AVAILABLE	
151	OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT AT THE PLACE FOR HANDWASHING. RECORD OBSERVATION.	SOAP OR DETERGENT (BAR, LIQUID, POWDER, PASTE) A ASH, MUD, SAND B NONE Y	
152	OBSERVE MAIN MATERIAL OF THE FLOOR OF THE DWELLING. RECORD OBSERVATION.	NATURAL FLOOR EARTH/SAND 11 DUNG 12 RUDIMENTARY FLOOR WOOD PLANKS 21 PALM/BAMBOO 22 FINISHED FLOOR 31 VINYL OR ASPHALT STRIPS 32 CERAMIC/MARBLE/PORCELAIN 31 TILES/TERRAZO 33 CEMENT 34 WOOLEN CARPET/SYNTHETIC CARPE 35 LINOLEUM/RUBBER CARPET 36 OTHER 96 (SPECIFY)	
153	OBSERVE MAIN MATERIAL OF THE ROOF OF THE DWELLING. RECORD OBSERVATION.	NATURAL ROOFING NO ROOF 11 THATCH/PALM LEAF 12 SOD 13 RUDIMENTARY ROOFING RUSTIC MAT 21 PALM/BAMBOO 22 WOOD PLANKS 23 CARDBOARD 24 FINISHED ROOFING ZINC/ALUMINIUM 31 WOOD 32 CERAMIC/BRICK TILES 33 CEMENT 34 ROOFING SHINGLES 35 ASBESTOS/SLATE ROOFING SHEETS 36 OTHER 96	
		OTHER96 (SPECIFY)	

ADDITIONAL HOUSEHOLD CHARACTERISTICS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
154	OBSERVE MAIN MATERIAL OF THE EXTERIOR WALLS OF THE DWELLING. RECORD OBSERVATION.	NATURAL WALLS NO WALLS 11 CANE/PALM/TRUNKS 12 DIRT 13 RUDIMENTARY WALLS BAMBOO WITH MUD 21 STONE WITH MUE 22 UNCOVERED ADOBE 23 PLYWOOD 24 CARDBOARD 25 REUSED WOOD 26 FINISHED WALLS CEMENT 31 STONE WITH LIME/CEMENT 32 BRICKS 33 CEMENT BLOCKS 34 COVERED ADOBE 35 WOOD PLANKS/SHINGLES 36 OTHER 96	
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? TEST SALT FOR IODINE.	SALT TESTED 1 IODINE PRESENT 1 NO IODINE 2 SALT NOT TESTED HOUSEHOLD USES SALT BUT THERE IS NO SALT IN THE HOUSEHOLD 3 HOUSEHOLD DOES NOT USE SALT 4 SALT NOT TESTED 6 (SPECIFY REASON) 6	
156	RECORD THE TIME.	HOURS	

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS

FORMATTING DATE: 8 Apr 2022 ENGLISH LANGUAGE: 8 Apr 2022

2022 GHANA DEMOGRAPHIC AND HEALTH SURVEYS WOMAN'S QUESTIONNAIRE

GHANA GHANA STATISTICAL SERVICE

IDENTIFICATION					
PLACE NAME					
NAME OF HOUSEHOL	LD HEAD				
CLUSTER NUMBER					
HOUSEHOLD NUMBE	:R				
NAME AND LINE NUM	IBER OF WOMAN				
HOUSEHOLD SELECT	TED FOR MAN'S SURV	/EY? (1=YES, 2=NO)			
CHECK COVER PAGE	OF HOUSEHOLD QU	ESTIONNAIRE: HOUSE	EHOLD SELECTED F	FOR DV MODULE? (1=YES, 2=NO)	
		INTERVIEWER	VISITS		
	1	2	3	FINAL VISIT	
DATE				DAY MONTH	
INTERVIEWER'S NAME RESULT*				YEAR INT. NO. RESULT*	
NEXT VISIT: DATE				TOTAL NUMBER OF VISITS	
2 N	*RESULT CODES: 1 COMPLETED 4 REFUSED 2 NOT AT HOME 5 PARTLY COMPLETED 7 OTHER 3 POSTPONED 6 INCAPACITATED SPECIFY				
LANGUAGE OF QUESTIONNAIRE**					
LANGUAGE OF QUESTIONNAIRE** ENGLISH 01 ENGLISH 02 AKAN 04 EWE					
TEAM		TEAM SU	IPERVISOR		
NUMBER		NAME	NUMBE	R	

INTRODUCTION AND CONSENT

Hello. My name is 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.						
	you need more information about the survey, you may cousehold.	ontact the person listed on the card that has already been gi	ven to			
-	have any questions? egin the interview now?					
SIGNAT	URE OF INTERVIEWER	DATE				
	RESPONDENT AGREES TO BE INTERVIEWED 1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . 2 —	→ END			
	SECTION 1. RESPO	NDENT'S BACKGROUND				
NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP			
101	RECORD THE TIME.	HOURS				
		MINUTES				
102	What REGION were you born in?	WESTERN 01 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	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)?	YEARS	> 110			
	IF LESS THAN ONE YEAR, RECORD '00' YEARS.	VISITOR 96				
105		YEARS R MORE	→ 107			
106	In what month and year did you move here?	MONTH				
107	Just before you moved here, which REGION did	WESTERN 01				

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CAT	regories	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	
		ОТІ		
		NORTHERN	12	
		SAVANNAH	13	
		NORTH EAST	14	
		UPPER EAST		
		UPPER WEST		
		OUTSIDE OF GHANA	96	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
108	Just before you moved here, did you live in a city, in a town, or in a rural area?	CITY 1 TOWN 2 RURAL AREA 3	
109	Why did you move to this place?	EMPLOYMENT 01 EDUCATION/TRAINING 02 MARRIAGE FORMATION 03 FAMILY REUNIFICATION/OTHER FAMILY-RELATED REASON 04 FORCED DISPLACEMENT 05 OTHER 96 (SPECIFY) (SPECIFY)	
110	In what month and year were you born?	MONTH 98 DON'T KNOW MONTH 98 YEAR 9998	
111	How old were you at your last birthday? COMPARE AND CORRECT 110 AND/OR 111 IF INCONSISTENT.	AGE IN COMPLETED YEARS	
112	In general, would you say your health is very good, good, moderate, bad, or very bad?	VERY GOOD 1 GOOD 2 MODERATE 3 BAD 4 VERY BAD 5	
113	Have you ever attended school?	YES	→ 117
114	What is the highest level of school you attended:pre-primary, primary, middle, JSS/JHS, secondary, SSS/SHS, or higher?	PRE- PRIMARY 1 PRIMARY 2 MIDDLE 3 JSS/JHS 4 SECONDARY 5 SSS/SHS 6 HIGHER 7	
115	What is the highest [GRADE/FORM/YEAR] you completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	[GRADE/FORM/YEAR]	
116	CHECK 114: PRIMARY, MIDDLE, JSS/JHS, □ SECONDARY, OR SSS/SHS ↓	HIGHER	→ 119
117	Now I would like you to read this sentence to me. SHOW CARD TO RESPONDENT. IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: Can you read any part of the sentence to me?	CANNOT READ AT ALL 1 ABLE TO READ ONLY PART OF THE SENTENCE 2 ABLE TO READ WHOLE SENTENCE 3 NO CARD WITH REQUIRED LANGUAGE 4 (SPECIFY LANGUAGE) BLIND/VISUALLY IMPAIRED 5	
118		'1' OR '5' CIRCLED	→ 120

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?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
120	Do you listen to the radio at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
121	Do you watch television at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
122	Do you own a mobile phone?	YES	→ 127
123	Is your mobile phone a smart phone?	YES	
127	Have you ever used the Internet from any location on any device?	YES	→ 130
128	In the last 12 months, have you used the Internet? IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE.	YES	→ 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?	ALMOST EVERY DAY 1 AT LEAST ONCE A WEEK 2 LESS THAN ONCE A WEEK 3 NOT AT ALL 4	
130	What is your religion?	CATHOLIC 01 ANGLICAN 02 METHODIST 03 PRESBYTERIAN 04 PENTECOSTAL/CHARISMATIC 05 OTHER CHRISTIA 06 ISLAM 07 TRADITIONAL/SPIRITUALIS 08 NO RELIGION 95 OTHER 96 (SPECIFY)	
131	What is your ethnic group?	AKAN 01 GA/DANGME 02 EWE 03 GUAN 04 MOLE-DAGBANI 05 GRUSI 06 GURMA 07 MANDE 08 OTHER	

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	→206
202	Do you have any sons or daughters to whom you have given birth who are now living with you?	YES	→ 204
203	a) How many sons live with you?b) And how many daughters live with you?IF NONE, RECORD '00'.	a) SONS AT HOMIb) 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	→206
205	a) How many sons are alive but do not live with you?b) And how many daughters are alive but do not live with you?IF NONE, RECORD '00'.	a) SONS ELSEWHERE b) DAUGHTERS ELSEWHERE	
206	Have you ever given birth to a boy or girl who was born alive but later died? 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	YES	→ 208
207	a) How many boys have died?b) And how many girls have died?IF NONE, RECORD '00'.	a) BOYS DEADb) GIRLS DEAD	
208	SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.	TOTAL LIVE BIRTHS	
209	CHECK 208: Just to make sure that I have this right: you have had it YES	n TOTAL births during your life. Is that correct? NO PROBE AND CORRECT 201- 208 AS	
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?	YES	→ 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		IO PAST ANCIES	→ 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 IF 215=1, ASK: What How long did this FOR ROW 01 Think Did CHECK 216 ls back to Was the baby the name was (NAME) AND 217: TYPE pregnancy last in ASK: born alive, born baby given to a boy or weeks or months? Were there any vour dead, or did you (first/next) the baby? a girl? PREGNANCY other pregnancies cry, pregnancy have a move, OUTCOME. before this . Was that miscarriage or pregnancy? or NOTE: IF 217=1, abortion? breath a single pregnancy THEN AFTER ROW 01: IF 215 > 1. ASK: , twins, or **PREGNANCY** Was the triplets? OUTCOME= IF 215=1 OR THIS (first/next) baby RECORD RECORD IN BORN ALIVE. IS THE FIRST in this NAME. COMPLETED BIRTH OF A **MULTIPL** pregnancy born WEEKS OR IF BORN ALIVE, MUI TIPI F E PREGalive or born ASK: On what MONTHS. PREGNANCY, NANCY: day, month, and ASK: Were there COPY year was any other VALUE (NAME) born? pregnancies FOR 215 between the IN NEXT IF BORN DEAD, previous ROW(S). pregnancy and this MISCARRIAGE, pregnancy? PREG-OR AN NANCY ABORTION. HISTORY IF 215 > 1 AND ASK: On what THIS IS NOT THE LINE day, month, and FIRST BIRTH OF NUMBER 01 **BORN ALIVE** YFS DAY **WEEKS** (SKIP TO 218) ← (ADD YES 1 BOY PREGNANC SING 1 1 TWINS 2 Y) MONTHS 2 MONTH **BORN DEAD** GIRL NO 2 2 2 NAME TRIP 3 MISCARRIAG 3 NO (SKIP SKIP TO 220) (NEXT NO. ROW) **ABORTION** TO YEAR 220) OUT 02 **BORN ALIVE** YES 1 YES **WEEKS** DA (SKIP TO 218) ← (ADD SING 1 BOY 1 PREGNANC TWINS 2 NO 2 Y) MONTH MONTHS 2 GIRL **BORN DEAD** 2 2 TRIP 3 (SKIP NAME NO MISCARRIAG 3-TO SKIP TO 220) (NEXT NO 220) ROW) **ABORTION** YEAR OUT-BORN ALIVE 03 YES 1 YES WEEKS DAY (SKIP TO 218) ✓ BOY (ADD SING 1 1 PREGNANC TWINS 2 NO 2 Y) MONTH MONTHS 2 **BORN DEAD GIRL** 2 2 **TRIP** 3 MISCARRIAG 3. (SKIP NAME NO TO SKIP TO 220) (NEXT NO. 220) ROW) **ABORTION** YEAR OUT-222A Have you had any pregnancies that ended since the last YES 1→ADD TO TABLE pregnancy mentioned? NO 2 222B READ THE LIST OF PREGNANCY OUTCOMES IN ORDER TO THE RESPONDENT AND ASK IF THEY ARE ALL THAT SHE HAS EVER HAD, AND IF THEY ARE LISTED IN ORDER STARTING FROM THE FIRST ONE. DOES THE RESPONDENT AGREE? IF NOT, PROBE FOR THE CORRECT INFORMATION AND REVISE THE PREGNANCY HISTORY ACCORDINGLY. IF YES, PROCEED TO 223 ROW 1.

	223	224	225	226	227	228
	223	224			STILL LIVING:	IF BORN ALIVE
						AND NOW DEAD:
	CHECK 216, 217 AND 221:	ls (NAME	How old was	ls (NAME	RECORD HOUSEHOL	How old was (NAME) when
) still	(NAME)) living	D LINE	(he/she) died?
	IF 216=1 OR 217=1, THEN	alive?	at (his/her)	with you?	NUMBER OF CHILD.	IF '12 MONTHS'
	PREGNANCY		last	you.	RECORD	OR '1 YR', ASK:
	OUTCOME = BORN ALIVE.		birthday?		'00' IF CHILD NOT LISTED	Did (NAME) have (his/her) first
					IN	birthday?
	IF 216=2 OR 3, THEN CHECK 221.				HOUSEHOL D.	THEN ASK:
	IF 221 ≥ 7 MONTHS OR 28					Exactly how many months old was
	WEEKS, THEN		RECORD			(NAME) when
	PREGNANCY OUTCOME =		AGE IN COMP-			(he/she) died? RECORD DAYS IF
	BORN DEAD.		LETED YEARS.			LESS THAN 1
	IF 221 < 7 MONTHS OR 28		TEARS.			MONTH; MONTHS IF LESS THAN
	WEEKS, FINAL PREGNANCY					TWO YEARS; OR YEARS.
	OUTCOME =					TLANO.
	MISCARRIAGE.					
Ш	IF 216=4, THEN PREGNANCY					
01	BORN ALIVE 1 1	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1
		NO 2		NO 2		MONTHS 2
	BORN DEAD 2 7	↓				MONTHS 2
	MISCARRIAGE 3 -	(SKIP TO			↓	YEARS 3
	ABORTION 4	228)			(SKIP TO 223 IN NEXT	(SKIP TO 223 IN
	<u> </u>				ROW)	NEXT ROW)
02	BORN ALIVE 1	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1
		NO 2		NO 2		MONTHS 2
	BORN DEAD 2	↓				
	MISCARRIAGE 3 -	(SKIP TO			∀ (SKIP TO 223	YEARS 3
	ABORTION 4	228)			IN NEXT	(SKIP TO 223 IN
	↓				ROW)	NEXT ROW)
03	BORN ALIVE 1	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1
		NO 2	12/11/0	NO 2	LINE NOWDER	
	BORN DEAD 2 7			2		MONTHS 2
	MISCARRIAGE 3 -	(SKIP			↓	YEARS 3
	ABORTION 4	TO 228)			(SKIP TO 223 IN NEXT	(SKIP TO 223 IN
	<u> </u>				ROW)	` NEXT ROW)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
230	COMPARE 212 WITH NUMBER OF PREGNANCY OU NUMBER IN PREGNANCY HISTORY IS GREATER THAN OR EQUAL TO 212	NUMBER IN PREGNANCY HISTORY NUMBER IN PREGNANCY HISTORY IS LESS THAN 212 (PROBE AND RECONCILE)	
231	LIVE BIRTH, RECORD 'P' IN EACH OF THE DURATION OF PREGNANCY. (NOTE: THE NUMBER OF MONTHS THAT THE PREGNATOR EACH PREGNANCY THAT DID NOT E THE CALENDAR IN THE MONTH THAT THE REMAINING NUMBER OF COMPLETED MO	HILD TO THE LEFT OF THE 'B' CODE. FOR EACH PRECEDING MONTHS ACCORDING TO THE NUMBER OF 'P'S MUST BE ONE LESS THAN THE ANCY LASTED.) ND IN A LIVE BIRTH IN 2017-2022, ENTER 'T' IN E PREGNANCY TERMINATED AND 'P' FOR THE DNTHS OF PREGNANCY. DRTED IN WEEKS, MULTIPLY THE NUMBER OF MONTHS. ROUND DOWN TO THE	
232	Are you pregnant now?	YES 1 NO 2 UNSURE 8	→ 236
233	How many weeks or months pregnant are you? RECORD NUMBER OF COMPLETED WEEKS OR MONTHS. ENTER 'P's IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL NUMBER OF COMPLETED MONTHS. 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	
234	When you got pregnant, did you want to get pregnant at that time?	YES	→236
235	ONE OR MORE a) Did you want to have a baby later on or did you not want any more children? CHECK 208: TOTAL NUMBER OF LIVE BIRTHS NONE b) Did you want to have a baby later on or did you not want any children?	LATER	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
236	When did your last menstrual period start? (DATE, IF GIVEN)	DAYS AGO 1	
		HAS HAD HYSTERECTOMY	→ 240 → 241
237	CHECK 236: WAS THE LAST MENSTRUAL PERIOD YES, WITHIN LAST YEAR	NO, ONE YEAR OR MORE	→ 240
238	During your last menstrual period, what did you use to collect or absorb your menstrual blood? Anything else?	REUSABLE SANITARY PADS A DISPOSABLE SANITARY PADS B TAMPONS C MENSTRUAL CUP D CLOTH E TOILET PAPER F COTTON WOOL G UNDERWEAR ONLY H OTHER X (SPECIFY) NOTHING Y	
239	During your last menstrual period, were you able to wash and change in privacy while at home?	YES 1 NO 2 AWAY FROM HOME DURING LAST MENSTRUAL PERIOD 3	
240	How old were you when you had your first menstrual period?	AGE	
241	From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant?	YES 1 NO 2 DON'T KNOW 8]→ 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 PERIOL 2 RIGHT AFTER HER PERIOD HAS ENDEL 3 HALFWAY BETWEEN TWO PERIODS 4 OTHER 6 (SPECIFY) DON'T KNOW 8	
243	After the birth of a child, can a woman become pregnant before her menstrual period has returned?	YES 1 NO 2 DON'T KNOW 8	

SECTION 3. CONTRACEPTION

301	Now I would like to talk about family planning - the various ways or pregnancy. Have you ever heard of (METHOD)?	methods that a couple can use to delay or avoid a	_
01	Female Sterilization. PROBE: Women can have an operation to avoid having any more children.	YES	:
02	Male Sterilization. PROBE: Men can have an operation to avoid having any more children.	YES	
03	IUD. 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	YES	
04	Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.	YES	
05	Implants. 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.	YES	
06	Pill. PROBE: Women can take a pill every day to avoid becoming pregnant.	YES	
07	Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse.	YES	
08	Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse.	YES	
09	Emergency Contraception. PROBE: As an emergency measure, within 3 days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.	YES	
10	Standard Days Method. 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.	YES	_
11	Lactational Amenorrhea Method (LAM). PROBE: Up to 6 months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night.	YES	
12	Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get	YES	
13	Withdrawal. PROBE: Men can be careful and pull out before climax.	YES	
14	Have you heard of any other ways or methods that women or men can use to avoid pregnancy?	YES, MODERN METHOD	
		(SPECIFY) YES, TRADITIONAL METHOD	
		(SPECIFY)	
		NO	

SECTION 3. CONTRACEPTION

	NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
	302	CHECK 232:		
		NOT PREGNANT ☐ OR UNSURE ▼	PREGNANT	→ 317
	303	Are you or your partner currently doing something or using any method to delay or avoid getting	YES	→ 307
	304	Are you or your partner sterilized? IF YES: Who is sterilized, you or your partner?	YES, RESPONDENT STERILIZED ONLY 1 YES, PARTNER STERILIZED ONLY 2 YES, BOTH STERILIZED 3 NO, NEITHER STERILIZED 4	→306
	305	CHECK 304: RESPONDENT		
	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?	YES	→317
	307	Which method are you using? RECORD ALL MENTIONED. IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST.	FEMALE STERILIZATION A MALE STERILIZATION B IUD C INJECTABLES D IMPLANTS E PILL F CONDOM G FEMALE CONDOM H EMERGENCY CONTRACEPTION I STANDARD DAYS METHOD J LACTATIONAL AMENORRHEA METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y	→ 312 → 314 → 314 → 310 → 311 → 314
	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. SHOW IMAGES OF SAYANA PRESS AND REGULAR SYRINGE.	DMPA-SC/SAYANA PRESS 1 NEEDLE AND SYRINGE 2 DON'T KNOW 8]→ 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 INJECTION GIVEN BY HEALTH CARE PROVIDER 2 DON'T KNOW 8	→ 314
•	310	What is the brand name of the pills you are using? IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.	SECURE 01 MICROGYNON 02 DUOFEM 03 N/M TABLETS 04 MICROLUT 05 OTHER 96 (SPECIFY) 98	314

SECTION 3. CONTRACEPTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
311	What is the brand name of the condoms you are using? IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.	FIESTA 01 KISS 02 DUREX 03 GOLD CIRCLE 04 BE SAFE/ NO LOGO 05 OTHER 96 (SPECIFY) 98	314
312	In what facility did the sterilization take place? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR	
313	In what month and year was the sterilization performed?	MONTH YEAR	→ 315
314	Since what month and year have you been using (CURRENT METHOD) without stopping? PROBE: For how long have you been using (CURRENT METHOD) now without stopping?	MONTHYEAR	
315	CHECK 313 AND 314, AND 220: ANY LIVE BIRTH, STILLBIRTH, MISSCARRIAGE OR ABORTION AFTER MONTH AND YEAR OF START OF USE OF CONTRACEPTION IN 313 OR 314? NO GO BACK TO 313 OR 314, PROBE AND RECORD MONTH AND YEAR AT START OF CONTINUOUS USE OF CURRENT METHOD (MUST BE AFTER LAST BIRTH OR PREGNANCY TERMINATION).		

SECTION 3. CONTRACEPTION (CAPI OPTION) (8)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
316 (9) 317 (9)	pregnant during the last few years. USE CALENDAR TO PROBE FOR EARLIEF	YEAR IS 2016 OR EARLIER ENTER CODE FOR METHOD USE MONTH OF INTERVIEW IN THE CALENDAR AND EACH MONTH E JANUARY 2017. THEN (SKIP TO 329) You or your partner may have used a method to avoid ge R PERIODS OF USE AND NONUSE, STARTING WITH M USE NAMES OF CHILDREN, DATES OF BIRTH, AND PE	BACK TO
317A	MONTH AND YEAR OF START OF INTERVAL OF USE OR NON-USE.	MONTH	
317B	Between (EVENT) in (MONTH/YEAR) and (EVENT) in (MONTH/YEAR), did you or your partner use any method of contraception?	YES	→ 317I
317C	Which method was that?	METHOD CODE	
317D	How many months after (EVENT) in (MONTH/YEAR) did you start to use (METHOD)? CIRCLE '95' IF RESPONDENT GIVES THE DATE OF STARTING TO USE THE METHOD.	MONTHS 95	→317F
317E	RECORD MONTH AND YEAR RESPONDENT STARTED USING METHOD.	MONTH	
317F	For how many months did you use (METHOD)? CIRCLE '95' IF RESPONDENT GIVES THE DATE OF TERMINATION OF USE.	MONTHS 95	→ 317H
317G	RECORD MONTH AND YEAR RESPONDENT STOPPED USING METHOD.	MONTH	
317H	Why did you stop using (METHOD)?	REASON STOPPED	
3171	GO BACK TO 317A FOR NEXT GAP; OR, IF NO MORE GAPS, GO TO 318.		

SECTION 3. CONTRACEPTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES		SKIP
318 (1)	Have you used emergency contraception in the last 12 months? That is, have you taken special pills within 3 days after having unprotected sexual intercourse to prevent pregnancy?	YES	1 2	
319	CHECK THE CALENDAR FOR USE OF ANY CONTR.	ACEPTIVE METHOD IN ANY MONTH		
0.0	NO METHOD USED \Box	ANY METHOD USED		
	NO METHOD 03ED	ANT METHOD OSED		→ 321
320	Have you ever used anything or tried in any way to delay or avoid getting pregnant?	YES	1 2	→ 331
321	CHECK 307:	NO CODE CIRCLED	00	→ 331
	CIRCLE METHOD CODE:	_	01 02	→ 324 → 332
	CIRCLE METHOD CODE.	IUD	03	-> 332
	IF MORE THAN ONE METHOD CODE CIRCLED	INJECTABLES	04	
	IN 307, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	IMPLANTS	05 06	
		CONDOM	07	
		FEMALE CONDON	08 09	
		STANDARD DAYS METHOD	10	
		LACTATIONAL AMENORRHEA METHOD RHYTHM METHOE	11 12	332
		WITHDRAWAL	13] ~ 302
		OTHER MODERN METHOD	95 96	→ 332
		THE TRADITIONAL METHOL	30	7 332
322	You first started using (CURRENT METHOD) in	PUBLIC SECTOR		
	(DATE FROM 314). Where did you get it at that time?	GOVERNMENT HOSPITAL	11 12	
		GOVERNMENT HEALTH CENTER	13	
		GOVERNMENT CLINIC	14	
		CHPS CENTER/GOVERNMENT		
	PROBE TO IDENTIFY THE TYPE OF SOURCE.	HEALTH POST COMMUNITY HEALTH SERVICES	15	
		(OUTREACH)	16	
	IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND	OTHER PUBLIC SECTOR		
	WRITE THE NAME OF THE PLACE.		17	
		(SPECIFY)		
		PRIVATE MEDICAL SECTOR		
			21	
		PRIVATE CLINIC	22 23	
			23 24	
		COMMUNITY HEALTH SERVICES		
		(MOBILE CLINIC)	25 26	
		MATERNITY HOME OTHER PRIVATE MEDICAL SECTOR	26	
			27	
		(SPECIFY)		
		NGO MEDICAL SECTOR		
		NGO HOSPITAL/CLINIC	31	
		OTHER NGO MEDICAL SECTOR	32	
		(SPECIFY)	-	
		OTHER SOURCE		
			41	
			42	
		FRIEND/RELATIVE	43	
		OTHER	96	
		(SPECIFY)		
				<u> </u>

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?	YES	→ 325
324	When you got sterilized, were you told about side effects or problems you might have with the	YES	
325	Were you told what to do if you experienced side effects or problems?	YES	
326	At that time, were you told about other methods of family planning that you could use?	YES	
327	CHECK 307: CIRCLE METHOD CODE: IF MORE THAN ONE METHOD CODE CIRCLED IN 307, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	FEMALE STERILIZATION 01 IUD 03 INJECTABLES 04 IMPLANTS 05 PILL 06 CONDOM 07 FEMALE CONDOM 08 EMERGENCY CONTRACEPTION 09 STANDARD DAYS METHOD 10 OTHER MODERN METHOD 95	→ 332
328	At that time, were you told that you could switch to another method if you wanted to or needed to?	YES	→ 330
329	CHECK 307: CIRCLE METHOD CODE: IF MORE THAN ONE METHOD CODE CIRCLED IN 307, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	FEMALE STERILIZATION 01 MALE STERILIZATION 02 IUD 03 INJECTABLES 04 IMPLANTS 05 PILL 06 CONDOM 07 FEMALE CONDON 08 EMERGENCY CONTRACEPTION 09 STANDARD DAYS METHOD 10 LACTATIONAL AMENORRHEA METHOD 11 RHYTHM METHOE 12 WITHDRAWAL 13 OTHER MODERN METHOD 95 OTHER TRADITIONAL METHOI 96]→ 332 → 332 → 332

SECTION 3. CONTRACEPTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
330	Where did you obtain (CURRENT METHOD) the last time? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 11 GOVERNMENT HOSPITAL 11 GOVERNMENT POLYCLINIC 12 GOVERNMENT HEALTH CENTER 13 GOVERNMENT CLINIC 14 CHPS CENTER/GOVERNMENT 15 COMMUNITY HEALTH SERVICES (OUTREACH) 16 OTHER PUBLIC SECTOR 17 (SPECIFY) 17	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 21 PRIVATE CLINIC 22 PHARMACY 23 DRUG STORE 24 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 25 MATERNITY HOME 26 OTHER PRIVATE MEDICAL SECTOR 27 (SPECIFY) 27	332
		NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC	
		OTHER SOURCE 41 SHOP 41 CHURCH 42 FRIEND/RELATIVE 43 DRUG PEDDLERS 44 OTHER 96	
		(SPECIFY)	
331	Do you know of a place where you can obtain a method of family planning?	YES	
332	In the last 12 months, were you visited by a fieldworker?	YES	→ 334
333	Did the fieldworker talk to you about family planning?	YES	
334	a) In the last 12 months, have you visited a health facility for care for yourself or your children? CHECK 202: CHILDREN LIVING WITH NO In the last 12 months, have you visited a health facility for care for yourself?	YES	→ 401
335	Did any staff member at the health facility speak to you about family planning methods?	YES	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
401	CHECK 220 AND 225:		
	ONE OR MORE PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY	NO PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY	→ 601
402	CHECK 220. LIST THE PREGNANCY HISTORY NUMBER IN MONTHS BEFORE THE SURVEY, STARTING FROM THE LOUTCOME BY TYPE USING 223 AND THE ORDER OF OUT PREGNANCY OUTCOME TYPE MOST RECENT LIVE BIRTH 1 PRIOR LIVE BIRTH 2 MOST RECENT STILLBIRTH 3 PRIOR STILLBIRTH 4 ABORTION OR MISCARRIAGE 5 PREGNANCY HISTORY NUMBER PREGNANCY HISTORY NUMBER	AST ONE. CLASSIFY EACH PREGNANCY	
403	Now I would like to ask some questions about your pregnancie separately, starting with the last one you had.)	es in 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 1 PRIOR LIVE BIRTH 2 MOST RECENT STILLBIRTH 3 PRIOR STILLBIRTI 4 MISCARRIAGE/ABORTION 5	→ 407
406	RECORD DATE PREGNANCY ENDED FROM 220.	MONTH YEAR.	→408
407	RECORD NAME FROM 218.		
	NAME		
408	CHECK 405: PREGNANCY TYPE 1 OR 2 a) When you got pregnant with (NAME), did you want to get pregnant at that time? b) When you got pregnant with the pregnancy that ended in (DATE FROM 406), did you want to get pregnant at that	YES	> 411

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	→ 411
410	How much longer did you want to wait?	MONTHS 1 1 YEARS 2 DON'T KNOW 998	
411	CHECK 405: PREGNANCY OUTCOME TYPE	MOST RECENT LIVE BIRTH 1 PRIOR LIVE BIRTH 2 MOST RECENT STILLBIRTH 3 PRIOR STILLBIRTH 4 ABORTION/MISCARRIAGE 5	→ 434 → 434 → 475
412	Did you see anyone for antenatal care for this pregnancy?	YES	→ 414
413	CHECK 405: PREGNANCY OUTCOME TYPE		
	MOST RECENT LIVE BIRTH (SKIP TO 420)	MOST RECENT STILLBIRTH	→ 426
414	Whom did you see? Anyone else? PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED.	HEALTH PERSONNEL DOCTOR	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
415	Where did you receive antenatal care for this pregnancy? Anywhere else?	HOME HER HOME A OTHER HOME B	
	PROBE TO IDENTIFY THE TYPE OF SOURCE.	PUBLIC SECTOR GOVERNMENT HOSPITAL C GOVERNMENT POLYCLINIC D GOVERNMENT HEALTH CENTER E GOVERNMENT CLINIC F CHPS CENTER/GOVERNMENT HEALTH POST G	
	IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD 'X' AND WRITE THE NAME OF THE PLACE(S).	COMMUNITY HEALTH SERVICES (OUTREACH) H OTHER PUBLIC SECTOR (SPECIFY)	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL J PRIVATE CLINIC K MATERNITY HOME L COMMUNITY HEALTH SERVICES (MOBILE CLINIC) M OTHER PRIVATE MEDICAL SECTOR (SPECIFY)	
		NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC O OTHER NGO MEDICAL SECTOR P (SPECIFY) OTHER X	
440		(SPECIFY)	
416	How many weeks or months pregnant were you when you first received antenatal care for this pregnancy?	WEEKS 1 MONTHS 2 DON'T KNOW 998	
417	How many times did you receive antenatal care during this pregnancy?	NUMBER OF TIMES	
418	As part of your antenatal care during this pregnancy, did a healthcare provider do any of the following:	YES NO DK	
	 a) Measure your blood pressure? b) Take a urine sample? c) Take a blood sample? d) Listen to the baby's heartbeat? e) Talk with you about which foods or how much food you should eat? f) Talk with you about breastfeeding? g) Ask you if you had vaginal bleeding? 	a) BP 1 2 8 b) URINE 1 2 8 c) BLOOD 1 2 8 d) HEARTBEA 1 2 8 e) FOODS 1 2 8 f) BREASTFEED 1 2 8 g) BLEEDING 1 2 8	
419	CHECK 405: PREGNANCY OUTCOME TYPE MOST RECENT LIVE BIRTH	MOST RECENT STILLBIRTH	→ 426

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
420	During this pregnancy, were you given an injection (Tetanus-Diphtheria) in the arm to prevent the baby from getting tetanus after birth?	YES]→ 423
421	During this pregnancy, how many times did you get a tetanus injection?	TIMES 8	
422	CHECK 421:		
	ONE TIME ☐ OR DK ↓	TWO OR MORE TIMES	→ 426
423	At any time before this pregnancy, did you receive any tetanus injections?	YES	→ 426
424	Before this pregnancy, how many times did you receive a tetanus injection?	TIMES	
	IF 7 OR MORE TIMES, RECORD '7'.	DON'T KNOW 8	
425	CHECK 424: ONLY ONE TIME THAN ONE THAN ONE ONE THAN ONE ONE THAN ONE THAN ONE THAN ONE THAN ONE ONE OF THAN ONE ONE OF THAN ONE OF THE ONE OF THAN ON	YEARS AGO	
426	During this pregnancy, were you given or did you buy any iron tablets or iron syrup? SHOW TABLETS/SYRUP	YES]→ 429
427	Where did you get the iron tablets or syrup? Anywhere else? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD 'X' AND WRITE THE NAME OF THE PLACE(S).	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT POLYCLINIC B GOVERNMENT POLYCLINIC D GOVERNMENT CLINIC D CHPS CENTER/GOVERNMENT HEALTH POST E COMMUNITY HEALTH SERVICES (OUTREACH) F OTHER PUBLIC SECTOR PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL H PRIVATE CLINIC I MATERNITY HOME J COMMUNITY HEALTH SERVICES (MOBILE CLINIC) K OTHER PRIVATE MEDICAL SECTOR (SPECIFY) NGO MEDICAL SECTOR L (SPECIFY)	
		(SPECIFY) N	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
		OTHER SOURCE SHOP O MARKET P OTHER X (SPECIFY)	
428	During the whole pregnancy, for how many days did you take the iron tablets or syrup?	DAYS	
	IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF DAYS.	DON'T KNOW	
429	During this pregnancy, did you take any medicine for intestinal worms?	YES	
431	During this pregnancy, did you take SP/Fansidar to keep you from getting malaria?	YES	→ 434
432	How many times did you take SP/Fansidar during this pregnancy?	TIMES	
432A	CHECK 432: CODE '01' OR '02' TIMES	OTHER	
	ENTERED ENTERED	OTHER [→ 433
432B	Why did you take SP/Fansidar only one or two times during this pregnancy?	FACILITY TOU FAR A HAD NO MONEY B SIDE EFFECTS C NOT AWARE HAD TO TAKE MORE D DID NOT WANT TO TAKE MORE F NOT GIVEN F NOT AVAILABLE G	
	RECORD ALL MENTIONED.	OTHER X (SPECIFY) DON'I KNOW Z	
433	Did you get the SP/Fansidar during any antenatal care visit, during another visit to a health facility or from another source? IF MORE THAN ONE SOURCE, RECORD THE HIGHEST	ANTENATAL VISIT	
	SOURCE ON THE LIST.		
434	CHECK 405: PREGNANCY TYPE 1 OR 2 a) Who assisted with the delivery of (NAME)? Anyone else? PREGNANCY TYPE 3 OR 4 b) Who assisted with the delivery of the stillbirth you had in (DATE FROM 406)?	HEALTH PERSONNEL DOCTOR	
	PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY.	OTHER X (SPECIFY) NO ONE ASSISTED Y	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
435	PREGNANCY TYPE 1 OR 2 3 OR 4 3 OR 4 4 3 OR 4 4 3 OR 4 4 5 OR 1 OR 2 5 OR 2 OR 2 OR 2 OR 2 OR 2 OR 2 OR	## HOME HER HOME OTHER HOME OTHER HOME 11: PUBLIC SECTOR GOVERNMENT HOSPITAL GOVERNMENT POLYCLINIC GOVERNMENT HEALTH CENTER GOVERNMENT CLINIC CHPS CENTER/GOVERNMENT HEALTH POST COMMUNITY HEALTH SERVICES (OUTREACH) OTHER PUBLIC SECTOR PRIVATE MEDICAL SECTOR PRIVATE CLINIC MATERNITY HOME COMMUNITY HEALTH SERVICES (MOBILE CLINIC) OTHER PRIVATE MEDICAL SECTOR (SPECIFY) NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC OTHER NGO MEDICAL SECTOR (SPECIFY) OTHER (SPECIFY) OTHER (SPECIFY)	2
436	CHECK 405: PREGNANCY TYPE 1 OR 2 a) Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out? PREGNANCY TYPE 3 OR 4 b) Was this stillbirth delivered by caesarean, that is, did they cut your belly open to take the baby out?	(SPECIFY) YES	
437	CHECK 405: PREGNANCY OUTCOME TYPE	MOST RECENT LIVE BIRTH 1 PRIOR LIVE BIRTH 2 MOST RECENT STILLBIRTH 3 PRIOR STILLBIRTI 4	→ 441 → 445
438	After the birth, was (NAME) put on your chest?	YES	1→ 441
439	Was (NAME)'s bare skin touching your bare skin?	YES	T→ 441
440	How long after birth was (NAME) put on the bare skin of your chest? PROBE FOR A NUMERIC RESPONSE. IF LESS THAN 1 HOUR, RECORD '00' HOURS; IF 24 HOURS OR MORE, RECORD 24.	HOURS 00	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
441	When (NAME) was born, was (NAME) very large, larger than average, average, smaller than average, or very small?	VERY LARGE 1 LARGER THAN AVERAGE 2 AVERAGE 3 SMALLER THAN AVERAGE 4 VERY SMALL 5 DON'T KNOW 8	
442	Was (NAME) weighed at birth?	YES]→ 444
443	How much did (NAME) weigh?	KG FROM CARD 1 .	
	RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE.	KG FROM RECALI 2 .	
		DON'T KNOW 99998	
444	CHECK 405: PREGNANCY OUTCOME TYPE MOST RECENT LIVE BIRTH	PRIOR LIVE BIRTH	→ 480
445	CHECK 435: PLACE OF DELIVERY		
	FACILITY BIRTH: ANY CODE 21 THROUGH 46 CIRCLED	CODE 11, 12, OR 96 CIRCLED	→ 464
447	a) How long after (NAME) was delivered did you stay in (FACILITY IN 435)? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS 1 DAYS 2 WEEKS 3 DON'T KNOW 998	
448	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. Before you left the facility, did anyone check on your health?	YES	→ 451
449	How long after delivery did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
450	Who checked on your health at that time?	HEALTH PERSONNEL DOCTOR	
	PROBE FOR MOST QUALIFIED PERSON.	OTHER PERSON TRADITIONAL BIRTH ATTENDANT 21 COMMUNITY HEALTH WORKER/ VOLUNTEER 22	
		OTHER96 (SPECIFY)	
451	CHECK 405: PREGNANCY OUTCOME TYPE		
	MOST RECENT LIVE BIRTH	MOST RECENT STILLBIRTH	→ 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). Before (NAME) left the facility, did anyone check on (NAME'S) health?	YES] → 455
453	How long after delivery was (NAME)'s health first checked?	HOURS 1	
	IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	DAYS	
		DON'T KNOW 998	
454	Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
		VOLUNTEER 22 OTHER 96 (SPECIFY) 96	
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?	YES	→ 459
456	How long after delivery did that check take place?	HOURS 1	
	IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	DAYS	
457	Who checked on your health at that time?	HEALTH PERSONNEL DOCTOR	
	PROBE FOR MOST QUALIFIED PERSON.	OTHER PERSON TRADITIONAL BIRTH ATTENDANT 21 COMMUNITY HEALTH WORKER/ VOLUNTEER 22	
		OTHER96 (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
458	Where did the check take place?	HOME 11 HER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT POLYCLINIC 22 GOVERNMENT POLYCLINIC 23 GOVERNMENT HEALTH CENTER 23 GOVERNMENT CLINIC 24 CHPS CENTER/GOVERNMENT 15 COMMUNITY HEALTH SERVICES (OUTREACH) 26 OTHER PUBLIC SECTOR 27 (SPECIFY)	
		NGO HOSPITAL/CLINIC	
459	CHECK 405: PREGNANCY OUTCOME TYPE MOST RECENT LIVE BIRTH	MOST RECENT STILLBIRTH	→ 474
460	After (NAME) left (FACILITY IN 435) did any health care provider or a traditional birth attendant check on (NAME)'s health?	YES]→ 473
461	How long after the birth of (NAME) did that check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS 1 1	
462	Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
		(SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
463	Where did this check of (NAME) take place?	HOME 11 HER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT POLYCLINIC 22 GOVERNMENT HEALTH CENTER 23 GOVERNMENT CLINIC 24 CHPS CENTER/GOVERNMENT HEALTH POST 25 COMMUNITY HEALTH SERVICES (OUTREACH) 26 OTHER PUBLIC SECTOR	473
		(SPECIFY)	→ 473
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATE CLINIC 32 MATERNITY HOME 33 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 34 OTHER PRIVATE MEDICAL SECTOR 35 (SPECIFY) 35	
		NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC	
		OTHER (SPECIFY) 96 (SPECIFY)	7
464	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)? PREGNANCY TYPE 3 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	YES	→ 468
465	How long after delivery did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS	
		DON'T KNOW 998	
466	Who checked on your health at that time?	HEALTH PERSONNEL DOCTOR	
	PROBE FOR MOST QUALIFIED PERSON.	OTHER PERSON TRADITIONAL BIRTH ATTENDANT 21 COMMUNITY HEALTH WORKER/ VOLUNTEER 22 OTHER96 (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
467	Where did this first check take place?	HOME 11 HER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 21 GOVERNMENT HOSPITAL 21 GOVERNMENT POLYCLINIC 22 GOVERNMENT HEALTH CENTER 23 GOVERNMENT CLINIC 24 CHPS CENTER/GOVERNMENT 4 HEALTH POST 25 COMMUNITY HEALTH SERVICES (OUTREACH) 26 OTHER PUBLIC SECTOR 27 (SPECIFY) 27	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 31 PRIVATE CLINIC 32 MATERNITY HOME 33 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 34 OTHER PRIVATE MEDICAL SECTOR (SPECIFY) NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC 41 OTHER NGO MEDICAL SECTOR (SPECIFY) OTHER (SPECIFY) 96 (SPECIFY)	
468	CHECK 405: PREGNANCY OUTCOME TYPE		
	MOST RECENT LIVE BIRTH	MOST RECENT 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). After (NAME) was born, did any health care provider or a traditional birth attendant check on (NAME's) health?	YES] → 473
470	How long after the birth of (NAME) did that check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS 1 DAYS 2 DON'T KNOW 998	
471	Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
472	Where did this first check of (NAME) take place?	HOME 11 HER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 21 GOVERNMENT HOSPITAL 21 GOVERNMENT POLYCLINIC 22 GOVERNMENT HEALTH CENTER 23 GOVERNMENT CLINIC 24 CHPS CENTER/GOVERNMENT 4 HEALTH POST 25 COMMUNITY HEALTH SERVICES (OUTREACH) 26 OTHER PUBLIC SECTOR 27 (SPECIFY) 27	
		PRIVATE MEDICAL SECTOR	
473	During the first 2 days after (NAME)'s birth, did any health care provider do the following: a) Examine the cord? b) Measure (NAME)'s temperature? c) Tell you how to recognize if your baby needs immediate medical attention? d) Talk with you about breastfeeding? e) Observe (NAME) breastfeeding to see if you are doing it correctly?	YES NO DK a) CORD 1 2 8 b) TEMPERATURE 1 2 8 c) MEDICAL ATTENTION 1 2 8 d) TALK ABOUT BREASTFEEDING 1 2 8 e) OBSERVE BREASTFEEDING 1 2 8	
474	During the first 2 days after the birth, did any healthcare provider do the following to you: a) Measure your blood pressure? b) Discuss your vaginal bleeding with you? c) Discuss family planning with you?	YES NO DK a) BLOOD PRESSURE 1 2 8 b) BLEEDING 1 2 8 c) FAMILY PLANNING 1 2 8	
475	CHECK 215: IS THIS PREGNANCY THE WOMAN'S LAST PR	REGNANCY?	→ 479

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OR DATE	PREGNANCY HISTORY NUMBER	
476	a) Has your menstrual period returned since the birth of (NAME)? PREGNANCY TYPE 1 b) PREGNANCY TYPE 3 OR 5 b) Has your menstrual period returned since the pregnancy that ended in (DATE FROM 406)?	YES	
477	CHECK 232: IS RESPONDENT PREGNANT?	PREGNANT OR UNSURE	→ 479
478	a) Have you had sexual intercourse since the birth of (NAME)? PREGNANCY TYPE 1 PREGNANCY TYPE 3 OR 5 b) Have you had sexual intercourse since the pregnancy that ended in (DATE FROM	YES	
479	CHECK 405: PREGNANCY OUTCOME TYPE	MOST RECENT LIVE BIRTH 1 MOST RECENT STILLBIRTH 3 MISCARRIAGE/ABORTION 5]→ 487
480	Did you ever breastfeed (NAME)?	YES	→ 482
481	CHECK 224 FOR CHILD:	LIVING D	→ 486 → 487
482	How long after birth did you first put (NAME) to the breast? IF LESS THAN 1 HOUR, RECORD '00' HOURS; IF LESS THAN 24 HOURS, RECORD HOURS; OTHERWISE, RECORD DAYS. 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?	IMMEDIATELY 000 HOURS 1 DAYS 2 YES 1 NO 2	
484	CHECK 224 FOR CHILD:	DEAD	→ 487
485	Are you still breastfeeding (NAME)?	YES	
486	Did (NAME) drink anything from a bottle with a nipple yesterday during the day or at night?	YES 1 NO 2 DON'T KNOW 8	
487	CHECK 402: ANY MORE PREGNANCY OUTCOMES 0-35 M MORE PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY (GO TO 404 FOR THE NEXT PREGNANCY OUTCOME)	ONTHS BEFORE THE SURVEY? NO MORE PREGNANCY OUTCOMES 0-35 MONTHS BEFORE THE SURVEY	→ 501

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
501	CHECK 220, 224 AND 225 IN THE PREGNANCY HIST MONTHS BEFORE THE SURVEY?	ORY: ANY SURVIVING CHILDREN BORN 0-35	
	ONE OR MORE SURVIVING CHILDREN BORN 0-35 MONTHS BEFORE THE SURVEY	NO SURVIVING CHILDREN BORN 0-35 MONTHS BEFORE THE SURVEY	→ 601
502	Now I would like to ask some questions about vaccinati (We will talk about each separately, starting with the yo		
503	RECORD THE NAME AND PREGNANCY HISTORY NI CHILDREN BORN 0-35 MONTHS BEFORE THE SURV		
	NAME OF CHILD	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	→ 507 → 507
505	Did you ever have a vaccination card, or a weighing card, for (NAME)?	YES	
506	CHECK 504: 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	→ 513
508	RECORD (NAME'S) DATE OF BIRTH FROM THE VACCINATION CARD OR OTHER DOCUMENT.	DAY	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
	NAME OF LIVE BIRTH	PREGNANCY HISTORY NUMBER	
509	COPY VACCINATION DATES FROM THE CARD FOR RECORD '44' IN 'DAY' COLUMN IF CARD SHOWS TH RECORDED. RECORD '00' IN 'DAY' COLUMN IF CARI	AT A DOSE WAS GIVEN, BUT NO DATE IS	
		DAY MONTH YEAR	
	BCG		
	POLIO 0/ OPV 0		
	HEPATITIS B AT BIRTH		
	POLIO 1/ OPV 1		
	DPT-HEP.B-HIB (PENTAVALENT) 1		
	PNEUMOCOCCAL 1		
	ROTAVIRUS 1		
	POLIO 2/ OPV 2		
	DPT-HEP.B-HIB (PENTAVALENT) 2		
	PNEUMOCOCCAL 2		
	ROTAVIRUS 2		
	POLIO 3/ OPV 3		
	DPT-HEP.B-HIB (PENTAVALENT) 3		
	PNEUMOCOCCAL 3		
	IPV (INACTIVATED POLIO VACCINE)		
	MEASLES-RUBELLA 1		
	YELLOW FEVER		
	MEASLES-RUBELLA 2		
	MENINGITIS A		
	VITAMIN A (MOST RECENT)		
510	ASK THE RESPONDENT FOR PERMISSION TO PHOTOGRAPH VACCINATION CARD OR OTHER DOCUMENT WHERE VACCINATIONS ARE WRITTEN. IF PERMISSION IS GRANTED, PHOTOGRAPH CARD.	PHOTOGRAPH TAKEN 1 PHOTOGRAPH NOT TAKEN, 2 PERMISSION NOT RECEIVED 2 PHOTOGRAPH NOT TAKEN, 6 OTHER REASON 6 (SPECIFY)	
511	CHECK 509: 'BCG' TO 'MENINGITIS A' ALL HAVE A D	DATE RECORDED OR '44' RECORDED IN THE 'DAY'	
	COLUMN?	YES	→ 529
	▼		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	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?	YES	
	RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 509 THAT ARE NOT RECORDED AS HAVING BEEN GIVEN.	(THEN SKIP TO 529) ← NO	
512A	OUEQUE FOO. AND VACCINATIONS DECORDED ON T	LIFOARRO	
512A	CHECK 509: ANY VACCINATIONS RECORDED ON TO YES SKIP TO 529	NO NO	→ 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]→ 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 1 NO 2 DON'T KNOW 8	
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 1 NO 2 DON'T KNOW 8]→ 517
516	Did (NAME) receive it within 24 hours of birth?	YES	
517	Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio?	YES]→ 521
518	Did (NAME) receive the first oral polio vaccine in the first 2 weeks after birth or later?	FIRST TWO WEEKS 1 LATER 2	
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 1 NO 2 DON'T KNOW 8	
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	→ 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 1 NO 2 DON'T KNOW 8	→ 525

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]→ 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]→ ^{528A}
528	How many times did (NAME) receive a measles-rubella 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	
528B	Has (NAME) ever received a meningitis A vaccination, that is, an injection in the RIGHT upper arm to prevent meningitis A?	YES 1 NO 2 DON'T KNOW 8	
529	Where did (NAME) receive most of his/her vaccinations? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL	
530	CHECK 220 AND 224 IN PREGNANCY HISTORY: ANY MONTHS BEFORE THE SURVEY? MORE SURVIVING CHILDREN BORN 0-35 MONTHS BEFORE THE SURVEY	Y MORE SURVIVING CHILDREN BORN 0-35 NO MORE SURVIVING CHILDREN BORN 0-35 MONTHS BEFORE THE SURVEY	→ 601
	(GO TO 503 FOR THE NEXT SURVIVING CHILD) ←	- · · - ·	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
601	CHECK 220, 224, AND 225 IN THE PREGNANCY HIST MONTHS BEFORE THE SURVEY?	FORY: ANY SURVIVING CHILDREN BORN 0-59	
	ONE OR MORE SURVIVING CHILDREN BORN 0-59 MONTHS BEFORE THE SURVEY	NO SURVIVING CHILDREN BORN 0-59 MONTHS BEFORE THE SURVEY	→ 643
602	Now I would like to ask some questions about the health about each separately, starting with the youngest.)	n of your children born in the last 5 years. (We will talk	
603	RECORD THE NAME FROM 218 AND PREGNANCY H CHILDREN BORN 0-59 MONTHS BEFORE THE SURV		
	NAME OF CHILD	PREGNANCY HISTORY NUMBER	
604	In the last 12 months, was (NAME) given any of the following:	YES NO DK	
	a) Iron pills, sprinkles with iron, or iron syrup?	a) PILLS/SPRINKLES/SYRUP 1 2 8	
	SHOW COMMON TYPES OF PILLS/SPRINKLES/SYRUP.		
605	In the last 6 months, was (NAME) given a vitamin A dose like (this/any of these)?	YES 1	
	SHOW COMMON TYPES OF AMPULES/CAPSULES/SYRUPS.	NO	
606	In the last 6 months, was (NAME) given any medicine for intestinal worms?	YES	
607	In the last 3 months, has any healthcare provider or community health worker measured:	YES NO DK	
	a) (NAME)'s weight?	a) WEIGHT 1 2 8	
	b) (NAME)'s length or height?	b) LENGTH/HEIGHT 1 2 8	
	c) Around (NAME)'s upper arm?	c) UPPER ARM 1 2 8	
	SHOW IMAGE OF MUAC TAPE.		
608	Has (NAME) had diarrhea in the last 2 weeks?	YES]→618

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OF LIVE BIRTH	PREGNANCY HISTORY NUMBER	
609	CHECK 485: CURRENTLY BREASTFEEDING? YES NOT ASKED		
	a) Now I would like to know how much (NAME) was given to drink during the diarrhea, including breast milk. Was (NAME) given less than usual to drink, about the same amount, or more than usual to drink? IF LESS, PROBE: Was (NAME) given much less than usual to drink or somewhat less?	MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 NOTHING TO DRINK 5 DON'T KNOW 8	
610	When (NAME) had diarrhea, was (NAME) given less than usual to eat, about the same amount, more than usual, or nothing to eat? IF LESS, PROBE: Was (NAME) given much less than usual to eat or somewhat less?	MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 STOPPED FOOD 5 NEVER GAVE FOOD 6 DON'T KNOW 8	
611	Did you seek advice or treatment for the diarrhea from any source?	YES	→615
612	Where did you seek advice or treatment? Anywhere else?	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT POLYCLINIC B GOVERNMENT HEALTH CENTER C GOVERNMENT CLINIC D	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD 'X' AND WRITE THE	CHPS CENTER/GOVERNMENT HEALTH POST E COMMUNITY HEALTH SERVICES (OUTREACH) F OTHER PUBLIC SECTOR	
	NAME OF THE PLACE(S).	(SPECIFY)	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL H PRIVATE CLINIC I MATERNITY HOME J COMMUNITY HEALTH SERVICES (MOBILE CLINIC) K OTHER PRIVATE MEDICAL SECTOR	
		(SPECIFY) NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC	
		(SPECIFY)	
		OTHER SOURCE SHOP/MARKET P TRADITIONAL PRACTITIONER Q DRUG PEDDLER R	
		OTHER X (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OF LIVE BIRTH	PREGNANCY HISTORY NUMBER	
613	CHECK 612: TWO OR MORE CODES CIRCLED	ONLY ONE CODE CIRCLED	→ 615
614	Where did you first seek advice or treatment? USE LETTER CODE FROM 612.	FIRST PLACE	
615	Was (NAME) given any of the following at any time since (NAME) started having the diarrhea: a) A fluid made from a special ORS packet?	YES NO DK a) FLUID FROM ORS PACKET 1 2 8	
	c) Zinc tablets or syrup? d) A homemade fluid ?	c) ZINC	
616	CHECK 615: ANY 'YES' a) Was anything else given to treat the diarrhea? ALL 'NO' OR 'DK' b) Was anything given to treat the diarrhea?	YES]→618
617	CHECK 615: ANY 'YES' a) What else was given to treat the diarrhea? BECORD ALL TREATMENTS GIVEN.	PILL OR SYRUP A ANTIBIOTIC A ANTIMOTILITY B OTHER (NOT ANTIBIOTIC OR ANTIMOTILITY) C UNKNOWN PILL OR SYRUP D INJECTION ANTIBIOTIC E NON-ANTIBIOTIC F UNKNOWN INJECTION G	
		(IV) INTRAVENOUS	
618	Has (NAME) been ill with a fever at any time in the last 2 weeks?	YES 1 NO 2 DON'T KNOW 8	→ 621
619	At any time during the illness, did (NAME) have blood taken from (NAME)'s finger or heel for testing?	YES	
620	Were you told by a healthcare provider that (NAME) had malaria?	YES	
621	Has (NAME) had an illness with a cough at any time in the last 2 weeks?	YES 1 NO 2 DON'T KNOW 8	
622	Has (NAME) had fast, short, rapid breaths or difficulty breathing at any time in the last 2 weeks?	YES]→624
623	Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose?	CHEST ONLY 1 NOSE ONLY 2 BOTH 3 OTHER 6 ODN'T KNOW 8	→625

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OF LIVE BIRTH	PREGNANCY HISTORY NUMBER	
624	CHECK 618: HAD FEVER?	NO OR DON'T KNOW	→ 634
625	Did you seek advice or treatment for the illness from any source?	YES	→ 630
626	Where did you seek advice or treatment? Anywhere else? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE,	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT POLYCLINIC B GOVERNMENT HEALTH CENTER C GOVERNMENT CLINIC D CHPS CENTER/GOVERNMENT HEALTH POST E COMMUNITY HEALTH SERVICES (OUTREACH) F OTHER PUBLIC SECTOR	
	OR NGO SECTOR, RECORD 'X' AND WRITE THE NAME OF THE PLACE(S).	OTHER PUBLIC SECTOR (SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL H PRIVATE CLINIC I MATERNITY HOME J COMMUNITY HEALTH SERVICES (MOBILE CLINIC) K OTHER PRIVATE MEDICAL SECTOR (SPECIFY) NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC M OTHER NGO MEDICAL SECTOR (SPECIFY) OTHER SOURCE SHOP/MARKET P TRADITIONAL PRACTITIONER Q DRUG PEDDLER R OTHER X	
627	CHECK 626: TWO OR MORE CODES CIRCLED TWO OR MORE CODES CIRCLED	ONLY ONE CODE CIRCLED	> 629
628	Where did you first seek advice or treatment? USE LETTER CODE FROM 626.	FIRST PLACE	
629	How many days after the illness began did you first seek advice or treatment for (NAME)? IF THE SAME DAY RECORD '00'.	DAYS	
630	At any time during the illness, did (NAME) take any medicine for the illness?	YES 1 NO 2 DON'T KNOW 8]→634

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
NO.	NAME OF LIVE BIRTH	PREGNANCY HISTORY NUMBER	
631	What medicine did (NAME) take? Any other medicine? RECORD ALL MENTIONED. IF MEDICINE NOT KNOWN, ASK TO SEE THE PACKAGE OR PRESCRIPTION.	ANTIMALARIAL MEDICINE ARTEMISININ COMBINATION THERAPY (ACT) A SP/FANSIDAR B CHLOROQUINE C AMODIAQUINE D QUININE PILLS E INJECTION/IV F ARTESUNATE RECTAL G INJECTION/IV H OTHER ANTIMALARIAL SPECIFY) ANTIBIOTIC MEDICINE AMOXICILLIN J COTRIMOXAZOLE K OTHER PILL/SYRUP L OTHER INJECTION/IV M OTHER MEDICINE ASPIRIN N ACETAMINOPHEN O IBUPROFEN P	
		HERBAL MEDICINE Q OTHER X (SPECIFY) Z	
632	CHECK 631: ARTEMISININ COMBINATION THERAPY	('A') GIVEN	
	CODE 'A' CIRCLED	CODE 'A' NOT CIRCLED	→ 634
633	How long after the fever started did (NAME) first take an artemisinin combination therapy?	SAME DAY 0 NEXT DAY 1 TWO DAYS AFTER FEVER 2 THREE OR MORE DAYS AFTER FEVER 3 DON'T KNOW 8	
634	CHECK 220, 224, AND 225 IN PREGNANCY HISTORY MONTHS BEFORE THE SURVEY? MORE SURVIVING CHILDREN BORN 0-59 MONTHS BEFORE THE SURVEY (GO TO 603 FOR THE NEXT SURVIVING CHILD)	NO MORE SURVIVING CHILDREN BORN 0-59 NO MORE SURVIVING CHILDREN BORN 0-59 MONTHS BEFORE	→ 635

NO.	QUESTIONS AND FILTERS	CODING CATE	GORIES		SKIP
635	CHECK 220, 225 AND 226, ALL ROWS: NUMBER OF SURVEY LIVING WITH THE RESPONDENT	CHILDREN BORN 0-23 MONTI	HS BEFORE	THE	
	ONE OR MORE	NONE			→ 643
	(NAME OF YOUNGEST CHILD LIVING WITH HER)				
636	Now I would like to ask you about liquids that (NAME FROM 635) had yesterday during the day or at night. Please tell me about all drinks, whether (NAME) had them at home, or somewhere else.				
	Yesterday during the day or at night, did (NAME)	YES	NO	DK	
	a) Plain water?	a) 1	2	8	
	b) Infant formula, such as, Cerelac, NAN, or SMA?	b) 1	2	8	
	IF YES: How many times did (NAME) drink milk for babies? IF 7 OR MORE TIMES, RECORD '7'.	NUMBER OF TIMES DRANK MILK FOR BABIES		8	
	c) Fresh milk, tinned milk, or powdered milk?	c) 1	2	8	
	IF YES: How many times did (NAME) drink milk? IF 7 OR MORE TIMES, RECORD '7'.	NUMBER OF TIMES DRANK MILK		8	
	IF YES: Was the milk a sweet or flavored type of milk?	SWEET/ FLAVORED 1	2	8	
	f) Milo?	f) 1		8	
	g) Fruit juice, fruit drinks, or sobolo?	g) 1	2	8	
	h) Soft drinks or malts, such as, Coke, Fanta,	h) 1	2	8	
	i) Tea, coffee, or herbal drinks?	i) 1	2	8	
	IF YES: Was the drink sweetened?	SWEETENED . 1	2	8	
	j) Clear broth or clear soup?	j) 1	2	8	
	k) Any other liquids?	k) 1	2	8	
	IF YES: What was the drink?	OTHER DRINK(S)	(SPECIFY)		
	IF YES: Was the drink sweetened?	SWEETENED . 1	2	8	

NO.	QUESTIONS AND FILTERS	CODING CATEG	SORIES	SKIP
637	Now I would like to ask you about foods that (NAME) had yesterday during the day or at night. I am interested in foods your child ate whether at home or somewhere else. Please think about snacks and small meals as well as main meals.			
	I will ask you about different foods, and I would like to know whether your child ate the food even if it was combined with other foods.			
	Please do not answer 'yes' for any food or ingredient only used in a small amount to add flavor to a dish.			
	Yesterday during the day or at night, did (NAME) have:	YES	NO	DK
	a) Brukina or drink yogurt?	a) 1	2	8
	IF YES:			
	IF YES: How many times did (NAME) have brukina or drink yogurt?	NUMBER OF TIMES HAD BRUKINA OR DRINK YOGURT		8
	IF 7 OR MORE TIMES, RECORD '7'.			
	Did (NAME) have any brukina as a drink or drink yogurt?	HAD YOGURT AS A DRINK 1	2	8
	IF 7 OR MORE TIMES, RECORD '7'.			
	IF YES: Was it a sweet or flavored type of drink?	SWEETENED . 1	2	8
	b) Bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, or tom brown?	b) 1	2	8
	c) Carrots, or sweet potatoes that are yellow or orange inside?	c) 1	2	8
	d) Fufu, gari, kokonte, cassava, yam, cocoyam, plantain, or white sweet potato?	d) 1	2	8
	e) Any other dark green leafy vegetables, such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves or other dark green leafy vegetables?	e) 1	2	8
	f) Any other vegetables, such as tomatoes, okro, garden eggs, cabbage, mushrooms or other vegetables?	f) 1	2	8
	g) Ripe mango, ripe papaya, or African star apple?	g) 1	2	8
	h) Any other fruits, such as banana, pineapple, avocado pear, watermelon, orange, or other	h) 1	2	8
	Fish, dried fish, koobi, anchovies, smoked herring, crab, or shrimp?	i) 1	2	8
	L			

NO.	QUESTIONS AND FILTERS	CODING CA	TEGORIES		SKIP
_		YES	NO	DK	
	j) Gizzard or liver?	j)1	2	8	
	k) Sausages or corned beef?	k) 1	2	8	
	Any other meat, such as beef, goat, sheep, pork , grasscutter, chicken, or Guinea fowl?	l) 1	2	8	
	m) Eggs?	m) 1	2	8	
	n) Beans or bambara beans?	n) 1	2	8	
	o) Groundnuts, kuli kuli, groundnut paste, groundnut soup, agushi stew, neri soup, or	o) 1	2	8	
	p) Cheese curds or wagashi?	p) 1	2	8	
	q) Termites?	q) 1	2	8	
	r) Cakes, biscuits, rock bun, toogbee or bofrot?	r) 1	2	8	
	s) Toffees, chocolates, ice cream, or FanYogo?	s) 1	2	8	
	t) Packaged yellow plantain chips or potato chips, Indomie, French fries , fried yam, fried potato, atomo, or spring rolls?	t) 1	2	8	
	u) Red palm oil?	u) 1	2	8	
	v) Any other solid, semi-solid, or soft food?	v) 1	2	8	
	IF YES: What was the food?	OTHER FOOD(S)	(SPECIFY)		
	MARK THE APPROPRIATE FOOD GROUP FOR EACH ADDITIONAL FOOD, IF THE GROUP IS NOT YET CODED 'YES'.		(SPECIFY)		
	IF UNABLE TO DETERMINE WHICH GROUP THE ADDITIONAL FOOD BELONGS TO, RECORD THE NAME OF THE FOOD.				
638	CHECK 637 (CATEGORIES 'a' THROUGH 'v'):				
	NOT A SINGLE 'YES' AT LEA	AST ONE 'YES' LL			→ 640

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? IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME) eat?	YES	
		NO 2	→ 641
640	How many times did (NAME) eat solid, semi-solid, or soft foods yesterday during the day or at night? IF 7 OR MORE TIMES, RECORD '7'.	NUMBER OF TIMES	
	<u> </u>	DOM FINITE OF THE PROPERTY OF	
641	In the last 6 months, did any healthcare provider or community health worker talk with you about how or what to feed (NAME)?	YES	
642	The last time (NAME) passed stools, what was done to dispose of the stools?	CHILD USED TOILET OR LATRINE 01 PUT/RINSED INTO TOILET OR LATRIN 02 PUT/RINSED INTO DRAIN OR DITCH 03 THROWN INTO GARBAGE 04 BURIED 05 LEFT IN THE OPEI 06 OTHER 96 (SPECIFY)	
643	Now I'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. 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. Please do not answer 'yes' for any food or ingredient only used in a small amount to add flavor to a dish. Yesterday during the day or at night, did you eat or a) Bread, rice, maize, kenkey, banku, akple, tuo zaafi, Hausa koko, or tom brown? b) Carrots, or sweet potatoes that are yellow or orange inside?	YES NO DK a)	
	c) Fufu, gari, kokonte, cassava, yam, cocoyam, plantain, or white sweet potato?	c)	
	d) Any other vegetables, such as tomatoes, okro, garden eggs, cabbage, mushrooms or other vegetables?	d)	
	e) Any other dark green leafy vegetables, such as cocoyam leaves, amaranth leaves, ademe, ayoyo, cassava leaves or other dark green leafy vegetables?	e) 1 2 8	
			•

NO.	QUESTIONS AND FILTERS	CODING CAT	EGORIES		SKIP
_		YES	NO	DK	-
	f) Ripe mango, ripe papaya, or African star apple?	f) 1	2	8	
	g) Any other fruits, such as banana, pineapple, avocado pear, watermelon, orange or other	g) 1	2	8	
	h) Fish, dried fish, koobi, anchovies, smoked herring, crab, or shrimp?	h) 1	2	8	
	i) Gizzard or liver?	i) 1	2	8	
	j) Sausages or corned beef?	j) 1	2	8	
	k) Any other meat, such as beef, goat, sheep, pork, grasscutter, chicken, or guinea fowl?	k) 1	2	8	
	I) Eggs?	l) 1	2	8	
	m) Beans or bambara beans?	m) 1	2	8	
	n) Groundnuts, kuli kuli, groundnut paste, groundnut soup, agushi stew, neri soup, or	n) 1	2	8	
	o) Tin milk, powdered milk, cheese curds, wagashi, brukina, or drink yogurt?	o) 1	2	8	
(11)	p) Termites?	p) 1	2	8	
	q) Cakes, biscuits, rock bun, toogbee or bofrot?	q) 1	2	8	
(12)	r) Toffees, chocolates, ice cream, or FanYogo?	r) 1	2	8	
	s) Packaged yellow plantain chips or potato chips, Indomie, French fries , fried yam, fried potato, atomo, spring rolls?	s) 1	2	8	
	t) Fruit juice, fruit drinks, or sobolo?	t) 1	2	8	
	u) Soft drinks or malts, such as, Coke, Fanta,	u) 1	2	8	
	v) Milo, tea with sugar, or coffee with sugar?	v) 1	2	8	

NO.	QUESTIONS AND FILTERS	CODING CA	TEGORIES		SKIP
		YES	NO	DK	-
(11)	w) Red palm oil?	w) 1	2	8	
	x) Any other liquids?	x) 1	2	8	
	IF YES: What was the drink?	OTHER DRINK(S)			
			(SPECIFY))	
	IF YES: Was the drink sweetened?	SWEETENED . 1	2	8	
	y) Any other food?	y) 1	2	8	
	IF YES: What was the food?	OTHER FOOD(S)			
	MARK THE APPROPRIATE FOOD GROUP FOR EACH ADDITIONAL FOOD, IF THE GROUP IS NOT YET CODED 'YES'.		(SPECIFY))	
	IF UNABLE TO DETERMINE WHICH GROUP THE ADDITIONAL FOOD BELONGS TO, RECORD THE NAME OF THE FOOD.				

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
701	Are you currently married or living together with a man as if married?	YES, CURRENTLY MARRIED 1 YES, LIVING WITH A MAN 2 NO, NOT IN UNION 3]→ 706A
702	Have you ever been married or lived together with a man as if married?	YES, FORMERLY MARRIED 1 YES, LIVED WITH A MAN 2 NO 3	→ 721
703	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED 1 DIVORCED 2 SEPARATED 3	> 714
706A	Do you have a marriage certificate or other document recognizing this (marriage/union)?	YES]→ 707
706B	What document or documents do you have? Any other document? RECORD ALL MENTIONED.	MARRIAGE CERTIFICATE FROM A CHURCH, MOSQUE OR OTHER RELIGIOUS INSTITUTION	→ 709
707	Was this marriage ever registered with the civil authority?	YES	
709	Is your (husband/partner) living with you now or is he staying elsewhere?	LIVING WITH HER	
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	
711	Does your (husband/partner) have other wives or does he live with other women as if married?	YES] -> 714
712	Including yourself, in total, how many wives or live- in partners does he have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS	
713	Are you the first, second, wife?	RANK 98	
714	Have you been married or lived with a man only once or more than once?	ONLY ONCE 1 MORE THAN ONCE 2	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
715	CHECK 714:		
	MARRIED/ LIVED WITH A MAN ONLY ONCE a) In what month and year did you start living with your (husband/partner)? MARRIED/ LIVED WITH A MAN MORE THAN ONCE b) Now I would like to ask about your first (husband/partner). In what month and year did you start living with him?	MONTH]→ 717
716	How old were you when you first started living with him?	AGE	
717	CHECK 714:		
		D/LIVED WITH ONLY ONCE	→ 721
718	CHECK 701: YES, YES, VES, LIVING WITH A MAN	NO, D NOT IN A UNION	→ 721
719	Now I'd like to ask you about your current (husband/partner). In what month and year did you start living with him?	MONTH 98 YEAR 9998]→ 721
720	How old were you when you first started living with your current (husband/partner)?	AGE	
721	CHECK FOR PRESENCE OF OTHERS. BEFORE CO	NTINUING, MAKE EVERY EFFORT TO ENSURE	
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 INTERCOURSE	→ 738
723	I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE	DAYS AGO	
	RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	YEARS AGO 4	→ 737

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
724	CHECK 232: 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	→ 727
726	Which method did you use? RECORD ALL MENTIONED. IF CODES 'G' OR 'H' ARE CIRCLED, SKIP TO 728 EVEN IF ANOTHER METHOD WAS ALSO USED.	FEMALE STERILIZATION A MALE STERILIZATION B IUD C INJECTABLES D IMPLANTS E PILL F CONDOM G FEMALE CONDON H EMERGENCY CONTRACEPTION I STANDARD DAYS METHOD J LACTATIONAL AMENORRHEA METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y] → 728
727	The last time you had sexual intercourse, was a condom used?	YES	→ 730
728	What is the brand name of the condom used?	FIESTA 01 KISS 02 DUREX 03 GOLD CIRCLE 04 BE SAFE/ NO LOGO 05 CUPID 06 FC2 07 OTHER 96	
	IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.	(SPECIFY) DON'T KNOW	
729	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 11 GOVERNMENT HOSPITAL 11 GOVERNMENT POLYCLINIC 12 GOVERNMENT HEALTH CENTER 13 GOVERNMENT CLINIC 14 CHPS CENTER/GOVERNMENT 15 COMMUNITY HEALTH SERVICES (OUTREACH) 16 OTHER PUBLIC SECTOR 17 (SPECIFY) 17	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 21 PRIVATE CLINIC 22 PHARMACY 23 DRUG STORE 24 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 25 MATERNITY HOME 26 OTHER PRIVATE MEDICAL SECTOR 27 (SPECIFY) NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC 31 OTHER NGO MEDICAL SECTOR 32	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
		(SPECIFY)	
		OTHER SOURCE SHOP/MARKET 41 CHURCH 42 FRIEND/RELATIVE 43 DRUG PEDDLERS 44 OTHER 96 (SPECIFY) 98	
	 	DON'T KNOW	
730	What was your relationship to this person with whom you had sexual intercourse? IF BOYFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	HUSBAND 1 LIVE-IN PARTNER 2 BOYFRIEND NOT LIVING WITH RESPONDENT 3 CASUAL ACQUAINTANCE 4 CLIENT/SEX WORKER 5	
	II NO, NEGONO C.	OTHER 6 (SPECIFY)	
731	Apart from this person, have you had sexual intercourse with any other person in the last 12 months?	YES	→ 737
732	The last time you had sexual intercourse with this second person, was a condom used?	YES	
733	What was your relationship to this second person with whom you had sexual intercourse? IF BOYFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	HUSBAND 1 LIVE-IN PARTNER 2 BOYFRIEND NOT LIVING WITH 3 CASUAL ACQUAINTANCE 4 CLIENT/SEX WORKER 5 OTHER 6 (SPECIFY)	
734	Apart from these two people, have you had sexual intercourse with any other person in the last 12 months?	YES	→ 737
735	The last time you had sexual intercourse with this third person, was a condom used?	YES	
736	What was your relationship to this third person with whom you had sexual intercourse? IF BOYFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	HUSBAND	
737	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.	NUMBER OF PARTNERS IN LIFETIME	
738	PRESENCE OF OTHERS DURING THIS SECTION.	YES NO CHILDREN < 10	

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
801	CHECK 307: NOT ASKED NEITHER ARE STERILIZED	HE OR SHE STERILIZED	→ 813
802	CHECK 232: PREGNANT NO	OT PREGNANT OR UNSURE	→ 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 1 NO MORE 2 UNDECIDED/DON'T KNOW 8	→ 805]→ 812
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 1 NO MORE/NONE 2 SAYS SHE CAN'T GET PREGNAN¹ 3 UNDECIDED/DON'T KNOW 8	→ 807 → 813 → 811
805	CHECK 232: NOT PREGNANT OR UNSURE a) How long would you like to wait from now before the birth of (a/another) child? b) After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?	MONTHS 1 YEARS 2 SOON/NOW 993 SAYS SHE CAN'T GET PREGNANT 994 AFTER MARRIAGE 995 OTHER 996 (SPECIFY) DON'T KNOW 998	→ 811 → 813 → 811
806	CHECK 232: NOT PREGNANT OR UNSURE	PREGNANT	> 812
807	CHECK 307: USING A CONTRACEPTIVE NOT ASKED	CURRENTLY USING	> 813
808	CHECK 805: '24' OR MORE MONTHS NOT OR '02' OR MORE YEARS ASKED	'00-23' MONTHS	· · > 812
809		EARS \(\textstyle{\te	→ 811 → 811

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
810	CHECK 804:	NOT MARRIED	
	WANTS TO HAVE A/ANOTHER CHILD a) You have said that you do not want (a/another) child soon. Can you tell me why you are not using a method to prevent pregnancy? Any other reason? WANTS NO MORE/ NONE b) You have said that you do not want any (more) children. Can you tell me why you are not using a method to prevent pregnancy? Any other reason? RECORD ALL REASONS MENTIONED.	FERTILITY-RELATED REASONS NOT HAVING SEX B INFREQUENT SEX C MENOPAUSAL/HYSTERECTOMY D CAN'T GET PREGNANT E NOT MENSTRUATED SINCE LAST BIRTH F BREASTFEEDING G UP TO GOD/FATALISTIC H OPPOSITION TO USE RESPONDENT OPPOSED I HUSBAND/PARTNER OPPOSED K RELIGIOUS PROHIBITIO L LACK OF KNOWLEDGE KNOWS NO METHOD M KNOWS NO SOURCE N METHOD-RELATED REASONS INCONVENIENT TO USE O CHANGES IN MENSTRUAL BLEEDIN(P METHODS COULD CAUSE INFERTILITY Q INTERFERES WITH BODY'S NORMAL PROCESSES R OTHER SIDE EFFECTS S COST/ACCESS/AVAILABILITY LACK OF ACCESS/TOO FAF T COSTS TOO MUCH U PREFERRED METHOD NOT AVAILABLE V NO METHOD AVAILABLE W OTHER SPECIFY) DON'T KNOW Z	
811	CHECK 307: USING A CONTRACEPTIVE		
	NOT ASKED CU	YES, TRENTLY USING	→ 813
812	Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future?	YES	
813	CHECK 224: HAS LIVING CHILDREN 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? PROBE FOR A NUMERIC RESPONSE.	NONE	→ 815 → 815
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?	BOYS GIRLS EITHER NUMBER 96 (SPECIFY)	

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
815	In the last 12 months have you:	YES NO	
	a) Heard about family planning on the radio?	a) RADIO 1 2	
	Seen anything about family planning on the television?	b) TELEVISION 1 2	
	 c) Read about family planning in a newspaper or magazine? 	c) NEWSPAPER OR MAGAZINE 1 2	
	d) Received a voice or text message about family planning on a mobile phone?	d) MOBILE PHONE	
	e) Seen anything about family planning on social media such as Facebook, Twitter, or Instagram?	e) FACEBOOK/TWITTER/ INSTAGRAM 1 2	
	f) Seen anything about family planning on a poster, leaflet or brochure?	f) POSTER/LEAFLET/BROCHURE 1 2	
	g) Seen anything about family planning on an outdoor sign or billboard?	g) OUTDOOR SIGN/BILLBOAR 1 2	
	h) Heard anything about family planning at community meetings or events?	h) COMMUNITY MEETINGS/EVENTS 1 2	
817	CHECK 701:		
	YES, YES, LIVING WITH A MAN	NO, NOT IN A UNION	→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 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER 3 JOINTLY 3 SOMEONE ELSE 4 OTHER 6 (SPECIFY)]→ 820]→ 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?	MORE IMPORTANT 1 EQUALLY IMPORTANT 2 LESS IMPORTANT 3	
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	YES	
821	CHECK 307: NOT ASKED NEITHER ARE STERILIZED	HE OR SHE ARE 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?	SAME NUMBER 1 MORE CHILDREN 2 FEWER CHILDREN 3 DON'T KNOW 8	

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
901	CHECK 701:		
	CURRENTLY MARRIED/ LIVING WITH A MAN	NOT IN UNION	→ 909
902	How old was your (husband/partner) on his last birthday?	AGE IN COMPLETED YEAR:	
903	Did your (husband/partner) ever attend school?	YES	→ 906
904	What is the highest level of school he attended: primary, middle, JSS/JHS, secondary, SSS/SHS, or higher?	PRE-PRIMARY 1 PRIMARY 1 MIDDLE 2 JSS/JHS 3 SECONDARY 4 SSS/SHS 5 HIGHER 6 DON'T KNOW 8	→ 906
905	What was the highest [GRADE/FORM/YEAR] he completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	[GRADE/FORM/YEAR]	
906	Has your (husband/partner) done any work in the last 7 days?	YES	→ 908
907	Has your (husband/partner) done any work in the last 12 months?	YES 1 NO 2 DON'T KNOW 8]→ 909
908	What is your (husband's/partner's) occupation? That is, what kind of work does he mainly do?		
909	Aside from your own housework, have you done any work in the last 7 days?	YES	→ 913
910	As you know, some women take up jobs for which they are paid in cash or kind. Others sell things, have a small business or work on the family farm or in the family business. In the last 7 days, have you done any of these things or any other work?	YES	→ 913
911	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, maternity leave, or any other such reason?	YES	→ 913
912	Have you done any work in the last 12 months?	YES	→ 917
913	What is your occupation? That is, what kind of work do you mainly do?		
914	Do you do this work for a member of your family, for someone else, or are you self-employed?	FOR FAMILY MEMBER 1 FOR SOMEONE ELSE 2 SELF-EMPLOYED 3	

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	
916	Are you paid in cash or kind for this work or are you not paid at all?	CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4	
917	CHECK 701: CURRENTLY MARRIED/LIVING WITH A MAN	NOT IN UNION	> 925
918	CHECK 916: CODE '1' OR '2' CIRCLED	OTHER	921
919	Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND 3 HUSBAND/PARTNER JOINTLY 3 OTHER 6 (SPECIFY)	
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?	MORE THAN HIM 1 LESS THAN HIM 2 ABOUT THE SAME 3 HUSBAND/PARTNER HAS NO EARNINGS 4 DON'T KNOW 8	→ 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?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND 3 HUSBAND/PARTNER JOINTLY 3 HUSBAND/PARTNER HAS 4 NO EARNINGS 4 OTHER 6 (SPECIFY)	
922	Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	
923	Who usually makes decisions about making major household purchases?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	
924	Who usually makes decisions about visits to your family or relatives?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	

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?	ALONE ONLY	→ 928
926	Do you have a title deed or other government recognized document for any house you own?	YES]→ 928
927	Is your name on this document?	YES	
928	Do you own any agricultural or non-agricultural land either alone or jointly with someone else?	ALONE ONLY	→ 930A
929	Do you have a title deed or other government recognized document for any land you own?	YES 1 NO 2 DON'T KNOW 8] → 930A
930	Is your name on this document?	YES 1 NO 2 DON'T KNOW 8	
930A	Do you have an account in a bank or other financial institution that you yourself use?	YES	→ 930C
930B	Did you yourself put money in or take money out of this account in the last 12 months?	YES	
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	
931	PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT)	PRES./ PRES./ NOT NOT LISTEN. LISTEN. PRES.	
932	In your opinion, is a husband justified in hitting or beating his wife in the following situations: a) If she goes out without telling him? b) If she neglects the children? c) If she argues with him? d) If she refuses to have sex with him? e) If she burns the food?	YES NO DK a) GOES OUT	

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?	YES	→ 1040
1002	CHECK 111: AGE 15-24 YEARS	25 YEARS OR OLDER	> 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?	YES	
1004	Can people get HIV from mosquito bites?	YES 1 NO 2 DON'T KNOW 8	
1005	Can people reduce their chance of getting HIV by using a condom every time they have sex?	YES	
1006	Can people get HIV by sharing food with a person who has HIV?	YES	
1007	Is it possible for a healthy-looking person to have HIV?	YES	
1008	Have you heard of ARVs, that is, antiretroviral medicines that treat HIV?	YES	
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?	YES	
1010	Have you heard of PrEP, a medicine taken daily that can prevent a person from getting HIV?	YES	→ 1012
1011	Do you approve of people who take a pill every day to prevent getting HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1012	CHECK 220 AND 223:	NO LIVE BIRTHS	→ 1024
	LAST LIVE BIRTH 0- 23 MONTHS BEFORE THE	LAST LIVE BIRTH 24 MONTHS OR MORE BEFORE	→ 1024
1013	CHECK 412 FOR LAST LIVE BIRTH ('TYPE 1'):		
	HAD ANTENATAL CARE ▼	NO ANTENATAL CARE	→ 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	→ 1018
1016	Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 21 PRIVATE CLINIC 22 PHARMACY 23 DRUG STORE 24 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 25 MATERNITY HOME 26 PRIVATE LABORATORY/ DIAGNOSTIC CENTERS 27 OTHER PRIVATE MEDICAL SECTOR 28	
		CALIED Calier C	
		OTHER96 (SPECIFY)	
1017	Did you get the results of the test?	YES	
1018	CHECK 435 FOR LAST LIVE BIRTH ('TYPE 1'): ANY CODE 21-42' CIRCLED	OTHER	→ 1021
1019	Between the time you went for delivery but before the baby was born, were you tested for HIV?	YES	→ 1021
1020	Did you get the results of the test?	YES	→ 1022

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1021	CHECK 1015:		
	YES	NO OR NOT ASKED	→ 1024
1022	Have you been tested for HIV since that time you were tested during your pregnancy?	YES	→ 1025
1023	In what month and year was your most recent HIV test?	MONTH 98 VEAR 9998	→ 1028
1024	Have you ever been tested for HIV?	YES	→ 1032
1025	In what month and year was your most recent HIV test?	MONTH 98 DON'T KNOW MONTH 98 YEAR 9998	
1026	Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR	
		OTHER96 (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1027	Did you get the results of the test?	YES	→ 1031
1028	What was the result of the test?	POSITIVE 1 NEGATIVE 2 INDETERMINATE 3 DECLINED TO ANSWER 4 DID NOT RECEIVE TEST RESULT 5	→ 1031
1029	In what month and year did you receive your first HIV-positive test result?	MONTH	
		DON'T KNOW MONTH 98	
		YEAR	
		DON'T KNOW YEAR 9998	
		SAME DATE AS LAST HIV TES	
1030	Are you currently taking ARVs, that is antiretroviral medicines? By currently, I mean that you may have missed some doses but you are still taking ARVs.	YES	
1031	How many times have you been tested for HIV in your lifetime?		
	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	→ 1034
1033	Have you ever tested yourself for HIV using a selftest kit?	YES	
1034	Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1035	Do you think children living with HIV should be allowed to attend school with children who do not have HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1036	CHECK 1028:		
	CODE '1' CIRCLED	OTHER/	→ 1040
1037	Now I would like to ask you a few questions about your experiences living with HIV.	YES	
	Have you disclosed your HIV status to anyone other than me?		
1038	Do you agree or disagree with the following statement: I have felt ashamed because of my HIV	AGREE	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	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:	YES NO	
	People have talked badly about me because of my HIV status.	a) PEOPLE TALK BADL\	
	Someone else disclosed my HIV status without my permission.	b) DISCLOSED STATUS 1 2	
	c) I have been verbally insulted, harassed, or threatened because of my HIV status.	c) VERBALLY INSULTED 1 2	
	d) Healthcare workers talked badly about me because of my HIV status.	d) HEALTHCARE WORKERS TALKED BADLY 1 2	
	Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status.	e) HEALTHCARE WORKERS VERBALLY ABUSED 1 2	
1040	CHECK 1001:		
	HEARD ABOUT NOT HEARD ABOUT HIV OR AIDS HIV OR AIDS		
	a) Apart from HIV, have b) Have you heard you heard about about infections that can be transmitted through sexual contact?	YES	
1041	CHECK 722:	_	
	HAS HAD SEXUAL N INTERCOURSE ↓	NEVER HAD SEXUAL	→ 1046
1042	CHECK 1040: HEARD ABOUT OTHER SEXUALLY TR	RANSMITTED INFECTIONS?	
	YES L	NO	→ 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	
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	
1045	Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer?	YES	
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	
1047	Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?	YES	
1048	CHECK 701:		
	CURRENTLY MARRIED/ LIVING WITH A MAN	NOT IN UNION	→ 1101
1049	Can you say no to your (husband/partner) if you do not want to have sexual intercourse?	YES 1 NO 2 DEPENDS/NOT SURE 8	
1050	Could you ask your (husband/partner) to use a condom if you wanted him to?	YES 1 NO 2 DEPENDS/NOT SURE 8	

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? IF MORE THAN ONE WAY OF TRAVEL IS MENTIONED, CIRCLE THE ONE HIGHEST ON THE LIST.	MOTORIZED 01 CAR/TRUCK 01 PUBLIC BUS 02 MOTORCYCLE/SCOOTER 03 BOAT WITH MOTOR 04 NOT MOTORIZED 3 ANIMAL-DRAWN CART 05 BICYCLE 06 BOAT WITHOUT MOTOR 07 WALKING 08 OTHER 96 (SPECIFY)	
1103	Has a doctor or other healthcare provider examined your breasts to check for breast cancer?	YES	
1104	Now I'm going to ask you about tests a healthcare work 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 to smear or HPV test. Another method is called a VIA or healthcare worker puts vinegar on the cervix to see if the	the vagina. To be checked for cervical cancer, a Then the healthcare worker will use a brush or swab to a laboratory for testing. This test is called a Pap Visual Inspection with Acetic Acid. In this test, the	
1105	Has a doctor or other healthcare worker ever tested you for cervical cancer?	YES 1 NO 2 DON'T KNOW 8	
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?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3]→ 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 SOME DAYS 2 NOT AT ALL 3	→ 1110
1109	What other type of tobacco do you currently smoke or use? RECORD ALL MENTIONED.	KRETEKS A PIPES FULL OF TOBACCO B CIGARS, CHEROOTS, OR CIGARILLC C WATER/ SHISHA D SNUFF BY MOUTH E SNUFF BY NOSE F CHEWING TOBACCO G BETEL QUID WITH TOBACCO H OTHER X (SPECIFY)	

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	→ 1113
1111	During the last one month, on how many days did you have an alcoholic drink? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF RESPONDENT ANSWERS 'EVERY DAY' OR 'ALMOST EVERY DAY,' CODE '95'.	DID NOT DRINK ALCOHOL	→ 1113
		EVERY DAY/ALMOST EVERY DAY 95	
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	LESS THAN ONE STANDARD DRINK 00	
	drank alcohol, how many drinks did you usually have per day?	NUMBER OF DRINKS	
	SHOW PICTURES OF SIZES OF STANDARD 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:	BIG NOT A BIG PROBLEM PROBLEM	
	a) Getting permission to go to the doctor?	a) PERMISSION TO GO 1 2	
	b) Getting money needed for advice or treatment?	b) GETTING MONEY 1 2	
	c) The distance to the health facility?	c) DISTANCE 1 2	
	d) Not wanting to go alone?	d) GO ALONE 1 2	
1114	Are you covered by any health insurance?	YES	→ 1116
1115	What type of health insurance are you covered by?	NATIONAL /DISTRICT HEALTH INSURANCE(NHIS) A MUTUAL HEALTH ORGANIZATION/ COMMUNITY-BASED HEALTH INSURANCE B HEALTH INSURANCE THROUGH	> 1119
	RECORD ALL MENTIONED.	EMPLOYER	
4410			> 4440
1116	Have you ever been registered with the National Health Insurance Scheme or NHIS?	YES	→1118

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1117	Why have you not registered with the National Health Insurance Scheme (NHIS)? RECORD ALL MENTIONED.	NOT HEARD OF NHIS A CANNOT AFFORD PREMIUM B DO NOT TRUST C DON'T NEED HEALTH INSURANCE D NHIS DOES NOT COVER HEALTH SERVICES I NEED E DON'T UNDERSTANDS SCHEME F DON'T KNOW WHERE TO REGISTER G NO EASY ACCESS TO A HEALTH FACILITY H DO NOT LIKE THE ATTITUDE OF STAFF IN A HEALTH FACILITY I THOSE WITH INSURANCE ARE GIVEN SUBSTANDARD SERVICES AND MEDICINE J OTHER X	1121
1118	What is the reason for dropping out of National Health Insurance Scheme? RECORD ALL MENTIONED.	CANNOT AFFORD PREMIUM A DO NOT TRUST B DON'T NEED HEALTH INSURANCE C NHIS DOES NOT COVER D HEALTH SERVICES I NEED DON'T UNDERSTANDS SCHEME E DON'T KNOW WHERE TO REGISTER F NO EASY ACCESS TO A HEALTH G FACILITY DO NOT LIKE THE ATTITUDE OF H STAFF IN A HEALTH FACILITY THOSE WITH INSURANCE ARE GIVEN I SUBSTANDARD SERVICES AND MEDICINE J OTHER X	
1119	Do you hold a valid National Health Insurance Scheme (NHIS) card?	YES, CARD SEEN 1 YES, CARD NOT SEEN 2 NO 3]▶1121
1120	Why do you not have a valid National Health Insurance Scheme (NHIS) card? RECORD ALL MENTIONED.	REGISTERED, NOT PAID FULLY A REGISTERED, CARD NOT B RECEIVED B REGISTERED, WAITING PERIOD C NOT RENEWED REGISTRATION D LOST NHIS CARD E OTHER X (SPECIFY)	
1121	In the last 6 months, how many times have you visited any healthcare provider or a health care facility for your own health?	NUMBER OF TIMES	→1201
	IF NONE RECORD '00'	DON'T KNOW 98	
1121A	CHECK 1117: NOT ASKED	ASKED	→ 1201
1121B	CHECK 1120: NOT ASKED	ASKED	→ 1201

NO.	QUESTIONS AND FILT	ERS	CODING CATEGORIES	SKIP
1122	During these visits, how many times accessed the health care using your Health Insurance Scheme (NHIS) ca	National	NUMBER OF TIMES	
	IF NONE RECORD '00'		NONE 00 DON'T KNOW 98	
1123	A. The last time you accessed healt with your insurance card, did you out-of-pocket payments for the form	make any	B. Was it a co-payment or a full payment?	
		PAYMENT	CO- FULL DON'T PAYMENT PAYMENT REMEMBER	
	a) Consultation?	YES 1 NO 2	→a) CONSULTATION 1 2 3	
	b) Drugs?	YES 1 NO 2	➤ b) DRUGS 1 2 3	
	c) Diagnosis?	YES 1 NO 2	➤ c) DIAGNONIS	
	d) Admission?	YES 1 NO 2	→ d) ADMISSION	
	e) Surgical?	YES 1 NO 2	re) SURGICAL 1 2 3	
	f) Other?	YES 1 NO 2	→ f) OTHER	
			(SPECIFY) 96	

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	→ 1203
1202	Where did you see or hear these messages? PROBE: Anywhere else? RECORD ALL MENTIONED.	RADIO A TELEVISION B POSTER/BILLBOARD C NEWSPAPER/MAGAZINE D LEAFLET/BROCHURE E HEALTHCARE PROVIDER F COMMUNITY HEALTH WORKER G SOCIAL MEDIA H OTHER X (SPECIFY) DON'T REMEMBER Z	
1202A	In the past six months, have you seen/heard any of the following malaria messages on television or radio:	YES, YES, YES, TV TV RADIO AND RADIO NO	
	a) Zero malaria starts with you and me?	a) 1 2 3 4	
	b) Malaria 360, everything malaria ?	b) 1 2 3 4	
	c) Good life is an everyday thing ?	c) 1 2 3 4	
1203	Are there ways to avoid getting malaria?	YES	→ 1205
1204	What are the things that people can do to prevent themselves from getting malaria? RECORD ALL MENTIONED.	SLEEP UNDER A MOSQUITO NET	
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. People in this community only get malaria during the rainy season. Do you agree or disagree?	AGREE	
1206	When a child has a fever, you almost always worry it might be malaria. Do you agree or disagree?	AGREE	
1207	Getting malaria is not a problem because it can be easily treated. Do you agree or disagree?	AGREE	

SECTION 12. MALARIA KNOWLEDGE AND BELIEFS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1208	Only weak children can die from malaria. Do you agree or disagree?	AGREE 1 DISAGREE 2 DON'T KNOW/UNCERTAIN 8	
1209	You can sleep under a mosquito net for the entire night when there are lots of mosquitoes. Do you agree or disagree?	AGREE 1 DISAGREE 2 DON'T KNOW/UNCERTAIN 8	
1210	You can sleep under a mosquito net for the entire night when there are few mosquitoes Do you agree or disagree?	AGREE	
1211	You do not like sleeping under a mosquito net when the weather is too warm. Do you agree or disagree?	AGREE 1 DISAGREE 2 DON'T KNOW/UNCERTAIN 8	
1212	When a child has a fever, it is best to start by giving them any medicine you have at home. Do you agree or disagree?	AGREE 1 DISAGREE 2 DON'T KNOW/UNCERTAIN 8	
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. Do you agree or disagree? IF RESPONDENT DOESN'T KNOW, PROBE: Would you say more than half or less than half of the community does this?	AGREE/MORE THAN HALF	
1214	People in your community who have a mosquito net usually sleep under a mosquito net every night. Do you agree or disagree? IF RESPONDENT DOESN'T KNOW, PROBE: Would you say more than half or less than half of the community does this?	AGREE/MORE THAN HALF	
1214A	During the past six months, have you seen/heard any advert on the use of ACTs/ malaria medicines?	YES	→ 1300
1214B	Where did you see/hear the advert on the use of ACTs/ malaria medicines? Any other media? RECORD ALL MENTIONED.	TELEVISION A RADIO B NEWSPAPER/MAGAZINE C POSTER /LEAFLETS D BILLBOARD E OTHER X (SPECIFY) DON'T KNOW Z	

NO.	QUESTIONS AND FILTERS				CODING	CATEGOR	IES	SKIP
1300	CHECK COVER PAGE: WOMAN SELECTED F	OR DV MOI	DULE?					
	WOMAN SELECTED FOR THIS SECTION		N		VOMAN			→ 1137A
1301	CHECK FOR PRESENCE OF OTHERS: DO NOT CONTINUE UNTIL PRIVACY IS ENSU	JRED.						
	PRIVACY OBTAINED					→ 1337		
1302	READ TO THE RESPONDENT: Now I would like to ask you questions about son of these questions very personal. However, you women in Ghana. Let me assure you that your a and no one else in your household will know tha don't want to answer, just let me know and I will	r answers ar answers are o t you were a	e crucia comple sked th	al for hel tely cont ese que	ping to unders fidential and w	stand the co	ndition of d to anyone	
1303	CHECK 701 AND 702:							
		RRENTLY						
	NEVER MARRIED/	MARRIED/ LIVING			FORME	RLY		→ 1306
	NEVER LIVED WITH WITH A MAN	TH A MAN			MARR VED WITH A I			→ 1306
	A MAN				O IN PAST TE			
			'HUS		USE 'LAST' V MALE PARTN			
4004	\			l				. 1000
1304	You have said that you are not married and are man as if married. Are you currently in an intima with a man even though you are not living with h	ite relationsh		YES NO				→ 1306
1305	Have you ever been in an intimate relationship withough you did not ever live with him?	vith a man e	ven	YES NO				→ 1319
1306	Now, I am going to ask you about some situatio happen between some women and their (husba		ner).					
	A. Please tell me if these descriptions apply to with your (last) (husband/male partner).	your relation	ship	la	ow often did t st 12 months: r not at all?			
		E)/ED			OFTEN	SOME-	NOT IN LAST	
	a) He (ielwae) isologo or opany if you	EVER			OFTEN	TIMES 2	12 MONTHS	
	a) He (is/was) jealous or angry if you (talk/talked) to other men?	YES NO	1 2		1	2	3	
	b) He wrongly (accuses/accused) you of being unfaithful?	YES NO	∳ 1 2		1	2	3	
	c) He (does/did) not permit you to meet your female friends?	YES NO	↓ 1 2 I	→	1	2	3	
	d) He (tries/tried) to limit your contact with your family?	YES NO	↓ 1 2 ↓		1	2	3	
	e) He (insists/insisted) on knowing where you (are/were) at all times?	YES NO	¥ 1 2 ↓		1	2	3	

NO.	QUESTIONS AND FILTERS				SKIP			
1307	Now I need to ask some more questions about y with your (last) (husband/male partner). A. Did your (last) (husband/male partner) ever:	our relations	hip		ow often did t			
					st 12 months: not at all?	often, only	sometimes,	
		EVER			OFTEN	SOME- TIMES	NOT IN LAST 12 MONTHS	
	 a) say or do something to humiliate you in front of others? 	YES NO	1 2 ↓		1	2	3	
	b) threaten to hurt or harm you or someone you care about?	YES NO	1 2 1		1	2	3	
	c) insult you or make you feel bad about yourself?	YES NO	1 2 ↓		1	2	3	
1308	A. Did your (last) (husband/male partner) ever of following things to you:	do any of the	B. How often did this happen during the last 12 months: often, only sometimes, or not at all?					
		EVER			OFTEN	SOME- TIMES	NOT IN LAST 12 MONTHS	
	a) push you, shake you, or throw something at you?	YES NO	1 2 J		1	2	3	
	b) slap you?	YES NO	1 2 1		1	2	3	
	c) twist your arm or pull your hair?	YES NO	1 2 1		1	2	3	
	d) punch you with his fist or with something that could hurt you?	YES NO	1 2 ↓		1	2	3	
	e) kick you, drag you, or beat you up?	YES NO	1 2 •	-	1	2	3	
	f) try to choke you or burn you on purpose?	YES NO	1 2 ↓		1	2	3	
	g) attack you with a knife, gun, or other weapon?	YES NO	1 2 1		1	2	3	
	h) physically force you to have sexual intercourse with him when you did not want to?	YES NO	1 2 \ \		1	2	3	
	 i) physically force you to perform any other sexual acts you did not want to? 	YES NO	1 2 ↓		1	2	3	
	j) force you with threats or in any other way to perform sexual acts you did not want to?	YES NO	1 2 \ \		1	2	3	

NO.	QUESTIONS AND FILTERS CODING CATEGORIES				ES	SKIP		
1309	CHECK1308A (a-j):							
.000	AT LEAST ONE ☐			NOT A S	INGLE			→ 1311
	, LE2. 1			1	169			
1310	Did the following ever happen as a result of wha (husband/male partner) did to you:	t your (last)						
	a) You had cuts, bruises, or aches?			YES NO				
	b) You had eye injuries, sprains, dislocations, o	r burns?		YES NO				
	c) You had deep wounds, broken bones, broke other serious injury?	n teeth, or a	ny	YES NO				
1311	Have you ever hit, slapped, kicked, or done any physically hurt your (last) (husband/male partner he was not already beating or physically hurting	r) at times w		YES NO				→ 1313
1312		the last 12 months, how often have you done this to your st) (husband/male partner): often, only sometimes, or not at			ETIMES		2	
1313	Does (did) your (last) (husband/male partner) dr	er) drink alcohol?						→ 1315
1314	How often does (did) he get drunk: often, only so never?	often, only sometimes, or		SOME	ETIMES		2	
1315	Are (Were) you afraid of your (last) (husband/mamost of the time, sometimes, or never?	ale partner):		SOME		ME AFRAID .	2	
1316	A. So far we have been talking about the behave (current/last) (husband/male partner). Now I about the behavior of any previous husband current or previous male partner that you man	want to ask or any other	r	B. Ho	ow long ago	did this last ha	appen?	
		EVER			0 - 11 MONTHS AGO	12+ MONTHS AGO	DON'T REMEMBER	
		HAS NE	VER H	i ad ano	THER HUSE	AND/		
	a) Did any previous husband or any other current or previous male partner ever			I	MALE PAF	RTNER	6	→ 1317
	hit, slap, kick, or do anything else to hurt you physically?	YES NO	1 2 •		1	2	3	
	b) Did any previous husband or any other current or previous male partner physically force you to have intercourse or perform any other sexual acts that you did not want to?	YES NO	1 2 \ \	→	1	2	3	
	c) Did any previous husband or any other current or previous male partner humiliate you in front of others, threaten to hurt you or someone you care about, or insult you or make you feel bad about yourself?	YES NO	1 2 \ \	→	1	2	3	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1317	CHECK1308A (h-j) AND 1316A (b): AT LEAST ONE ☐	NOT A SINGLE	
	'YES'	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 DON'T KNOW 98	
1319	CHECK 212 AND 232:		
	232=1 OR HAD ONE OR MORE PAST	OT PREGNANT 232=2 AND NO PAST PREGNANCIES 212=0	→ 1322
1320	Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant?	YES	→ 1322
1321	Who has done any of these things to physically hurt you while you were pregnant? Anyone else? RECORD ALL MENTIONED.	CURRENT HUSBAND/PARTNER A MOTHER/STEP-MOTHER B FATHER/STEP-FATHER C SISTER/BROTHER D DAUGHTER/SON E OTHER RELATIVE F FORMER HUSBAND/PARTNER G CURRENT BOYFRIEND H FORMER BOYFRIEND I MOTHER-IN-LAW J FATHER-IN-LAW K OTHER IN-LAW L TEACHER M SCHOOLMATE/CLASSMATE N EMPLOYER/SOMEONE AT WORK O POLICE/SOLDIER P	
1322	EVER MARRIED/EVER LIVED WITH A MAN/ EVER HAD A MALE PARTNER 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.	YES	1325

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1323	Who has hurt you in this way? Anyone else? RECORD ALL MENTIONED.	MOTHER/STEP-MOTHER A FATHER/STEP-FATHER B SISTER/BROTHER C DAUGHTER/SON D OTHER RELATIVE E CURRENT BOYFRIEND F FORMER BOYFRIEND G MOTHER-IN-LAW H FATHER-IN-LAW I OTHER IN-LAW J TEACHER K SCHOOLMATE/CLASSMATE L EMPLOYER/SOMEONE AT WORK M POLICE/SOLDIER N OTHER X (SPECIFY)	
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 1 SOMETIMES 2 NOT AT ALL 3	
1325	EVER LIVED WITH A MAN/	VER MARRIED/ NEVER HAD IALE PARTNER	→ 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.	YES	1328
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?	YES 1 NO 2 REFUSED TO ANSWER/ NO ANSWER NO ANSWER 3	1331
1328	CHECK 701 AND 702 AND 1304 AND 1305: EVER MARRIED/EVER LIVED WITH A MAN/ EVER HAD A MALE PARTNER 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? NEVER MARRIED/ NEVER HAD A MALE PARTNER 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 DON'T KNOW 98	

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? Anyone else? RECORD ALL MENTIONED.	FATHER/STEP-FATHER A BROTHER/STEP-BROTHER B OTHER RELATIVE C CURRENT BOYFRIEND D FORMER BOYFRIEND E IN-LAW F OWN FRIEND/ACQUAINTANCE G FAMILY FRIEND H TEACHER I SCHOOLMATE/CLASSMATE J EMPLOYER/SOMEONE AT WORK K POLICE/SOLDIER L PRIEST/RELIGIOUS LEADER M STRANGER N OTHER X (SPECIFY)	
1330	CHECK 701 AND 702 AND 1304 AND 1305: EVER MARRIED/EVER LIVED WITH A MAN/EVER HAD A MALE PARTNER 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? NEVER MARRIED/NEVER HAD A MALE PARTNER 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	
1331	CHECK 1308A (a-j), 1316A (a,b), 1320, 1322, 1326, AND 1327: AT LEAST ONE YES'	NOT A SINGLE YES'	→ 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	→ 1334
1333	From whom have you sought help? Anyone else? RECORD ALL MENTIONED.	OWN FAMILY A HUSBAND'S/PARTNER'S FAMILY B CURRENT/FORMER HUSBAND/PARTNER C CURRENT/FORMER BOYFRIEND D FRIEND E NEIGHBOR F RELIGIOUS LEADER G DOCTOR/MEDICAL PERSONNEL H POLICE I LAWYER J SOCIAL SERVICE ORGANIZATION K OTHER X (SPECIFY)	→ 1335
1334	Have you ever told any one about this?	YES	
1335	As far as you know, did your father ever beat your mother?	YES 1 NO 2 DON'T KNOW 8	

NO.	QUESTIONS AND FILTERS		CODING CATEGORIES			SKIP
	THANK THE RESPONDENT FOR HER COOPE CONFIDENTIALITY OF HER ANSWERS. FILL (DOMESTIC VIOLENCE MODULE ONLY.				THE	
1336	DID YOU HAVE TO INTERRUPT THE INTERVIEW BECAUSE SOME ADULT WAS TRYING TO LISTEN, OR CAME INTO THE ROOM, OR INTERFERED IN ANY OTHER WAY?	OTHER MALE	YES, ONCE 1 ADULT 1 .T 1	YES, MORE THAN ONCE 2 2 2	NO 3 3 3	
1337	INTERVIEWER'S COMMENTS/EXPLANATION FOR NOT COMPLETING THE DOMESTIC VIOLENCE MODULE.		MODULE.			
1137A	7A CHECK 111: AGE 15-29 YEARS OR OLDER			→ 1138		
1137B	Thank you for taking the time to answer these questions. I would like to inform you that additio information will be collected in the near future to better understand the health and wellbeing of yo people as they grow into adulthood. Another member of our team may return in a few days or weeks to ask you some additional quest about these topics. Do you agree to allow another member of our team to you about participating in a short interview. Your responses will remain confidential.	nal NO ung v ions am to				
1138	RECORD THE TIME.	HOU	RS			

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS

INSTRUCTIONS:					COL 1	l col. 2	
ONLY ONE CODE SHOULD APPEAR IN ANY BOX.		12	DEC	01		002.2	
COLUMN 1 REQUIRES A CODE IN EVERY MONTH.		11	NOV	02			
		10	OCT	03			
CODES FOR EACH COLUMN:	2	09	SEP	04			2
	_	80	AUG	05			
COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE	0	07	JUL	06			0
B BIRTHS	2	06 05	JUN MAY	07 08			2
P PREGNANCIES	2	03	APR	09			2
T TERMINATIONS		03	MAR	10			
		02	FEB	11			
0 NO METHOD		01	JAN	12			
1 FEMALE STERILIZATION		12	DEC	13		1	
2 MALE STERILIZATION		11	NOV	14			
3 IUD		10	OCT	15			
4 INJECTABLES	_	09	SEP	16			•
5 IMPLANTS	2	80	AUG	17			2
6 PILL	0	07	JUL	18			0
7 CONDOM	2	06	JUN	19			2
8 FEMALE CONDOM	1	05	MAY	20			1
9 EMERGENCY CONTRACEPTION		04	APR	21			
J STANDARD DAYS METHOD K LACTATIONAL AMENORRHEA METHOD		03 02	MAR FEB	22 23			
L RHYTHM METHOD		02	JAN	23 24			
E KITTIIWI WETTOD		01	JAN	24			
M WITHDRAWAL		12	DEC	25			
X OTHER MODERN METHOD		11	NOV	26			
Y OTHER TRADITIONAL METHOD		10	OCT	27			
COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE	2	09 08	SEP AUG	28 29			2
COLUMN 2. DISCONTINUATION OF CONTRACEPTIVE USE	0	08	JUL	30			0
0 INFREQUENT SEX/HUSBAND AWAY	2	06	JUN	31			2
BECAME PREGNANT WHILE USING	_	05	MAY	32			
2 WANTED TO BECOME PREGNANT	0	04	APR	33			0
3 HUSBAND/PARTNER DISAPPROVED		03	MAR	34			
4 WANTED MORE EFFECTIVE METHOD		02	FEB	35			
5 CHANGES IN MENSTRUAL BLEEDING		01	JAN	36			
6 OTHER SIDE EFFECTS/HEALTH CONCERNS		12	DEC	37		1	
		11	NOV	38			
7 LACK OF ACCESS/TOO FAR		10	OCT	39			
8 COSTS TOO MUCH	2	09	SEP	40			2
N INCONVENIENT TO USE	_	80	AUG	41			_
F UP TO GOD/FATALISTIC	0	07	JUL	42			0
A DIFFICULT TO GET PREGNANT/MENOPAUSAL	1	06	JUN	43			1
D MARITAL DISSOLUTION/SEPARATION X OTHER	9	05	MAY	44			9
A OTHER		04 03	APR MAR	45 46			
(SPECIFY)		02	FEB	47			
Z DON'T KNOW		01	JAN	48			
		40	DEO	10			
		12	DEC	49			
		11 10	NOV OCT	50 51			
		09	SEP	52			
	2	08	AUG	53			2
	0	07	JUL	54			0
	1	06	JUN	55			1
	8	05	MAY	56			8
	•	04	APR	57			•
		03	MAR	58			
		02	FEB	59			
		01	JAN	60			
		12	DEC	61			
		11	NOV	62			
		10	OCT	63			
	2	09	SEP	64			2
	0	08 07	AUG JUL	65 66			0
	1	06	JUN	67			1
		05	MAY	68			
	7	04	APR	69			7
		03	MAR	70			
		02	FEB	71			
		Ω1	IANI	72			

01 JAN 72

FORMATTING DATE: 8 Apr 2022 ENGLISH LANGUAGE: 8 Apr 2022

2022 GHANA DEMOGRAPHIC AND HEALTH SURVEYS MAN'S QUESTIONNAIRE

GHANA GHANA STATISTICAL SERVICE

IDENTIFICATION				
PLACE NAME				
NAME OF HOUSEHOL	_D HEAD			
CLUSTER NUMBER				
HOUSEHOLD NUMBE	R			
NAME AND LINE NUM	IBER OF MAN			
HOUSEHOLD SELECT	TED FOR MAN'S SURVI	EY? (1=YES, 2=NO		
		INTERVIEWER	VISITS	
	1	2	3	FINAL VISIT
DATE				DAY MONTH
INTERVIEWER'S NAME RESULT*				YEAR INT. NO. RESULT*
NEXT VISIT: DATE				TOTAL NUMBER OF VISITS
	NOT AT HOME 5 P	EFUSED ARTLY COMPLETED ICAPACITATED	7 OTHER	SPECIFY
LANGUAGE OF QUESTIONNAIRE**	LANGUAG		ATIVE LANGUAGE F RESPONDENT**	TRANSLATOR USED (YES = 1, NO = 2)
LANGUAGE OF QUESTIONNAIRE** ENGLISH **LANGUAGE CODES: 01 ENGLISH 02 AKAN 04 EWE				
TEAM NUMBER		TEAM SU	PERVISOR NUMBER	

INTRODUCTION AND CONSENT

Hello. My name is				
SIGNAT	URE OF INTERVIEWER	DATE		
	RESPONDENT AGREES TO BE INTERVIEWED 1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED 2 —	→ END	
	SECTION 1. RESPON	IDENT'S BACKGROUND		
NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP	
101	RECORD THE TIME.	HOURS		
102	In what REGION do you live?	WESTERN 01 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	→ 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)? IF LESS THAN ONE YEAR, RECORD '00' YEARS.	YEARS 95 VISITOR 96]→ 110	
105		YEARS R MORE	→ 107	
106	In what month and year did you move here?	MONTH		

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
107	Just before you moved here, which REGION did you live in?	WESTERN 01 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	
108	Just before you moved here, did you live in a city, in a town, or in a rural area?	CITY 1 TOWN 2 RURAL AREA 3	
109	Why did you move to this place?	EMPLOYMENT 01 EDUCATION/TRAINING 02 MARRIAGE FORMATION 03 FAMILY REUNIFICATION/OTHER 64 FORCED DISPLACEMENT 05 OTHER 96 (SPECIFY)	
110	In what month and year were you born?	MONTH 98 YEAR 9998	
111	How old were you at your last birthday? COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT.	AGE IN COMPLETED YEAR:	
112	In general, would you say your health is very good, good, moderate, bad, or very bad?	VERY GOOD 1 GOOD 2 MODERATE 3 BAD 4 VERY BAD 5	
113	Have you ever attended school?	YES	→ 117
114	What is the highest level of school you attended:pre- primary, primary, middle, JSS/JHS, secondary, SSS/SHS, or higher?	PRE- PRIMARY 1 PRIMARY 2 MIDDLE 3 JSS/JHS 4 SECONDARY 5 SSS/SHS 6 HIGHER 7	
115	What is the highest [GRADE/FORM/YEAR] you completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	[GRADE/FORM/YEAR]	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
116	CHECK 114:		
10	<u> </u>	UIQUED 🖂	
	PRIMARY, MIDDLE, JSS/JHS, SECONDARY, OR SSS/SHS	HIGHER	→ 119
	GEGONDART, GREGOGIGIO		
117	Now I would like you to read this sentence to me.	CANNOT READ AT ALL	
		ABLE TO READ ONLY PART OF	
	SHOW CARD TO RESPONDENT.	THE SENTENCE	
	IF RESPONDENT CANNOT READ WHOLE	NO CARD WITH REQUIRED	
	SENTENCE,	LANGUAGE4	
	PROBE: Can you read any part of the sentence to	(SPECIFY LANGUAGE)	
	me?	BLIND/VISUALLY IMPAIRED 5	
118	CHECK 117:		
	CODE 131 131 CODE 1	ALOD IS	
		1' OR '5'	→ 120
	CIRCLED ↓		
119	Do you read a newspaper or magazine at least once	AT LEAST ONCE A WEEK	
	a week, less than once a week or not at all?	LESS THAN ONCE A WEEK	
		11017117112	
120	Do you listen to the radio at least once a week, less	AT LEAST ONCE A WEEK	
	than once a week or not at all?	LESS THAN ONCE A WEEK	
		NOT AT ALL	
121	Do you watch television at least once a week, less	AT LEAST ONCE A WEEK	
	than once a week or not at all?	LESS THAN ONCE A WEEK 2	
		NOT AT ALL	
400	De very sum a mabile mbana?	VEC 4	
122	Do you own a mobile phone?	YES 1 NO 2	→ 127
		110	127
123	Is your mobile phone a smart phone?	YES 1	
		NO 2	
		\	
127	Have you ever used the Internet from any location on any device?	YES	→ 130
	on any device:	NO 2	7 130
128	In the last 12 months, have you used the Internet?		
	-	YES 1	
	IF NECESSARY, PROBE FOR USE FROM ANY	NO 2	→ 130
	LOCATION, WITH ANY DEVICE.		
129	During the last one month, how often did you use the	ALMOST EVERY DAY	
	Internet: almost every day, at least once a week,	AT LEAST ONCE A WEEK	
	less than once a week, or not at all?	LESS THAN ONCE A WEEK	
		NOT AT ALL 4	
130	What is your religion	CATHOLIC	
100	That is your rongion	ANGLICAN	
		METHODIST	
		PRESBYTERIAN	
		PENTECOSTAL/CHARISMA	
		ISLAM07	
		TRADITIONAL/SPIRITUAL08	
		NO RELIGION 95	
		95	
		OTHER96	
		(SPECIFY)	
131	What is your ethnic group?	AKAN01	
.01	acia your ourno group.	GA/DANGME	
		EWE03	
		GUAN	
		MOLE-DAGBAN	
		GURMA	
		MANDE	
		OTHER 96	
		OTHER96 (SPECIFY)	
		(0. 201)	

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]→ 206
202	Do you have any sons or daughters that you have fathered who are now living with you?	YES	→ 204
203	a) How many sons live with you?		
	b) And how many daughters live with you?	a) SONS AT HOME	
	IF NONE, RECORD '00'.	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?	YES	→ 206
205	a) How many sons are alive but do not live with you?	a) SONS ELSEWHERE	
	b) And how many daughters are alive but do not live with you?		
	IF NONE, RECORD '00'.	b) DAUGHTERS ELSEWHERE	
206	Have you ever fathered a son or a daughter who was born alive but later died?		
	IF NO, PROBE: Any baby who cried, who made any	YES	
	movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time?	DON'T KNOW	<u></u> → 208
207	a) How many boys have died?) POVO P54P	
	b) And how many girls have died?	a) BOYS DEAD	
	IF NONE, RECORD '00'.	b) GIRLS DEAD	
208	SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.	TOTAL CHILDREN	
209	CHECK 208:		
	HAS HAD	HAS HAD ONLY	→ 211
	MORE THAN HAS NOT		. 204
	ANY CHILD		→ 301
210	Did all of the children you have fathered have the same biological mother?	YES	
211	CHECK 208:		
	HAS HAD HAS HAD ONLY ONE CHILD ONE CHILD		
	a) How old were you b) How old were you when your first child when your child was born?	AGE IN YEARS	

SECTION 2. REPRODUCTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
212	CHECK 203 AND 205: AT LEAST ONE LIVING CHILD	NO LIVING CHILDREN	→ 301
213	CHECK 203 AND 205: MORE THAN ONE ONLY ONE LIVING CHILD LIVING CHILD LIVING CHILD b) How old is your child?	AGE IN YEARS	
214		EST) CHILD IS RS OR OLDER	→ 301
215	CHECK 203 AND 205: MORE THAN ONE LIVING CHILD LIVING CHILD LIVING CHILD LIVING CHILD b) What is the name of your youngest child?	(NAME OF (YOUNGEST) CHILD)	
216	When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups?	YES 1 NO 2 DON'T KNOW 8]→ 218
217	Were you ever present during any of those antenatal check-ups?	PRESENT 1 NOT PRESENT 2	
218	Was (NAME) born in a hospital or health facility?	HOSPITAL/HEALTH FACILITY 1 OTHER 2	→ 301
219	Did you go with (NAME's) mother to the hospital or health facility where she gave birth to (NAME)?	YES	

SECTION 3. CONTRACEPTION

301	Now I would like to talk about family planning - the various ways or r pregnancy. Have you ever heard of (METHOD)?	methods that a couple can use to delay or avoid a
01	Female Sterilization. PROBE: Women can have an operation to avoid having any more children.	YES
02	Male Sterilization. PROBE: Men can have an operation to avoid having any more children.	YES
03	IUD. 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	YES
04	Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.	YES
05	Implants. 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.	YES
06	Pill. PROBE: Women can take a pill every day to avoid becoming pregnant.	YES
07	Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse.	YES
08	Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse.	YES
09	Emergency Contraception. PROBE: As an emergency measure, within 3 days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.	YES
10	Standard Days Method. 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.	YES
11	Lactational Amenorrhea Method (LAM). PROBE: Up to 6 months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night.	YES
12	Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant.	YES
13	Withdrawal. PROBE: Men can be careful and pull out before climax.	YES
14	Have you heard of any other ways or methods that women or men can use to avoid pregnancy?	YES, MODERN METHOD
		(SPECIFY) YES, TRADITIONAL METHOD
		(SPECIFY)
		NO

SECTION 3. CONTRACEPTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
302	In the last 12 months have you:	YES NO	
	a) Heard about family planning on the radio?	a) RADIO 1 2	
	b) Seen anything about family planning on the television?	b) TELEVISION 1 2	
	c) Read about family planning in a newspaper or magazine?	c) NEWSPAPER OR MAGAZINE 1 2	
	d) Received a voice or text message about family planning on a mobile phone?	d) MOBILE PHONE	
	e) Seen anything about family planning on social media such as Facebook, Twitter, or Instagram?	e) FACEBOOK/TWITTER/ INSTAGRAM	
	f) Seen anything about family planning on a poster, leaflet or brochure?	f) POSTER/LEAFLET/ BROCHURE 1 2	
	g) Seen anything about family planning on an outdoor sign or billboard?	g) OUTDOOR SIGN/BILLBOARD 1 2	
	h) Heard anything about family planning at community meetings or events?	h) COMMUNITY MEETINGS/ EVENTS	
303	In the last few months, have you discussed family planning with a health worker or health professional?	YES	
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]→ 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	
		DON'T KNOW 8	
306	After the birth of a child, can a woman become pregnant before her menstrual period has returned?	YES 1 NO 2 DON'T KNOW 8	
307	I will now read you some statements about contraception. Please tell me if you agree or disagree with each one.	DIS- AGREE AGREE DK	
	a) Contraception is a woman's concern and a man should not have to worry about it.b) Women who use contraception may become promiscuous.	a) CONTRACEPTION WOMAN'S CONCERN 1 2 8 b) WOMEN MAY BECOME PROMISCUOUS 1 2 8	

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
401	Are you currently married or living together with a woman as if married?	YES, CURRENTLY MARRIED 1 YES, LIVING WITH A WOMAN 2 NO, NOT IN UNION 3	→ 404
402	Have you ever been married or lived together with a woman as if married?	YES, FORMERLY MARRIED 1 YES, LIVED WITH A WOMAN 2 NO 3	→ 413
403	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED 1 DIVORCED 2 SEPARATED 3	410
404	Is your (wife/partner) living with you now or is she staying elsewhere?	LIVING WITH HIM	
405	Do you have other wives or do you live with other women as if married?	YES (MORE THAN ONE WIFE) 1 NO (ONLY ONE WIFE) 2	→ 407
406	Altogether, how many wives or live-in partners do you have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS	
407	a) Please tell me the name of (your wife/the woman you are living with as if married). RECORD THE NAME AND THE LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE FOR THE (FIRST/NEXT) WIFE OR LIVE-IN PARTNER. IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. How old was (NAME/this wife or partner) on her last	How old was (NAME/this wife or partner) on her last birthday? LINE NAME NUMBER AGE	
	birthday? RETURN TO 407 FOR THE NEXT WIFE OR LIVE-IN PARTNER.		
409	CHECK 407: ONE WIFE/ PARTNER	MORE THAN ONE WIFE/ PARTNER	> 411
410	Have you been married or lived with a woman only once or more than once?	MORE THAN ONCE	

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
411	CHECK 405 AND 410:		
	BOTH ARE OTHER CODE '2'	MONTH	
	a) In what month and b) Now I would like to year did you start ask about your first	DON'T KNOW MONTH	
	living with your (wife/partner). In what month and year did you start living with her?	YEAR]→ 413
		DON'T KNOW YEAR 9998	
412	How old were you when you first started living with her?	AGE	
413	CHECK FOR PRESENCE OF OTHERS. BEFORE CO	NTINUING, MAKE EVERY EFFORT TO ENSURE	
414	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 INTERCOURSE	→ 501
415	I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER	DAYS AGO 1]→ 429
	MUST BE RECORDED IN YEARS.		
416	The last time you had sexual intercourse, did you or your partner do something or use any method to delay or avoid a pregnancy?	YES	→ 418
417	Do you know of a place where you can obtain a method of family planning?	YES]→ 419
418	What method did you or your partner use? RECORD ALL MENTIONED. IF CODES 'G' OR 'H' ARE CIRCLED, SKIP TO 420 EVEN IF ANOTHER METHOD WAS ALSO USED.	FEMALE STERILIZATION A MALE STERILIZATION B IUD C INJECTABLES D IMPLANTS E PILL F CONDOM G FEMALE CONDOM H EMERGENCY CONTRACEPTION I STANDARD DAYS METHOD J LACTATIONAL AMENORRHEA METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y]→ 420
419	The last time you had sexual intercourse, was a condom used?	YES	→ 422

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
420	What was the brand name of the condom used?	FIESTA 01 KISS 02 DUREX 03 GOLD CIRCLE 04 BE SAFE/ NO LOGO 05	
	IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.	OTHER96	
421	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 11 GOVERNMENT POLYCLINIC 12 GOVERNMENT POLYCLINIC 12 GOVERNMENT CLINIC 14 CHPS CENTER/GOVERNMENT HEALTH POST 15 COMMUNITY HEALTH SERVICES (OUTREACH) 16 OTHER PUBLIC SECTOR 17 PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 21 PRIVATE CLINIC 22 PHARMACY 23 DRUG STORE 24 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 25 OTHER PRIVATE MEDICAL SECTOR 26 (SPECIFY) NGO MEDICAL SECTOR 26 (SPECIFY) NGO MEDICAL SECTOR 31 OTHER NGO MEDICAL SECTOR 32 (SPECIFY) OTHER SOURCE 32 SHOP/MARKET 41 CHURCH 42 FRIEND/RELATIVE 43 DRUG PEDDLERS 44 OTHER 96	
422	What was your relationship to this person with	(SPECIFY) DON'T KNOW 98 WIFE	
	whom you had sexual intercourse? IF GIRLFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	LIVE-IN PARTNER	
423	Apart from this person, have you had sexual intercourse with any other person in the last 12 months?	YES	→ 429
424	The last time you had sexual intercourse with this second person, was a condom used?	YES	

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? IF GIRLFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	WIFE 1 LIVE-IN PARTNER 2 GIRLFRIEND NOT LIVING WITH RESPONDENT 3 CASUAL ACQUAINTANCE 4 CLIENT/SEX WORKER 5 OTHER 6 (SPECIFY)	
426	Apart from these two people, have you had sexual intercourse with any other person in the last 12 months?	YES	→ 429
427	The last time you had sexual intercourse with this third person, was a condom used?	YES	
428	What was your relationship to this third person with whom you had sexual intercourse? IF GIRLFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	WIFE 1 LIVE-IN PARTNER 2 GIRLFRIEND NOT LIVING WITH 3 CASUAL ACQUAINTANCE 4 CLIENT/SEX WORKER 5 OTHER 6 (SPECIFY)	
429	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.	NUMBER OF PARTNERS IN LIFETIME	

SECTION 5. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
501	LIVING WITH A PARTNER \(\int \) AN	ITLY MARRIED ID NOT LIVING H A PARTNER	→ 514
502	CHECK 418: MAN NOT STERILIZED OR QUESTION NOT ASKED	MAN STERILIZED	→ 514
503	CHECK 407: ONE WIFE/ PARTNER	MORE THAN ONE WIFE/ PARTNER	→ 509
504	Is your (wife/partner) currently pregnant?	YES]→ 507
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 1 NO MORE 2 UNDECIDED/DON'T KNOW 8]→ 514
506	After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?	MONTHS	→ 514
507	CHECK 208: HAS FATHERED CHILDREN 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? HAS NOT FATHERED CHILDREN 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?	HAVE (A/ANOTHER) CHILD	→ 514
508	CHECK 208: HAS FATHERED	MONTHS	→ 514
509 (1)	Are any of your (wives/partners) currently pregnant?	YES 1 NO 2 DON'T KNOW 8]→512

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 1 NO MORE 2 UNDECIDED/DON'T KNOW 8]-→ 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?	MONTHS	→ 514
512	CHECK 208: HAS FATHERED CHILDREN 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? HAS NOT FATHERED CHILDREN 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?	HAVE (A/ANOTHER) CHILD	→ 514
513	CHECK 208: HAS FATHERED CHILDREN a) How long would you like to wait from now before the birth of another child? HAS NOT FATHERED CHILDREN b) How long would you like to wait from now before the birth of a child?	MONTHS	
514	CHECK 203 AND 205: HAS LIVING CHILDREN 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? PROBE FOR A NUMERIC RESPONSE.	NONE	→ 601 → 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?	NUMBER BOYS GIRLS EITHER NUMBER 96 (SPECIFY)	

SECTION 6. EMPLOYMENT AND GENDER ROLES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
601	Have you done any work in the last 7 days?	YES	→ 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?	YES	→ 604
603	Have you done any work in the last 12 months?	YES	→ 607
604	What is your occupation? That is, what kind of work do you mainly do?		
605	Do you usually work throughout the year, or do you work seasonally, or only once in a while?	THROUGHOUT THE YEAR	
606	Are you paid in cash or kind for this work or are you not paid at all?	CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4	
607	LIVING WITH A PARTNER	JRRENTLY MARRIED AND GWITH A PARTNER	> 612
608	CHECK 606: CODE '1' OR '2' CIRCLED	OTHER	→ 610
609	Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly?	RESPONDENT	
610	Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else?	RESPONDENT	
611	Who usually makes decisions about making major household purchases?	RESPONDENT 1 WIFE/PARTNER 2 RESPONDENT AND WIFE/PARTNER JOINTLY 3 SOMEONE ELSE 4	

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?	ALONE ONLY 01 JOINTLY WITH WIFE/PARTNER ONLY 02 JOINTLY WITH SOMEONE ELSE ONLY 03 JOINTLY WITH WIFE/PARTNER AND SOMEONE ELSE 04 BOTH ALONE AND JOINTLY 05 DOES NOT OWN 06	→ 615
613	Do you have a title deed or other government recognized document for any house you own?	YES 1 NO 2 DON'T KNOW 8]→ 615
614	Is your name on this document?	YES 1 NO 2 DON'T KNOW 8	
615	Do you own any agricultural or non-agricultural land either alone or jointly with someone else?	ALONE ONLY 01 JOINTLY WITH WIFE/PARTNER ONLY 02 JOINTLY WITH SOMEONE ELSE ONLY 03 JOINTLY WITH WIFE/PARTNER AND SOMEONE ELSE 04 BOTH ALONE AND JOINTLY 05 DOES NOT OWN 06	→ 617A
616	Do you have a title deed or other government recognized document for any land you own?	YES 1 NO 2 DON'T KNOW 8]→ 617A
617	Is your name on this document?	YES 1 NO 2 DON'T KNOW 8	
617A	Do you have an account in a bank or other financial institution that you yourself use?	YES	→ 617C
617B	Did you yourself put money in or take money out of this account in the last 12 months?	YES	
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	
618	In your opinion, is a husband justified in hitting or beating his wife in the following situations: a) If she goes out without telling him? b) If she neglects the children? c) If she argues with him? d) If she refuses to have sex with him? e) If she burns the food? As far as you know did your father ever beat your mother?	YES NO DK a) GOES OUT 1 2 8 b) NEGLECTS CHILDREN 1 2 8 c) ARGUES 1 2 8 d) REFUSES SEX 1 2 8 e) BURNS FOOD 1 2 8 YES 1	
	mother?	NO	

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?	YES	→ 729
702	CHECK 111: AGE 15-24 YEARS	25 YEARS OR OLDER	→ 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?	YES	
704	Can people get HIV from mosquito bites?	YES	
705	Can people reduce their chance of getting HIV by using a condom every time they have sex?	YES 1 NO 2 DON'T KNOW 8	
706	Can people get HIV by sharing food with a person who has HIV?	YES	
707	Is it possible for a healthy-looking person to have HIV?	YES	
708	Have you heard of ARVs, that is, antiretroviral medicines that treat HIV?	YES	
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?	YES	
710	Have you heard of PrEP, a medicine taken daily that can prevent a person from getting HIV?	YES	→ 712
711	Do you approve of people who take a pill every day to prevent getting HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
712	CHECK FOR PRESENCE OF OTHERS. BEFORE COPRIVACY.	NTINUING, MAKE EVERY EFFORT TO ENSURE	
713	Have you ever been tested for HIV?	YES	→ 721
714	In what month and year was your most recent HIV test?	MONTH	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
715	Where was the test done? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC, PRIVATE, OR NGO SECTOR, RECORD '96' AND WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 11 GOVERNMENT POLYCLINIC 12 GOVERNMENT HEALTH CENTER 13 GOVERNMENT CLINIC 14 CHPS CENTER/GOVERNMENT HEALTH POST 15 COMMUNITY HEALTH SERVICES (OUTREACH) 16 PUBLIC LABORATORY/ DIAGNOSTIC CENTERS 17 OTHER PUBLIC SECTOR PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL 21 PRIVATE CLINIC 22 PHARMACY 23 DRUG STORE 24 COMMUNITY HEALTH SERVICES (MOBILE CLINIC) 25 MATERNITY HOME 26 PRIVATE LABORATORY/ DIAGNOSTIC CENTERS 27 OTHER PRIVATE MEDICAL SECTOR MATERNITY HOME 26 PRIVATE LABORATORY/ DIAGNOSTIC CENTERS 27 OTHER PRIVATE MEDICAL SECTOR NGO HOSPITAL/CLINIC 31 OTHER NGO MEDICAL SECTOR NGO HOSPITAL/CLINIC 31 OTHER NGO MEDICAL SECTOR 18 (SPECIFY) OTHER SOURCE HOME 41 WORKPLACE 42 CORRECTIONAL FACILITY/ BORSTAL HOME 43 OTHER 96	
716	Did you get the results of the test?	YES	→ 720
717	What was the result of the test?	POSITIVE 1 NEGATIVE 2 INDETERMINATE 3 DECLINED TO ANSWER 4	→ 720
718	In what month and year did you receive your first HIV-positive test result?	MONTH 98 YEAR 9998 DON'T KNOW YEAR 9998 SAME DATE AS MOST RECENT HIV TEST 95	

Are you currently taking ARVs, that is antiretroviral some doses but you are still taking ARVs. 720	NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE, IF NUMBER OF TESTS IS 95 OR MORE, RECORD '95. Have you heard of test kits people can use to test themselves for HIV? YES	719	medicines? By currently, I mean that you may have missed	NO 2	
T21 Have you heard of test kits people can use to test themselves for HIV? T22 Have you ever tested yourself for HIV using a self-test kit? T23 Would you buy fresh vegetables from a shopkeeper or vend or if you knew that this person had HIV? T24 Do you think children living with HIV should be allowed to attend school with children who do not have HIV? T25 CHECK 717: T26 CODE '11 OR	720	your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE, IF NUMBER OF TESTS IS 95 OR		
themselves for HIV? No		·		
test kit? 723 Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? 724 Do you think children living with HIV should be allowed to attend school with children who do not have HIV? 725 CHECK 717: 726 Now I would like to ask you a few questions about your experiences living with HIV. 727 Have you disclosed your HIV status to anyone other than me? 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 phase happened to you, because of your HIV status without my permission. 728 Please tell me if the following things have happened to you, because of your HIV status in the phase happened to you, because of your HIV status without my permission. 727 Do you agree or disagree with the phase happened to you, because of your HIV status in the phase happened to you, because of your HIV status in the phase happened to you, because of your HIV status without my permission. 728 Please tell me if the following things have happened to you, because of your HIV status without my permission. 8 Please tell me if the following things have happened to you, because of my HIV status without my permission. 9 People have talked badly about me because of my HIV status. 9 Healthcare workers talked badly about me because of my HIV status. 9 Healthcare workers talked badly about me because of my HIV status. 10 Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 11 YES	721			→ 723
or vendor if you knew that this person had HIV? Do you think children living with HIV should be allowed to attend school with children who do not have HIV? 20	722			
allowed to attend school with children who do not have HIV? CODE:11 ODN'T KNOW/NOT SURE/DEPENDS 8 725 CHECK 717: CODE:11 OTHER 729 726 Now I would like to ask you a few questions about your experiences living with HIV. Have you disclosed your HIV status to anyone other than me? 727 Do you agree or disagree with the following statement: I have felt ashamed because of my HIV status. 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 normal papened to you, because of your HIV status without my permission. a) People have talked badly about me because of my HIV status. b) Someone else disclosed my HIV status without my permission. c) I have been verbally insulted, harassed, or threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. d) Healthcare workers velled at me, scoided me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARO ABOUT NOT HEARD ABOUT HIV OR AIDS NO HIV OR AIDS N	723		NO 2	
726 Now I would like to ask you a few questions about your experiences living with HIV. Have you disclosed your HIV status to anyone other than me? 727 Do you agree or disagree with the following statement: I have felt ashamed because of my HIV status. 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 a) People have talked badly about me because of my HIV status. 739 People have talked badly about me because of my HIV status. 740 I have been verbally insulted, harassed, or threatened because of my HIV status. 750 I have been verbally insulted, harassed, or threatened because of my HIV status. 750 I have been verbally insulted, harassed, or threatened because of my HIV status. 750 I have been verbally insulted, harassed, or threatened because of my HIV status. 751 I have been verbally insulted, harassed, or threatened because of my HIV status. 752 I have been verbally insulted, harassed, or threatened because of my HIV status. 753 I have been verbally insulted, harassed, or threatened because of my HIV status. 754 People Rabley 1 2 755 I have been verbally insulted, harassed, or threatened because of my HIV status. 765 I have been verbally insulted, harassed, or threatened because of my HIV status. 766 People Rabley 1 2 777 O VERBALLY INSULTED 1 2 778 O HEALTHCARE WORKERS TALKED BADLY 1 2 779 CHECK 701: 179 HEALTHCARE WORKERS VERBALLY ABUSED 1 2 779 VERBALLY ABUSED 1 2 779 O HECK 701: 170 HEALTHCARE WORKERS VERBALLY ABUSED 1 2 779 O HECK 701: 170 HEALTHCARE WORKERS VERBALLY ABUSED 1 2 779 O HECK 701: 170 HEALTHCARE WORKERS VERBALLY ABUSED 1 2 170 HIV OR AIDS 170 HIV OR AID	724	allowed to attend school with children who do not	NO 2	
Your experiences living with HIV. Have you disclosed your HIV status to anyone other than me?	725	CODE '1'	OTHER	→ 729
than me? 727 Do you agree or disagree with the following statement: I have felt ashamed because of my HIV status. 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 incomplete to you, because of your HIV status in the incomplete to you, because of your HIV status without my permission. a) People have talked badly about me because of my HIV status. b) Someone else disclosed my HIV status without my permission. c) I have been verbally insulted, harassed, or threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. e) Healthcare workers verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS	726			
statement: I have felt ashamed because of my HIV status. 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 appened to you, because of your HIV status in the appened to you, because of your HIV status in the appened to you, because of your HIV status in the appened to you, because of your HIV status in the appened to you, because of your HIV status in the appened to you, because of your HIV status. a) People have talked badly about me because of my HIV status without my permission. b) Someone else disclosed my HIV status without my permission. c) I have been verbally insulted, harassed, or threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard you heard about other infections that can be transmitted through sexual				
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a) PEOPLE TALK BADLY 1 2 b) Someone else disclosed my HIV status without my permission. c) I have been verbally insulted, harassed, or threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS HIV OR AIDS Apart from HIV, have you heard about other infections that can be transmitted through sexual	728	happened to you, or if you think they have	YES NO	
my permission. c) I have been verbally insulted, harassed, or threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard you heard about other infections that can be transmitted through sexual b) DISCLOSED STATUS 1 2 c) VERBALLY INSULTED 1 2 d) HEALTHCARE WORKERS TALKED BADLY 1 2 e) HEALTHCARE WORKERS VERBALLY ABUSED 1 2 TYES 1 NO 2 TYES 1 NO 2 TYES 1 NO 2 TYES 1			a) PEOPLE TALK BADLY 1 2	
threatened because of my HIV status. d) Healthcare workers talked badly about me because of my HIV status. e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard about other infections that can be transmitted through sexual c) VERBALLY INSULTED 1 2 d) HEALTHCARE WORKERS TALKED BADLY 1 2 e) HEALTHCARE WORKERS VERBALLY ABUSED 1 2 TYES 1 NO 2 NO 2 TYES 1 NO 2 TYES 1 NO 2 TYES 1 NO 2 TYES 1 NO 2		•	b) DISCLOSED STATUS 1 2	
because of my HIV status. e) Healthcare workers yelled at me, scolded me, called me names, or verbally abused me in another way because of my HIV status. 729 CHECK 701: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard you heard about other infections that can be transmitted through sexual TALKED BADLY 1 2 e) HEALTHCARE WORKERS VERBALLY ABUSED 1 2 TALKED BADLY 1 2 TALKED BADLY 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 TALKED BADLY 1 2 E) HEALTHCARE WORKERS VERBALLY ABUSED 1 1 2 E) HEALTHCARE WORKERS VERBALLY ABU			c) VERBALLY INSULTED 1 2	
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HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard you heard about other infections that can be transmitted through sexual NOT HEARD ABOUT HIV OR AIDS HIV OR AIDS HIV OR AIDS YES 1 NO 2		called me names, or verbally abused me in		
a) Apart from HIV, have b) Have you heard you heard about infections that other infections that can be transmitted through sexual	729	CHECK 701:		
you heard about about infections that other infections that can be transmitted can be transmitted through sexual				
· · · · · · · · · · · · · · · · · · ·		you heard about about infections that other infections that can be transmitted through sexual		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
730	CHECK 414: HAS HAD SEXUAL ☐ INTERCOURSE ☐ I	NEVER HAD SEXUAL INTERCOURSE	→ 735
731	CHECK 729: HEARD ABOUT OTHER SEXUALLY TRA	NSMITTED INFECTIONS?	→ 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?	YES 1 NO 2 DON'T KNOW 8	
733	Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis?	YES 1 NO 2 DON'T KNOW 8	
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?	YES 1 NO 2 DON'T KNOW 8	
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?	YES	
736	Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?	YES	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
801	Some men are circumcised. Are you circumcised?	YES]→ 806
802	Some men are traditionally circumcised by a traditional practitioner, family member or friend. Are you traditionally circumcised?	YES]→ 804
803	How old were you when you got traditionally circumcised?	AGE IN COMPLETED YEARS DURING CHILDHOOD (<5 YEARS) 95 DON'T KNOW98	
804	Some men are medically circumcised, that is, the foreskin is completely removed from the penis by a healthcare worker. Are you medically circumcised?	YES]→ 806
805	How old were you when you got medically circumcised?	AGE IN COMPLETED YEARS DURING CHILDHOOD (<5 YEARS) 95 DON'T KNOW 98	
806	Do you currently smoke tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	→ 809 → 808
807	In the past, have you smoked tobacco every day?	YES]→ 810
808	In the past, have you ever smoked tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	811
809	On average, how many of the following products do you currently smoke each day? Also, let me know if you use the product, but not every day.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	NUMBER DAILY	
	a) Manufactured cigarettes?	a) MANUFACTURED CIGARETTES	ו
	b) Hand-rolled cigarettes?	b) HAND-ROLLED CIGARETTES	
	c) Kreteks?	c) KRETEKS	
	d) Pipes full of tobacco?	d) PIPES FULL OF TOBACCO	→ 811
	e) Cigars, cheroots, or cigarillos?	e) CIGARS, CHEROOTS, OR CIGARILLOS	
	f) Water/ chicha sessions?	f) WATER/SHISHA SESSIONS	
	g) Any others? (SPECIFY)	g) OTHERS	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	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.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.		
		NUMBER WEEKLY	
	a) Manufactured cigarettes?	a) MANUFACTURED CIGARETTES	
	b) Hand-rolled cigarettes?	b) HAND-ROLLED CIGARETTES	
	c) Kreteks?		
		c) KRETEKS	
	d) Pipes full of tobacco?	d) PIPES FULL OF TOBACCO	
	e) Cigars, cheroots, or cigarillos?	e) CIGARS, CHEROOTS, OR CIGARILLOS	
	f) Water/ chicha sessions?	f) WATER/SHISHA SESSIONS	
	g) Any others?		
	(SPECIFY)	g) OTHERS	
811	Do you currently use smokeless tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	→ 813 → 814
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.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.		
		TIMES DAILY	
	a) Snuff, by mouth?	a) SNUFF, BY MOUTH]
	b) Snuff, by nose?	b) SNUFF, BY NOSE	
	c) Chewing tobacco?	c) CHEWING TOBACCO	→ 814
	d) Betel quid with tobacco?	d) BETEL QUID WITH TOBACCO	
	e) Any others? (SPECIFY)	e) ANY OTHERS	
	` '		l

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
813	On average, how many times a week do you use the following products? Also, let me know if you use the product, but not every week. IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	TIMES WEEKLY	
	a) Snuff, by mouth?	a) SNUFF, BY MOUTH	
	b) Snuff, by nose?	b) SNUFF, BY NOSE	
	c) Chewing tobacco?	c) CHEWING TOBACCO	
	d) Betel quid with tobacco?	d) BETEL QUID WITH TOBACCO	
	e) Any others? (SPECIFY)	e) ANY OTHERS	
814	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	→ 817
815	During the last one month, on how many days did you have an alcoholic drink?	DID NOT DRINK ALCOHOL	→ 817
	IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF RESPONDENT ANSWERS 'EVERY DAY' OR 'ALMOST EVERY DAY,' CODE '95'.	NUMBER OF DAYS	
816	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?	LESS THAN ONE STANDARD DRINK 00	
	SHOW PICTURES OF SIZES OF STANDARD DRINKS.	NUMBER OF DRINKS	
817	Are you covered by any health insurance?	YES	→ 819
818	What type of health insurance are you covered by? 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 (SPECIFY)	→ 822
819	Have you ever been registered with the National Health Insurance Scheme or NHIS?	YES	→ 821

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
820	Why have you not registered with the National Health Insurance Scheme (NHIS)? RECORD ALL MENTIONED.	NOT HEARD OF NHIS A CANNOT AFFORD PREMIUM B DO NOT TRUST C DON'T NEED HEALTH INSURANCE D NHIS DOES NOT COVER HEALTH SERVICES I NEED E DON'T UNDERSTANDS SCHEME F DON'T KNOW WHERE TO REGISTER G NO EASY ACCESS TO A HEALTH FACILITY H DO NOT LIKE THE ATTITUDE OF STAFF IN A HEALTH FACILITY I THOSE WITH INSURANCE ARE GIVEN SUBSTANDARD SERVICES AND MEDICINE X (SPECIFY)	→ 824
821	What is the reason for dropping out of National Health Insurance Scheme?	CANNOT AFFORD PREMIUM A DO NOT TRUST B DON'T NEED HEALTH INSURANCE C NHIS DOES NOT COVER D HEALTH SERVICES I NEED DON'T UNDERSTANDS SCHEME E DON'T KNOW WHERE TO REGISTER F NO EASY ACCESS TO A HEALTH G FACILITY DO NOT LIKE THE ATTITUDE OF H STAFF IN A HEALTH FACILITY THOSE WITH INSURANCE ARE GIVEN I SUBSTANDARD SERVICES AND MEDICINE J OTHER X	
822	Do you hold a valid National Health Insurance Scheme (NHIS) card?	YES, CARD SEEN 1 YES, CARD NOT SEEN 2 NO 3]→ 824
823	Why do you not have a valid National Health Insurance Scheme (NHIS) card? RECORD ALL MENTIONED.	REGISTERED, NOT PAID FULL`	
824	In the last 6 months, how many times have you visited any healthcare provider or a health care facility for your own health? IF NONE RECORD '00'	NUMBER OF TIMES	→ 827A
824A	CHECK 820:	ASKED	→ 827A
824B	CHECK 823: NOT ASKED	ASKED	→ 827A

NO.	QUESTIONS AND FILTE	RS	CODING CATEGORIES	SKIP
825	During these visits, how many times have you accessed the health care using your National Health Insurance Scheme (NHIS) card?		NUMBER OF TIMES	
	IF NONE RECORD '00'		NONE 00 DON'T KNOW 98	
826	A. The last time you accessed health your insurance card, did you make pocket payments for the following?	any out-of-	B. Was it a co-payment or a full payment?	
		PAYMENT	CO- FULL DON'T PAYMENT PAYMENT REMEMBE	:R
	a) Consultation?	YES 1 NO 2	→ a) CONSULTATION 1 2 3	
	b) Drugs?	,	→ b) DRUGS 1 2 3	
	c) Diagnosis?	YES 1 NO 2	→ c) DIAGNONIS	
	d) Admission?	,	→ d) ADMISSION	
	e) Surgical?	YES 1 NO 2	→ e) SURGICAL 1 2 3	
	f) Other?	YES 1 NO 2	→ f) OTHER (SPECIFY) 96	
827A	CHECK 111: AGE 15-29 Y	ÆARS 🎵	29 YEARS OR OLDER	→ 828
827B	Thank you for taking the time to answe questions. I would like to inform you the information will be collected in the near understand the health and wellbeing of as they grow into adulthood. Another member of our team may return or weeks to ask you some additional questions to give these topics. Do you agree to allow another member contact you about participating in a shory your responses will remain confidential.	nat additional r future to better f young people rn in a few days uestions about r of our team to ort interview?	YES	
828	RECORD THE TIME.		HOURS	

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS

FORMATTING DATE: 2 Jun 2020 ENGLISH LANGUAGE: 10 Oct 2019

2022 GHANA DEMOGRAPHIC AND HEALTH SURVEYS BIOMARKER QUESTIONNAIRE

GHANA

GHANA STATISTICAL SERVICE

IDENTIFICATION					
PLACE NAME					
NAME OF HOUSEHOL	D HEAD				
HOUSEHOLD NUMBEF	₹				
HOUSEHOLD SELECT	ED FOR MAN'S SURVE	Y? (1=YES, 2=NO)			
		BIOMARKER TECHNIC	CIAN VISITS		
	1	2	3		FINAL VISIT
DATE BIOMARKER'S NAME				DAY MONTH YEAR	1
NEXT VISIT: DATE					NUMBER VISITS
NOTES:					ELIGIBLE MEN
				TOTAL MEI	ELIGIBLE N
					ELIGIBLE LDREN
LANGUAGE OF QUESTIONNAIRE**	LANGUAG		TIVE LANGUAGE RESPONDENT**		TRANSLATOR (YES = 1, NO = 2)
LANGUAGE OF QUESTIONNAIRE**	NGLISH	**LANGUAC 01 EI 02 AI	NGLISH 03	3 GA I EWE	05 DAGBANI
TEAM		TEAM SUPI	ERVISOR		
NUMBER		NAME	NUMBEF	₹	

$\underline{\text{WEIGHT, HEIGHT, HEMOGLOBIN MEASUREMENT, AND MALARIA TESTING FOR CHILDREN AGE } 0\text{--}4$

101	CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS". RECOR ELIGIBLE CHILDREN AGE 0-5 YEARS IN QUESTION 102 ON THIS PAGE AND SUB FIRST ONE LISTED. IF MORE THAN THREE CHILDREN, USE ADDITIONAL QUEST	SEQUENT PAGES STARTING WITH TI	
	CHILD 1		SKIP
102	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF CHILD.	NAME	
		LINE NUMBER	
103	IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM PREGNANCY HISTORY. IF MOTHER NOT INTERVIEWED ASK: What is (NAME)'s date of birth?	DAY	
		YEAR	
104	IF MOTHER INTERVIEWED: COPY CHILD'S AGE FROM PREGNANCY HISTORY.	_	
	IF MOTHER NOT INTERVIEWED ASK: How old was (NAME) at (NAME)'s last birthday?	AGE IN COMPLETED YEARS	
	COMPARE AND CORRECT 103 AND/OR 104 IF INCONSISTENT.		
105	CHECK 104: CHILD AGE 0-4 YEARS? YES NO		> 139
106	WEIGHT IN KILOGRAMS.	KG 9994 REFUSED 9995 OTHER 9996	→ 108
107	WAS THE CHILD MINIMALLY DRESSED?	YES	
108	HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP.	CM	113
109	WAS THE CHILD MEASURED LYING DOWN OR STANDING UP?	LYING DOWN	
110	CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT PROCEDURE FOLLOWED?	YES	→ 112
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?		
112	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	

113	ENTER BIOMARKER TECH NUMBER OF MEASURER.	BIOMARKER TECH	
114	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.	BIOMARKER TECH	
115	TODAY'S DATE:	MONTH YEAR	
	CHILD 1		SKIP
116	RECORD HEIGHT/LENGTH AND WEIGHT IN THE INFORMATIONAL PAMPHLET.		
117	CHECK 103: IS THE CHILD AGE 0-5 MONTHS OR IS THE CHILD OLDER? AGE 0-5 MONTHS		→ 139
118	RECORD NAME OF PARENT/RESPONSIBLE ADULT FOR THE CHILD.	NAMELINE NUMBER	
119	ASK CONSENT FOR MALARIA AND ANEMIA TESTS FROM PARENT/RESPONSIBLE. As part of this survey, we are asking children all over the country to take a test to see if they have anemia. Malaria is a serious illness caused by a parasite transmitted by a morproblem that usually results from poor nutrition, infection, or chronic disease. This survey programs to prevent and treat malaria and anemia. We ask that all children age 6 mont and anemia testing. The tests require a few drops of blood from a finger or heel. The ecand completely safe. It has never been used before and will be thrown away after each. The blood will be tested for malaria and anemia immediately, and the results will be told will be collected on slide(s) and taken to a laboratory for testing. You will not be told the results will be kept strictly confidential and will not be shared with anyone other than me. Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF CHILD) to participate in the malaria and anemia tests?	they have malaria and a test to see if osquito bite. Anemia is a serious health by will assist the government to develop this through 4 years take part in malaria quipment used to take the blood is clean test. It to you right away. A few blood drops results of the laboratory testing. All	
120	CIRCLE THE CODE.	GRANTED 1 REFUSED 2 NOT PRESENT/OTHER 3	→ 123
121	SIGN NAME AND ENTER BIOMARKER TECH NUMBER.	(SIGN) BIOMARKER TECH	

	CHILD 1		
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.	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994 REFUSED 99995 OTHER 99996	
124	RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET.	G/DL	
125	RECORD THE RESULT OF THE MALARIA RDT HERE AND THE INFORMATIONAL PAMPHLET.	POSITIVE 1 NEGATIVE 2 NOT PRESENT 4 REFUSED 5 OTHER 6	→ 137 → 139 → 137
126	Does (NAME) suffer from any of the following illnesses or symptoms: a) Extreme weakness? b) Heart problems? c) Loss of consciousness? d) Rapid or difficult breathing? e) Seizures? f) Abnormal bleeding? g) Jaundice or yellow skin? h) Dark urine?	YES NO a) EXTREME WEAKNESS	
127	CHECK 126: ANY 'YES' CIRCLED? NO YES		→ 129
128	CHECK 124: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA]→ 130
129	SEVERE MALARIA REFERAL The malaria test shows that (NAME OF CHILD) has malaria. Your child also has sympt treatment I have will not help your child, and I cannot give you the medication. Your child health facility right away. RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM.		→ 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? VERIFY BY ASKING TO SEE TREATMENT.	YES	→ 132
131	ALREADY TAKING ACT REFERRAL STATEMENT You have told me that (NAME OF CHILD) had already received ACT for malaria. There However, the test shows that he/she has malaria. If your child has a fever for two days take the child to the nearest health facility for further examination.		→ 139

132	ASK CONSENT FOR MALARIA TREATMENT FROM PARENT/RESPONSIBLE ADULT: 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. ACCEPTED MEDICINE	→ 139	
134	SIGN NAME AND ENTER BIOMARKER TECH NUMBER. (SIGN) BIOMARKER TECH		
	CHILD 1	SKIP	
135	CHECK 133: ACCEPTED MEDICINE? YES NO	→ 139	
136	TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) 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. Weight (in kg)-Approximate age		
	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 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.	→ 139	
137	CHECK 124: HEMOGLOBIN RESULT BELOW 8.0 G/DL, SEVERE ANEMIA]→ 139	
138	SEVERE ANEMIA REFERAL 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. 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		SKIP
102	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF CHILD.	NAME	
		LINE NUMBER	
103	IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM PREGNANCY HISTORY.	DAY	
	IF MOTHER NOT INTERVIEWED ASK:	MONTH	
	What is (NAME)'s date of birth?	YEAR	
104	IF MOTHER INTERVIEWED: COPY CHILD'S AGE FROM PREGNANCY HISTORY.		
	IF MOTHER NOT INTERVIEWED ASK:		
	How old was (NAME) at (NAME)'s last birthday?	AGE IN COMPLETED YEARS	
	COMPARE AND CORRECT 103 AND/OR 104 IF INCONSISTENT.		
105	CHECK 104: CHILD AGE 0-4 YEARS? YES NO		→ 139
	Ť		
106	WEIGHT IN KILOGRAMS.	KG	
106	WEIGHT IN KILOGRAMS.	NOT PRESENT9994	1
106	WEIGHT IN KILOGRAMS.		108
106	WEIGHT IN KILOGRAMS. WAS THE CHILD MINIMALLY DRESSED?	NOT PRESENT	→ 108
107	WAS THE CHILD MINIMALLY DRESSED?	NOT PRESENT	→ 108
		NOT PRESENT	→ 108
107	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN.	NOT PRESENT	7
107	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS.	NOT PRESENT 9994 REFUSED 9995 OTHER 9996 YES 1 NO 2 CM	7
107	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN.	NOT PRESENT	7
107	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP. WAS THE CHILD MEASURED LYING DOWN OR STANDING UP? CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT	NOT PRESENT	→ 108 → 113
107 108	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP. WAS THE CHILD MEASURED LYING DOWN OR STANDING UP? CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT PROCEDURE FOLLOWED?	NOT PRESENT	113
107 108	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP. WAS THE CHILD MEASURED LYING DOWN OR STANDING UP? CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT	NOT PRESENT	113
107 108 109 110	WAS THE CHILD MINIMALLY DRESSED? HEIGHT IN CENTIMETERS. IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP. WAS THE CHILD MEASURED LYING DOWN OR STANDING UP? CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT PROCEDURE FOLLOWED? IF CHILD IS AGE 0-1 YEARS: WHY WAS (NAME) MEASURED STANDING UP?	NOT PRESENT	113

112	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
113	ENTER BIOMARKER TECH NUMBER OF MEASURER.	BIOMARKER TECH NUMBER	
114	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.	BIOMARKER TECH NUMBER	
115	TODAY'S DATE:	MONTH	
	CHILD 2		SKIP
116	RECORD HEIGHT/LENGTH AND WEIGHT IN THE INFORMATIONAL PAMPHLET.		
117	CHECK 103: IS THE CHILD AGE 0-5 MONTHS OR IS THE CHILD OLDER? AGE 0-5 MONTHS		→ 139
118	RECORD NAME OF PARENT/RESPONSIBLE ADULT FOR THE CHILD.	NAME	
		LINE NUMBER	
119	ASK CONSENT FOR MALARIA AND ANEMIA TESTS FROM PARENT/RESPONSIBLE AI	DULT:	
	As part of this survey, we are asking children all over the country to take a test to see if they have anemia. Malaria is a serious illness caused by a parasite transmitted by a mosquito bit that usually results from poor nutrition, infection, or chronic disease. This survey will assist to prevent and treat malaria and anemia. We ask that all children age 6 months through 4 year testing. The tests require a few drops of blood from a finger or heel. The equipment used to safe. It has never been used before and will be thrown away after each test.	ite. Anemia is a serious health problem the government to develop programs to ars take part in malaria and anemia	
	The blood will be tested for malaria and anemia immediately, and the results will be told to be collected on slide(s) and taken to a laboratory for testing. You will not be told the results be kept strictly confidential and will not be shared with anyone other than members of our s	of the laboratory testing. All results will	
	Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF CHILD) to participate in the malaria and anemia tests?		
120	CIRCLE THE CODE.	GRANTED 1 REFUSED 2 NOT PRESENT/OTHER 3	→ 123
121	SIGN NAME AND ENTER BIOMARKER TECH NUMBER.	(SIGN) BIOMARKER TECH NUMBER	

	CHILD 2		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.	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994	
		REFUSED 99995 OTHER 99996	
124	RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET.	G/DL	
125	RECORD THE RESULT OF THE MALARIA RDT HERE AND THE INFORMATIONAL PAMPHLET.	POSITIVE 1 NEGATIVE 2 NOT PRESENT 4 REFUSED 5 OTHER 6	→ 137 → 139 → 137
126	Does (NAME) suffer from any of the following illnesses or symptoms: a) Extreme weakness? b) Heart problems? c) Loss of consciousness? d) Rapid or difficult breathing? e) Seizures? f) Abnormal bleeding? g) Jaundice or yellow skin? h) Dark urine?	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS 1 2 d) RAPID BREATHING 1 2 e) SEIZURES	
127	CHECK 126: ANY 'YES' CIRCLED? NO YES		→ 129
128	CHECK 124: HEMOGLOBIN RESULT	BELOW 8.0 G/DL,]→ 130

129	SEVERE MALARIA REFERAL The malaria test shows that (NAME OF CHILD) has malaria. Your child also has symptoms treatment I have will not help your child, and I cannot give you the medication. Your child is facility right away. RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM.		→ 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? VERIFY BY ASKING TO SEE TREATMENT.	YES	→ 132
131	ALREADY TAKING ACT REFERRAL STATEMENT You have told me that (NAME OF CHILD) had already received ACT for malaria. Therefore However, the test shows that he/she has malaria. If your child has a fever for two days after the child to the nearest health facility for further examination.	e, I cannot give you additional ACT. or the last dose of ACT, you should take	→ 139
132	ASK CONSENT FOR MALARIA TREATMENT FROM PARENT/RESPONSIBLE ADULT:		
	The malaria test shows that your child has malaria. We can give you free medicine. The meffective and in a few days it should get rid of the fever and other symptoms. You do not have is up to you. Please tell me whether you accept the medicine or not.		
133	CIRCLE THE APPROPRIATE CODE.	ACCEPTED MEDICINE	→ 139
134	SIGN NAME AND ENTER BIOMARKER TECH NUMBER.	(SIGN) BIOMARKER TECH NUMBER	
		BIOWARKER TECHNOWIBER	
	CHILD 2	BIOWARREN FEOT NOWIDER	SKIP
135	CHILD 2 CHECK 133: ACCEPTED MEDICINE? YES NO	BIOMARKER TEGIT NOWIBER	SKIP → 139
135	_		
	CHECK 133: ACCEPTED MEDICINE? YES NO TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD AN	CCORDING TO THE TREATMENT fter 8hrs. AL in the evening. after 8hrs.	
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD AT PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	CCORDING TO THE TREATMENT fter 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. AL in the evening.	139
	TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD AT PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	fter 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. to AL in the evening.	139
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD AN PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	fter 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. to AL in the evening.	139
136	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD AN PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	fter 8hrs. AL in the evening. after 8hrs. AL in the evening. after 8hrs. AL in the evening. Alter 6hrs. Alter 6hrs	→ 139 → 139

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 AL 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 3		SKIP
102	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF CHILD.	NAME	
		LINE NUMBER	
103	IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM PREGNANCY HISTORY.	DAY	
	IF MOTHER NOT INTERVIEWED ASK: What is (NAME)'s date of birth?	MONTH	
104	IF MOTHER INTERVIEWED: COPY CHILD'S AGE FROM PREGNANCY HISTORY. IF MOTHER NOT INTERVIEWED ASK: How old was (NAME) at (NAME)'s last birthday? COMPARE AND CORRECT 103 AND/OR 104 IF INCONSISTENT.	AGE IN COMPLETED YEARS	
105	CHECK 104: CHILD AGE 0-4 YEARS? YES NO		→ 139
106	WEIGHT IN KILOGRAMS.	KG 9994 REFUSED 9995 OTHER 9996	→ 108
107	WAS THE CHILD MINIMALLY DRESSED?	YES	
108	HEIGHT IN CENTIMETERS.	СМ	
	IF CHILD IS AGE 0-1 YEARS, MEASURE LYING DOWN. IF CHILD IS AGE 2, 3, OR 4 YEARS, MEASURE STANDING UP.	NOT PRESENT	113
109	WAS THE CHILD MEASURED LYING DOWN OR STANDING UP?	LYING DOWN	
110	CHECK 104 AND 109: BASED ON CHILD'S AGE, WAS CORRECT MEASUREMENT PROCEDURE FOLLOWED?	YES	→ 112
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?		
112	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
113	ENTER BIOMARKER TECH NUMBER OF MEASURER.	BIOMARKER TECH	

114	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.	BIOMARKER TECH	
115	TODAY'S DATE:	MONTH	
	CHILD 3		SKIP
116	RECORD HEIGHT/LENGTH AND WEIGHT IN THE INFORMATIONAL PAMPHLET.		
117	CHECK 103: IS THE CHILD AGE 0-5 MONTHS OR IS THE CHILD OLDER? AGE 0-5 MONTHS		> 139
118	RECORD NAME OF PARENT/RESPONSIBLE ADULT FOR THE CHILD.	NAME	
		LINE NUMBER	
119	ASK CONSENT FOR MALARIA AND ANEMIA TESTS FROM PARENT/RESPONSIBL	E ADULT:	
	As part of this survey, we are asking children all over the country to take a test to see i they have anemia. Malaria is a serious illness caused by a parasite transmitted by a m problem that usually results from poor nutrition, infection, or chronic disease. This surv develop programs to prevent and treat malaria and anemia. We ask that all children ag in malaria and anemia testing. The tests require a few drops of blood from a finger or h blood is clean and completely safe. It has never been used before and will be thrown a The blood will be tested for malaria and anemia immediately, and the results will be tolwill be collected on slide(s) and taken to a laboratory for testing. You will not be told the results will be kept strictly confidential and will not be shared with anyone other than mediately of the properties of the pr	osquito bite. Anemia is a serious health ey will assist the government to ge 6 months through 4 years take part leel. The equipment used to take the way after each test. It to you right away. A few blood drops a results of the laboratory testing. All	
120	CIRCLE THE CODE.	GRANTED 1 REFUSED 2 NOT PRESENT/OTHER 3	→ 123
121	SIGN NAME AND ENTER BIOMARKER TECH NUMBER.	(SIGN) BIOMARKER TECH	
	CHILD 3		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.	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994 REFUSED 99995 OTHER 99996	

124	RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET.	G/DL
125	RECORD THE RESULT OF THE MALARIA RDT HERE AND THE INFORMATIONAL PAMPHLET.	POSITIVE 1 NEGATIVE 2 NOT PRESENT 4 REFUSED 5 OTHER 6
126	Does (NAME) suffer from any of the following illnesses or symptoms: a) Extreme weakness? b) Heart problems? c) Loss of consciousness? d) Rapid or difficult breathing? e) Seizures? f) Abnormal bleeding? g) Jaundice or yellow skin? h) Dark urine?	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS . 1 2 c) LOSS OF CONSCIOUS 1 2 d) RAPID BREATHING . 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2 h) DARK URINE 1 2
127	CHECK 126: ANY 'YES' CIRCLED? NO YES	→ 12
128	CHECK 124: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA

129	SEVERE MALARIA REFERAL 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. RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM.		→ 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?	YES 1	
	VERIFY BY ASKING TO SEE TREATMENT.	NO 2	→ 132
131	ALREADY TAKING ACT REFERRAL STATEMENT You have told me that (NAME OF CHILD) had already received ACT for malaria. There However, the test shows that he/she has malaria. If your child has a fever for two days take the child to the nearest health facility for further examination.		→ 139
132	ASK CONSENT FOR MALARIA TREATMENT FROM PARENT/RESPONSIBLE ADUL	T:	
	The malaria test shows that your child has malaria. We can give you free medicine. The effective and in a few days it should get rid of the fever and other symptoms. You do n This is up to you. Please tell me whether you accept the medicine or not.		
133	CIRCLE THE APPROPRIATE CODE.	ACCEPTED MEDICINE	→ 139
134	SIGN NAME AND ENTER BIOMARKER TECH NUMBER.	(SIGN)	
		BIOMARKER TECH	
	CHILD 3		SKIP
135	CHILD 3 CHECK 133: ACCEPTED MEDICINE? YES NO		SKIP → 139
135 136		D ACCORDING TO THE TREATMENT	
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILL PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	AL after 8hrs. tablet AL in the evening. ts AL after 8hrs.	
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILL PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	AL after 8hrs. tablet AL in the evening. ts AL after 8hrs. ablets AL in the evening. tle water, dissolve it well and give it to	
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	AL after 8hrs. tablet AL in the evening. ts AL after 8hrs. ablets AL in the evening. tle water, dissolve it well and give it to d get additional tablets or difficulty breathing, is not able to drink	→ 139
	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	AL after 8hrs. tablet AL in the evening. ts AL after 8hrs. ablets AL in the evening. tle water, dissolve it well and give it to d get additional tablets or difficulty breathing, is not able to drink	→ 139
136	CHECK 133: ACCEPTED MEDICINE? TREATMENT WITH ARTEMETHER-LUMEFANTRINE (AL) TELL THE PARENT/RESPONSIBLE ADULT TO GIVE THE MEDICINE TO THE CHILD PROTOCOL BELOW. PAY SPECIAL ATTENTION TO THE AGE OF THE CHILD. Weight (in kg)-Approximate age	AL after 8hrs. tablet AL in the evening. ts AL after 8hrs. ablets AL in the evening. ttle water, dissolve it well and give it to d get additional tablets or difficulty breathing, is not able to drink er to a health professional for treatment BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2 OTHER 6	→ 139 → 139

$\underline{\text{WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49}}$

201	CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS" . RECO MARITAL STATUS FOR ALL ELIGIBLE WOMEN IN 202, 203, AND 204 ON THIS PA WITH THE FIRST ONE LISTED. IF MORE THAN TWO WOMEN, USE ADDITIONAL	AGE AND SUBSEQUENT PAGES STAR	
	WOMAN 1		SKIP
202	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF WOMAN.	NAME	
		LINE NUMBER	
203	CHECK CAPI OUTPUT FOR AGE:		
	CHECK COLUMN 7 IN HOUSEHOLD QUESTIONNAIRE (AGE).	15-17 YEARS	
204	CHECK CAPI OUTPUT FOR MARITAL STATUS:	- CARLON A	
	CHECK COLUMN 8 IN HOUSEHOLD QUESTIONNAIRE (MARITAL STATUS).	CODE 4 (NEVER IN UNION 1 OTHER	
205	WEIGHT IN KILOGRAMS.	KG	
		NOT PRESENT 99994 REFUSED 99995 OTHER 99996	207
206	WAS THE WOMAN WEARING ONLY LIGHTWEIGHT CLOTHING?	YES	
207	HEIGHT IN CENTIMETERS.		
		CM	
		NOT PRESENT 9994 REFUSED 9995	209
		OTHER 9996	
208	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
209	ENTER BIOMARKER TECH NUMBER OF MEASURER.		
		BIOMARKER TECH	
210	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.		
	IF NO ASSISTANT MEASURER, ENTER 9999.	BIOMARKER TECH	
211	TODAY'S DATE:	DAY	
		MONTH	
		YEAR	
212	CHECK 203: AGE 15-17 AGE 18-49	<u> </u>	
	YEARS YEARS YEARS	<u> </u>	→ 214
213	CHECK 204: OTHER CODE 4 (NEVER IN UNION)	1	→ 217

WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

WOMAN 1 SKIP ADULT RESPONDENT CONSENT FOR ANEMIA TEST ASK CONSENT FOR ANEMIA TEST: 214 As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem D U L that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after we take your blood. The blood will be tested for anemia immediately, and the result will be told to you right away. The result will be kept strictly confidential and will not be S P O shared with anyone other than members of our survey team. Do you have any questions? You can say yes or no. It is up to you to decide. N D Will you take the anemia test? N CIRCLE THE CODE. 215 GRANTED 1 REFUSED 2 0 NOT PRESENT/OTHER 3 → 225 N S SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN 216 MEASURER. (SIGN) > 225 BIOMARKER TECH 217 RECORD NAME OF PARENT/RESPONSIBLE ADULT FOR MINOR. NAME LINE NUMBER OF PARENT/ RESPONSIBLE ADULT PARENT/RESPONSIBLE ADULT CONSENT FOR ANEMIA TEST ASK CONSENT FOR ANEMIA TEST FROM PARENT/RESPONSIBLE ADULT: 218 Ε N As part of this survey, we are asking people all over the country to take an anemia test. Anemia is a serious health problem that usually results from poor nutrition, infection, or chronic disease. This survey will assist the government to develop programs to prevent and treat anemia. S P S O For the anemia testing, we will need a few drops of blood from a finger. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The blood will be tested for anemia immediately, and the result will be told to you and (NAME OF MINOR) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team. N S Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF MINOR) to take the anemia test? В E GRANTEC..... 1 219 CIRCLE THE CODE. PARENT/RESPONSIBLE ADULT REFUSED 2 NOT PRESENT/OTHER 3 → 225

$\underline{\text{WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49}}$

		WOMAN 1		SKIP
CONSENT	220	SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER.	(SIGN) BIOMARKER TECH	
	221	CHECK 219: CONSENT CONSENT REFUSED		→ 225
		MINOR RESPONDENT ASSENT FOR ANEM	ALA TEST	
	222	ASK ASSENT FOR ANEMIA TEST FROM MINOR RESPONDENT:	IIIA ILSI	
MINOR RESPONDE	222	As part of this survey, we are asking people all over the country to take an anemia test that usually results from poor nutrition, infection, or chronic disease. This survey will as programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipmen completely safe. It has never been used before and will be thrown away after we take yanemia immediately, and the result will be told to you and (NAME OF PARENT/RESPORESULT will be kept strictly confidential and will not be shared with anyone other than me Do you have any questions? You can say yes or no. It is up to you to decide. Will you take the anemia test?	t used to take the blood is clean and your blood. The blood will be tested for DNSIBLE ADULT) right away. The	
N T A S	# 223	CIRCLE THE CODE.	GRANTEC	→ 225
ENT	224	SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER.	(SIGN) BIOMARKER TECH	
r				
	# 225	RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET.	G/DL	228
	226	CHECK 225: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA	→ 228
	227	The anemia test shows that you have severe anemia. You are very ill and must go to a	health facility immediately.	
		RECORD THE RESULT OF THE ANEMIA TEST ON THE SEVERE ANEMIA REFERE		
	228	IF ANOTHER WOMAN, GO TO 202 ON THE NEXT PAGE; IF NO MORE WOMEN, G	O TO 301.	

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

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	
		LINE NUMBER	
203	CHECK CAPI OUTPUT FOR AGE:	15-17 YEARS 1	
	CHECK COLUMN 7 IN HOUSEHOLD QUESTIONNAIRE (AGE).	18-49 YEARS 2	
204	CHECK CAPI OUTPUT FOR MARITAL STATUS:		
	CHECK COLUMN 8 IN HOUSEHOLD QUESTIONNAIRE (MARITAL STATUS).	CODE 4 (NEVER IN UNION 1 OTHER 2	
205	WEIGHT IN KILOGRAMS.	кд	
		NOT PRESENT 99994 REFUSED 99995 OTHER 99996	207
206	WAS THE WOMAN WEARING ONLY LIGHTWEIGHT CLOTHING?	YES	
207	HEIGHT IN CENTIMETERS.	CM	209
208	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
209	ENTER BIOMARKER TECH NUMBER OF MEASURER.	BIOMARKER TECH	
210	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.		
	IF NO ASSISTANT MEASURER, ENTER 9999.	BIOMARKER TECH	
211	TODAY'S DATE:	DAY	
212	CHECK 203: AGE 15-17 AGE 18-49 YEARS YEARS		> 2 14
213	CHECK 204: OTHER CODE 4 (NEVER IN UNION)	1	→ 217

		WOMAN 2		SKIP
		ADULT RESPONDENT CONSENT FOR ANE	MIA TEST]
	214	ASK CONSENT FOR ANEMIA TEST:		
ADULT RES		As part of this survey, we are asking people all over the country to take an anemia tes that usually results from poor nutrition, infection, or chronic disease. This survey will as programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment completely safe. It has never been used before and will be thrown away after we take anemia immediately, and the result will be told to you right away. The result will be kept shared with anyone other than members of our survey team.	esist the government to develop t used to take the blood is clean and your blood. The blood will be tested for	
RESPONDENT		Do you have any questions? You can say yes or no. It is up to you to decide. Will you take the anemia test?		
C O N	# 215	CIRCLE THE CODE.	GRANTED 1 REFUSED 2 NOT PRESENT/OTHER 3	→ 225
S E N T	216	SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER.	(SIGN) BIOMARKER TECH	> 225
	217	RECORD NAME OF PARENT/RESPONSIBLE ADULT FOR MINOR.	NAME LINE NUMBER OF PARENT/ RESPONSIBLE ADULT	
Р		PARENT/RESPONSIBLE ADULT CONSENT FOR	ANEMIA TEST	
ARENT - RESPSONS - BLE	218	ASK CONSENT FOR ANEMIA TEST FROM PARENT/RESPONSIBLE ADULT: As part of this survey, we are asking people all over the country to take an anemia test that usually results from poor nutrition, infection, or chronic disease. This survey will as programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipment completely safe. It has never been used before and will be thrown away after each test immediately, and the result will be told to you and (NAME OF MINOR) right away. The and will not be shared with anyone other than members of our survey team. Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF MINOR) to take the anemia test?	t. Anemia is a serious health problem ssist the government to develop t used to take the blood is clean and t. The blood will be tested for anemia	
A D U L T	# 219	CIRCLE THE CODE.	GRANTED	→ 225

WEIGHT, HEIGHT AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

		WOMAN 2		SKIP
CONSENT	220	SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER.	(SIGN) BIOMARKER TECH	
	221	CHECK 219: CONSENT CONSENT REFUSED		→ 225
		MINOR RESPONDENT ASSENT FOR ANEM	NIA TEST	Ī
	222	ASK ASSENT FOR ANEMIA TEST FROM MINOR RESPONDENT:	TIA TEOT	1
MINOR RESPORDE		As part of this survey, we are asking people all over the country to take an anemia test that usually results from poor nutrition, infection, or chronic disease. This survey will as programs to prevent and treat anemia. For the anemia testing, we will need a few drops of blood from a finger. The equipmen completely safe. It has never been used before and will be thrown away after we take anemia immediately, and the result will be told to you and (NAME OF PARENT/RESPORESULT). The equipmen completely safe is the safe of the program of the safe of the sa	t used to take the blood is clean and your blood. The blood will be tested for DNSIBLE ADULT) right away. The	
N T A S	# 223	CIRCLE THE CODE.	GRANTED 1 MINOR RESPONDENT REFUSED 2 NOT PRESENT/OTHER 3	→ 225
ENT	224	SIGN NAME AND ENTER BIOMARKER TECH NUMBER OF HEMOGLOBIN MEASURER.	(SIGN) BIOMARKER TECH	
	# 225	RECORD HEMOGLOBIN LEVEL HERE AND IN THE INFORMATIONAL PAMPHLET.	G/DL	→ 228
	226A	CHECK 225: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA	→ 228
	227	The anemia test shows that you have severe anemia. You are very ill and must go to a	health facility immediately.	
		RECORD THE RESULT OF THE ANEMIA TEST ON THE SEVERE ANEMIA REFERI	RAL FORM.	
	228	IF ANOTHER WOMAN, GO TO 202 IN ADDITIONAL QUESTIONNAIRE; IF NO MOR	E WOMEN, GO TO 301.	

$\underline{\text{WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR MEN AGE 15-59}}$

301	CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS" COLUMN 10 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER, NAME, AGE, AND MARITAL STATUS FOR ALL ELIGIBLE MEN IN 302, 303, AND 304 ON THIS PAGE AND SUBSEQUENT PAGES STARTING WITH THE FIRST ONE LISTED. IF MORE THAN TWO MEN USE ADDITIONAL QUESTIONNAIRE(S).		
	MAN 1		SKIP
302	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF MAN.	NAME	
	RECORD NAME FROM COLUMN 2 IN HOUSEHOLD QUESTIONNAIRE; RECORD LINE NUMBER FROM COLUMN 10 IN HOUSEHOLD QUESTIONNAIRE.	LINE NUMBER	
303	CHECK CAPI OUTPUT FOR AGE:	45 47 VEADO	
	CHECK COLUMN 7 IN HOUSEHOLD QUESTIONNAIRE (AGE).	15-17 YEARS	
304	CHECK CAPI OUTPUT FOR MARITAL STATUS:	CODE 4 (NEVIED IN LINION 4	
	CHECK COLUMN 8 IN HOUSEHOLD QUESTIONNAIRE (MARITAL STATUS).	CODE 4 (NEVER IN UNION 1 OTHER 2	
305	WEIGHT IN KILOGRAMS.	KG 99994 REFUSED 99995 OTHER 99996	307
306	WAS THE MAN WEARING ONLY LIGHTWEIGHT CLOTHING?	YES	
307	HEIGHT IN CENTIMETERS.	CM	→ 309
308	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
309	ENTER BIOMARKER TECH NUMBER OF MEASURER.	BIOMARKER TECH	
310	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.		
	IF NO ASSISTANT MEASURER, ENTER 9999.	BIOMARKER TECH	
	TODAY'S DATE:	MONTH	
328	IF ANOTHER MAN, GO TO 302 ON THE NEXT PAGE; IF NO MORE MEN, END INTI	ERVIEW.	

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR MEN AGE 15-59

301	CHECK CAPI OUTPUT FOR "LIST ELIGIBLE INDIVIDUALS/BIOMARKERS" COLUMN 10 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER, NAME, AGE, AND MARITAL STATUS FOR ALL ELIGIBLE MEN IN 302, 303, AND 304 ON THIS PAGE AND SUBSEQUENT PAGES STARTING WITH THE FIRST ONE LISTED. IF MORE THAN TWO MEN USE ADDITIONAL QUESTIONNAIRE(S).		
	MAN 2		SKIP
302	CHECK CAPI OUTPUT AND RECORD NAME AND LINE NUMBER OF MAN.	NAME	
	RECORD NAME FROM COLUMN 2 IN HOUSEHOLD QUESTIONNAIRE; RECORD LINE NUMBER FROM COLUMN 10 IN HOUSEHOLD QUESTIONNAIRE.	LINE NUMBER	
303	CHECK CAPI OUTPUT FOR AGE:	45 47 VEADO	
	CHECK COLUMN 7 IN HOUSEHOLD QUESTIONNAIRE (AGE).	15-17 YEARS	
304	CHECK CAPI OUTPUT FOR MARITAL STATUS:	CODE 4 (NEVED IN LINION 4	
	CHECK COLUMN 8 IN HOUSEHOLD QUESTIONNAIRE (MARITAL STATUS).	CODE 4 (NEVER IN UNION 1 OTHER 2	
205	WEIGHT IN KILOGRAMS.		
305	WEIGHT IN MEGGIVANIO.	кд	
		NOT PRESENT 99994 REFUSED	→ 307
		OTHER 99996	
306	WAS THE MAN WEARING ONLY LIGHTWEIGHT CLOTHING?	YES	
307	HEIGHT IN CENTIMETERS.		
		СМ	
		NOT PRESENT 9994 REFUSED 9995	309
		OTHER 9996	
308	WAS THE RECORDED MEASUREMENT INTERFERED WITH BY BRAIDED OR ORNAMENTED HAIR?	YES	
309	ENTER BIORMARKER NUMBER OF MEASURER.		
		BIORMARKER NUMBER	
310	ENTER BIOMARKER TECH NUMBER OF ASSISTANT MEASURER.		
	IF NO ASSISTANT MEASURER, ENTER 9999.	BIOMARKER TECH	
311	TODAY'S DATE:	DAY	
		MONTH	
		YEAR	
328	IF ANOTHER MAN, GO TO 302 IN ADDITIONAL QUESTIONNAIRE; IF NO MORE M	EN, END INTERVIEW.	

BIOMARKER TECH'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING BIOMARKERS

SUPERVISOR'S OBSERVATIONS

2022 GHANA DEMOGRAPHIC AND HEALTH SURVEYS FIELDWORKER QUESTIONNAIRE

GHANA GHANA STATISTICAL SERVICE

LANGUAGE OF QUESTIONNAIRE ENGLISH

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
100	What is your name?		
		NAME	
101	RECORD FIELDWORKER NUMBER		
_		NUMBER	
	JCTIONS		
provide	will be part of the survey data file; however, your name will	DHS survey. Please fill out the questions below. The information I be removed and will not be part of the data file. Thank you for p	
the info	rmation needed.		
102	In what REGION do you live?	WESTERN	
		CENTRAL 02 GREATER ACCRA 03	
		VOLTA04	
		EASTERN	
		WESTERN NORTH 07	
		AHAFO	
		BONO	
		BONO EAST	
		NORTHERN 12	
		SAVANNAH13	
		NORTH EAST	
		UPPER EAST 15 UPPER WEST 16	
		OPPER WEST16	
103	Do you live in a city, town, or rural area?	CITY 1	
		TOWN	
		RURAL 3	
104	How old are you? RECORD AGE IN COMPLETED YEARS.	AGE	
405			
105	Are you male or female?	MALE 1 FEMALE 2	
106	What is your current marital status?	CURRENTLY MARRIED 1	
		LIVING WITH A MAN/WOMAN	
		WIDOWED	
		SEPARATED	
		NEVER MARRIED OR LIVED WITH A MAN/WOMAN	
407	Hay many living children de yey baye?		
107	How many living children do you have? INCLUDE ONLY CHILDREN WHO ARE YOUR	LIVING	
	BIOLOGICAL CHILDREN.	CHILDREN	
108	Have you ever had a child who died?	YES 1	
		NO 2	
109	What is the highest level of school you attended:	PRMARY 1	
	primary, secondary, or higher?	MIDDLE 2	
		JSS/JHS 3 SECONDARY 4	
		SSS/SHS 5	
		HIGHER 6	
110	What is the highest [GRADE/FORM/YEAR] you		
110	completed at that level?		
	IF COMPLETED LESS THAN ONE YEAR AT THAT	[GRADE/FORM/YEAR]	
	LEVEL, RECORD '00'.		
110A	Have you ever received clinical, medical, or laboratory training or worked in healthcare?	YES	
		NO 2	→111
110B	What is your current occupational category or	MEDICAL DOCTOR	
	qualification?	ASSISTANT MEDICAL OFFICER	
	For example, are you a registered nurse, doctor, or	CLINICAL OFFICER	
	laboratory technician?	ASSISTANT CLINICAL OFFICER	
		REGISTERED NURSE/MIDWIFE	
		NURSE ASSISTANT/ATTENDANT 07	
		LABORATORY SCIENTIST	
		LABORATORY TECHNOLOGIST	
		LABORATORY TECHNICIAN 10 LABORATORY ASSISTANT 11	
		NO TECHNICAL CHANGE OF THE COMMENT	
		NO TECHNICAL QUALIFICATION	
		OTHER96	
		(SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKII
111	What is your religion?	CATHOLIC	
		ANGLICAN	
		METHODIST	
		PRESBYTERIAN	
		PENTECOSTAL/CHARISMATIC	
		OTHER CHRISTIAN	
		TRADITIONAL/SPIRITUALIST 08	
		NO RELIGION 95	
		OTHER96	
		(SPECIFY)	
112	What is your ethnicity?	AKAN	
112		GA/DANGME	
		EWE	
		GUAN	
		MOLE-DAGBANI	1
		GURMA	
		MANDE 08	
		OTHER	
		(SPECIFY) 96	
113	What languages can you speak?	AKAN A	
		GA/DANGME B	
		EWE C	
	RECORD ALL LANGUAGES YOU CAN SPEAK.	DAGBANI D	
		NZEMA E BRONG F	
		OTHER X	
		(SPECIFY)	
114	What is your mother tongue/native language (language spoken at home growing up)?	AKAN	
		GA/DANGME02	
		EWE	
		DAGBANI	
		NZEMA	
		BRONG 06	
		OTHER 96 (SPECIFY)	
115	Have you ever worked on:	YES NO	
110	a) a GDHS prior to this survey?	a) GDHS	
	b) an GMIS prior to this survey?	b) GMIS	1
	c) any other survey prior to this survey?	c) OTHER SURVEY	
116	Were you already working for the National Public	YES, NPHRL 1	
	Health Reference Laboratory (NPHRL) or the Ghana	YES, GSS 2	1
	Statistical Service (GSS) at the time you were		1
	employed to work on this MIS?	NO 3	→ 118
	Are you a parmanent or townsers, ampleyee of the		
117	Are you a permanent or temporary employee of the	1	l
117	National Public Health Reference Laboratory	PERMANENT 1	
117	National Public Health Reference Laboratory (NPHRL) or the Ghana Statistical Service (GSS)?	PERMANENT 1 TEMPORARY 2	
117			
117			

ADDITIONAL DHS PROGRAM RESOURCES

DHSprogram.com	
Statcompiler.com	
Search DHS Program in your iTunes or Google Play store	
userforum.DHSprogram.com	
www.youtube.com/DHSProgram	
DHSprogram.com/Data	
spatialdata.DHSprogram.com	
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