## Liberia

# Demographic and Health Survey 



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# Demographic and Health Survey 2019-20 

Liberia Institute of Statistics and<br>Geo-Information Services (LISGIS)<br>Monrovia, Liberia<br>Ministry of Health<br>Monrovia, Liberia

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## FOREWORD

TThe 2019-20 Liberia Demographic and Health Survey (LDHS) was authorized by the Ministry of Health $(\mathrm{MOH})$ and implemented by the Liberia Institute of Statistics and Geo-Information Services (LISGIS). The study is the fifth in a series of Demographic and Health Surveys conducted in Liberia. Previous surveys were conducted in 1986, 1999/2000, 2007, and 2013.

The LDHS provides an opportunity to inform policy and provide data for planning, implementation, and monitoring and evaluation of national health programs. It is designed to provide up-to-date information on health indicators including fertility levels, sexual activity, fertility preferences, awareness and use of family planning methods, breastfeeding practices, nutritional status of children, early childhood and maternal mortality, maternal and child health, and awareness and behaviors regarding HIV/AIDS and other sexually transmitted infections. The study also incorporated measurements of HIV, hepatitis B, and hepatitis C prevalence along with seroprevalence of Ebola virus disease antibodies, the results of which will be included in future addendums. In addition to presenting national estimates, the report provides estimates of key indicators for both rural and urban areas, the country's 15 counties, and the capital, Monrovia.

LISGIS wishes to express its appreciation to those involved in the implementation of the 2019-20 LDHS through financial and technical support and the preparation of this report. Particular thanks go to the following:

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- The LDHS Steering Committee, for its commitment and dedication to the survey's successful implementation
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Above all, we appreciate the assistance of all of the survey respondents nationwide who have made the 2019-20 LDHS a success.


Prof. Francis F. Wreh
DIRECTOR-GENERAL
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## ACRONYMS AND ABBREVIATIONS

| ACT | Artemisinin-based combination therapy |
| :---: | :---: |
| AIDS | Acquired immunodeficiency syndrome |
| AL | Artemether/lumefantrine |
| ARI | Acute respiratory infection |
| ART | Antiretroviral therapy |
| ASAQ | Artesunate/amodiaquine |
| BCG | Bacille Calmette-Guérin |
| BMI | Body mass index |
| CAPI | Computer-assisted personal interviewing |
| CDC | Centers for Disease Control and Prevention |
| CI | Confidence interval |
| CPR | Contraceptive prevalence rate |
| CSPro | Census and Survey Processing |
| DBS | Dried blood spot |
| DHS | Demographic and Health Survey |
| DPT | Diphtheria, pertussis, and tetanus vaccine |
| EAs | Enumeration areas |
| EVD | Ebola virus disease |
| FGC | Female genital cutting |
| FGM | Female genital mutilation |
| GAR | Gross attendance ratio |
| GAVI | Global Alliance for Vaccine and Immunization |
| GFR | Gross fertility rate |
| GPI | Gender parity index |
| НерВ | Hepatitis B |
| НерС | Hepatitis C |
| Hib | Haemophilus influenzae type B |
| HIV | Human immunodeficiency syndrome |
| ICF | ICF (originally, Inner City Fund) |
| ID | Identification document |
| IFSS | Internet File Streaming System |
| IPTp | Intermittent preventive treatment during pregnancy |
| IPV | Inactivated polio vaccine |
| IRB | Institutional review board |
| IT | Information technology |


| ITN | Insecticide-treated net |
| :---: | :---: |
| IUD | Intrauterine device |
| IYCF | Infant and young child feeding |
| LAM | Lactational amenorrhea |
| LDHS | Liberia Demographic and Health Survey |
| LISGIS | Liberia Institute of Statistics and Geo-Information Services |
| LLINs | Long-lasting insecticidal nets |
| LMIS | Liberia Malaria Indicator Survey |
| MAM | Moderate acute malnutrition |
| MICS | Multiple Indicator Cluster Survey |
| MMR | Maternal mortality ratio |
| MOH | Ministry of Health |
| MTCT | Mother-to-child transmission |
| NAR | Net attendance ratio |
| NHSP | National Health Strategic Plan |
| NN | Neonatal mortality |
| NPHC | National Population and Housing Census |
| NRL | Liberia National Reference Laboratory |
| OPV | Oral polio vaccine |
| ORS | Oral rehydration salts |
| ORT | Oral rehydration therapy |
| PNN | Postneonatal mortality |
| PRMR | Pregnancy-related mortality ratio |
| RDT | Rapid diagnostic testing |
| RHF | Government-recommended homemade fluids |
| RMNCAH | Reproductive, maternal, newborn, child, and adolescent health |
| SAM | Severe acute malnutrition |
| SD | Standard deviation |
| SDGs | Sustainable Development Goals |
| SDM | Standard days method |
| SE | Standard error |
| SP | Sulfadoxine-pyrimethamine |
| STIs | Sexually transmitted infections |
| TB | Tuberculosis |
| TFR | Total fertility rate |


| UL-PIRE | University of Liberia Pacific Institute for Research and Evaluation |
| :--- | :--- |
| UNDP | United Nations Development Programme |
| UNFPA | United Nations Population Fund |
| UNICEF | United Nations Children's Fund |
| USAID | United States Agency for International Development |
|  |  |
| VAD | Vitamin A deficiency |
| VIP | Ventilated improved pit latrine |
|  |  |

# READING AND UNDERSTANDING TABLES FROM THE 2019-20 LIBERIA DEMOGRAPHIC AND HEALTH SURVEY (LDHS) 

The 2019-20 Liberia 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 colorful maps display breakdowns for regions and counties in Liberia. 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, LDHS data users should be comfortable reading and interpreting tables.

The following pages provide an introduction to the organization of LDHS tables, the presentation of background characteristics, and 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 LDHS tables.


## Example 1: Exposure to Mass Media: Women A Question Asked of All Survey Respondents

| Table 3.4.1 Exposure to mass media: Women |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Percentage of women age | $15-49$ who are exposed to specific media on a weekly basis, according to background |  |  |  |  |
| characteristics, Liberia DHS | $2019-20$ |  |  |  |  |
|  |  |  |  |  |  |

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, county, level of education, and wealth quintile. Most of the tables in the LDHS 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, $2.1 \%$ * of women age $15-49$ read a newspaper at least once a week, $16.7 \%$ watch television at least weekly, and $26.5 \%$ listen to the radio on a weekly basis.

Step 5: To find out what percentage of women with no education listen to the radio at least once a week, draw two imaginary lines, as shown on the table. This shows that $18.6 \%$ of women age $15-49$ with no education 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 Liberia. Mass media are often used to communicate health messages. Knowing how mass media exposure varies among different groups can help program 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 Liberia 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 in urban areas to women in rural areas-which group is more likely to listen to the radio on a weekly basis?
d) What are the lowest and the highest percentages (range) of women who do not access any media at least once a week by county?
e) Is there a clear pattern in exposure to radio at least once a week by wealth quintile?

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## Example 2: Prevalence and Treatment of ARI <br> A Question Asked of a Subgroup of Survey Respondents

| 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, Liberia DHS 2019-20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Among childre | nder age 5: | Among children under age 5 with symptoms of ARI: |  |  |
|  | Percentage with symptoms of ARI ${ }^{1}$ | Number of children | Percentage for whom advice or treatment was sought ${ }^{2}$ | Percentage for whom advice or treatment was sought same or next day ${ }^{2}$ | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 5.2 | 569 | (81.8) | (28.6) | 30 |
| 6-11 | 8.8 | 529 | (64.9) | (20.9) | 46 |
| 12-23 | 5.7 | 937 | 78.3 | 36.4 | 53 |
| 24-35 | 4.0 | 873 | (84.4) | (39.0) | 35 |
| 36-47 | 3.5 | 978 | (85.5) | (51.2) | 35 |
| 48-59 | 1.7 | 980 | (83.1) | (14.4) | 16 |
| Sex |  |  |  |  |  |
| Male | 4.1 | 2,431 | 81.4 | 39.2 | 100 |
| Female | 4.7 | 2,434 | 75.8 | 27.8 | 115 |
| Cooking fuel |  |  |  |  |  |
| Electricity or gas | (0.4) | 61 | * | * | 0 |
| Kerosene |  | 5 | * | nc | 0 |
| Fire coal/charcoal | 4.7 | 2,132 | 80.1 | 38.5 | 100 |
| Wood/straw ${ }^{3}$ | 4.3 | 2,668 | 76.9 | 28.5 | 115 |
| Residence |  |  |  |  |  |
| Urban | 3.8 | 2,615 | 76.3 | 35.0 | 101 |
| Greater Monrovia | 4.7 | 1,326 |  |  | 63 |
| Other urban | 2.9 | 1,289 | (87.7) | (41.1) | 38 |
| Rural | 5.1 | 2,251 | 80.3 | 31.5 | 115 |
| Region |  |  | 4 |  |  |
| North Western | 3.7 | 419 | 4 (71.9) | (37.6) | 16 |
| South Central | 4.8 | 2,123 | 75.8 | 25.2 | 102 |
| South Eastern A | 4.7 | 302 | (89.2) | (48.1) | 14 |
| South Eastern B | 6.9 | 268 | 82.9 | 47.1 | 18 |
| North Central | 3.7 | 1,755 | 80.3 | 37.0 | 66 |
| County |  |  |  |  |  |
| Bomi | 1.4 | 143 |  | * | 2 |
| Bong | 6.1 | 540 | (83.6) | (45.0) | 33 |
| Gbarpolu | 8.8 | 86 | * | ( | 8 |
| Grand Bassa | 4.2 | 341 | * | * | 14 |
| Grand Cape Mount | 3.2 | 190 | * | * | 6 |
| Grand Gedeh | 5.3 | 111 | * | * | 6 |
| Grand Kru | 7.3 | 96 | * | * | 7 |
| Lofa | 4.3 | 375 | * | * | 16 |
| Margibi | 1.9 | 256 | * | * | 5 |
| Maryland | 5.5 | 123 | * | * | 7 |
| Montserrado | 5.4 | 1,526 | (72.2) | (27.5) | 82 |
| Nimba | 1.9 | 839 | * | * | 16 |
| River Cess | 7.4 | 74 | * | * | 5 |
| River Gee | 9.4 | 48 | * | * | 5 |
| Sinoe | 2.5 | 117 | * | * | 3 |
| Mother's education |  |  |  |  |  |
| No education | 4.2 | 1,723 | 70.6 | 27.8 | 73 |
| Elementary | 4.3 | 1,236 | 87.5 | 33.8 | 53 |
| Junior high | 3.5 | 852 | (66.0) | (21.6) | 30 |
| Senior high | 4.9 | 866 | (80.6) | (36.2) | 42 |
| Higher | 8.9 | 189 | * | * | 17 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 5.3 | 1,169 | 70.7 | 23.1 | 62 |
| Second | 3.8 | 1,061 | 84.3 | 34.6 | 40 |
| Middle | 3.7 | 912 | 71.6 | 33.9 | 33 |
| Fourth | 4.3 | 913 | (74.6) | (33.7) | 39 |
| Highest | 5.0 | 811 | * | * | 40 |
| Total | $4.4$ | 4,866 | 78.4 | 33.1 | 216 |

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

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

Step 3: Look at the first panel. What percentage of children under age 5 had symptoms of ARI in the 2 weeks before the survey? It's $4.4 \%$. Now look at the second panel. How many children under age 5 are there who had symptoms of ARI in the 2 weeks before the survey? It's 216 children, or $4.4 \%$ of the 4,866 children under age 5 (with rounding). The second panel is a subset of the first panel.

Step 4: Only $4.4 \%$ 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 in the North Western region had advice or treatment sought? It's $71.9 \%$. 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 in Bomi county had advice or treatment sought? There is no number in this cell-only an asterisk. This is because there are fewer than 25 children. 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 LDHS Tables

A sample is a group of people who have been selected for a survey. In the LDHS, 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 2019-20 LDHS, the survey sample is representative at the national level, for urban and rural areas, for each of the 5 regions, and, for most indicators, for each of the 15 counties.

To generate statistics that are representative of the country as a whole and the 15 counties, the number of women surveyed in each county should contribute to the size of the total (national) sample in proportion to size of the county. However, if some counties have small populations, then a sample allocated in proportion to each county's population may not include sufficient women from each county for analysis. To solve this problem, counties with small populations are oversampled. For example, let's say that you have enough money to interview 8,065 women and want to produce results that are representative of Liberia as a whole and its counties (as in Table 3.1). However, the total population of Liberia is not evenly distributed among the counties: some counties, such as Montserrado, are heavily populated while others, such as River Gee, are not. Thus, River Gee must be oversampled.

A sampling statistician determines how many women should be interviewed in each county in order to get reliable statistics. The blue column (1) in the table at right

| Table 3.1 Background characteristics of respondents <br> Percent distribution of women and men age $15-49$ by selected background characteristics, Liberia DHS 2019-20 |  |  |  |
| :---: | :---: | :---: | :---: |
| Background characteristic | Women |  |  |
|  | Weighted percent | Weighted number | Unweighted number |
| Region |  |  |  |
| North Western | 7.7 | 2621 | 1,158 |
| South Central | 50.9 | 4,105 | 2,301 |
| South Eastern A | 5.7 | 458 | 1,195 |
| South Eastern B | 5.5 | 441 | 1,486 |
| North Central | 30.2 | 2,439 | 1,925 |
| County |  |  |  |
| Bomi | 3.1 | 249 | 401 |
| Bong | 9.9 | 796 | 671 |
| Gbarpolu | 1.4 | 112 | 337 |
| Grand Bassa | 5.8 | 467 | 543 |
| Grand Cape Mount | 3.2 | 260 | 420 |
| Grand Gedeh | 2.1 | 172 | 384 |
| Grand Kru | 1.7 | 136 | 449 |
| Lofa | 8.2 | 658 | 581 |
| Margibi | 5.5 | 441 | 539 |
| Maryland | 2.7 | 215 | 574 |
| Montserrado | 39.6 | 3,197 | 1,219 |
| Nimba | 12.2 | 985 | 673 |
| River Cess | 1.3 | 104 | 365 |
| River Gee | 1.1 | 91 | 463 |
| Sinoe | 2.3 | 182 | 446 |
| Total 15-49 | 100.0 | 8,065 | 8,065 | shows the actual number of women interviewed in each county. The number of women interviewed by county ranges from 337 in Gbarpolu to 1,219 in Montserrado. The number of interviews is sufficient to get reliable results in each region and county.

With this distribution of interviews, some counties are overrepresented and some counties are underrepresented. For example, the population in Montserrado is about $39.6 \%$ of the population in Liberia, while Gbarpolu's population contributes only $1.4 \%$ of the population in Liberia. But as the blue column shows, the number of women interviewed in Montserrado accounts for only about $15.1 \%$ of the total sample of women interviewed $(1,219 / 8,065)$ and the number of women interviewed in Gbarpolu accounts for about $4.2 \%$ of the total sample of women interviewed $(337 / 8,065)$. This unweighted distribution of women does not accurately represent the population.

In order to get statistics that are representative of Liberia, 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 county, like Gbarpolu, should contribute only a small amount to the national total. Women from a large county, like Montserrado, should contribute much more. Therefore, DHS statisticians mathematically calculate a "weight" that is used to adjust the number of women from each county so that each county's contribution to the total is proportional to the actual population of the county. 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 county level. The total national sample size of 8,065 women has not changed after weighting, but
the distribution of the women in the counties 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 Liberia, you would see that women in each county 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 Montserrado and the proportion of women who live in Gbarpolu.

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

| Sustainable Development Goals Indicators |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Liberia DHS 2019-20 |  |  |  |  |  |
|  |  |  |  |  |  |
| Indicator |  | Male | Female | Total | DHS table number |
| 2. Zero hunger |  |  |  |  |  |
| 2.2.1 | Prevalence of stunting among children under 5 years of age | 31.8 | 27.9 | 29.8 | 11.1 |
|  | Prevalence of malnutrition among children under 5 years of age | 8.2 | 7.4 | $7.8{ }^{\text {a }}$ | na |
|  | a) Prevalence of wasting among children under 5 years of age | 3.6 | 3.2 | $3.4{ }^{\text {a }}$ | 11.1 |
|  | b) Prevalence of overweight among children under 5 years of age | 4.5 | 4.2 | $4.4{ }^{\text {a }}$ | 11.1 |
| 3. Good health and well-being |  |  |  |  |  |
| 3.1.1 | Maternal mortality ratio ${ }^{1}$ | na | na | 742 | 14.04 |
| 3.1.2 | Proportion of births attended by skilled health personnel | na | na | 84.4 | 9. 7 |
| 3.2.1 | Under-5 mortality rate ${ }^{2}$ | 96 | 91 | 93 | 8.2 |
| 3.2 .2 | Neonatal mortality rate ${ }^{2}$ | 45 | 30 | 37 | 8.2 |
| 3.7.1 | Proportion of women of reproductive age (age 15-49 years) who have their need for family planning satisfied with modern methods | na | 47.8 | na | 7.13.2 |
| 3.7.2 | Adolescent birth rates per 1,000 women |  |  |  |  |
|  | a) Girls age 10-14 years ${ }^{3}$ | na | 4 | na | 5.1 |
|  | b) Women age 15-19 years ${ }^{4}$ | na | 128 | na | 5.1 |
| 3.a. 1 | Age-standardized prevalence of current tobacco use among persons age 15 years and older ${ }^{5}$ | 7.3 | 1.0 | $4.2^{\text {a }}$ | 3.10.1, 3.10.2 |
| 3.b. 1 | Proportion of the target population covered by all vaccines included in their national program |  |  |  |  |
|  | a) Coverage of DPT containing vaccine ( $3^{\text {rd }}$ dose $)^{6}$ | 70.5 | 68.0 | 69.2 | 10.4 |
|  | c) Coverage of pneumococcal conjugate vaccine (last dose in schedule) ${ }^{7}$ | 70.9 | 66.2 | 68.5 | 10.4 |
| 5. Gender equality |  |  |  |  |  |
| 5.2.1 | Proportion of ever-partnered women and girls age 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the |  |  |  |  |
|  | previous 12 months ${ }^{8,9}$ | na | 45.6 | na | 16.12 |
|  | a) Physical violence | na | 34.0 | na | 16.12 |
|  | b) Sexual violence | na | 6.9 | na | 16.12 |
|  | c) Psychological violence | na | 35.0 | na | 16.12 |
| 5.3.1 | Proportion of women age 20-24 years who were married or in a union before age 15 and before age 18 |  |  |  |  |
|  | a) before age 15 | na | 5.8 | na | 4.3 |
|  | b) before age 18 | na | 24.9 | na | 4.3 |
| 5.3.2 | Proportion of girls and women age 15-49 years who have undergone female genital |  |  |  |  |
|  | mutilation/cutting | na | 38.2 | na | 15.19 |
| 5.6.1 | Proportion of women age 15-49 years who make their own informed decisions regardingsexual relations, contraceptive use and reproductive health care ${ }^{10}$ |  |  |  |  |
|  |  | na | 58.8 | na | na |
| 5.b. 1 | Proportion of individuals who own a mobile telephone ${ }^{11}$ | 60.6 | 46.7 | $53.7{ }^{\text {a }}$ | 15.7.1, 15.7.2 |
|  |  | Residence |  |  |  |
| Indicator |  | Urban | Rural | Total | DHS table number |
| 7. Affordable clean energy |  |  |  |  |  |
| 7.1.1 | Proportion of population with access to electricity | 37.0 | 4.3 | 23.1 | 2.4 |
| 7.1.2 | Proportion of population with primary reliance on clean fuels and technology ${ }^{12}$ | 1.5 | 0.3 | 1.0 | 2.4 |
|  |  | Sex |  |  |  |
| Indicator |  | Male | Female | Total | DHS table number |
| 8. Decent work and economic growth |  |  |  |  |  |
| 8.7 .1 | Proportion and number of children age 5-17 years engaged in child labor | 29.3 | 34.3 | 31.7 | 17.6 |
| 8.10.2 | Proportion of adults ( 15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider ${ }^{13}$ | 21.3 | 12.0 | $16.7^{\text {a }}$ | 15.7.1, 15.7.2 |
| 16. Peace, justice, and strong institutions |  |  |  |  |  |
| 16.2.1 Percentage of children age 1-17 years who experienced any physical punishment and/ psychological aggression by caregivers in the past month ${ }^{14}$ |  | 85.2 | 85.1 | 85.2 | 17.1 |
| 16.9.1 | Proportion of children under 5 years of age whose births have been registered with a civil authority | 67.1 | 65.4 | 66.3 | 2.11 |
| Partnerships for the goals |  |  |  |  |  |
| 17.8.1 | Proportion of individuals using the Internet ${ }^{15}$ | 36.4 | 22.0 | $29.2^{\text {a }}$ | 3.5.1, 3.5.2 |
| na $=$ Not applicable |  |  |  |  |  |
| ${ }^{1}$ Expressed in terms of maternal deaths per 100,000 live births in the 7-year period preceding the survey |  |  |  |  |  |
| ${ }^{2}$ Expressed in terms of deaths per 1,000 live births for the 5 -year period preceding the survey |  |  |  |  |  |
| ${ }^{3}$ 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 |  |  |  |  |  |
| ${ }^{4}$ 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 |  |  |  |  |  |
| ${ }_{5}$ Data are not age-standardized and are available for women and men age 15-49 only. |  |  |  |  |  |
| ${ }^{6}$ The percentage of children age 12-23 months who received three doses of DPT containing vaccine |  |  |  |  |  |
| ${ }^{7}$ The percentage of children age 12-23 months who received three doses of pneumococcal conjugate vaccine |  |  |  |  |  |
| ${ }^{8}$ Data are available for women age 15-49 who have ever been in union only. |  |  |  |  |  |
| ${ }^{9}$ In the DHS, psychological violence is termed emotional violence. |  |  |  |  |  |
| ${ }^{10}$ Data are available for currently married women who are not pregnant only. |  |  |  |  |  |
| ${ }^{11}$ Data are available for women and men age 15-49 only. |  |  |  |  |  |
| ${ }^{12}$ Measured as the percentage of the population using clean fuel for cooking. |  |  |  |  |  |
| ${ }^{13}$ Data are available for women and men age 15-49 who have and use an account at bank or other financial institution; information on use of a mobile-money-service provider is not available |  |  |  |  |  |
| ${ }^{14}$ Data are available for children age 1-14 only. |  |  |  |  |  |
| ${ }^{15}$ Data are available for women and men age 15-49 who have used the internet in the past 12 months. |  |  |  |  |  |
| ${ }^{\text {a }}$ The total is calculated as the simple arithmetic mean of the percentages in the columns for males and females. |  |  |  |  |  |

## LIBERIA



## INTRODUCTION AND SURVEY METHODOLOGY

TThe 2019-20 Liberia Demographic and Health Survey (LDHS) is the fifth Demographic and Health Survey to be conducted in Liberia. It was implemented by the Liberia Institute of Statistics and GeoInformation Services (LISGIS) in partnership with the Ministry of Health (MOH). Data collection took place from October 16, 2019, to February 12, 2020. Funding was provided by the United States Agency for International Development (USAID). The United States Centers for Disease Control and Prevention (CDC), the United Nations Population Fund (UNFPA), the United Nations Children’s Fund (UNICEF), the Embassy of Ireland (Irish Aid), the United Nations Development Programme (UNDP), the World Health Organization (WHO), UN Women, and the Global Alliance for Vaccine and Immunization (GAVI) provided additional funds for the survey. ICF provided technical assistance through The DHS Program, a USAID-funded project providing support and technical assistance in the implementation of population and health surveys in countries worldwide.

### 1.1 Survey Objectives

The primary objective of the 2019-20 LDHS is to provide up-to-date estimates of key demographic and health indicators necessary for program managers, policymakers, and implementers to monitor and evaluate the impact of existing policies and programs and to design new initiatives for health policies in Liberia. This survey is considered a key resource for the new sixth National Health Strategic Plan (NHSP) 2017-2021.

Specifically, the main objectives of the survey are:

- To collect high-quality data on fertility levels and preferences; contraceptive use; maternal and child health; neonatal, infant, and child mortality levels; maternal mortality; and other health issues relevant to the achievement of the Sustainable Development Goals (SDGs) (e.g., gender, nutrition, awareness regarding HIV/AIDS)
- To provide information on availability of, access to, and use of mosquito nets as part of national malaria control programs
- To assess protection of children from violence and exploitation
- To provide information on other health issues, such as tobacco use, tuberculosis, and health insurance
- To obtain data on women's empowerment, domestic violence, and female genital cutting
- To test household salt for the presence of iodine
- To obtain data on child feeding practices, including breastfeeding, and collect anthropometric measures to assess the nutritional status of children under age 5 and women age 15-49
- To conduct anemia testing of women age 15-49 and children age 6-59 months
- To measure HIV prevalence levels among men age 15-59 and women age 15-49
- To measure hepatitis B and C prevalence levels among men age 15-59 and women age 15-49
* To measure the seroprevalence of Ebola virus disease (EVD) antibodies among men age 15-59 and women age 15-49 and collect data on risk factors related to Ebola

It should be noted that although the 2019-20 LDHS is considered the fifth Demographic and Health Survey to be conducted in Liberia, the results of the 1999-2000 LDHS, the second survey conducted in the country, are withheld from the trends in this report because that survey was undertaken outside the purview of The DHS Program and with no external technical assistance. Additionally, a subset of the indicators included in the 2019-20 LDHS overlap with indicators produced as part of the 2016, 2011, and 2009 Liberia Malaria Indicator Surveys (LMIS).

### 1.2 Sample Design

The sampling frame used for the 2019-20 LDHS is based on the 2008 National Population and Housing Census (NPHC), conducted by the LISGIS. Liberia is divided into 15 counties grouped to form five geographical regions, with each region consisting of three counties. Each county is divided into districts and each district into clans. In the 2008 NPHC, each clan was subdivided into enumeration areas (EAs). An enumeration area is a geographical area assigned to an enumerator for the purpose of conducting a census count; according to the Liberian census frame, each EA consists of an average of 100 households.

The 2019-20 LDHS followed a stratified two-stage cluster design. The first stage involved selecting sample points (clusters) consisting of EAs. EAs were drawn with a probability proportional to their size within each sampling stratum. A total of 325 clusters were selected.

The second stage involved systematic sampling of households. A household listing operation was undertaken in all of the selected clusters. During the listing, an average of 129 households were found in each cluster, from which a fixed number of 30 households were selected with an equal probability systematic selection process; the total sample size was 9,745 households. Results from this sample will be representative at the national, urban (Greater Monrovia and all other urban areas), and rural levels, including each of the five regions. The survey will also produce separate representative results for most key indicators of the 15 counties.

All women age 15-49 and men age 15-59 who were either permanent residents of the selected households or visitors who stayed in the households the night before the survey were eligible to be interviewed. However, male interviews were conducted only in a subsample consisting of half of the households in each cluster. Biomarker collection also occurred only in this subsample. In these households, all adult women age 18-49 and men age 18-59, as well as young women and men age 15-17 who either were emancipated minors or received parental or guardian consent, were eligible for HIV testing. HIV testing was conducted in two ways: rapid diagnostic testing (RDT) and dried blood spot preparation (DBS). RDT immediately provided respondents with their HIV status, while DBS samples were sent for laboratory testing to produce a national HIV prevalence estimate. Hemoglobin testing for anemia was performed in each household among eligible women age 18-49 and young emancipated women age $15-17$ who consented to being tested. With consent from parents or guardians, children age 6-59 months and young non-emancipated women age $15-17$ were also tested for anemia in each household. In addition, height and weight measurements were collected from women age 15-49 and children age $0-59$ months in all households selected for biomarker collection.

All women age 18-49, men age 18-59, and young women and men age 15-17 who either were emancipated or received parental or guardian consent were also eligible for hepatitis B and C and EVD antibody testing by a CDC follow-up survey team. The follow-up team collected venous blood samples from eligible respondents who consented to hepatitis B and C and/or EVD antibody testing.

Finally, one eligible woman from each household in the subsample of households participating in the male interviews and biomarker collection was randomly selected to be asked additional questions about domestic violence.

### 1.3 Questionnaires

Seven questionnaires were used for the 2019-20 LDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, the Biomarker Questionnaire Part A, the Biomarker Questionnaire Part B, the Biomarker Revisit Questionnaire, and the Fieldworker Questionnaire. These questionnaires, based on The DHS Program's standard questionnaires, were adapted to reflect the population and health issues relevant to Liberia. Suggestions were solicited from various stakeholders representing government ministries and agencies, nongovernmental organizations, and international donors. After all questionnaires were finalized in English, they were translated into a form of simple English commonly understood in Liberia.

The Household Questionnaire listed all members of and visitors to the selected households. Basic demographic information was collected on each person listed, including age, sex, marital status, education, and relationship to the head of the household. For children under age 18, survival status of parents was determined. Information on child labor and discipline was collected for one randomly selected child age 1-17 in the household. Data on age and sex of household members were used to identify women and men eligible for individual interviews. The Household Questionnaire also collected information on characteristics of the household's dwelling unit, such as source of water; type of toilet facilities; materials used for flooring, external walls, and roofing; ownership of various household goods; and access to and use of mosquito nets. In addition, household salt was tested for iodine content.

The Woman's Questionnaire was used to collect information from all eligible women age 15-49. These women were asked questions on the following topics:

- Background characteristics (including age, education, and media exposure)
- Reproduction and child mortality
- Contraception
- Prenatal, delivery, and postnatal care
- Vaccinations and childhood illnesses
- Maternal and child health and nutrition
- Marriage and sexual activity
- Fertility preferences
- Women's work and husbands' background characteristics
- Knowledge, awareness, and behavior regarding HIV/AIDS and other sexually transmitted infections (STIs)
- Knowledge, attitudes, and behavior related to other health issues (e.g., injections, smoking, tuberculosis, childhood illnesses, and pregnancy and childbirth)
- Female genital cutting/mutilation
- Experiences during the Ebola outbreak in Liberia
- Adult and maternal mortality
- Domestic violence

The Man's Questionnaire was used to collect information from all eligible men age 15-59 in half of the selected households. These men were asked questions on the following topics:

- Background characteristics
- Reproduction
- Contraception
- Marriage and sexual activity
- Fertility preferences
- Employment and gender roles
- HIV/AIDS
- Experiences during the Ebola outbreak in Liberia
- Other health issues (e.g., injections, smoking, tuberculosis, and health insurance)

The 2019-20 LDHS biomarker collection, which occurred in the same subsample as the male interviews, involved a two-part field operation. As a result, biomarkers were collected using two questionnaires: Part A and Part B. Part A was the traditional DHS Biomarker Questionnaire, in which respondent characteristics, consent, and results from anthropometry, anemia, and RDT HIV testing were recorded. This questionnaire was administered exclusively by DHS biomarker technicians in conjunction with DHS interviews. DHS biomarker technicians then used Part B to administer the consent to the follow-up visit by Team B. If the respondent agreed to a follow-up visit, Part B was used by the CDC follow-up field team, which consisted of phlebotomists, counselors, and supervisors, to administer the consent for the venous blood testing before proceeding with the collection.

As part of DHS anthropometry data quality assurance procedures, the 2019-20 LDHS included random and flagged measurement revisits. Random revisits were used to assess the biomarker technicians' precision, while flagged revisits were used to identify suspicious initial measurements and improve data quality. The results of these remeasurements were recorded in the separate Biomarker Revisit Questionnaire.

The Household, Woman's, and Man's Questionnaires were programmed into tablet computers to facilitate computer-assisted personal interviewing (CAPI) for data collection purposes. The Biomarker Questionnaire Part A and the Biomarker Revisit Questionnaire were completed on paper during data collection and then entered into the CAPI system in the field before the data collection teams completed each cluster. In contrast, the Biomarker Questionnaire Part B was completed exclusively on paper.

The Fieldworker Questionnaire, which collected data on fieldworkers' general background characteristics, served as a tool for conducting analyses of data quality. Fieldworkers filled out the two-page self-administered questionnaire after the main training and before they entered the field. No personal identifiers were attached to the Liberia DHS fieldworkers' data file.

The protocols for survey methodology, biomarker measurements, and all instruments used were approved by institutional review boards (IRBs) at ICF and the University of Liberia Pacific Institute for Research and Evaluation (UL-PIRE) in Liberia. Both IRBs approved protocols before the commencement of data collection activities.

### 1.4 Anthropometry, Anemia, HIV, Hepatitis, and EVD Testing

The 2019-20 LDHS incorporated the following biomarkers: anthropometry, hemoglobin, rapid and laboratory testing for HIV, and collection of venous blood samples for laboratory testing of hepatitis B and C and EVD antibodies.

As noted, data on HIV were collected through two methods: RDT, which provided respondents with immediate results regarding their HIV status, and collection of DBS samples. The DBS samples, along with the venous blood samples collected by the follow-up CDC survey team, were sent for laboratory testing. The venous blood samples will be used to produce national hepatitis $B$ and $C$ prevalence estimates and to estimate the EVD survivor population in Liberia. The results of DBS, hepatitis B and C, and EVD testing were not
available at the time of publication of this report and therefore have not been included. Once the testing is completed, the results will be published in separate annexes to this report.

### 1.4.1 Anthropometric Measurements

In households selected for biomarker collection, height and weight measurements were recorded for children age 0-59 months and women age 15-49. Weight measurements were obtained using lightweight, electronic SECA 878 scales with a digital screen and a mother and child function. Height measurements were carried out with ShorrBoards® made by Weigh and Measure, LLC. Children younger than age 24 months were measured while lying down on the board, while standing height was measured for children age 2-5 and for women.

As mentioned, the 2019-20 LDHS included a remeasurement process to ensure anthropometry data quality. To that end, during data collection, two children in each cluster and all children with anthropometry data outside of a pre-specified range were flagged for remeasurement. The remeasurement occurred on the day after the original measurement. Fieldworkers were blinded to the reason for the remeasurement.

### 1.4.2 Anemia Testing

Blood specimens for anemia testing were collected from all children age 6-59 months and women age 15-49 for whom consent had been obtained. For non-emancipated young women age 15-17 who had never been married, the consent of a parent or guardian was sought first, followed by the minor's assent. For children age 6-59 months, consent was provided by a parent or guardian. The consent statement explained the purpose of the test and how the test would be performed, informed the respondent that the results would be kept confidential, and requested permission for the test to be carried out.

Blood samples were drawn from a drop of blood taken from a finger prick (or a heel prick for young children age 6-11 months or very thin children with small fingers) and collected in a microcuvette. Hemoglobin analysis was carried out on-site using a battery-operated portable HemoCue 201+ analyzer, which produces a result in less than 1 minute. Results were given verbally and in writing. Parents of children with a hemoglobin level below $7 \mathrm{~g} / \mathrm{dl}$ were advised to take the child to a health facility for follow-up care. Likewise, nonpregnant women and pregnant women were referred for follow-up care if their hemoglobin levels were below $7 \mathrm{~g} / \mathrm{dl}$ and $9 \mathrm{~g} / \mathrm{dl}$, respectively.

Lancets and other supplies and equipment used during collection of samples were disposed of safely, usually by taking the materials to a nearby health facility that uses proper protocols for the disposal of biohazardous waste.

### 1.4.3 HIV Testing

The survey featured two forms of HIV testing. RDT was performed according to a national HIV testing algorithm for respondents who wished to be informed of their status, while DBS specimens were collected and transported to a central lab for anonymized testing. HIV prevalence for the survey will be based on the laboratory test results.

The national RDT algorithm in Liberia consists of a screening RDT (Determine® HIV 1/2) followed by confirmatory testing of all reactive samples with a second RDT (SD Bioline HIV 1/2 3.0). If a respondent tested positive on the screening test and negative on the confirmatory test, a third tie-breaker test was performed (Uni-Gold ${ }^{\text {TM }} \mathrm{HIV}$ ). To test respondents via RDT, a blood sample was collected directly from a finger prick using a sample collection device supplied with the test kit.

Dedicated nurse counselors who provided pre- and post-test counseling conducted HIV rapid testing. Pretest counseling included an explanation of HIV infection and transmission, the meaning of test results, risks associated with sexual behaviors, and how to prevent and treat HIV and other sexually transmitted infections. Post-test counseling messages were tailored to respondents' HIV results and risk profiles.

The testing and delivery of results at home were done after creating conditions that would guarantee the confidentiality of the respondents. All respondents with HIV-seropositive results were referred to the nearest health facility for further care and treatment.

For HIV testing using DBS samples, at the time of collection of the blood sample, a unique and random barcoded identification number was assigned to each respondent who consented to testing. Sheets of peel-off labels with unique barcodes were pre-printed for use in the field. Matching barcode labels were affixed to the Biomarker Questionnaire, a fresh filter paper card, and a DBS transmittal sheet.

Approximately every 2 weeks, or more frequently, all DBS samples and transmittal sheets were picked up from teams in the field by central office coordinators and transported to the Liberia National Reference Laboratory (NRL) for processing and registration. Each specimen was then assigned a unique serial laboratory number during the registration process at the lab before being stored in a freezer for preservation. The DBS laboratory testing is scheduled to be conducted at NRL; these results were not available at the time of publication of this report. When testing is completed, results will be published in an annex to this report.

### 1.5 Pretest

Fifteen participants (nine women and six men) took part in training to pretest the LDHS survey questionnaires over a 4-week period from June 17 to July 13, 2019.

The pretest training utilized a blended approach to train participants concurrently on the paper questionnaires and on CAPI, an electronic data capture system programmed on tablet computers that the participants used to implement the survey. LISGIS personnel and staff from The DHS Program led the classroom portion of the training together in standard English and Liberian English from June 17 to July 8. In addition, specialists from the MOH, UNFPA, and UNICEF were invited to make short presentations on programs in Liberia that provide services in the areas of family planning, reproductive health, HIV/AIDS and other STIs, childhood immunization, and domestic violence. Speakers from the CDC were also invited to deliver a lecture on Ebola in Liberia.

Six participants attended the LDHS biomarker training from July 1-8. The training utilized a variety of different learning tools such as formal lectures on the technical aspects of biomarker collection, descriptions of the target population and eligibility, videos to demonstrate the process of anthropometry and blood collection, and hands-on demonstrations. In addition to the above-mentioned training, biomarker technicians participated in an anthropometry standardization exercise, a health clinic visit, and 4 days of field practice. Staff from The DHS Program supported follow-up survey training for nine participants that ran concurrently with the LDHS biomarker technician training.

On July 9, to improve team coordination, all LDHS pretest training participants (supervisors, interviewers, and biomarker technicians for both the standard and follow-up surveys) were divided into three teams that mirrored the team composition proposed for the actual fieldwork and simulated all components of the 2019-20 LDHS data collection in the LISGIS training hall. The team supervisors also simulated the interaction and handoff of survey materials to the follow-up team supervisors.

From July 10-13, interviewers and biomarker technicians conducted practice fieldwork to solidify skills learned during pretest training and to provide a simulated fieldwork experience to test survey materials. The participants worked in the same three teams as in the simulation. The standard LDHS teams were composed of one male or female supervisor, three female interviewers, one male interviewer, and two biomarker technicians. The follow-up survey teams joined the fieldwork practice on days 3 and 4 . The practice occurred in three communities (one urban and two rural) that were not far from the training venue.

Each team visited one community, which served as a practice mini-cluster of 15 households. To complete the fieldwork, each interviewer had to complete at least one household interview per day. While the interviewers recorded responses on tablet computers using CAPI, the Biomarker Questionnaires were first filled out on paper and later entered into the CAPI system by the interviewers. Most interviews were conducted in Liberian English. Over the course of field practice, 40 households and 57 individual women and men were interviewed. At the end of each day, both during and after the pretest fieldwork, debriefing sessions were held and questionnaires were modified based on lessons drawn from the exercise.

### 1.6 Training of Field Staff

Ninety-five people ( 37 men and 58 women) attended the training on the questionnaire content, which consisted of lectures, demonstrations, and practice interviews. Thirty-eight LDHS biomarker technicians ( 11 male and 27 female) attended a parallel training course on conducting biomarker tests. A follow-up survey training course was also held in parallel.

The main fieldwork training, conducted from September 2-28, 2019, was led by eight LISGIS coordinators with assistance from six training assistants selected from the pretest exercise. The training was backstopped by staff from The DHS Program. The interviewer training was conducted in standard English, with portions in Liberian English, and sessions discussed concepts, procedures, and methodologies related to conducting the survey. As in the pretest training, the main fieldwork training utilized a blended approach to train participants on the paper questionnaires and CAPI concurrently. Again, senior subject specialists from the MOH, UNFPA, and UNICEF were invited to make short presentations on programs in Liberia that provide services in the areas of family planning and reproductive health, HIV/AIDS and other STIs, childhood immunization, and domestic violence, and representatives from the CDC delivered a lecture on Ebola in Liberia.

The training included presentations, lectures, hands-on exercises, mock interviews, roleplays, group work, and quizzes. In-class exercises included probing for age, checking age consistencies, copying information from vaccination cards, completing the reproductive calendar, and practicing interviews. All participants also received training on how to test household salt for iodine. Data processing staff from The DHS Program and information technology (IT) personnel from LISGIS led all sessions on CAPI. Participants learned about features of the data collection system, different scenarios and technical issues typically encountered during fieldwork, and ways to resolve issues.

The biomarker portion of the main fieldwork training ran from September 9-28. This training was led by staff from The DHS Program with assistance from LISGIS coordinators and training assistants. Staff members from the Liberia National AIDS Control Program supported the HIV portion of the training. Biomarker training included classroom instruction that focused on anthropometry measurements, anemia and HIV testing, appropriate procedures for obtaining informed consent, recording of biomarker information in the Biomarker Questionnaire, reporting test results back to respondents with referrals as needed, and pre- and post-test counseling for HIV. The facilitators used learning tools similar to those used during the pretest, including two anthropometry standardization exercises, a health clinic visit, and 4 days of field practice.

The training of follow-up survey staff was held in concurrence with the biomarker training and was led by the CDC and WHO, with occasional assistance from The DHS Program.

On the last 2 days of the classroom portion of the training, supervisors, interviewers, and biomarker technicians were divided into 19 fieldwork teams. The teams then simulated all components of the 2019-20 LDHS data collection on September 20 and 21. The team supervisors also simulated the handoff of materials to the follow-up team supervisors.

A joint classroom session of the biomarker technicians with the interviewers was also organized. All participants were given an overview of biomarker collection in the 2019-20 LDHS. This described eligibility for biomarker collection, use of the Household and Biomarker Questionnaires to record data, appropriate procedures for obtaining informed consent, supply packing and transportation logistics, and how to facilitate intra-team coordination and cooperation.

A 1-day training session for supervisors was held to cover topics including preparation for the practice fieldwork, team and workflow management, monitoring of data collection and biomarker procedures, and conducting quality control checks on the survey questionnaires. The CDC presented background on the followup team objectives and work and provided guidance on how the two teams should communicate and cooperate.

Throughout the training, participants were evaluated through in-class exercises, quizzes, and observations made during field practice. At the end of the training, teams were formed by selecting supervisors, interviewers, and biomarker technicians.

From September 24-28, interviewers and biomarker technicians conducted practice fieldwork to solidify skills learned during the training and to provide a simulated fieldwork experience to test survey materials. The practice occurred in five communities in Margibi County, two of which were urban and three of which were rural. The five communities were divided into 19 mini-clusters of 10 households each. Each team was assigned a mini-cluster. To complete the fieldwork, each interviewer had to complete at least one household per day. All of the interviewers/supervisors had the opportunity to practice household and individual interviews, while the biomarker technicians practiced testing and measuring eligible household members. On average, each interviewer interviewed 2.5 households, female interviewers completed 4.4 interviews with women, and male interviewers completed 6.5 interviews with men. Feedback was provided during the exercise and debriefs. All teams successfully closed their clusters and sent the data to the central office.

The follow-up teams also visited the same five communities after practicing the survey questionnaire handoff. As part of the practice fieldwork, the follow-up teams administered consent for collection of venous blood from consenting eligible respondents.

On September 28, the teams came together for a final debriefing session to provide feedback about the questionnaires, the CAPI system, interviewer/biomarker technician interchanges, language issues, field procedures, and any other issues encountered during the field exercise. The DHS Program and LISGIS addressed all issues and remaining questions before fieldwork launched.

### 1.7 FieLDWORK

Data collection, which ran from October 16, 2019, to February 12, 2020, was carried out by 17 teams, with each team consisting of six members typically featuring the following composition: one supervisor, three female interviewers, one male interviewer, and two biomarker technicians.

All 17 teams were scheduled to deploy to the field on October 2; after an unanticipated delay, fieldwork began on October 16. The nine follow-up survey teams began fieldwork 2 weeks later. To ensure that all aspects of the survey were still well understood among fieldworkers, a series of refresher training sessions were held on October 7, 13, and 14.

Fieldwork monitoring was an integral part of the LDHS. Coordinators from LISGIS, monitoring assistants (previously training assistants) hired by LISGIS, and USAID Liberia senior staff visited teams regularly to review their work and monitor data quality. LISGIS organized coordinators and two biomarker monitoring assistants to visit teams, resolve any issues that arose in teams accessing clusters, monitor data and biomarker collection and quality, distribute supplies, and collect DBS cards from teams and drop them off at the NRL. Fieldwork monitoring assistants, on the other hand, moved from team to team in the field and closely monitored data collection and data quality, as well as supporting technological and technical aspects of fieldwork. LISGIS IT staff were deployed to teams on an as-needed basis to resolve complex CAPI-related issues, and two biomarker monitors observed biomarker collection over the course of the fieldwork. The DHS Program resident advisor monitored data collection and biomarker collection for the first half of data collection.

Two additional fieldwork monitoring visits by staff from The DHS Program were made from December 11-21 and January 16-31. During field visits, monitors provided the teams they visited with critical feedback to improve their performance. All monitors used the LDHS field-check tables as well as data quality and fieldwork status reports, based on data from completed clusters, to illustrate problems specific to each team visited.

### 1.8 Data Processing

Data processing for the 2019-20 LDHS began a few days after fieldwork started. As data collection was completed for each cluster, team supervisors transferred all electronic data files to the LISGIS central office in Monrovia via the Internet File Streaming System (IFSS), where they were stored on a password-protected computer. IFSS automatically encrypts the data and sends the data to a server, which in turn downloads the data to the data processing supervisor's password-protected computer in the central office. These data files were registered and checked for inconsistencies, incompleteness, and outliers. Field supervisors were alerted of and resolved any errors any issues found.

The LISGIS data processing operation also included secondary editing, which required resolution of computeridentified inconsistencies and coding of open-ended questions. The data were processed by the LISGIS data processing manager and two secondary editors who took part in the pretest and main fieldwork training; they were supervised remotely by staff from The DHS Program. Data editing was accomplished using Censuses and Survey Processing (CSPro) software.

Biomarker paper questionnaires were compared with electronic data files to check for any inconsistencies in data entry. Daily generation of check reports in addition to weekly generation of field-check tables allowed for effective monitoring. Specific feedback was given to the teams to improve their performance. Secondary editing and data processing were initiated in October 2019 and completed in March 2020.

### 1.9 Response Rates

Table 1.1 shows response rates for the 2019-20 LDHS. All 9,745 households in the selected housing units were eligible for the survey, and 9,207 of these households were occupied. Of the occupied households, 9,068 were successfully interviewed, yielding a response rate of $99 \%$. Of the successful household interviews, 5,192 were completed in 2019 and 3,876 in 2020.

In the interviewed households, 8,364 women age $15-49$ were identified for individual interviews; 8,065 women were interviewed, yielding a response rate of $96 \%$. A total of 4,527 men were eligible for individual interviews; 4,249 of these men were interviewed, producing a response rate of $94 \%$.

| Table 1.1 Results of the household and individual interviews |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of households, number of interviews, and response rates, according to residence (unweighted), Liberia DHS 201920 |  |  |  |  |  |
|  | Residence |  |  |  | Total |
| Result | Total Urban | Greater Monrovia | Other Urban | Rural |  |
| Household interviews |  |  |  |  |  |
| Households selected | 3,605 | 991 | 2,614 | 6,140 | 9,745 |
| Households occupied | 3,401 | 929 | 2,472 | 5,806 | 9,207 |
| Households interviewed | 3,321 | 887 | 2,434 | 5,747 | 9,068 |
| Household response rate ${ }^{1}$ | 97.6 | 95.5 | 98.5 | 99.0 | 98.5 |
| Interviews with women age 15-49 |  |  |  |  |  |
| Number of eligible women | 3,463 | 970 | 2,493 | 4,901 | 8,364 |
| Number of eligible women interviewed | 3,338 | 917 | 2,421 | 4,727 | 8,065 |
| Eligible women response rate ${ }^{2}$ | 96.4 | 94.5 | 97.1 | 96.4 | 96.4 |
| Household interviews in subsample |  |  |  |  |  |
| Households selected | 1,803 | 495 | 1,308 | 3,072 | 4,875 |
| Households occupied | 1,692 | 461 | 1,231 | 2,901 | 4,593 |
| Households interviewed | 1,650 | 436 | 1,214 | 2,868 | 4,518 |
| Household response rate in subsample ${ }^{1}$ | 97.5 | 94.6 | 98.6 | 98.9 | 98.4 |
| Interviews with men age 15-59 |  |  |  |  |  |
| Number of eligible men | 1,683 | 478 | 1,205 | 2,844 | 4,527 |
| Number of eligible men interviewed | 1,563 | 415 | 1,148 | 2,686 | 4,249 |
| Eligible men response rate ${ }^{2}$ | 92.9 | 86.8 | 95.3 | 94.4 | 93.9 |
| ${ }^{1}$ Households interviewed/households occupied <br> ${ }^{2}$ Respondents interviewed/eligible respondents |  |  |  |  |  |

## Key Findings

- Drinking water: $84 \%$ of households have access to an improved source of drinking water.
- Sanitation: 47\% of households in Liberia use improved toilet facilities.
- Electricity: 24\% of households have access to electricity (39\% of urban households and 4\% of rural households).
- Birth registration: $66 \%$ of children under age 5 have their births registered with the civil authorities.
- Education: $41 \%$ of females and $30 \%$ of males age 6 and older have no formal education.

Information on the socioeconomic characteristics of the household population in the 2019-20 LDHS provides a context to interpret demographic and health indicators and can furnish an approximate indication of the representativeness of the survey. In addition, this information sheds light on the living conditions of the population.

This chapter presents information on sources of drinking water, sanitation, exposure to smoke inside the home, wealth, handwashing, household population and composition, educational attainment, school attendance, birth registration, and family living arrangements.

### 2.1 Drinking Water Sources and Treatment

## Improved sources of drinking water

Include piped water, public taps, standpipes, tube wells, boreholes, hand pumps, protected dug wells and springs, rainwater, water delivered via a tanker truck or a cart with a small tank, and bottled water.
Sample: Households
Universal access to clean water and sanitation is one of the 17 global goals that make up the 2030 Agenda for Sustainable Development. To achieve progress towards this goal, an integrated approach across various sectors is crucial.

Table 2.1.1 includes a number of indicators regarding household and population access to improved drinking water. In Liberia, $84 \%$ of households have access to an improved water source ( $95 \%$ in urban areas and $69 \%$ in rural areas). The most common sources of drinking water in urban households are hand pumps, tube wells, or boreholes ( $48 \%$ ); bottled water or mineral water in sachets ( $30 \%$ ); and protected dug well (6\%). Rural households obtain their drinking water mainly from hand pumps, tube wells, or boreholes ( $63 \%$ ) and protected dug wells (2\%). Figure 2.1 shows that $31 \%$ of rural households obtain their

Figure 2.1 Household drinking water by residence
 drinking water from an unimproved source, as compared with $5 \%$ of urban households. Across counties, access to an improved source of drinking water is lowest in River Cess (52\%) and highest in Grand Gedeh and Montserrado ( $96 \%$ each). The percentage of households with an unimproved source of drinking water decreases with increasing wealth (Table 2.1.2).

Trends: The percentage of households with an improved source of drinking water has increased over time, from $68 \%$ in 2007 to $84 \%$ in 2019-20.

## Basic drinking water service

Drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less.
Sample: De jure population

## Limited drinking water service

Drinking water from an improved source, and round-trip collection time is more than 30 minutes.
Sample: De jure population

In Liberia, $74 \%$ of the de jure population has basic drinking water service, and $10 \%$ has limited drinking service (Table 2.1.1). Access to basic drinking water service ranges from $50 \%$ in River Cess to $91 \%$ in Grand Gedeh and increases with increasing wealth (Table 2.1.2).

Most Liberian households (73\%) do not treat their water prior to drinking. A quarter of households (25\%) use an appropriate treatment method ( $28 \%$ in urban areas and $21 \%$ in rural areas). Appropriate treatment methods include boiling, bleaching, PUR ${ }^{\mathrm{TM}}$, WaterGuard ${ }^{\mathrm{TM}}$, filtering, and solar disinfecting (Table 2.1.3).

Table 2.2 presents information on the percentage of households using piped water or water from a tube well or borehole that reported availability of water in the last 2 weeks. Seventy-six percent of households in Liberia reported having water with no interruption of at least 1 day in the 2 weeks before the survey. Eighty-one percent of rural households had availability with no interruption of at least 1 day, as compared with $72 \%$ of
urban households. Urban households were more likely than rural households to report not having water available for at least 1 day ( $27 \%$ and $18 \%$, respectively).

### 2.2 SANITATION

## Improved toilet facility

Includes 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; or composting toilets.
Sample: Households

Forty-seven percent of households in Liberia use improved toilet facilities ( $66 \%$ in urban areas and $21 \%$ in rural areas) (Figure 2.2). Flush or pour flush toilets that flush to a septic tank are the most common type of improved sanitation facility (Table 2.3.1). About 2 in 10 households ( $17 \%$ ) use unimproved toilet facilities. Overall, $63 \%$ of rural households have no toilet facility, as compared with $16 \%$ of urban households.

Trends: The percentage of households with access to improved sanitation increased from $28 \%$ in 2007 to $47 \%$ in 2019-20.

Figure 2.2 Household toilet facilities by residence

Percent distribution of households by type of toilet facilities


Basic sanitation service
Use of improved facilities that are not shared with other households.
Sample: De jure population

## Limited sanitation service

Use of improved facilities shared by two or more households.
Sample: De jure population

Seventy-two percent of households in Liberia have their toilet facility in their own dwelling, yard, or plot. One in five ( $20 \%$ ) households have basic sanitation service ( $29 \%$ of urban households and $8 \%$ of rural households), while $27 \%$ have limited sanitation (Table 2.3.1). The percentage of the population with basic and limited sanitation service is highest in Montserrado ( $38 \%$ and $33 \%$, respectively) and lowest in Grand Kru ( $3 \%$ and 6\%, respectively) (Table 2.3.2). Access to basic sanitation service rises with increasing wealth.

### 2.3 Exposure to Smoke inside the Home

Exposure to smoke inside the home, from either cooking with solid fuels or smoking tobacco, has potentially harmful health effects. In Liberia, $16 \%$ of households cook inside the home and $96 \%$ use solid fuel for cooking, with wood and fire coal/charcoal being predominant ( $49 \%$ and $47 \%$, respectively). Only $1 \%$ of households use clean fuel for cooking. In $7 \%$ of households, someone smokes inside the house daily (Table 2.4).

## Other Housing Characteristics

The 2019-20 LDHS also collected data on access to electricity, flooring materials, and the number of rooms used for sleeping. Twenty-four percent of households in Liberia have access to electricity ( $39 \%$ of urban households and $4 \%$ of rural households). The flooring materials most commonly used are concrete or cement ( $49 \%$ ) and earth, sand, or mud ( $41 \%$ ). Flooring materials vary widely by residence, with $70 \%$ of rural households using earth, sand, or mud and $66 \%$ of urban households using concrete or cement (Table 2.4).

### 2.4 Household Wealth

### 2.4.1 Household Durable Goods

Possession of durable consumer goods is an indicator of a household's wealth. The survey collected information on household effects, ownership of means of transport, and ownership of agricultural land and farm animals (Table 2.5). Urban households generally are more likely to own various household effects; for example, $84 \%$ of urban households own a mobile phone, as compared with $50 \%$ of rural households. Rural households are more likely to own agricultural land (45\%) and farm animals (53\%) than urban households ( $20 \%$ and $24 \%$, respectively).

### 2.4.2 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 presents wealth quintiles according to urbanrural residence and region. The table also includes the Gini coefficient, a measure of disparity in wealth. The Gini coefficient ranges from $0-1$, with 0 implying an equal distribution of wealth and 1 implying an unequal distribution.

About two-thirds of the de jure population (65\%) in urban areas are in the highest wealth quintile, in sharp contrast to $2 \%$ in rural areas. Seventy-five percent of households in rural areas are in the lowest or second lowest wealth quintile ( $39 \%$ and $36 \%$, respectively) (Figure 2.3).

Among the counties, Montserrado has the highest

Figure 2.3 Household wealth by residence

Percent distribution of de jure population by wealth quintiles
 percentage of households in the highest wealth quintile ( $49 \%$ ), while Gbarpolu, Grand Kru, and Lofa have the lowest ( $2 \%$ each).

### 2.5 Handwashing

Interviewers asked to see the place used for handwashing in each household. Overall, interviewers observed such a place for $20 \%$ of the de jure population. Among the de jure population for whom the place for handwashing was observed, $29 \%$ had water available and $23 \%$ had soap (Table 2.7).

### 2.6 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.

Household composition and population data provide information on the socioeconomic characteristics of the households and respondents surveyed in terms of age, sex, and place of residence.

A total of 40,202 individuals stayed overnight in the 9,068 interviewed households; 19,618 of these individuals were male and 20,584 were female. Forty-five percent of household 75-79 members are age $0-14$ and $51 \%$ are age 15-64; only $4 \%$ of household members are age 65 and above (Table 2.8).

The population pyramid in Figure 2.4
shows the de facto household population by 5-year age groups and sex. The broad base of the pyramid shows that a large proportion of Liberia's population is relatively young.

Table 2.9 shows that women head about one in every three households (34\%). The average household size is 4.6 persons. Thirty-six percent of Liberian households are caring for foster and/or orphaned children.

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

## Orphan

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

Twenty-seven percent of children under age 18 do not live with a biological parent, while $9 \%$ are orphans (i.e., one or both parents are dead).

Among children less than age $2,5 \%$ were not living with their parents at the time of the interview, and $2 \%$ had lost one or both parents. The percentage of children who are orphans rises with age, from $4 \%$ among those age $2-4$ to $17 \%$ among those age 15-17. By county, the percentage of children who are orphans is highest in Bomi (14\%) and lowest in Sinoe (4\%) (Table 2.10).

Trends: The percentage of children under age 18 living with both parents has decreased over time, from $47 \%$ in 2007 to $41 \%$ in 2019-20.

### 2.8 Birth Registration

Birth registration, the documentation of the facts of each birth into an official logbook kept at the registrar's office, is fundamental to providing children with a legal identity. Not only does it help to uphold their access to fundamental rights, including education and health care, but it also protects them from abuse, such as child marriage or child labor.

## Registered birth

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

Table 2.11 presents information on birth registration of children under age 5. Sixty-six percent of children under age 5 have their births registered with the civil authorities. About one in three ( $30 \%$ ) of these children have birth certificates. Children in urban areas are more likely than rural children to have their births registered (69\% versus 63\%).

Figure 2.5 shows large variations by county in the percentage of children whose births are registered with the civil authorities. Lofa (85\%) has the highest percentage of registered births, while River Gee (33\%) has the lowest.

Trends: The proportion of de jure children whose births are registered has increased substantially from $4 \%$ in 2007 to $66 \%$ in 201920.

### 2.9 Education

2.9.1 Educational Attainment

Figure 2.5 Birth registration by county
Percentage of de jure children under age 5 whose births are registered with the civil authorities


## 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

Many Liberians have either no formal education or only some elementary education (Tables 2.12.1 and 2.12.2). Forty-one percent of females and $30 \%$ of males age 6 and older have never had any formal education. Twenty-nine percent of females and $27 \%$ of males have not completed elementary schooling. Three percent of females and males have completed elementary school. Only $5 \%$ of women and $8 \%$ of men have completed senior high school. Women have completed a median of 1 year of school, while men have completed a median of 3.5 years.

Trends: The percentage of males age 6 and older with no education declined from $39 \%$ in 2007 to $30 \%$ in 2019-20. Among females, the percentage decreased from $56 \%$ to $41 \%$.

## Patterns by background characteristics

- Urban residents are more educated than rural residents. Thirty-one percent of females age 6 and older in urban areas have no education, as compared with $57 \%$ in rural areas. Among males, the corresponding percentages are $21 \%$ and $41 \%$ (Tables 2.12.1 and 2.12.2).
- The median number of years of education is highest in Montserrado (4.6 years among women and 6.4 among men).
- Twelve percent of women in the highest wealth quintile have attained a higher education, while $18 \%$ have no education. On the contrary, $65 \%$ of women in the lowest quintile have no education and less than $1 \%$ have attained a higher education.


### 2.9.2 School Attendance

## Net attendance ratio (NAR)

Percentage of the school-age population that attends primary or secondary school.
Sample: Children age 6-11 for primary school NAR and children age 12-17 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 6-11 for primary school GAR and children age 12-17 for secondary school GAR

In Liberia, the primary school net attendance ratio (NAR) for the population age 6-11 is $43 \%$ ( $41 \%$ for girls and $45 \%$ for boys). The high school NAR drops to $26 \%$ ( $25 \%$ for boys and $26 \%$ for girls) (Table 2.13).

The gross attendance ratio (GAR) is also presented in Table 2.13. A GAR value of more than $100 \%$ means that a significant number of students fall outside the official age range for that level of education. Overall, in Liberia, the GAR is $91 \%$ at the primary level, and there is no difference based on gender ( $91 \%$ for both boys and girls). The GAR drops to $52 \%$ at the secondary level; however, there is still little difference between boys and girls ( $52 \%$ and $51 \%$, respectively).

## 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

A GPI of 1 indicates parity or equality between male and female school participation ratios. A GPI of less than 1 indicates a higher proportion of males than females attending the specified level of schooling, while a GPI greater than 1 indicates that more females attend the specific level of schooling. In Liberia, the GPI based on the GAR is 0.99 at both the primary school and secondary school levels.

Patterns by background characteristics

- By county, the primary school net attendance ratio (NAR) ranges from $26 \%$ in River Cess to $57 \%$ in Montserrado.
- The variation in secondary school NARs by residence is large, with a difference of 22 percentage points between urban (34\%) and rural ( $12 \%$ ) areas.
- Forty-five percent of girls in the highest wealth quintile attend secondary school, as compared with $6 \%$ of those in the lowest wealth quintile. Boys follow a similar pattern, with $49 \%$ in the highest quintile and $5 \%$ in the lowest quintile attending secondary school (Figure 2.6).


## List of Tables

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

- Table 2.1.1 Household drinking water
- Table 2.1.2 Drinking water according to region and wealth
- Table 2.1.3 Treatment of household drinking water
- Table 2.2 Availability of water
- Table 2.3.1 Household sanitation facilities
- Table 2.3.2 Sanitation facility type according to region and wealth
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- Table 2.13 School attendance ratios

Figure 2.6 Secondary school attendance by household wealth

Net attendance ratio for secondary school among children age 12-17

$$
■ \text { Girls ■Boys }
$$

## Table 2.1.1 Household drinking water

Percent distribution of households and de jure population by source of drinking water and by time to obtain drinking water, percentage of households and de jure population with basic drinking water service, and percentage with limited drinking water service, according to residence, Liberia DHS 2019-20

| Characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Source of drinking water |  |  |  |  |  |  |
| Improved source | 95.3 | 68.9 | 84.0 | 95.0 | 70.7 | 84.6 |
| Piped into dwelling/yard/plot | 0.9 | 0.3 | 0.7 | 1.4 | 0.4 | 1.0 |
| Piped to neighbor | 4.2 | 0.3 | 2.5 | 3.7 | 0.3 | 2.2 |
| Public tap/standpipe | 5.0 | 0.9 | 3.3 | 4.9 | 0.9 | 3.2 |
| Tube well/borehole/hand pump | 48.4 | 62.5 | 54.4 | 53.4 | 64.6 | 58.1 |
| Protected dug well | 6.0 | 2.4 | 4.5 | 6.5 | 2.3 | 4.7 |
| Protected spring | 0.5 | 1.3 | 0.8 | 0.6 | 1.3 | 0.9 |
| Rainwater | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 |
| Tanker truck/cart with small tank | 0.7 | 0.1 | 0.4 | 0.7 | 0.1 | 0.4 |
| Bottled water/mineral water in sachet | 29.5 | 0.8 | 17.2 | 23.8 | 0.6 | 13.9 |
| Unimproved source | 4.7 | 31.1 | 16.0 | 5.0 | 29.3 | 15.4 |
| Unprotected dug well | 3.0 | 7.7 | 5.0 | 3.2 | 7.1 | 4.8 |
| Unprotected spring | 1.0 | 6.1 | 3.2 | 1.3 | 6.5 | 3.5 |
| Surface water | 0.7 | 17.3 | 7.8 | 0.5 | 15.8 | 7.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Time to obtain drinking water (round trip) |  |  |  |  |  |  |
| Water on premises ${ }^{1}$ | 28.0 | 7.6 | 19.3 | 26.7 | 7.6 | 18.6 |
| 30 minutes or less | 60.2 | 82.4 | 69.7 | 60.1 | 81.6 | 69.2 |
| More than 30 minutes | 10.3 | 8.7 | 9.6 | 11.4 | 9.6 | 10.6 |
| Don't know | 1.4 | 1.3 | 1.4 | 1.8 | 1.1 | 1.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage with basic drinking water service ${ }^{2}$ | 84.3 | 61.8 | 74.7 | 82.7 | 63.0 | 74.3 |
| Percentage with limited drinking water service ${ }^{3}$ | 11.0 | 7.1 | 9.3 | 12.3 | 7.7 | 10.3 |
| Number of households/population | 5,195 | 3,873 | 9,068 | 23,855 | 17,651 | 41,506 |

${ }^{1}$ Includes water piped to a neighbor and those reporting a round-trip collection time of zero minutes
${ }^{2}$ 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.
${ }^{3}$ Drinking water from an improved source, and round-trip collection time is more than 30 minutes or is unknown

Table 2.1.2 Drinking water according to region and wealth
Percent distribution of de jure population by drinking water source, percentage of de jure population with basic drinking water service, and percentage with limited drinking water service, according to region, county, and wealth quintile, Liberia DHS 2019-20

| Background characteristic | Improved source of drinking water | Unimproved source of drinking water ${ }^{2}$ | Total | Percentage with basic drinking water service ${ }^{3}$ | Percentage with limited drinking water service ${ }^{4}$ | Number of persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region |  |  |  |  |  |  |
| North Western | 82.6 | 17.4 | 100.0 | 73.1 | 9.5 | 3,496 |
| South Central | 89.7 | 10.3 | 100.0 | 78.1 | 11.6 | 18,776 |
| South Eastern A | 73.1 | 26.9 | 100.0 | 69.9 | 3.2 | 2,597 |
| South Eastern B | 83.1 | 16.9 | 100.0 | 70.9 | 12.2 | 2,420 |
| North Central | 80.8 | 19.2 | 100.0 | 71.0 | 9.8 | 14,217 |
| County |  |  |  |  |  |  |
| Bomi | 92.1 | 7.9 | 100.0 | 85.1 | 7.0 | 1,344 |
| Bong | 78.1 | 21.9 | 100.0 | 62.8 | 15.3 | 4,061 |
| Gbarpolu | 64.9 | 35.1 | 100.0 | 56.8 | 8.1 | 677 |
| Grand Bassa | 56.0 | 44.0 | 100.0 | 54.1 | 1.9 | 2,356 |
| Grand Cape Mount | 82.0 | 18.0 | 100.0 | 69.6 | 12.4 | 1,474 |
| Grand Gedeh | 96.0 | 4.0 | 100.0 | 90.9 | 5.1 | 923 |
| Grand Kru | 66.7 | 33.3 | 100.0 | 54.7 | 12.0 | 755 |
| Lofa | 79.0 | 21.0 | 100.0 | 70.2 | 8.8 | 3,538 |
| Margibi | 86.4 | 13.6 | 100.0 | 76.6 | 9.8 | 2,301 |
| Maryland | 90.5 | 9.5 | 100.0 | 78.0 | 12.5 | 1,160 |
| Montserrado | 95.9 | 4.1 | 100.0 | 82.3 | 13.6 | 14,119 |
| Nimba | 83.4 | 16.6 | 100.0 | 76.5 | 6.9 | 6,617 |
| River Cess | 52.1 | 47.9 | 100.0 | 50.3 | 1.7 | 648 |
| River Gee | 90.8 | 9.2 | 100.0 | 79.0 | 11.7 | 504 |
| Sinoe | 65.8 | 34.2 | 100.0 | 63.2 | 2.5 | 1,026 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 54.1 | 45.9 | 100.0 | 48.6 | 5.5 | 8,285 |
| Second | 82.5 | 17.5 | 100.0 | 75.0 | 7.5 | 8,305 |
| Middle | 91.5 | 8.5 | 100.0 | 79.9 | 11.7 | 8,307 |
| Fourth | 96.9 | 3.1 | 100.0 | 80.7 | 16.3 | 8,298 |
| Highest | 98.0 | 2.0 | 100.0 | 87.2 | 10.8 | 8,311 |
| Total | 84.6 | 15.4 | 100.0 | 74.3 | 10.3 | 41,506 |

${ }^{1}$ See Table 2.1.1 for definition of an improved source.
${ }^{2}$ See Table 2.1.1 for definition of an unimproved source.
${ }^{3}$ 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.
${ }^{4}$ Drinking water from an improved source, and round-trip collection time is more than 30 minutes or is unknown

## Table 2.1.3 Treatment of household drinking water

Percentage of households and de jure population using various methods to treat drinking water, and percentage using an appropriate treatment method, according to residence, Liberia DHS 2019-20

| Water treatment method | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Boil | 0.5 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 |
| Bleach/chlorine added | 22.3 | 15.4 | 19.3 | 22.6 | 15.2 | 19.5 |
| PUR ${ }^{\text {TM }}$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WaterGuard ${ }^{\text {TM }}$ | 6.1 | 2.9 | 4.8 | 6.9 | 2.9 | 5.2 |
| Strain through a cloth | 0.1 | 0.3 | 0.2 | 0.1 | 0.3 | 0.2 |
| Ceramic, sand, or other filter | 1.0 | 3.0 | 1.9 | 1.3 | 3.0 | 2.0 |
| Solar disinfection | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| Let stand and settle | 0.9 | 2.2 | 1.5 | 1.0 | 2.1 | 1.5 |
| Other | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 |
| No treatment | 70.4 | 76.4 | 72.9 | 69.3 | 76.5 | 72.4 |
| Don't know | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 |
| Percentage using an appropriate treatment method ${ }^{1}$ | 28.0 | 20.8 | 24.9 | 29.0 | 20.7 | 25.4 |
| Number of households/population | 5,195 | 3,873 | 9,068 | 23,855 | 17,651 | 41,506 |

Note: Respondents may report multiple treatment methods, so the sum of treatment may exceed $100 \%$.
${ }^{1}$ Appropriate water treatment methods are boiling, bleaching, PUR ${ }^{\text {TM }}$, WaterGuard ${ }^{\text {TM }}$, filtering, and solar disinfecting.

## Table 2.2 Availability of water

Percent distribution of households and de jure population using piped water or water from a tube well or borehole by availability of water in the last 2 weeks, according to residence, Liberia DHS 2019-20

| Availability of water in last 2 weeks | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Not available for at least 1 day | 27.3 | 18.3 | 23.7 | 25.3 | 19.4 | 22.9 |
| Available with no interruption of at least 1 day | 72.1 | 81.3 | 75.9 | 74.2 | 80.3 | 76.6 |
| Don't know | 0.6 | 0.3 | 0.5 | 0.6 | 0.3 | 0.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population using piped water or water from a tube well ${ }^{1}$ | 3,617 | 2,491 | 6,108 | 17,309 | 11,725 | 29,035 |

${ }^{1}$ Includes households/population reporting piped water or water from a tube well or borehole as their main source of drinking water and households/population reporting bottled water or mineral water from sachets as their main source of drinking water if their main source of water for cooking and handwashing is piped water or water from a tube well or borehole

## Table 2.3.1 Household sanitation facilities

Percent distribution of households and de jure population by type of toilet/latrine facilities, percent distribution of households and de jure population with a toilet/latrine facility by location of the facility, percentage of households and de jure population with basic sanitation service, and percentage with limited sanitation service, according to residence, Liberia DHS 2019-20

| Type and location of toilet/latrine facility | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Improved sanitation facility | 65.5 | 21.1 | 46.5 | 66.6 | 22.0 | 47.6 |
| Flush/pour flush to piped sewer system | 1.7 | 0.2 | 1.1 | 1.4 | 0.2 | 0.9 |
| Flush/pour flush to septic tank | 43.0 | 5.7 | 27.1 | 43.5 | 6.3 | 27.7 |
| Flush/pour flush to pit latrine | 9.5 | 4.1 | 7.2 | 10.3 | 4.6 | 7.9 |
| Flush/pour flush, don't know where | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 |
| Ventilated improved pit (VIP) latrine | 3.0 | 1.6 | 2.4 | 2.9 | 1.5 | 2.3 |
| Pit latrine with slab | 7.8 | 8.7 | 8.2 | 8.1 | 8.6 | 8.3 |
| Composting toilet | 0.3 | 0.7 | 0.4 | 0.3 | 0.6 | 0.4 |
| Unimproved sanitation facility | 18.8 | 15.5 | 17.4 | 17.8 | 17.4 | 17.6 |
| Flush/pour flush not to sewer/septic tank/pit latrine | 1.7 | 0.6 | 1.2 | 1.5 | 0.6 | 1.1 |
| Pit latrine without slab/open pit | 9.3 | 12.9 | 10.9 | 9.4 | 14.3 | 11.5 |
| Bucket | 0.6 | 0.1 | 0.4 | 0.6 | 0.2 | 0.4 |
| Hanging toilet/hanging latrine | 7.0 | 1.8 | 4.8 | 6.0 | 2.1 | 4.3 |
| Other | 0.3 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 |
| Open defecation (no facility/bush/field) | 15.7 | 63.4 | 36.1 | 15.7 | 60.7 | 34.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population | 5,195 | 3,873 | 9,068 | 23,855 | 17,651 | 41,506 |
| Location of toilet facility |  |  |  |  |  |  |
| In own dwelling | 34.4 | 9.9 | 28.5 | 36.6 | 9.4 | 29.7 |
| In own yard/plot | 42.7 | 46.6 | 43.7 | 42.6 | 49.8 | 44.5 |
| Elsewhere | 22.8 | 43.4 | 27.9 | 20.7 | 40.7 | 25.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/population with a toilet/latrine facility | 4,380 | 1,418 | 5,797 | 20,121 | 6,939 | 27,061 |
| Percentage with basic sanitation service ${ }^{1}$ | 28.9 | 7.5 | 19.8 | 35.0 | 8.7 | 23.8 |
| Percentage with limited sanitation service ${ }^{2}$ | 36.6 | 13.5 | 26.7 | 31.6 | 13.3 | 23.8 |
| Number of households/population | 5,195 | 3,873 | 9,068 | 23,855 | 17,651 | 41,506 |

[^1]Table 2.3.2 Sanitation facility type according to region and wealth
Percent distribution of de jure population by type of sanitation, percentage of de jure population with basic sanitation service, and percentage with limited sanitation service, according to region, county, and wealth quintile, Liberia DHS 2019-20

| Background characteristic | Type of sanitation |  |  | Total | Percentage with basic sanitation service ${ }^{3}$ | Percentage with limited sanitation service ${ }^{4}$ | Number of persons |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Improved sanitation facility ${ }^{1}$ | Unimproved sanitation facility ${ }^{2}$ | Open defecation |  |  |  |  |
| Region |  |  |  |  |  |  |  |
| North Western | 26.7 | 11.5 | 61.8 | 100.0 | 9.3 | 17.4 | 3,496 |
| South Central | 64.7 | 14.3 | 21.0 | 100.0 | 35.2 | 29.5 | 18,776 |
| South Eastern A | 31.0 | 18.1 | 50.9 | 100.0 | 15.9 | 15.1 | 2,597 |
| South Eastern B | 26.3 | 40.7 | 33.0 | 100.0 | 9.8 | 16.6 | 2,420 |
| North Central | 36.8 | 19.4 | 43.8 | 100.0 | 16.1 | 20.6 | 14,217 |
| County |  |  |  |  |  |  |  |
| Bomi | 23.9 | 12.0 | 64.1 | 100.0 | 12.0 | 11.9 | 1,344 |
| Bong | 36.9 | 13.6 | 49.5 | 100.0 | 19.0 | 17.9 | 4,061 |
| Gbarpolu | 19.4 | 10.4 | 70.2 | 100.0 | 6.0 | 13.4 | 677 |
| Grand Bassa | 34.9 | 11.8 | 53.2 | 100.0 | 17.1 | 17.8 | 2,356 |
| Grand Cape Mount | 32.6 | 11.5 | 55.9 | 100.0 | 8.3 | 24.3 | 1,474 |
| Grand Gedeh | 45.7 | 20.6 | 33.7 | 100.0 | 18.9 | 26.8 | 923 |
| Grand Kru | 8.0 | 35.6 | 56.4 | 100.0 | 2.5 | 5.5 | 755 |
| Lofa | 27.2 | 23.5 | 49.3 | 100.0 | 10.3 | 16.9 | 3,538 |
| Margibi | 52.6 | 12.4 | 35.0 | 100.0 | 34.9 | 17.7 | 2,301 |
| Maryland | 35.7 | 39.9 | 24.3 | 100.0 | 12.1 | 23.7 | 1,160 |
| Montserrado | 71.7 | 15.0 | 13.3 | 100.0 | 38.3 | 33.4 | 14,119 |
| Nimba | 41.8 | 20.8 | 37.4 | 100.0 | 17.5 | 24.3 | 6,617 |
| River Cess | 22.6 | 21.7 | 55.7 | 100.0 | 13.4 | 9.2 | 648 |
| River Gee | 32.2 | 50.2 | 17.7 | 100.0 | 15.3 | 16.9 | 504 |
| Sinoe | 23.0 | 13.7 | 63.3 | 100.0 | 14.8 | 8.2 | 1,026 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 8.7 | 12.8 | 78.4 | 100.0 | 1.9 | 6.9 | 8,285 |
| Second | 23.8 | 22.1 | 54.1 | 100.0 | 6.5 | 17.3 | 8,305 |
| Middle | 46.3 | 25.3 | 28.4 | 100.0 | 17.5 | 28.8 | 8,307 |
| Fourth | 69.9 | 19.2 | 10.9 | 100.0 | 28.8 | 41.1 | 8,298 |
| Highest | 89.2 | 8.5 | 2.3 | 100.0 | 64.2 | 24.9 | 8,311 |
| Total | 47.6 | 17.6 | 34.8 | 100.0 | 23.8 | 23.8 | 41,506 |

${ }^{1}$ See Table 2.3.1 for definition of an improved facility.
${ }^{2}$ See Table 2.3.1 for definition of an unimproved facility.
${ }^{3}$ Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately.
${ }^{4}$ Defined as use of improved facilities shared by 2 or more households

## Table 2.4 Household characteristics

Percent distribution of households and de jure population by housing characteristics, percentage using solid fuel for cooking, percentage using clean fuel for cooking, and percent distribution by frequency of smoking in the home, according to residence, Liberia DHS 2019-20

| Housing characteristic | Households |  |  | Population |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Electricity |  |  |  |  |  |  |
| Yes | 38.7 | 4.1 | 23.9 | 37.0 | 4.3 | 23.1 |
| No | 61.3 | 95.9 | 76.1 | 63.0 | 95.7 | 76.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Flooring material |  |  |  |  |  |  |
| Earth/sand/mud | 19.1 | 69.7 | 40.7 | 19.8 | 67.2 | 40.0 |
| Dung | 0.8 | 1.6 | 1.1 | 1.0 | 1.8 | 1.3 |
| Wood planks | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 |
| Palm/bamboo | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Parquet or polished wood | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Floormat/linoleum/vinyl | 5.1 | 0.8 | 3.2 | 3.5 | 0.6 | 2.3 |
| Ceramic tiles/terrazzo | 9.3 | 1.2 | 5.9 | 11.1 | 1.3 | 6.9 |
| Concrete/cement | 65.7 | 26.6 | 49.0 | 64.5 | 29.0 | 49.4 |
| Carpet | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Rooms used for sleeping |  |  |  |  |  |  |
| One | 41.6 | 28.9 | 36.2 | 28.6 | 18.7 | 24.4 |
| Two | 19.3 | 28.1 | 23.1 | 21.4 | 28.1 | 24.2 |
| Three or more | 39.1 | 43.0 | 40.8 | 50.1 | 53.2 | 51.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Place for cooking |  |  |  |  |  |  |
| In the house | 23.4 | 7.1 | 16.4 | 23.5 | 6.7 | 16.3 |
| In a separate building | 17.6 | 52.0 | 32.3 | 19.9 | 53.5 | 34.2 |
| On a porch | 33.9 | 11.6 | 24.4 | 33.8 | 10.4 | 23.8 |
| Outdoors | 21.3 | 28.0 | 24.2 | 21.6 | 29.0 | 24.7 |
| No food cooked in household | 3.7 | 1.0 | 2.5 | 1.2 | 0.2 | 0.8 |
| Other | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cooking fuel |  |  |  |  |  |  |
| Electricity | 1.0 | 0.0 | 0.6 | 0.8 | 0.1 | 0.5 |
| Gas cylinder | 0.8 | 0.3 | 0.5 | 0.7 | 0.2 | 0.5 |
| Kerosene stove | 0.4 | 0.0 | 0.3 | 0.4 | 0.0 | 0.2 |
| Fire coal/charcoal | 73.6 | 11.9 | 47.2 | 73.5 | 10.9 | 46.9 |
| Wood | 20.5 | 86.8 | 48.8 | 23.5 | 88.5 | 51.1 |
| Straw/shrubs/grass | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| No food cooked in household | 3.7 | 1.0 | 2.5 | 1.2 | 0.2 | 0.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Percentage using solid fuel for cooking ${ }^{1}$ | 94.1 | 98.7 | 96.1 | 96.9 | 99.5 | 98.0 |
| Percentage using clean fuel for cooking ${ }^{2}$ | 1.8 | 0.3 | 1.2 | 1.5 | 0.3 | 1.0 |
| Frequency of smoking in the home |  |  |  |  |  |  |
| Daily | 4.1 | 10.6 | 6.9 | 4.0 | 9.9 | 6.5 |
| Weekly | 2.3 | 4.3 | 3.2 | 2.1 | 3.9 | 2.9 |
| Monthly | 0.5 | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 |
| Less than once a month | 0.8 | 0.5 | 0.6 | 0.7 | 0.4 | 0.6 |
| Never | 92.3 | 84.2 | 88.9 | 92.8 | 85.4 | 89.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of households/ population | 5,195 | 3,873 | 9,068 | 23,855 | 17,651 | 41,506 |

${ }^{1}$ Includes fire coal/charcoal, wood, and straw/shrubs/grass
${ }^{2}$ Includes electricity and gas cylinder

Table 2.5 Household possessions
Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals, by residence, Liberia DHS 2019-20

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Possession | Urban | Rural | Total |
| Household effects |  |  |  |
| $\quad$ Generator | 9.8 | 4.3 | 7.5 |
| Solar panel | 3.4 | 6.9 | 4.9 |
| Radio | 54.3 | 39.5 | 48.0 |
| Television | 32.5 | 3.3 | 20.0 |
| Mobile phone | 84.4 | 50.0 | 69.7 |
| Non-mobile phone | 1.7 | 0.9 | 1.4 |
| Computer | 10.9 | 0.8 | 6.6 |
| Refrigerator (ice box) | 15.3 | 1.7 | 9.5 |
| Table | 86.0 | 69.6 | 79.0 |
| Chairs | 83.7 | 64.5 | 75.5 |
| Cupboard | 40.4 | 7.8 | 26.5 |
| Mattress | 94.3 | 75.8 | 86.4 |
| Sewing machine | 2.4 | 1.3 | 2.0 |
| Watch | 42.9 | 23.4 | 34.6 |
| Means of transport |  |  |  |
| $\quad$ Bicycle | 4.3 | 1.0 | 2.9 |
| Motorcycle/tricycle | 9.7 | 7.9 | 9.0 |
| Car/truck | 6.9 | 0.5 | 4.1 |
| $\quad$ Boat/canoe | 0.6 | 1.6 | 1.0 |
| Ownership of agricultural |  |  |  |
| $\quad$ land | 19.8 | 44.9 | 30.5 |
| Ownership of farm animals ${ }^{1}$ | 23.7 | 53.2 | 36.3 |
| Number of households | 5,195 | 3,873 | 9,068 |

Cows/bulls, pigs, goats, sheep, or chickens/ducks/guinea fowl

| Table 2.6 Wealth quintiles |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of the de jure population by wealth quintiles, and the Gini coefficient, according to residence, region, and county, Liberia DHS 2019-20 |  |  |  |  |  |  |  |  |
| Residence/ region/county | Wealth quintile |  |  |  |  | Total | Number of persons | Gini coefficient |
|  | Lowest | Second | Middle | Fourth | Highest |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 12.5 | 17.2 | 42.4 | 62.6 | 65.3 | 100.0 | 23,855 | 0.13 |
| Greater Monrovia | 0.0 | 0.4 | 9.9 | 36.3 | 53.4 | 100.0 | 12,483 | 0.10 |
| Other urban | 12.4 | 16.8 | 32.6 | 26.2 | 11.9 | 100.0 | 11,372 | 0.16 |
| Rural | 38.9 | 35.9 | 19.1 | 4.4 | 1.7 | 100.0 | 17,651 | 0.29 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 29.9 | 30.8 | 26.6 | 9.8 | 2.9 | 100.0 | 3,496 | 0.23 |
| South Central | 7.7 | 6.8 | 14.1 | 31.9 | 39.5 | 100.0 | 18,776 | 0.18 |
| South Eastern A | 35.7 | 30.2 | 20.5 | 7.9 | 5.7 | 100.0 | 2,597 | 0.30 |
| South Eastern B | 29.5 | 30.0 | 24.7 | 11.1 | 4.7 | 100.0 | 2,420 | 0.37 |
| North Central | 29.2 | 31.2 | 25.3 | 10.5 | 3.8 | 100.0 | 14,217 | 0.14 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 24.5 | 33.9 | 27.9 | 10.0 | 3.8 | 100.0 | 1,344 | 0.33 |
| Bong | 35.5 | 19.4 | 18.7 | 19.0 | 7.5 | 100.0 | 4,061 | 0.27 |
| Gbarpolu | 47.3 | 35.2 | 12.6 | 3.3 | 1.5 | 100.0 | 677 | 0.35 |
| Grand Bassa | 36.5 | 19.5 | 15.0 | 17.7 | 11.3 | 100.0 | 2,356 | 0.34 |
| Grand Cape Mount | 27.0 | 25.9 | 31.9 | 12.6 | 2.7 | 100.0 | 1,474 | 0.17 |
| Grand Gedeh | 26.8 | 30.0 | 26.3 | 9.2 | 7.7 | 100.0 | 923 | 0.26 |
| Grand Kru | 46.3 | 30.6 | 17.2 | 3.8 | 2.1 | 100.0 | 755 | 0.33 |
| Lofa | 27.9 | 36.2 | 28.3 | 5.6 | 2.0 | 100.0 | 3,538 | 0.13 |
| Margibi | 14.2 | 16.8 | 27.0 | 30.3 | 11.7 | 100.0 | 2,301 | 0.21 |
| Maryland | 20.8 | 29.1 | 27.0 | 17.3 | 5.8 | 100.0 | 1,160 | 0.31 |
| Montserrado | 1.8 | 3.1 | 11.9 | 34.5 | 48.7 | 100.0 | 14,119 | 0.04 |
| Nimba | 26.0 | 35.9 | 27.7 | 7.9 | 2.5 | 100.0 | 6,617 | 0.19 |
| River Cess | 53.7 | 28.6 | 11.1 | 3.9 | 2.7 | 100.0 | 648 | 0.38 |
| River Gee | 24.5 | 30.9 | 30.4 | 8.0 | 6.1 | 100.0 | 504 | 0.33 |
| Sinoe | 32.4 | 31.4 | 21.1 | 9.2 | 5.9 | 100.0 | 1,026 | 0.36 |
| Total | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 100.0 | 41,506 | 0.21 |

Table 2.7 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; 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, Liberia DHS 2019-20

| Background characteristic | Percentage of de jure population for whom place for washing hands was observed: |  |  | Number of persons | Place for handwashing observed and: |  |  | Number of persons for whom place for handwashing was observed | Percentage of the de jure population with a basic handwashing facility ${ }^{3}$ | Percentage of the de jure population with a limited handwashing facility ${ }^{4}$ | Number of persons for whom a place for handwashing was observed or with no place for handwashing in the dwelling, yard, or plot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Place for handwashing was a fixed place | Place for handwashing was mobile | Total |  | Water available | Soap available ${ }^{1}$ | Cleansing agent other than soap available ${ }^{2}$ |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 5.3 | 21.2 | 26.5 | 23,855 | 32.0 | 24.4 | 0.7 | 6,318 | 5.7 | 28.5 | 18,481 |
| Greater Monrovia | 7.9 | 30.5 | 38.4 | 12,483 | 36.8 | 27.0 | 0.8 | 4,793 | 8.5 | 36.2 | 10,731 |
| Other urban | 2.5 | 10.9 | 13.4 | 11,372 | 16.9 | 16.5 | 0.2 | 1,525 | 1.8 | 17.9 | 7,750 |
| Rural | 2.8 | 9.4 | 12.2 | 17,651 | 20.4 | 16.8 | 1.8 | 2,158 | 1.1 | 15.9 | 12,714 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 5.8 | 11.5 | 17.3 | 3,496 | 28.5 | 12.5 | 2.2 | 605 | 2.9 | 22.2 | 2,414 |
| South Central | 6.2 | 26.2 | 32.3 | 18,776 | 31.3 | 26.2 | 0.7 | 6,070 | 6.5 | 33.7 | 15,091 |
| South Eastern A | 2.5 | 16.3 | 18.8 | 2,597 | 11.7 | 3.4 | 1.0 | 487 | 0.9 | 27.0 | 1,747 |
| South Eastern B | 1.4 | 10.8 | 12.2 | 2,420 | 22.5 | 5.6 | 0.4 | 295 | 0.6 | 13.7 | 2,073 |
| North Central | 2.2 | 5.0 | 7.2 | 14,217 | 25.8 | 20.5 | 2.1 | 1,018 | 1.1 | 9.2 | 9,870 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 1.5 | 4.7 | 6.2 | 1,344 | 32.5 | 24.2 | 0.0 | 83 | 2.5 | 7.7 | 822 |
| Bong | 2.6 | 4.1 | 6.7 | 4,061 | 28.3 | 43.4 | 7.9 | 272 | 1.3 | 9.5 | 2,535 |
| Gbarpolu | 10.3 | 18.7 | 29.0 | 677 | 32.0 | 7.2 | 0.0 | 196 | 3.1 | 39.9 | 457 |
| Grand Bassa | 2.3 | 3.0 | 5.3 | 2,356 | 34.6 | 19.8 | 0.0 | 125 | 1.0 | 7.8 | 1,428 |
| Grand Cape Mount | 7.6 | 14.4 | 22.1 | 1,474 | 25.4 | 12.8 | 4.0 | 325 | 3.1 | 25.5 | 1,135 |
| Grand Gedeh | 3.0 | 9.5 | 12.5 | 923 | 36.7 | 3.2 | 3.2 | 116 | 0.7 | 20.3 | 552 |
| Grand Kru | 0.2 | 15.1 | 15.3 | 755 | 25.8 | 1.8 | 0.0 | 116 | 0.3 | 15.7 | 725 |
| Lofa | 3.6 | 10.7 | 14.2 | 3,538 | 23.3 | 8.9 | 0.0 | 504 | 1.1 | 17.2 | 2,754 |
| Margibi | 3.1 | 32.1 | 35.3 | 2,301 | 7.4 | 4.6 | 0.3 | 812 | 2.4 | 50.0 | 1,548 |
| Maryland | 1.3 | 11.8 | 13.1 | 1,160 | 14.5 | 3.0 | 0.5 | 152 | 0.5 | 14.6 | 1,011 |
| Montserrado | 7.3 | 29.1 | 36.4 | 14,119 | 35.0 | 29.7 | 0.7 | 5,133 | 7.7 | 34.6 | 12,115 |
| Nimba | 1.2 | 2.5 | 3.7 | 6,617 | 28.5 | 18.9 | 0.0 | 242 | 1.0 | 4.3 | 4,581 |
| River Cess | 4.1 | 10.7 | 14.8 | 648 | 8.8 | 5.6 | 1.1 | 96 | 1.0 | 17.0 | 532 |
| River Gee | 3.2 | 2.3 | 5.5 | 504 | 53.0 | 35.8 | 1.9 | 28 | 1.4 | 6.8 | 337 |
| Sinoe | 1.0 | 25.9 | 26.8 | 1,026 | 2.1 | 2.8 | 0.0 | 276 | 0.9 | 40.7 | 662 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 1.7 | 8.7 | 10.4 | 8,285 | 12.8 | 8.3 | 1.3 | 862 | 0.6 | 14.1 | 5,889 |
| Second | 2.0 | 8.0 | 9.9 | 8,305 | 15.1 | 12.4 | 2.2 | 823 | 0.9 | 13.2 | 5,844 |
| Middle | 3.1 | 13.5 | 16.6 | 8,307 | 24.9 | 12.2 | 1.0 | 1,378 | 1.3 | 21.6 | 6,032 |
| Fourth | 3.2 | 23.4 | 26.6 | 8,298 | 26.9 | 17.1 | 0.4 | 2,208 | 3.0 | 31.8 | 6,344 |
| Highest | 11.3 | 27.3 | 38.6 | 8,311 | 40.1 | 37.0 | 0.9 | 3,204 | 11.8 | 33.4 | 7,085 |
| Total | 4.3 | 16.2 | 20.4 | 41,506 | 29.0 | 22.5 | 0.9 | 8,476 | 3.8 | 23.3 | 31,195 |

${ }^{1}$ Soap includes soap or detergent in bar, liquid, powder, or paste form.
${ }^{2}$ Cleansing agents other than soap include locally available materials such as ash, mud, or sand.
${ }^{3}$ The availability of a handwashing facility on premises with soap and water
${ }^{4}$ The availability of a handwashing facility on premises without soap and/or water

Table 2.8 Household population by age, sex, and residence
Percent distribution 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, Liberia DHS 2019-20

| Age | Urban |  |  | Rural |  |  | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |  |  |  |
| <5 | 14.1 | 13.1 | 13.6 | 16.0 | 16.2 | 16.1 | 15.0 | 14.4 | 14.7 |
| 5-9 | 14.4 | 13.9 | 14.1 | 17.6 | 15.3 | 16.4 | 15.8 | 14.4 | 15.1 |
| 10-14 | 14.8 | 16.6 | 15.7 | 14.9 | 13.0 | 14.0 | 14.9 | 15.1 | 15.0 |
| 15-19 | 11.2 | 9.8 | 10.5 | 9.0 | 7.7 | 8.3 | 10.2 | 8.9 | 9.5 |
| 20-24 | 8.5 | 9.4 | 9.0 | 5.6 | 6.6 | 6.1 | 7.3 | 8.2 | 7.7 |
| 25-29 | 7.2 | 8.6 | 7.9 | 5.5 | 5.9 | 5.7 | 6.5 | 7.5 | 7.0 |
| 30-34 | 6.2 | 6.6 | 6.4 | 4.8 | 5.4 | 5.1 | 5.6 | 6.1 | 5.8 |
| 35-39 | 6.3 | 5.6 | 5.9 | 5.5 | 5.8 | 5.6 | 5.9 | 5.7 | 5.8 |
| 40-44 | 4.3 | 3.8 | 4.0 | 5.0 | 4.4 | 4.7 | 4.6 | 4.0 | 4.3 |
| 45-49 | 3.3 | 2.4 | 2.9 | 4.2 | 3.9 | 4.1 | 3.7 | 3.1 | 3.4 |
| 50-54 | 2.8 | 3.1 | 3.0 | 3.0 | 5.3 | 4.2 | 2.9 | 4.0 | 3.5 |
| 55-59 | 1.4 | 2.2 | 1.9 | 2.5 | 2.6 | 2.5 | 1.9 | 2.4 | 2.1 |
| 60-64 | 2.2 | 1.9 | 2.0 | 2.4 | 2.3 | 2.3 | 2.2 | 2.0 | 2.1 |
| 65-69 | 1.5 | 0.8 | 1.1 | 1.4 | 1.9 | 1.6 | 1.4 | 1.3 | 1.3 |
| 70-74 | 0.7 | 0.9 | 0.8 | 1.0 | 1.4 | 1.2 | 0.8 | 1.1 | 1.0 |
| 75-79 | 0.5 | 0.7 | 0.6 | 0.9 | 1.0 | 0.9 | 0.7 | 0.8 | 0.7 |
| 80+ | 0.6 | 0.7 | 0.6 | 0.8 | 1.4 | 1.1 | 0.7 | 1.0 | 0.8 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Dependency age groups |  |  |  |  |  |  |  |  |  |
| 0-14 | 43.4 | 43.5 | 43.4 | 48.5 | 44.5 | 46.5 | 45.6 | 43.9 | 44.8 |
| $15-64$ | 53.4 | 53.4 | 53.4 | 47.4 | 49.8 | 48.6 | 50.8 | 51.9 | 51.4 |
| $65+$ | 3.2 | 3.1 | 3.1 | 4.1 | 5.6 | 4.9 | 3.6 | 4.2 | 3.9 |
| 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 | 50.5 | 48.8 | 49.7 | 54.4 | 49.3 | 51.9 | 52.2 | 49.0 | 50.6 |
| 18+ | 49.5 | 51.2 | 50.3 | 45.6 | 50.7 | 48.1 | 47.8 | 51.0 | 49.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Adolescents 10-19 | 26.1 | 26.3 | 26.2 | 23.9 | 20.7 | 22.3 | 25.1 | 24.0 | 24.5 |
| Number of persons | 11,015 | 12,075 | 23,089 | 8,603 | 8,510 | 17,113 | 19,618 | 20,584 | 40,202 |

## Table 2.9 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 children under age 18 who are orphans or not living with a biological parent, according to residence, Liberia DHS 2019-20

| Characteristic | Residence |  | Total |
| :---: | :---: | :---: | :---: |
|  | Urban | Rural |  |
| Household headship |  |  |  |
| Male | 64.0 | 69.5 | 66.3 |
| Female | 36.0 | 30.5 | 33.7 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of usual members |  |  |  |
| 1 | 12.6 | 11.2 | 12.0 |
| 2 | 12.5 | 11.6 | 12.1 |
| 3 | 13.8 | 14.9 | 14.2 |
| 4 | 15.0 | 15.9 | 15.3 |
| 5 | 13.7 | 15.0 | 14.3 |
| 6 | 11.3 | 11.6 | 11.4 |
| 7 | 7.9 | 7.7 | 7.8 |
| 8 | 5.5 | 4.7 | 5.1 |
| $9+$ | 7.8 | 7.3 | 7.5 |
| Total | 100.0 | 100.0 | 100.0 |
| Mean size of households | 4.6 | 4.6 | 4.6 |
| Percentage of households with children under age 18 who are orphans or not living with a biological parent Double orphans |  |  |  |
|  | 2.0 | 1.3 | 1.7 |
| Single orphans ${ }^{1}$ | 12.4 | 11.4 | 12.0 |
| Children not living with a biological parent ${ }^{2}$ | 34.7 | 28.3 | 32.0 |
| Orphans and/or children not living with a biological parent | 38.2 | 32.3 | 35.7 |
| Number of households | 5,195 | 3,873 | 9,068 |

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
${ }_{2}^{2}$ Children not living with a biological parent are those under age 18 living in households with neither their mother nor their father present.

Table 2.10 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, Liberia DHS 2019-20

| Background characteristic | Living with both parents | Living with mother but not with father |  | Living with father but not with mother |  | Not living with either parent |  |  |  |  |  | Percentage not living with a biological parent | Percentage with one or both parents dead ${ }^{1}$ | Number <br> of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Father alive | Father dead | Mother alive | Mother dead | Both alive | Only mother alive | Only father alive | Both dead | Missing information on father/ mother | Total |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-4 | 51.8 | 27.9 | 1.9 | 4.2 | 0.1 | 12.5 | 0.7 | 0.4 | 0.4 | 0.1 | 100.0 | 14.0 | 3.5 | 6,017 |
| <2 | 56.6 | 35.4 | 1.5 | 1.5 | 0.1 | 4.2 | 0.3 | 0.3 | 0.1 | 0.1 | 100.0 | 4.8 | 2.3 | 2,302 |
| 2-4 | 48.8 | 23.2 | 2.1 | 5.9 | 0.1 | 17.6 | 1.0 | 0.5 | 0.6 | 0.2 | 100.0 | 19.6 | 4.2 | 3,715 |
| 5-9 | 42.1 | 17.5 | 2.9 | 8.3 | 0.6 | 24.0 | 1.6 | 1.5 | 1.0 | 0.5 | 100.0 | 28.2 | 7.8 | 6,197 |
| 10-14 | 33.9 | 16.0 | 4.9 | 10.2 | 1.0 | 27.1 | 3.3 | 1.8 | 1.5 | 0.3 | 100.0 | 33.7 | 12.6 | 6,128 |
| 15-17 | 28.5 | 15.6 | 6.6 | 8.4 | 1.2 | 30.1 | 3.9 | 3.1 | 2.3 | 0.3 | 100.0 | 39.4 | 17.1 | 2,404 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 42.3 | 19.1 | 3.4 | 8.2 | 0.8 | 21.3 | 2.1 | 1.5 | 1.0 | 0.4 | 100.0 | 25.9 | 8.8 | 10,465 |
| Female | 39.5 | 20.6 | 3.9 | 7.2 | 0.5 | 23.2 | 2.2 | 1.4 | 1.3 | 0.3 | 100.0 | 28.1 | 9.3 | 10,281 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 36.0 | 21.2 | 3.7 | 8.2 | 0.5 | 24.8 | 2.3 | 1.5 | 1.5 | 0.4 | 100.0 | 30.0 | 9.5 | 11,708 |
| Greater Monrovia | 32.6 | 22.3 | 5.0 | 8.8 | 0.6 | 23.9 | 2.6 | 1.5 | 2.4 | 0.3 | 100.0 | 30.4 | 12.0 | 5,748 |
| Other urban | 39.2 | 20.1 | 2.4 | 7.7 | 0.5 | 25.6 | 2.0 | 1.5 | 0.5 | 0.5 | 100.0 | 29.6 | 7.1 | 5,960 |
| Rural | 47.3 | 18.1 | 3.5 | 7.0 | 0.7 | 19.0 | 1.9 | 1.5 | 0.8 | 0.2 | 100.0 | 23.1 | 8.4 | 9,038 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 43.3 | 16.6 | 4.8 | 5.8 | 0.6 | 22.1 | 2.5 | 2.5 | 1.3 | 0.5 | 100.0 | 28.5 | 11.7 | 1,803 |
| South Central | 35.3 | 21.8 | 4.2 | 9.0 | 0.7 | 22.8 | 2.5 | 1.6 | 1.8 | 0.3 | 100.0 | 28.6 | 10.8 | 8,886 |
| South Eastern A | 43.7 | 20.2 | 2.1 | 7.4 | 0.8 | 22.9 | 1.2 | 0.9 | 0.5 | 0.4 | 100.0 | 25.5 | 5.4 | 1,313 |
| South Eastern B | 46.1 | 17.5 | 3.6 | 6.4 | 1.2 | 21.0 | 1.3 | 1.5 | 1.0 | 0.5 | 100.0 | 24.7 | 8.7 | 1,257 |
| North Central | 45.6 | 18.6 | 2.9 | 6.8 | 0.4 | 21.8 | 1.8 | 1.2 | 0.5 | 0.3 | 100.0 | 25.4 | 7.0 | 7,487 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 44.0 | 17.2 | 5.8 | 5.4 | 0.4 | 19.4 | 3.0 | 3.0 | 1.5 | 0.3 | 100.0 | 26.9 | 13.8 | 693 |
| Bong | 41.3 | 22.4 | 3.4 | 6.3 | 0.4 | 22.9 | 1.4 | 1.3 | 0.4 | 0.1 | 100.0 | 26.1 | 7.0 | 2,033 |
| Gbarpolu | 45.4 | 16.2 | 3.3 | 6.1 | 1.0 | 23.0 | 1.4 | 1.6 | 0.7 | 1.2 | 100.0 | 26.8 | 8.0 | 337 |
| Grand Bassa | 46.1 | 19.3 | 2.9 | 8.8 | 0.8 | 19.2 | 1.9 | 0.9 | 0.2 | 0.1 | 100.0 | 22.1 | 6.7 | 1,183 |
| Grand Cape Mount | 41.7 | 16.3 | 4.4 | 6.1 | 0.6 | 24.2 | 2.6 | 2.5 | 1.3 | 0.4 | 100.0 | 30.6 | 11.4 | 773 |
| Grand Gedeh | 46.6 | 20.8 | 2.8 | 5.9 | 1.0 | 20.5 | 0.4 | 0.7 | 0.6 | 0.7 | 100.0 | 22.2 | 5.5 | 456 |
| Grand Kru | 46.1 | 19.6 | 4.2 | 5.1 | 1.2 | 20.1 | 1.7 | 1.0 | 0.6 | 0.4 | 100.0 | 23.4 | 8.7 | 411 |
| Lofa | 40.5 | 19.9 | 4.0 | 7.2 | 0.5 | 22.7 | 3.3 | 0.7 | 1.0 | 0.0 | 100.0 | 27.8 | 9.7 | 1,837 |
| Margibi | 38.6 | 19.9 | 3.2 | 10.1 | 1.1 | 20.6 | 2.7 | 2.7 | 0.6 | 0.4 | 100.0 | 26.6 | 10.3 | 1,140 |
| Maryland | 46.0 | 17.4 | 3.3 | 7.1 | 1.4 | 19.9 | 1.2 | 1.6 | 1.6 | 0.6 | 100.0 | 24.2 | 9.1 | 595 |
| Montserrado | 32.8 | 22.6 | 4.7 | 8.9 | 0.6 | 23.8 | 2.6 | 1.5 | 2.2 | 0.3 | 100.0 | 30.2 | 11.7 | 6,563 |
| Nimba | 50.7 | 15.7 | 2.0 | 6.8 | 0.4 | 20.7 | 1.2 | 1.4 | 0.4 | 0.6 | 100.0 | 23.7 | 5.7 | 3,617 |
| River Cess | 44.7 | 17.4 | 2.4 | 7.4 | 0.9 | 22.6 | 2.5 | 1.0 | 0.8 | 0.3 | 100.0 | 26.9 | 7.6 | 339 |
| River Gee | 46.2 | 14.4 | 3.2 | 6.7 | 1.1 | 25.0 | 1.0 | 2.0 | 0.3 | 0.1 | 100.0 | 28.2 | 7.7 | 251 |
| Sinoe | 40.6 | 21.5 | 1.2 | 8.7 | 0.5 | 25.2 | 1.1 | 0.9 | 0.2 | 0.0 | 100.0 | 27.5 | 3.9 | 518 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 50.6 | 18.6 | 3.3 | 5.8 | 0.4 | 17.3 | 1.7 | 1.2 | 0.7 | 0.2 | 100.0 | 21.0 | 7.4 | 4,196 |
| Second | 48.4 | 18.2 | 3.6 | 6.6 | 0.9 | 18.6 | 1.4 | 1.4 | 0.7 | 0.3 | 100.0 | 22.1 | 7.9 | 4,258 |
| Middle | 35.4 | 20.1 | 4.4 | 7.4 | 0.5 | 26.1 | 2.6 | 2.2 | 0.7 | 0.5 | 100.0 | 31.7 | 10.8 | 4,372 |
| Fourth | 35.2 | 23.3 | 4.5 | 7.7 | 0.7 | 23.2 | 1.8 | 1.2 | 2.1 | 0.2 | 100.0 | 28.4 | 10.4 | 4,050 |
| Highest | 34.3 | 19.1 | 2.1 | 11.2 | 0.7 | 26.2 | 3.1 | 1.2 | 1.6 | 0.4 | 100.0 | 32.1 | 8.7 | 3,869 |
| Total < 15 | 42.5 | 20.4 | 3.2 | 7.6 | 0.6 | 21.2 | 1.9 | 1.3 | 1.0 | 0.3 | 100.0 | 25.4 | 8.0 | 18,342 |
| Total <18 | 40.9 | 19.8 | 3.6 | 7.7 | 0.6 | 22.3 | 2.1 | 1.5 | 1.2 | 0.3 | 100.0 | 27.0 | 9.1 | 20,746 |

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 2.11 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, Liberia DHS 2019-20

| Background characteristic | Percentage of children whose births are registered and who: |  |  | Number of children |
| :---: | :---: | :---: | :---: | :---: |
|  | Had a birth certificate | Did not have a birth certificate | Total percentage of children whose births are registered |  |
| Age |  |  |  |  |
| <2 | 27.9 | 39.4 | 67.3 | 2,302 |
| 2-4 | 31.7 | 33.9 | 65.6 | 3,715 |
| Sex |  |  |  |  |
| Male | 30.4 | 36.7 | 67.1 | 3,018 |
| Female | 30.1 | 35.3 | 65.4 | 3,000 |
| Residence |  |  |  |  |
| Urban | 32.0 | 37.2 | 69.3 | 3,218 |
| Greater Monrovia | 32.8 | 39.9 | 72.7 | 1,568 |
| Other urban | 31.3 | 34.7 | 66.0 | 1,650 |
| Rural | 28.2 | 34.5 | 62.8 | 2,799 |
| Region |  |  |  |  |
| North Western | 36.3 | 35.1 | 71.4 | 508 |
| South Central | 31.2 | 35.3 | 66.5 | 2,481 |
| South Eastern A | 24.5 | 35.7 | 60.3 | 368 |
| South Eastern B | 24.6 | 40.1 | 64.7 | 338 |
| North Central | 29.7 | 36.3 | 66.0 | 2,322 |
| County |  |  |  |  |
| Bomi | 35.4 | 37.9 | 73.3 | 176 |
| Bong | 25.7 | 12.0 | 37.7 | 633 |
| Gbarpolu | 29.5 | 41.4 | 70.9 | 102 |
| Grand Bassa | 28.5 | 28.4 | 56.9 | 372 |
| Grand Cape Mount | 40.1 | 30.2 | 70.3 | 230 |
| Grand Gedeh | 21.3 | 55.5 | 76.9 | 132 |
| Grand Kru | 15.9 | 56.3 | 72.2 | 115 |
| Lofa | 59.7 | 25.1 | 84.9 | 511 |
| Margibi | 27.6 | 37.9 | 65.5 | 306 |
| Maryland | 33.1 | 38.8 | 71.9 | 160 |
| Montserrado | 32.4 | 36.3 | 68.7 | 1,803 |
| Nimba | 18.8 | 54.3 | 73.1 | 1,179 |
| River Cess | 23.2 | 44.8 | 68.0 | 96 |
| River Gee | 18.9 | 13.8 | 32.8 | 63 |
| Sinoe | 28.5 | 10.7 | 39.2 | 139 |
| Wealth quintile |  |  |  |  |
| Lowest | 23.0 | 38.6 | 61.5 | 1,444 |
| Second | 28.3 | 34.9 | 63.3 | 1,364 |
| Middle | 32.6 | 33.1 | 65.7 | 1,156 |
| Fourth | 33.3 | 35.4 | 68.8 | 1,060 |
| Highest | 37.6 | 37.6 | 75.2 | 994 |
| Total | 30.3 | 36.0 | 66.3 | 6,017 |

Table 2.12.1 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, Liberia DHS 2019-20

| Background characteristic | No education | Some elementary | Completed elementary ${ }^{1}$ | Some junior high | Completed junior high ${ }^{2}$ | Some senior high | Completed senior high $^{3}$ | Higher |  | Total | Number of women | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 6-9 | 72.2 | 27.4 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 100.0 | 2,411 | 0.0 |
| 10-14 | 22.8 | 67.5 | 2.1 | 0.2 | 6.7 | 0.0 | 0.6 | 0.0 | 0.0 | 100.0 | 3,108 | 1.3 |
| 15-19 | 8.8 | 37.1 | 5.9 | 3.8 | 28.3 | 3.0 | 12.5 | 0.6 | 0.0 | 100.0 | 1,830 | 5.2 |
| 20-24 | 15.6 | 18.4 | 4.1 | 4.8 | 17.5 | 15.4 | 18.2 | 5.5 | 0.6 | 100.0 | 1,689 | 6.3 |
| 25-29 | 23.0 | 16.5 | 3.7 | 3.7 | 13.1 | 20.8 | 10.2 | 8.7 | 0.4 | 100.0 | 1,543 | 6.2 |
| 30-34 | 35.1 | 13.9 | 2.3 | 2.6 | 11.1 | 16.9 | 7.3 | 10.6 | 0.3 | 100.0 | 1,260 | 5.1 |
| 35-39 | 47.2 | 19.4 | 3.7 | 2.4 | 6.8 | 10.5 | 2.5 | 6.8 | 0.6 | 100.0 | 1,169 | 0.8 |
| 40-44 | 52.9 | 17.1 | 2.2 | 1.9 | 7.9 | 9.7 | 2.3 | 5.3 | 0.8 | 100.0 | 831 | 0.0 |
| 45-49 | 60.4 | 16.4 | 2.9 | 0.2 | 5.9 | 5.4 | 3.5 | 4.5 | 0.7 | 100.0 | 629 | 0.0 |
| 50-54 | 70.8 | 9.9 | 2.0 | 1.7 | 6.4 | 5.1 | 1.3 | 3.0 | 0.0 | 100.0 | 833 | 0.0 |
| 55-59 | 71.3 | 9.5 | 1.4 | 1.8 | 3.6 | 6.5 | 2.4 | 3.1 | 0.6 | 100.0 | 488 | 0.0 |
| 60-64 | 77.0 | 8.2 | 1.5 | 2.3 | 2.0 | 3.9 | 0.9 | 3.8 | 0.4 | 100.0 | 420 | 0.0 |
| 65+ | 89.8 | 5.2 | 1.1 | 0.0 | 0.8 | 0.6 | 0.4 | 1.6 | 0.4 | 100.0 | 855 | 0.0 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 30.9 | 28.7 | 2.7 | 2.7 | 11.4 | 10.3 | 7.5 | 5.5 | 0.3 | 100.0 | 10,203 | 2.7 |
| Greater Monrovia | 24.4 | 26.0 | 2.6 | 3.9 | 11.5 | 14.9 | 8.6 | 8.0 | 0.2 | 100.0 | 5,504 | 4.9 |
| Other urban | 38.5 | 31.8 | 2.8 | 1.4 | 11.4 | 5.1 | 6.2 | 2.6 | 0.3 | 100.0 | 4,699 | 1.4 |
| Rural | 57.1 | 28.2 | 2.6 | 0.7 | 6.8 | 1.8 | 2.1 | 0.4 | 0.3 | 100.0 | 6,863 | 0.0 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 54.5 | 27.0 | 4.4 | 0.6 | 7.4 | 2.3 | 2.6 | 0.8 | 0.4 | 100.0 | 1,397 | 0.0 |
| South Central | 31.4 | 27.3 | 2.3 | 2.9 | 11.2 | 11.3 | 7.4 | 6.0 | 0.3 | 100.0 | 8,130 | 3.3 |
| South Eastern A | 49.4 | 32.9 | 2.7 | 0.9 | 8.0 | 2.1 | 3.2 | 0.7 | 0.2 | 100.0 | 1,011 | 0.0 |
| South Eastern B | 42.3 | 36.5 | 2.6 | 1.1 | 9.0 | 3.4 | 3.7 | 1.2 | 0.2 | 100.0 | 948 | 0.6 |
| North Central | 51.1 | 28.4 | 2.7 | 1.1 | 8.1 | 3.2 | 3.6 | 1.4 | 0.3 | 100.0 | 5,580 | 0.0 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 47.9 | 29.5 | 5.1 | 0.4 | 7.6 | 2.9 | 4.5 | 1.5 | 0.6 | 100.0 | 565 | 0.0 |
| Bong | 52.7 | 26.4 | 3.6 | 1.7 | 5.9 | 3.6 | 3.5 | 2.5 | 0.2 | 100.0 | 1,705 | 0.0 |
| Gbarpolu | 61.8 | 27.4 | 4.1 | 0.8 | 3.5 | 1.3 | 0.6 | 0.4 | 0.2 | 100.0 | 265 | 0.0 |
| Grand Bassa | 53.8 | 29.4 | 1.6 | 0.8 | 8.3 | 1.5 | 2.7 | 1.4 | 0.5 | 100.0 | 964 | 0.0 |
| Grand Cape Mount | 57.7 | 24.4 | 3.8 | 0.9 | 9.1 | 2.0 | 1.6 | 0.4 | 0.2 | 100.0 | 568 | 0.0 |
| Grand Gedeh | 42.5 | 35.2 | 3.7 | 0.9 | 9.0 | 3.3 | 3.9 | 1.2 | 0.3 | 100.0 | 362 | 0.3 |
| Grand Kru | 43.1 | 41.1 | 2.5 | 0.8 | 8.1 | 1.9 | 1.7 | 0.2 | 0.6 | 100.0 | 289 | 0.3 |
| Lofa | 60.3 | 24.4 | 1.6 | 0.8 | 6.8 | 2.7 | 2.7 | 0.5 | 0.2 | 100.0 | 1,480 | 0.0 |
| Margibi | 44.4 | 30.5 | 1.9 | 0.7 | 9.6 | 5.0 | 5.8 | 1.8 | 0.2 | 100.0 | 980 | 0.4 |
| Maryland | 40.9 | 35.0 | 1.6 | 1.0 | 9.3 | 4.7 | 5.2 | 2.1 | 0.1 | 100.0 | 460 | 0.7 |
| Montserrado | 25.9 | 26.4 | 2.4 | 3.6 | 11.9 | 13.8 | 8.4 | 7.3 | 0.2 | 100.0 | 6,186 | 4.6 |
| Nimba | 44.4 | 32.4 | 2.8 | 0.8 | 10.5 | 3.3 | 4.2 | 1.1 | 0.5 | 100.0 | 2,395 | 0.2 |
| River Cess | 59.3 | 30.0 | 2.3 | 0.7 | 5.4 | 1.0 | 0.8 | 0.3 | 0.2 | 100.0 | 248 | 0.0 |
| River Gee | 44.3 | 33.4 | 5.2 | 1.7 | 9.7 | 2.3 | 3.1 | 0.3 | 0.0 | 100.0 | 198 | 0.7 |
| Sinoe | 49.6 | 32.7 | 2.0 | 1.0 | 8.6 | 1.7 | 4.0 | 0.6 | 0.0 | 100.0 | 400 | 0.0 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 64.9 | 26.0 | 2.1 | 0.5 | 4.6 | 0.6 | 0.9 | 0.1 | 0.4 | 100.0 | 3,143 | 0.0 |
| Second | 55.7 | 29.3 | 2.3 | 0.8 | 8.1 | 1.5 | 2.0 | 0.1 | 0.2 | 100.0 | 3,186 | 0.0 |
| Middle | 43.6 | 31.2 | 3.1 | 1.3 | 10.3 | 4.4 | 5.2 | 0.7 | 0.3 | 100.0 | 3,378 | 0.5 |
| Fourth | 30.2 | 29.1 | 2.6 | 3.9 | 13.1 | 9.1 | 8.8 | 3.2 | 0.1 | 100.0 | 3,678 | 3.2 |
| Highest | 18.4 | 26.8 | 3.0 | 2.6 | 10.9 | 17.1 | 8.5 | 12.1 | 0.4 | 100.0 | 3,681 | 5.7 |
| Total | 41.4 | 28.5 | 2.6 | 1.9 | 9.6 | 6.9 | 5.3 | 3.5 | 0.3 | 100.0 | 17,066 | 1.0 |

[^2]Table 2.12.2 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, Liberia DHS 2019-20

| Background characteristic | No education | Some elementary | Completed elementary ${ }^{1}$ | Some junior high | Completed junior high ${ }^{2}$ | Some senior high | Completed senior high $^{3}$ | Higher | Don't know/ missing | Total | Number of men | Median years completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 6-9 | 75.6 | 24.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 100.0 | 2,449 | 0.0 |
| 10-14 | 28.5 | 63.3 | 1.8 | 0.3 | 5.3 | 0.1 | 0.3 | 0.2 | 0.1 | 100.0 | 2,917 | 0.9 |
| 15-19 | 9.8 | 41.8 | 4.5 | 2.5 | 26.6 | 2.0 | 12.1 | 0.6 | 0.2 | 100.0 | 2,009 | 4.8 |
| 20-24 | 8.8 | 15.4 | 3.4 | 4.0 | 17.3 | 18.7 | 24.1 | 8.0 | 0.3 | 100.0 | 1,424 | 7.1 |
| 25-29 | 13.3 | 10.9 | 2.6 | 2.7 | 14.7 | 28.1 | 15.5 | 11.3 | 0.8 | 100.0 | 1,266 | 7.4 |
| 30-34 | 13.5 | 12.0 | 1.6 | 2.3 | 9.8 | 28.1 | 13.6 | 17.4 | 1.5 | 100.0 | 1,090 | 7.9 |
| 35-39 | 19.0 | 12.4 | 3.8 | 1.7 | 12.7 | 23.6 | 10.9 | 15.2 | 0.7 | 100.0 | 1,167 | 7.2 |
| 40-44 | 25.4 | 13.1 | 4.6 | 2.5 | 9.4 | 22.0 | 7.7 | 13.2 | 2.1 | 100.0 | 902 | 6.4 |
| 45-49 | 29.8 | 13.3 | 2.7 | 2.1 | 12.3 | 15.3 | 8.3 | 13.9 | 2.3 | 100.0 | 723 | 6.0 |
| 50-54 | 22.2 | 12.8 | 2.8 | 5.6 | 9.3 | 21.0 | 8.3 | 17.0 | 0.9 | 100.0 | 562 | 7.3 |
| 55-59 | 31.8 | 13.2 | 3.1 | 2.1 | 9.0 | 18.6 | 8.8 | 11.8 | 1.6 | 100.0 | 373 | 5.8 |
| 60-64 | 38.2 | 10.4 | 2.9 | 2.8 | 7.0 | 17.3 | 6.1 | 14.8 | 0.5 | 100.0 | 440 | 5.2 |
| 65+ | 48.1 | 15.3 | 2.1 | 1.3 | 5.4 | 12.3 | 3.9 | 10.1 | 1.6 | 100.0 | 707 | 0.2 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 20.9 | 26.0 | 2.3 | 2.1 | 11.3 | 15.7 | 10.0 | 11.1 | 0.5 | 100.0 | 9,121 | 4.4 |
| Greater Monrovia | 15.4 | 20.9 | 2.6 | 2.7 | 11.3 | 20.2 | 11.7 | 14.9 | 0.3 | 100.0 | 4,813 | 6.7 |
| Other urban | 27.1 | 31.8 | 2.0 | 1.3 | 11.4 | 10.7 | 8.2 | 6.8 | 0.8 | 100.0 | 4,308 | 3.3 |
| Rural | 41.0 | 29.3 | 2.8 | 1.5 | 9.7 | 6.8 | 6.0 | 1.8 | 0.9 | 100.0 | 6,909 | 0.9 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 42.1 | 28.1 | 3.0 | 1.9 | 8.9 | 7.2 | 5.1 | 2.8 | 1.0 | 100.0 | 1,386 | 0.9 |
| South Central | 20.8 | 24.0 | 2.3 | 2.3 | 11.2 | 17.0 | 10.2 | 11.8 | 0.5 | 100.0 | 7,268 | 5.7 |
| South Eastern A | 29.9 | 31.9 | 3.3 | 1.9 | 13.2 | 7.9 | 7.4 | 3.1 | 1.5 | 100.0 | 1,087 | 2.9 |
| South Eastern B | 27.9 | 32.7 | 4.5 | 2.1 | 12.6 | 8.8 | 6.6 | 4.2 | 0.6 | 100.0 | 979 | 3.1 |
| North Central | 38.5 | 30.1 | 2.2 | 1.1 | 9.5 | 7.5 | 7.1 | 3.2 | 0.7 | 100.0 | 5,311 | 1.3 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 34.7 | 29.0 | 3.8 | 2.1 | 9.4 | 9.7 | 5.7 | 4.8 | 0.8 | 100.0 | 540 | 2.0 |
| Bong | 40.6 | 28.1 | 4.1 | 1.7 | 7.9 | 7.5 | 5.0 | 4.2 | 0.9 | 100.0 | 1,533 | 1.0 |
| Gbarpolu | 45.0 | 29.1 | 3.3 | 2.2 | 7.9 | 6.1 | 3.8 | 1.2 | 1.4 | 100.0 | 262 | 0.3 |
| Grand Bassa | 39.2 | 30.8 | 1.4 | 1.6 | 10.8 | 6.3 | 5.9 | 3.6 | 0.5 | 100.0 | 919 | 0.8 |
| Grand Cape Mount | 47.5 | 26.9 | 2.1 | 1.6 | 8.9 | 5.4 | 5.1 | 1.7 | 0.9 | 100.0 | 584 | 0.1 |
| Grand Gedeh | 25.4 | 33.4 | 4.2 | 2.1 | 12.7 | 8.5 | 7.9 | 4.4 | 1.4 | 100.0 | 367 | 3.7 |
| Grand Kru | 26.1 | 36.1 | 2.7 | 1.7 | 14.0 | 9.2 | 5.4 | 3.6 | 1.2 | 100.0 | 301 | 2.9 |
| Lofa | 43.3 | 28.4 | 1.8 | 1.3 | 7.7 | 8.0 | 6.7 | 2.2 | 0.5 | 100.0 | 1,345 | 0.4 |
| Margibi | 26.9 | 31.1 | 2.3 | 1.8 | 11.7 | 13.0 | 6.5 | 6.2 | 0.4 | 100.0 | 884 | 3.3 |
| Maryland | 28.7 | 31.1 | 5.2 | 1.8 | 12.0 | 8.0 | 7.4 | 5.7 | 0.3 | 100.0 | 468 | 3.1 |
| Montserrado | 16.8 | 21.7 | 2.4 | 2.5 | 11.2 | 19.4 | 11.5 | 14.0 | 0.5 | 100.0 | 5,465 | 6.4 |
| Nimba | 34.6 | 32.4 | 1.3 | 0.6 | 11.4 | 7.3 | 8.6 | 3.2 | 0.6 | 100.0 | 2,433 | 1.9 |
| River Cess | 39.2 | 30.7 | 4.3 | 2.0 | 12.0 | 5.4 | 4.3 | 1.7 | 0.5 | 100.0 | 274 | 1.6 |
| River Gee | 28.9 | 31.6 | 5.5 | 3.1 | 11.8 | 10.2 | 6.7 | 1.7 | 0.5 | 100.0 | 209 | 3.2 |
| Sinoe | 27.9 | 31.5 | 1.9 | 1.6 | 14.3 | 8.9 | 9.0 | 2.9 | 2.1 | 100.0 | 447 | 3.0 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 48.6 | 29.2 | 2.6 | 1.6 | 8.5 | 3.9 | 4.4 | 0.5 | 0.8 | 100.0 | 3,152 | 0.0 |
| Second | 38.7 | 30.1 | 2.8 | 1.6 | 10.9 | 6.9 | 6.8 | 1.4 | 0.9 | 100.0 | 3,203 | 1.4 |
| Middle | 29.9 | 33.3 | 2.8 | 1.5 | 10.0 | 9.8 | 8.9 | 3.1 | 0.7 | 100.0 | 3,247 | 2.7 |
| Fourth | 19.4 | 24.9 | 2.3 | 2.3 | 13.1 | 18.1 | 11.1 | 8.1 | 0.7 | 100.0 | 3,153 | 5.7 |
| Highest | 11.8 | 19.9 | 2.1 | 2.2 | 10.8 | 20.6 | 10.2 | 22.1 | 0.3 | 100.0 | 3,275 | 7.4 |
| Total | 29.6 | 27.4 | 2.5 | 1.8 | 10.6 | 11.9 | 8.3 | 7.1 | 0.7 | 100.0 | 16,030 | 3.5 |

[^3]Table 2.13 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, Liberia DHS 2019-20

| Background characteristic | Net attendance ratio ${ }^{1}$ |  |  |  | Gross attendance ratio ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Gender parity index ${ }^{3}$ | Male | Female | Total | Gender parity index ${ }^{3}$ |
| PRIMARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 51.7 | 52.9 | 52.3 | 1.02 | 103.7 | 100.2 | 101.8 | 0.97 |
| Greater Monrovia | 57.9 | 58.8 | 58.4 | 1.02 | 107.4 | 104.0 | 105.4 | 0.97 |
| Other urban | 46.9 | 46.9 | 46.9 | 1.00 | 100.9 | 96.4 | 98.6 | 0.95 |
| Rural | 30.0 | 34.5 | 32.1 | 1.15 | 77.9 | 77.0 | 77.5 | 0.99 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 36.3 | 40.7 | 38.3 | 1.12 | 82.8 | 95.0 | 88.3 | 1.15 |
| South Central | 49.7 | 53.2 | 51.6 | 1.07 | 99.5 | 99.4 | 99.5 | 1.00 |
| South Eastern A | 35.8 | 36.2 | 36.0 | 1.01 | 100.1 | 80.9 | 90.9 | 0.81 |
| South Eastern B | 46.2 | 48.9 | 47.5 | 1.06 | 105.9 | 101.2 | 103.6 | 0.96 |
| North Central | 34.4 | 37.2 | 35.7 | 1.08 | 81.5 | 78.1 | 79.9 | 0.96 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 43.0 | 48.8 | 45.7 | 1.14 | 99.6 | 125.1 | 111.4 | 1.26 |
| Bong | 36.3 | 39.1 | 37.6 | 1.08 | 83.5 | 87.7 | 85.4 | 1.05 |
| Gbarpolu | 22.2 | 31.7 | 26.6 | 1.43 | 54.3 | 61.7 | 57.8 | 1.13 |
| Grand Bassa | 25.5 | 32.6 | 28.9 | 1.28 | 80.3 | 76.9 | 78.7 | 0.96 |
| Grand Cape Mount | 37.2 | 37.8 | 37.5 | 1.02 | 81.7 | 84.3 | 82.8 | 1.03 |
| Grand Gedeh | 43.6 | 46.9 | 45.3 | 1.08 | 114.3 | 85.3 | 99.4 | 0.75 |
| Grand Kru | 46.2 | 49.6 | 47.9 | 1.07 | 112.2 | 104.5 | 108.5 | 0.93 |
| Lofa | 34.3 | 35.7 | 35.0 | 1.04 | 77.8 | 75.9 | 76.9 | 0.98 |
| Margibi | 45.6 | 45.2 | 45.4 | 0.99 | 86.8 | 101.6 | 94.2 | 1.17 |
| Maryland | 47.5 | 51.0 | 49.3 | 1.07 | 99.7 | 94.0 | 96.8 | 0.94 |
| Montserrado | 56.2 | 57.8 | 57.1 | 1.03 | 106.9 | 102.6 | 104.5 | 0.96 |
| Nimba | 33.4 | 37.0 | 35.1 | 1.11 | 82.2 | 74.1 | 78.4 | 0.90 |
| River Cess | 26.0 | 25.2 | 25.6 | 0.97 | 80.8 | 68.7 | 75.3 | 0.85 |
| River Gee | 43.2 | 41.1 | 42.3 | 0.95 | 110.5 | 117.5 | 113.6 | 1.06 |
| Sinoe | 36.5 | 33.3 | 35.0 | 0.91 | 102.5 | 85.0 | 94.3 | 0.83 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 23.1 | 26.1 | 24.5 | 1.13 | 65.1 | 59.0 | 62.4 | 0.91 |
| Second | 31.8 | 34.5 | 33.0 | 1.09 | 79.6 | 78.5 | 79.1 | 0.99 |
| Middle | 44.7 | 43.0 | 43.9 | 0.96 | 96.2 | 93.0 | 94.7 | 0.97 |
| Fourth | 55.5 | 57.1 | 56.4 | 1.03 | 112.1 | 109.3 | 110.5 | 0.98 |
| Highest | 62.0 | 62.4 | 62.3 | 1.01 | 118.0 | 108.2 | 112.3 | 0.92 |
| Total | 41.2 | 45.3 | 43.3 | 1.10 | 91.2 | 90.7 | 90.9 | 0.99 |

Continued...

| Table 2.13-Continued |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Net attendance ratio ${ }^{1}$ |  |  |  | Gross attendance ratio ${ }^{2}$ |  |  |  |
|  | Male | Female | Total | Gender parity index ${ }^{3}$ | Male | Female | Total | Gender parity index ${ }^{3}$ |
| SECONDARY SCHOOL |  |  |  |  |  |  |  |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 34.4 | 33.5 | 33.9 | 0.97 | 67.3 | 66.1 | 66.7 | 0.98 |
| Greater Monrovia | 47.0 | 40.1 | 43.3 | 0.85 | 82.9 | 72.2 | 77.2 | 0.87 |
| Other urban | 21.3 | 25.4 | 23.3 | 1.19 | 51.2 | 58.5 | 54.8 | 1.14 |
| Rural | 10.8 | 13.0 | 11.8 | 1.20 | 28.9 | 24.9 | 27.0 | 0.86 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 15.1 | 18.7 | 16.9 | 1.24 | 34.1 | 36.1 | 35.1 | 1.06 |
| South Central | 38.5 | 34.6 | 36.5 | 0.90 | 71.2 | 65.0 | 68.0 | 0.91 |
| South Eastern A | 12.8 | 13.2 | 12.9 | 1.03 | 36.6 | 29.0 | 33.3 | 0.79 |
| South Eastern B | 16.8 | 16.2 | 16.5 | 0.97 | 44.4 | 40.3 | 42.4 | 0.91 |
| North Central | 12.3 | 17.9 | 14.9 | 1.45 | 33.6 | 38.3 | 35.8 | 1.14 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 19.0 | 23.1 | 21.2 | 1.22 | 38.4 | 41.9 | 40.3 | 1.09 |
| Bong | 16.7 | 20.1 | 18.4 | 1.21 | 41.7 | 46.7 | 44.1 | 1.12 |
| Gbarpolu | 6.0 | 8.7 | 7.4 | 1.46 | 23.0 | 16.7 | 19.8 | 0.73 |
| Grand Bassa | 17.3 | 15.6 | 16.6 | 0.90 | 35.6 | 36.5 | 36.0 | 1.03 |
| Grand Cape Mount | 14.5 | 16.8 | 15.6 | 1.16 | 33.9 | 36.2 | 34.9 | 1.07 |
| Grand Gedeh | 15.9 | 13.6 | 14.9 | 0.86 | 37.0 | 31.0 | 34.4 | 0.84 |
| Grand Kru | 12.8 | 9.1 | 11.1 | 0.70 | 30.1 | 25.0 | 27.7 | 0.83 |
| Lofa | 8.6 | 13.6 | 10.9 | 1.58 | 27.5 | 31.7 | 29.5 | 1.15 |
| Margibi | 24.4 | 16.2 | 20.1 | 0.66 | 56.5 | 46.7 | 51.4 | 0.83 |
| Maryland | 19.8 | 19.7 | 19.7 | 1.00 | 56.5 | 53.6 | 55.1 | 0.95 |
| Montserrado | 44.4 | 39.7 | 41.9 | 0.89 | 79.8 | 71.2 | 75.2 | 0.89 |
| Nimba | 11.5 | 18.8 | 14.7 | 1.64 | 31.8 | 35.8 | 33.6 | 1.12 |
| River Cess | 11.4 | 9.1 | 10.4 | 0.80 | 31.9 | 24.5 | 28.8 | 0.77 |
| River Gee | 16.8 | 19.4 | 18.1 | 1.15 | 42.5 | 35.6 | 39.2 | 0.84 |
| Sinoe | 11.1 | 15.0 | 12.8 | 1.36 | 39.2 | 29.8 | 35.1 | 0.76 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 5.3 | 6.3 | 5.7 | 1.19 | 20.4 | 15.4 | 18.3 | 0.76 |
| Second | 10.3 | 8.8 | 9.6 | 0.85 | 31.1 | 28.7 | 30.0 | 0.92 |
| Middle | 16.4 | 17.5 | 16.9 | 1.07 | 41.4 | 37.6 | 39.6 | 0.91 |
| Fourth | 36.5 | 35.3 | 35.9 | 0.97 | 72.9 | 71.6 | 72.2 | 0.98 |
| Highest | 48.7 | 45.4 | 46.9 | 0.93 | 82.3 | 75.5 | 78.7 | 0.92 |
| Total | 24.9 | 26.2 | 25.5 | 1.05 | 51.8 | 51.4 | 51.6 | 0.99 |

${ }^{1}$ The NAR for primary school is the percentage of the primary school-age ( $6-11$ years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary school-age (12-17 years) population that is attending secondary school. By definition, the NAR cannot exceed 100.0.
${ }^{2}$ The GAR for primary school is the total number of primary school students, expressed as a percentage of the official primary school-age population. The GAR for secondary school is the total number of secondary school students, expressed as a percentage of the official secondary school-age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100.0.
${ }^{3}$ The gender parity index for primary school is the ratio of the primary school NAR (GAR) for females to the NAR (GAR) for males. The gender parity index for secondary school is the ratio of the secondary school NAR (GAR) for females to the NAR (GAR) for males.

## CHARACTERISTICS OF RESPONDENTS

## Key Findings

- Education: 16\% of women and 27\% of men age 15-49 have completed senior high or a higher level of education.
" Literacy: $52 \%$ of women and $75 \%$ of men age 15-49 are literate.
- Exposure to mass media: Only 1\% of women and 4\% of men have access to three specified types of mass media (newspaper, television, and radio) on a weekly basis.
- Employment: 61\% of women and $81 \%$ of men are currently employed.
- Health insurance: Health insurance coverage is low, with only $4 \%$ of women and $7 \%$ of men age 15-49 having any type of health insurance.
- Knowledge of tuberculosis: Knowledge of tuberculosis is high; $91 \%$ of women and $92 \%$ of men age $15-49$ have heard of tuberculosis.

This chapter presents information on the demographic and socioeconomic characteristics of the survey respondents such as age, religion, marital status, residence, region, education, and wealth status. The chapter also explores access to media and the internet, health insurance coverage, use of tobacco, employment status, occupation, and earnings. This information is useful for understanding the factors that affect use of reproductive health services, contraceptive use, and other health behaviors.

### 3.1 Basic Characteristics of Survey Respondents

The 2019-20 LDHS interviewed 8,065 women age 15-49 and 4,249 men age 15-59. Table 3.1 shows the percent distribution of women and men age 15-49 by background characteristics. More than half of Liberian women and men are under age 30 ( $56 \%$ of women and $55 \%$ of men).

Eighty-four percent of women and $83 \%$ of men are Christian. Fourteen percent of Liberian women and men are Muslim, and $1 \%$ practice no religion.

Nearly 4 in 10 women ( $39 \%$ ) and more than 4 in 10 men ( $44 \%$ ) have never been married. Twenty-six percent of women and $22 \%$ of men are currently married, while $27 \%$ of women and $28 \%$ of men are living with someone as if married. Female respondents are more likely than male respondents to be divorced or separated ( $7 \%$ versus $6 \%$ ) or widowed ( $2 \%$ versus $1 \%$ ).

More than half of women and men live in urban areas ( $62 \%$ and $61 \%$, respectively). South Central is the most populous region in Liberia. By county, the largest percentage of Liberians live in Montserrado (40\%), while the smallest percentages live in Gbarpolu, River Cess, and River Gee ( $1 \% \mathrm{each}$ ).

### 3.2 EdUCATION AND LITERACY

## Literacy

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

Tables 3.2.1 and 3.2.2 show that men have greater educational attainment than women; the median number of years of schooling completed among men is 6.6 , as compared with 4.8 among women. In addition, $31 \%$ of women have no formal education, compared with $13 \%$ of men. A tenth of women ( $10 \%$ ) and one-sixth ( $16 \%$ ) of men age 15-49 have completed senior high school. Advanced education is relatively uncommon; only $6 \%$ of women and $11 \%$ of men have completed education beyond the senior high school level (Figure 3.1). Overall, $16 \%$ of women and $27 \%$ of men age 15-49 have completed senior high or a higher level of education. About half of Liberian women (52\%) and three quarters of Liberian men ( $75 \%$ ) are literate (Tables 3.3.1 and 3.3.2).

Trends: The percentage of women age $15-49$ with no

Figure 3.1 Education of survey respondents

Percent distribution of women and men age 15-49 by highest level of schooling attended or completed
 education has decreased since 2007 , from $42 \%$ to $31 \%$. Over the same period, the median number of years of schooling completed has increased from 1.7 to 4.8 years. Among men age 15-49, the percentage with no education has decreased from $18 \%$ to $13 \%$, while the median number of years of education completed has increased from 5.8 to 6.6 years.

## Patterns by background characteristics

- Twenty-one percent of urban women have no education, as compared with $47 \%$ of rural women. Overall, $9 \%$ of urban women have completed education beyond senior high school, compared with $1 \%$ of rural women (Table 3.2.1).
- Montserrado County has the largest percentage of women and men ( $26 \%$ and $40 \%$, respectively) with a completed senior high or higher level of education. River Cess and Gbarpolu have the lowest percentage of women ( $2 \%$ each) who have completed senior high or higher, while River Cess has the lowest percentage of men who have reached this level of education (9\%) (Figure 3.2, Table 3.2.1, and Table 3.2.2).
- Educational attainment increases with increasing household wealth. A third of women ( $33 \%$ ) and almost half of men $(47 \%)$ in the highest wealth quintile have completed senior high or a higher level of education. In the lowest quintile, only $2 \%$ of women and $10 \%$ of men have completed senior high school or higher.
- Literacy among women decreases with age, from $72 \%$ among those age $15-19$ to $22 \%$ among those age 45-49 (Table 3.3.1).
- Urban Liberians are more likely than their rural counterparts to be literate. Sixty-three percent of urban women and $84 \%$ of urban men are literate, as compared with $34 \%$ of rural women and $61 \%$ of rural men (Tables 3.3.1 and 3.3.2).


### 3.3 Mass Media Exposure

## 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

Access to information is essential in increasing people's knowledge and awareness of important issues. Data on women's and men's exposure to mass media are especially crucial in the development of health education programs and the dissemination of information, particularly on family planning, nutrition, HIV/AIDS, and other essential topics.

Tables 3.4.1 and 3.4.2 show the percentages of women and men who are exposed to specific types of media, by background characteristics. The level of exposure to mass media is generally low in Liberia. Radio is the dominant medium of information for both women and men: $27 \%$ of women and $42 \%$ of men listen to the radio. Men are more likely ( $4 \%$ ) than women ( $1 \%$ ) to access all three forms of media (newspaper, television, and radio) on a weekly basis. Sixty-seven percent of women and $52 \%$ of men do not access any of the three media on a weekly basis (Figure 3.3).

The internet is also a critical tool through which people access and share information. Internet use includes

Figure 3.3 Exposure to mass media
Percentage of women and men age 15-49 who are exposed to media on a weekly basis
■ Women ■ Men
 accessing web pages, email, and social media. Among all women and men age 15-49, $22 \%$ and $36 \%$ have used the internet in the last 12 months, respectively. Of those who have accessed the internet in the past 12 months, more women ( $49 \%$ ) than men ( $43 \%$ ) use the internet almost daily (Tables 3.5.1 and 3.5.2).

Trends: Exposure to mass media has decreased over time. The percentage of women age 15-49 with no weekly access to mass media increased from $45 \%$ in 2007 to $67 \%$ in 2019-20. Among men, the percentage increased from $23 \%$ to $52 \%$.

## Patterns by background characteristics

- Urban women and men ( $2 \%$ and $7 \%$, respectively) are more likely than their rural counterparts (less than $1 \%$ and $1 \%$, respectively) to have accessed all three forms of mass media in the last week (Tables 3.4.1 and 3.4.2).
- The percentage of women who do not access any of the three media on a weekly basis decreases with increasing education, from $79 \%$ among those with no education to $27 \%$ among those with a higher education. The corresponding percentages among men are $78 \%$ and $12 \%$.
- The South Central region has the highest percentages of women (41\%) and men (65\%) who have ever used the internet (Tables 3.5.1 and 3.5.2).
- By county, Montserrado has the highest percentages of women and men who have used the internet in the past 12 months ( $41 \%$ and $64 \%$, respectively). Internet use is lowest in Gbarpolu and Lofa among women ( $4 \%$ each) and in Gbarpolu, Nimba, and River Cess among men ( $10 \%$ each).
- Liberians in the highest wealth quintile ( $55 \%$ of women and $77 \%$ of men) are more likely to have used the internet during the past 12 months than those in the lowest wealth quintile ( $2 \%$ of women and $4 \%$ of men).


### 3.4 Employment

## Currently employed

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

Men ( $81 \%$ ) are more likely than women ( $61 \%$ ) to be currently employed (Tables 3.6.1 and 3.6.2). Three percent of women and $4 \%$ of men were not currently employed but had worked in the past 12 months.

Trends: The percentage of women who are currently employed has fluctuated over time, decreasing from 59\% in 2007 to $55 \%$ in 2013 before increasing to $61 \%$ in 2019-20. Among men, the percentage currently employed decreased from $78 \%$ in 2007 to $72 \%$ in 2013 and subsequently increased to $81 \%$ in 2019-20.

## Patterns by background characteristics

- Employment increases with age, from 33\% among women age 15-19 to 83\% among those age 45-49 and from $54 \%$ among men age $15-19$ to $97 \%$ among those age 45-49.
- Women and men who are married or living together with a partner (73\% and 95\%, respectively) are more likely than those who have never been married ( $42 \%$ and $63 \%$, respectively) to be employed.
- Current employment is higher among rural Liberians than urban Liberians ( $67 \%$ versus $57 \%$ among women and $88 \%$ versus $76 \%$ among men).
- The percentage of women who are currently employed is highest in Gbarpolu (82\%) and lowest in Grand Cape Mount (48\%). Conversely, the percentage of men who are employed is highest in Nimba ( $97 \%$ ) and lowest in Maryland ( $66 \%$ ).
- Women ( $76 \%$ ) and men ( $96 \%$ ) with no education are more likely than their counterparts to be employed.
- Employment is lowest among women (50\%) and men (71\%) in the highest wealth quintile (Figure 3.4).


### 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 women who are currently employed or worked in the 12 months before the survey, one in two work in sales (52\%) and nearly two in five ( $38 \%$ ) work in agriculture. Forty-one percent of men work in agriculture, and $23 \%$ are engaged in skilled manual labor (Table 3.7.1, Table 3.7.2, and Figure 3.5).

Thirty-two percent of employed women in Liberia are not paid for the work they do. Women engaged in agricultural work ( $57 \%$ ) are more likely than women performing nonagricultural work ( $17 \%$ ) not to be paid for their work. Seventy-eight percent of women who worked in the past year are self-employed (Table 3.8).

Trends: The percentage of women working in agriculture decreased from $55 \%$ in 2007 to $38 \%$ in 2019 20. Among men, the percentage decreased from $53 \%$ to $41 \%$ over the same period.

## Patterns by background characteristics

- Urban women (68\%) are twice as likely as rural

Figure 3.5 Occupation
Percentage of women and men age 15-49 employed in the 12 months before the survey by occupation
 women $(30 \%)$ to work in sales and services, while urban men ( $32 \%$ ) are three times more likely than their rural counterparts ( $10 \%$ ) to perform skilled manual labor. Rural women ( $66 \%$ ) and rural men ( $69 \%$ ) are more likely than urban women (18\%) and men (21\%) to be engaged in the agricultural sector (Tables 3.7.1 and 3.7.2).

- Women and men with no education ( $56 \%$ and $66 \%$, respectively) are more likely than those with education beyond senior high school ( $2 \%$ and $4 \%$, respectively) to work in the agricultural sector.
- The percentages of men and women employed in professional/technical/managerial and clerical occupations rise with increasing wealth.


### 3.6 Health Insurance Coverage

Only $4 \%$ of women and $7 \%$ of men age 15-49 have health insurance. Among those with insurance, most women and men ( $3 \%$ and 5\%, respectively) have employer-based insurance (Tables 3.9.1 and 3.9.2).

Trends: Since 2013, the percentage of uninsured Liberians has remained the same ( $96 \%$ among women and $93 \%$ among men).

### 3.7 Tobacco Use

One percent of women age 15-49 smoke any kind of tobacco (Table 3.10.1), as compared with $7 \%$ of men (Table 3.10.2). Four percent of men smoke daily, and $4 \%$ are occasional smokers. Three out of five men $(61 \%)$ who are daily smokers reported that they smoke on average less than five cigarettes per day (data not shown). Three percent of men use smokeless tobacco (Table 3.11).

Trends: The percentage of men age 15-49 who smoke any type of tobacco declined from $15 \%$ in 2007 to $7 \%$ in 2019-20.

## Patterns by background characteristics

- The percentage of men who smoke any type of tobacco increases from $2 \%$ among those age $15-19$ to $16 \%$ among those age 45-49.
- By county, cigarette smoking ranges from $3 \%$ in Margibi and Maryland to $15 \%$ in Grand Cape Mount.
- Tobacco use varies by education, from a high of $16 \%$ among men with no education to a low of $4 \%$ among men who have attained a higher education.


### 3.8 Knowledge of Tuberculosis

Ninety-one percent of women and $92 \%$ of men age 15-49 have heard of tuberculosis (TB). Among those have heard of TB, $61 \%$ of women and $58 \%$ of men report hemoptysis as a common symptom of TB, $48 \%$ of women and $62 \%$ of men report coughing for more than 2 weeks, and $18 \%$ of women and $27 \%$ of men report chest pain. Additionally, $79 \%$ of women and $80 \%$ of men believe that TB can be cured, and $86 \%$ of women and $88 \%$ of men would not keep it a secret if a family member was diagnosed with TB (Tables 3.12.1 and 3.12.2).

### 3.9 Possession of Identity Documents

Three out of four women and men ( $75 \%$ each) age $15-49$ possess a form of identification document (ID). A voter card is the most common form of ID among both women and men ( $93 \%$ and $90 \%$, respectively). Only $11 \%$ of women and $16 \%$ of men possess a national ID. Twenty-one percent of women and $32 \%$ of men have a birth certificate. The proportion of women and men with a birth certificate increases with increasing wealth. Among women the percentage increases from $6 \%$ among those in the lowest wealth quintile to $43 \%$ among those in the highest wealth quintile. Among men, possession of a birth certificate increases from $13 \%$ in the lowest wealth quintile to $54 \%$ in the highest quintile (Tables 3.13.1 and 3.13.2).

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## Table 3.1 Background characteristics of respondents

Percent distribution of women and men age 15-49 by selected background characteristics, Liberia DHS 2019-20

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Age |  |  |  |  |  |  |
| 15-19 | 20.5 | 1,657 | 1,716 | 22.9 | 876 | 885 |
| 20-24 | 18.7 | 1,506 | 1,408 | 17.2 | 658 | 596 |
| 25-29 | 17.0 | 1,375 | 1,202 | 14.6 | 558 | 459 |
| 30-34 | 13.8 | 1,112 | 1,052 | 12.9 | 494 | 482 |
| 35-39 | 12.6 | 1,020 | 1,103 | 12.8 | 487 | 488 |
| 40-44 | 9.5 | 769 | 857 | 10.9 | 418 | 456 |
| 45-49 | 7.8 | 626 | 727 | 8.6 | 330 | 394 |
| Religion |  |  |  |  |  |  |
| Christian | 84.0 | 6,776 | 6,878 | 83.1 | 3,175 | 3,114 |
| Muslim | 14.3 | 1,153 | 1,046 | 13.8 | 527 | 484 |
| Traditional religion | 0.4 | 31 | 42 | 2.0 | 75 | 108 |
| No religion | 1.2 | 100 | 98 | 1.1 | 41 | 50 |
| Other | 0.1 | 4 | 1 | 0.1 | 2 | 4 |
| Marital status |  |  |  |  |  |  |
| Never married | 38.8 | 3,129 | 2,621 | 44.1 | 1,684 | 1,537 |
| Married | 25.6 | 2,067 | 2,315 | 21.7 | 831 | 934 |
| Living together | 26.6 | 2,149 | 2,339 | 28.1 | 1,075 | 1,090 |
| Divorced/separated | 7.2 | 584 | 645 | 5.5 | 211 | 184 |
| Widowed | 1.7 | 137 | 145 | 0.5 | 20 | 15 |
| Residence |  |  |  |  |  |  |
| Urban | 62.3 | 5,023 | 3,338 | 60.5 | 2,313 | 1,434 |
| Greater Monrovia | 35.5 | 2,866 | 917 | 35.8 | 1,368 | 385 |
| Other urban | 26.7 | 2,157 | 2,421 | 24.7 | 944 | 1,049 |
| Rural | 37.7 | 3,042 | 4,727 | 39.5 | 1,508 | 2,326 |
| Region |  |  |  |  |  |  |
| North Western | 7.7 | 621 | 1,158 | 7.9 | 301 | 508 |
| South Central | 50.9 | 4,105 | 2,301 | 50.6 | 1,932 | 1,016 |
| South Eastern A | 5.7 | 458 | 1,195 | 6.7 | 254 | 665 |
| South Eastern B | 5.5 | 441 | 1,486 | 5.9 | 226 | 741 |
| North Central | 30.2 | 2,439 | 1,925 | 29.0 | 1,107 | 830 |
| County |  |  |  |  |  |  |
| Bomi | 3.1 | 249 | 401 | 3.1 | 118 | 161 |
| Bong | 9.9 | 796 | 671 | 8.5 | 324 | 257 |
| Gbarpolu | 1.4 | 112 | 337 | 1.4 | 53 | 160 |
| Grand Bassa | 5.8 | 467 | 543 | 5.2 | 197 | 233 |
| Grand Cape Mount | 3.2 | 260 | 420 | 3.4 | 130 | 187 |
| Grand Gedeh | 2.1 | 172 | 384 | 2.4 | 92 | 210 |
| Grand Kru | 1.7 | 136 | 449 | 1.7 | 67 | 213 |
| Lofa | 8.2 | 658 | 581 | 7.5 | 287 | 240 |
| Margibi | 5.5 | 441 | 539 | 5.5 | 209 | 260 |
| Maryland | 2.7 | 215 | 574 | 2.9 | 110 | 281 |
| Montserrado | 39.6 | 3,197 | 1,219 | 39.9 | 1,525 | 523 |
| Nimba | 12.2 | 985 | 673 | 13.0 | 496 | 333 |
| River Cess | 1.3 | 104 | 365 | 1.4 | 52 | 192 |
| River Gee | 1.1 | 91 | 463 | 1.3 | 50 | 247 |
| Sinoe | 2.3 | 182 | 446 | 2.9 | 110 | 263 |
| Education |  |  |  |  |  |  |
| No education | 30.7 | 2,474 | 2,985 | 13.0 | 498 | 613 |
| Elementary | 23.7 | 1,911 | 2,389 | 23.0 | 877 | 1,114 |
| Junior high | 17.9 | 1,445 | 1,329 | 19.3 | 738 | 800 |
| Senior high | 21.8 | 1,761 | 1,117 | 34.1 | 1,303 | 986 |
| Higher | 5.9 | 474 | 245 | 10.6 | 405 | 247 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 17.1 | 1,379 | 2,104 | 17.2 | 657 | 970 |
| Second | 17.7 | 1,431 | 2,029 | 17.3 | 663 | 965 |
| Middle | 18.8 | 1,517 | 1,723 | 19.4 | 743 | 816 |
| Fourth | 22.7 | 1,829 | 1,242 | 21.9 | 838 | 537 |
| Highest | 23.7 | 1,910 | 967 | 24.1 | 920 | 472 |
| Total 15-49 | 100.0 | 8,065 | 8,065 | 100.0 | 3,821 | 3,760 |
| 50-59 | na | na | na | na | 428 | 489 |
| Total 15-59 | na | na | na | na | 4,249 | 4,249 |

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, Liberia DHS 2019-20

| Background characteristic | Highest level of schooling |  |  |  |  |  |  |  | Total | Median years completed | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some elementary | Completed elementary ${ }^{1}$ | Some junior high | Completed junior high ${ }^{2}$ | Some senior high | Completed senior high ${ }^{3}$ | Higher |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 12.5 | 27.3 | 4.2 | 4.2 | 24.1 | 8.4 | 15.8 | 3.5 | 100.0 | 5.7 | 3,163 |
| 15-19 | 10.4 | 34.8 | 5.3 | 4.2 | 29.3 | 2.9 | 12.2 | 0.8 | 100.0 | 5.3 | 1,657 |
| 20-24 | 14.8 | 18.9 | 3.0 | 4.1 | 18.4 | 14.5 | 19.8 | 6.6 | 100.0 | 6.4 | 1,506 |
| 25-29 | 24.5 | 15.4 | 3.1 | 2.8 | 13.0 | 21.7 | 10.3 | 9.3 | 100.0 | 6.1 | 1,375 |
| 30-34 | 34.7 | 14.2 | 2.7 | 1.7 | 11.2 | 18.0 | 7.4 | 10.1 | 100.0 | 5.2 | 1,112 |
| 35-39 | 51.1 | 18.3 | 3.8 | 2.6 | 5.0 | 9.2 | 4.0 | 6.0 | 100.0 | 0.0 | 1,020 |
| 40-44 | 57.2 | 13.8 | 2.3 | 1.9 | 8.0 | 9.0 | 2.8 | 4.9 | 100.0 | 0.0 | 769 |
| 45-49 | 63.1 | 17.9 | 2.3 | 0.2 | 5.5 | 5.2 | 2.0 | 3.7 | 100.0 | 0.0 | 626 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 21.0 | 15.2 | 3.2 | 3.9 | 16.7 | 17.5 | 13.4 | 9.1 | 100.0 | 6.3 | 5,023 |
| Greater Monrovia | 17.2 | 9.7 | 2.4 | 4.8 | 14.5 | 23.7 | 15.0 | 12.6 | 100.0 | 7.3 | 2,866 |
| Other urban | 26.1 | 22.6 | 4.2 | 2.7 | 19.6 | 9.2 | 11.3 | 4.3 | 100.0 | 5.1 | 2,157 |
| Rural | 46.6 | 28.6 | 3.8 | 1.1 | 12.3 | 2.7 | 4.1 | 0.6 | 100.0 | 0.7 | 3,042 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 48.9 | 20.0 | 5.8 | 1.1 | 14.4 | 4.1 | 4.5 | 1.1 | 100.0 | 0.0 | 621 |
| South Central | 22.2 | 14.8 | 2.4 | 3.8 | 15.3 | 18.5 | 13.3 | 9.6 | 100.0 | 6.4 | 4,105 |
| South Eastern A | 37.1 | 34.0 | 3.2 | 1.9 | 13.8 | 3.6 | 5.0 | 1.3 | 100.0 | 2.5 | 458 |
| South Eastern B | 37.7 | 27.8 | 4.3 | 1.7 | 14.3 | 5.8 | 6.3 | 2.0 | 100.0 | 2.9 | 441 |
| North Central | 37.9 | 25.6 | 4.3 | 2.1 | 15.1 | 5.5 | 7.1 | 2.4 | 100.0 | 3.1 | 2,439 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 43.2 | 18.7 | 7.2 | 0.8 | 14.8 | 5.1 | 7.9 | 2.3 | 100.0 | 2.7 | 249 |
| Bong | 40.8 | 24.3 | 5.2 | 3.4 | 9.5 | 5.5 | 6.6 | 4.7 | 100.0 | 2.3 | 796 |
| Gbarpolu | 50.6 | 29.5 | 6.4 | 2.1 | 7.4 | 2.1 | 1.1 | 0.8 | 100.0 | 0.0 | 112 |
| Grand Bassa | 41.6 | 27.9 | 3.6 | 1.2 | 15.2 | 2.1 | 6.4 | 2.0 | 100.0 | 1.4 | 467 |
| Grand Cape Mount | 53.6 | 17.1 | 4.2 | 1.0 | 17.0 | 4.1 | 2.8 | 0.2 | 100.0 | 0.0 | 260 |
| Grand Gedeh | 33.2 | 32.8 | 4.3 | 2.4 | 13.8 | 6.0 | 5.4 | 2.0 | 100.0 | 3.5 | 172 |
| Grand Kru | 41.4 | 33.0 | 4.5 | 1.4 | 13.6 | 3.5 | 2.5 | 0.1 | 100.0 | 2.2 | 136 |
| Lofa | 49.8 | 21.4 | 2.6 | 1.4 | 13.8 | 4.7 | 5.5 | 0.7 | 100.0 | 0.0 | 658 |
| Margibi | 31.6 | 26.2 | 1.9 | 1.0 | 16.6 | 9.8 | 10.1 | 2.9 | 100.0 | 3.5 | 441 |
| Maryland | 36.9 | 23.6 | 2.5 | 1.4 | 13.5 | 8.4 | 9.7 | 4.0 | 100.0 | 3.4 | 215 |
| Montserrado | 18.1 | 11.3 | 2.4 | 4.6 | 15.2 | 22.1 | 14.8 | 11.6 | 100.0 | 7.1 | 3,197 |
| Nimba | 27.6 | 29.5 | 4.7 | 1.5 | 20.5 | 6.0 | 8.6 | 1.7 | 100.0 | 4.4 | 985 |
| River Cess | 44.9 | 36.1 | 3.5 | 1.3 | 10.7 | 1.6 | 1.2 | 0.6 | 100.0 | 1.1 | 104 |
| River Gee | 34.0 | 30.0 | 8.5 | 2.6 | 17.5 | 3.1 | 4.0 | 0.3 | 100.0 | 3.3 | 91 |
| Sinoe | 36.3 | 34.0 | 2.0 | 1.7 | 15.5 | 2.6 | 6.8 | 1.1 | 100.0 | 2.4 | 182 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 54.3 | 29.1 | 4.0 | 1.2 | 8.6 | 1.0 | 1.6 | 0.2 | 100.0 | 0.0 | 1,379 |
| Second | 43.5 | 30.7 | 3.5 | 0.9 | 14.7 | 2.5 | 4.2 | 0.1 | 100.0 | 1.8 | 1,431 |
| Middle | 32.6 | 24.3 | 4.3 | 2.1 | 18.1 | 7.5 | 9.7 | 1.3 | 100.0 | 4.2 | 1,517 |
| Fourth | 20.9 | 13.5 | 3.0 | 5.6 | 20.1 | 15.4 | 16.6 | 4.9 | 100.0 | 6.3 | 1,829 |
| Highest | 11.9 | 9.5 | 2.6 | 3.5 | 12.6 | 27.1 | 14.0 | 18.9 | 100.0 | 7.9 | 1,910 |
| Total | 30.7 | 20.3 | 3.4 | 2.9 | 15.0 | 11.9 | 9.9 | 5.9 | 100.0 | 4.8 | 8,065 |

[^4]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, Liberia DHS 2019-20

| Background characteristic | Highest level of schooling |  |  |  |  |  |  |  | Total | Median years completed | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No education | Some elementary | Completed elementary ${ }^{1}$ | Some junior high | Completed junior high ${ }^{2}$ | Some senior high | Completed senior high ${ }^{3}$ | Higher |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 6.8 | 29.2 | 3.6 | 3.4 | 23.2 | 10.6 | 19.8 | 3.2 | 100.0 | 6.1 | 1,533 |
| 15-19 | 7.2 | 43.3 | 3.9 | 4.0 | 25.6 | 0.9 | 14.7 | 0.6 | 100.0 | 5.0 | 876 |
| 20-24 | 6.4 | 10.5 | 3.2 | 2.8 | 20.1 | 23.7 | 26.6 | 6.8 | 100.0 | 7.3 | 658 |
| 25-29 | 12.6 | 11.0 | 2.4 | 2.6 | 13.7 | 26.4 | 17.7 | 13.7 | 100.0 | 7.4 | 558 |
| 30-34 | 10.4 | 12.8 | 1.8 | 1.9 | 10.8 | 27.4 | 16.9 | 18.0 | 100.0 | 7.8 | 494 |
| 35-39 | 18.6 | 15.8 | 3.5 | 1.9 | 11.9 | 19.1 | 12.4 | 16.8 | 100.0 | 6.9 | 487 |
| 40-44 | 19.1 | 18.0 | 2.4 | 2.0 | 10.7 | 21.8 | 12.1 | 14.0 | 100.0 | 6.7 | 418 |
| 45-49 | 30.5 | 12.8 | 1.9 | 1.5 | 15.0 | 14.6 | 8.7 | 15.0 | 100.0 | 6.0 | 330 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 7.4 | 15.1 | 1.3 | 2.7 | 15.3 | 22.5 | 20.0 | 15.7 | 100.0 | 7.4 | 2,313 |
| Greater Monrovia | 5.3 | 11.1 | 0.6 | 2.7 | 12.3 | 27.1 | 21.4 | 19.5 | 100.0 | 7.9 | 1,368 |
| Other urban | 10.4 | 20.9 | 2.2 | 2.8 | 19.7 | 15.9 | 18.0 | 10.1 | 100.0 | 6.9 | 944 |
| Rural | 21.7 | 27.7 | 5.4 | 2.4 | 18.8 | 10.4 | 10.8 | 2.8 | 100.0 | 5.1 | 1,508 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 26.3 | 20.8 | 6.4 | 2.9 | 18.0 | 11.3 | 9.8 | 4.5 | 100.0 | 5.3 | 301 |
| South Central | 8.0 | 14.7 | 1.1 | 2.3 | 13.7 | 23.5 | 19.9 | 16.9 | 100.0 | 7.5 | 1,932 |
| South Eastern A | 12.9 | 30.7 | 4.9 | 3.1 | 20.9 | 11.3 | 11.6 | 4.6 | 100.0 | 5.5 | 254 |
| South Eastern B | 14.7 | 27.1 | 6.7 | 3.1 | 20.1 | 11.2 | 11.8 | 5.2 | 100.0 | 5.6 | 226 |
| North Central | 17.9 | 25.4 | 3.9 | 2.9 | 20.0 | 12.1 | 14.0 | 3.7 | 100.0 | 5.6 | 1,107 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 20.5 | 17.5 | 4.8 | 2.6 | 21.5 | 14.6 | 11.1 | 7.5 | 100.0 | 6.3 | 118 |
| Bong | 19.4 | 26.5 | 6.6 | 4.9 | 15.7 | 9.6 | 12.3 | 5.0 | 100.0 | 5.5 | 324 |
| Gbarpolu | 21.1 | 28.4 | 5.2 | 3.2 | 20.7 | 8.4 | 9.0 | 4.0 | 100.0 | 5.0 | 53 |
| Grand Bassa | 20.7 | 32.2 | 1.3 | 2.0 | 15.9 | 8.3 | 13.8 | 5.8 | 100.0 | 4.6 | 197 |
| Grand Cape Mount | 33.7 | 20.6 | 8.3 | 3.0 | 13.8 | 9.5 | 9.1 | 1.9 | 100.0 | 4.5 | 130 |
| Grand Gedeh | 13.9 | 27.1 | 3.7 | 2.1 | 20.5 | 12.8 | 13.5 | 6.4 | 100.0 | 6.0 | 92 |
| Grand Kru | 12.7 | 30.1 | 3.3 | 2.4 | 26.9 | 10.5 | 9.2 | 4.8 | 100.0 | 5.4 | 67 |
| Lofa | 24.5 | 23.5 | 3.1 | 3.2 | 15.9 | 15.7 | 11.7 | 2.5 | 100.0 | 5.3 | 287 |
| Margibi | 13.4 | 20.9 | 2.8 | 1.3 | 17.1 | 15.4 | 14.7 | 14.4 | 100.0 | 6.7 | 209 |
| Maryland | 16.8 | 25.6 | 8.4 | 2.7 | 16.1 | 9.0 | 14.0 | 7.4 | 100.0 | 5.5 | 110 |
| Montserrado | 5.6 | 11.5 | 0.8 | 2.4 | 12.9 | 26.6 | 21.4 | 18.7 | 100.0 | 7.8 | 1,525 |
| Nimba | 13.1 | 25.8 | 2.6 | 1.4 | 25.3 | 11.8 | 16.5 | 3.5 | 100.0 | 5.8 | 496 |
| River Cess | 10.6 | 37.3 | 7.8 | 3.9 | 23.4 | 7.4 | 6.6 | 2.8 | 100.0 | 5.2 | 52 |
| River Gee | 12.6 | 26.6 | 7.8 | 5.0 | 19.8 | 16.9 | 10.5 | 0.8 | 100.0 | 6.1 | 50 |
| Sinoe | 13.1 | 30.5 | 4.5 | 3.7 | 19.9 | 11.9 | 12.4 | 4.0 | 100.0 | 5.4 | 110 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 29.5 | 28.5 | 5.8 | 2.2 | 18.0 | 6.1 | 9.2 | 0.7 | 100.0 | 3.9 | 657 |
| Second | 18.3 | 29.0 | 4.7 | 2.7 | 21.7 | 10.5 | 10.7 | 2.2 | 100.0 | 5.2 | 663 |
| Middle | 13.0 | 24.7 | 3.9 | 2.3 | 16.2 | 15.4 | 19.4 | 5.0 | 100.0 | 6.1 | 743 |
| Fourth | 8.1 | 13.8 | 0.9 | 2.7 | 17.5 | 24.5 | 21.2 | 11.3 | 100.0 | 7.2 | 838 |
| Highest | 1.9 | 9.5 | 0.5 | 2.9 | 11.8 | 26.9 | 18.9 | 27.6 | 100.0 | 8.2 | 920 |
| Total 15-49 | 13.0 | 20.1 | 2.9 | 2.6 | 16.7 | 17.7 | 16.4 | 10.6 | 100.0 | 6.6 | 3,821 |
| 50-59 | 24.0 | 16.6 | 2.7 | 3.6 | 10.7 | 17.7 | 11.4 | 13.4 | 100.0 | 6.3 | 428 |
| Total 15-59 | 14.1 | 19.7 | 2.9 | 2.7 | 16.1 | 17.7 | 15.9 | 10.9 | 100.0 | 6.6 | 4,249 |

[^5]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, Liberia DHS 2019-20

| Background characteristic | Higher than senior high school | No schooling, elementary, junior high, or senior high school |  |  |  |  | Total | Percentage literate ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 3.5 | 41.6 | 24.0 | 30.7 | 0.1 | 0.1 | 100.0 | 69.1 | 3,163 |
| 15-19 | 0.8 | 44.5 | 26.6 | 27.9 | 0.1 | 0.1 | 100.0 | 71.9 | 1,657 |
| 20-24 | 6.6 | 38.3 | 21.1 | 33.8 | 0.2 | 0.0 | 100.0 | 66.0 | 1,506 |
| 25-29 | 9.3 | 33.1 | 15.9 | 41.7 | 0.0 | 0.1 | 100.0 | 58.2 | 1,375 |
| 30-34 | 10.1 | 22.7 | 14.7 | 52.0 | 0.5 | 0.0 | 100.0 | 47.5 | 1,112 |
| 35-39 | 6.0 | 13.5 | 13.4 | 66.9 | 0.2 | 0.0 | 100.0 | 32.9 | 1,020 |
| 40-44 | 4.9 | 12.4 | 9.7 | 72.9 | 0.0 | 0.0 | 100.0 | 27.1 | 769 |
| 45-49 | 3.7 | 8.7 | 9.3 | 78.2 | 0.0 | 0.0 | 100.0 | 21.7 | 626 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 9.1 | 36.6 | 17.5 | 36.6 | 0.2 | 0.0 | 100.0 | 63.2 | 5,023 |
| Greater Monrovia | 12.6 | 40.2 | 15.9 | 31.1 | 0.1 | 0.1 | 100.0 | 68.7 | 2,866 |
| Other urban | 4.3 | 31.9 | 19.6 | 43.8 | 0.3 | 0.0 | 100.0 | 55.8 | 2,157 |
| Rural | 0.6 | 15.4 | 17.5 | 66.4 | 0.1 | 0.0 | 100.0 | 33.5 | 3,042 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 1.1 | 21.7 | 19.8 | 57.2 | 0.0 | 0.1 | 100.0 | 42.7 | 621 |
| South Central | 9.6 | 36.1 | 16.6 | 37.6 | 0.1 | 0.1 | 100.0 | 62.3 | 4,105 |
| South Eastern A | 1.3 | 23.6 | 15.1 | 59.8 | 0.1 | 0.0 | 100.0 | 40.1 | 458 |
| South Eastern B | 2.0 | 24.1 | 22.1 | 51.7 | 0.0 | 0.1 | 100.0 | 48.2 | 441 |
| North Central | 2.4 | 19.7 | 17.9 | 59.6 | 0.3 | 0.0 | 100.0 | 40.0 | 2,439 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 2.3 | 31.6 | 14.0 | 52.0 | 0.0 | 0.0 | 100.0 | 48.0 | 249 |
| Bong | 4.7 | 20.5 | 20.2 | 54.6 | 0.0 | 0.0 | 100.0 | 45.4 | 796 |
| Gbarpolu | 0.8 | 9.6 | 18.7 | 70.7 | 0.0 | 0.1 | 100.0 | 29.1 | 112 |
| Grand Bassa | 2.0 | 18.9 | 15.3 | 63.8 | 0.0 | 0.0 | 100.0 | 36.2 | 467 |
| Grand Cape Mount | 0.2 | 17.5 | 25.8 | 56.4 | 0.0 | 0.1 | 100.0 | 43.5 | 260 |
| Grand Gedeh | 2.0 | 23.8 | 18.9 | 55.1 | 0.3 | 0.0 | 100.0 | 44.6 | 172 |
| Grand Kru | 0.1 | 13.4 | 19.2 | 66.9 | 0.0 | 0.3 | 100.0 | 32.8 | 136 |
| Lofa | 0.7 | 13.6 | 15.3 | 70.3 | 0.1 | 0.0 | 100.0 | 29.6 | 658 |
| Margibi | 2.9 | 29.1 | 17.9 | 50.1 | 0.0 | 0.0 | 100.0 | 49.9 | 441 |
| Maryland | 4.0 | 29.4 | 23.6 | 43.0 | 0.0 | 0.0 | 100.0 | 57.0 | 215 |
| Montserrado | 11.6 | 39.5 | 16.7 | 32.0 | 0.1 | 0.1 | 100.0 | 67.8 | 3,197 |
| Nimba | 1.7 | 23.1 | 17.9 | 56.6 | 0.8 | 0.0 | 100.0 | 42.7 | 985 |
| River Cess | 0.6 | 25.9 | 14.1 | 59.5 | 0.0 | 0.0 | 100.0 | 40.5 | 104 |
| River Gee | 0.3 | 27.2 | 22.8 | 49.7 | 0.0 | 0.0 | 100.0 | 50.3 | 91 |
| Sinoe | 1.1 | 22.2 | 12.2 | 64.5 | 0.0 | 0.0 | 100.0 | 35.5 | 182 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.2 | 9.3 | 14.2 | 75.7 | 0.5 | 0.0 | 100.0 | 23.7 | 1,379 |
| Second | 0.1 | 14.2 | 17.8 | 67.9 | 0.0 | 0.0 | 100.0 | 32.1 | 1,431 |
| Middle | 1.3 | 27.7 | 21.7 | 49.4 | 0.0 | 0.0 | 100.0 | 50.6 | 1,517 |
| Fourth | 4.9 | 38.2 | 20.5 | 36.2 | 0.1 | 0.0 | 100.0 | 63.7 | 1,829 |
| Highest | 18.9 | 45.0 | 13.4 | 22.4 | 0.2 | 0.1 | 100.0 | 77.3 | 1,910 |
| Total | 5.9 | 28.6 | 17.5 | 47.8 | 0.1 | 0.0 | 100.0 | 52.0 | 8,065 |

${ }^{1}$ Refers to women who attended schooling higher than senior high school and women 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, Liberia DHS 2019-20

| Background characteristic | Higher than senior high school | No schooling, elementary, junior high, or senior high school |  |  |  |  | Total | Percentage literate ${ }^{1}$ | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Can read a whole sentence | Can read part of a sentence | Cannot read at all | No card with required language | Blind/ visually impaired |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 3.2 | 56.7 | 20.4 | 19.2 | 0.3 | 0.1 | 100.0 | 80.3 | 1,533 |
| 15-19 | 0.6 | 53.6 | 23.5 | 22.2 | 0.0 | 0.2 | 100.0 | 77.6 | 876 |
| 20-24 | 6.8 | 60.7 | 16.4 | 15.3 | 0.8 | 0.0 | 100.0 | 83.9 | 658 |
| 25-29 | 13.7 | 45.0 | 14.3 | 27.0 | 0.0 | 0.0 | 100.0 | 73.0 | 558 |
| 30-34 | 18.0 | 43.5 | 18.4 | 19.8 | 0.0 | 0.4 | 100.0 | 79.9 | 494 |
| 35-39 | 16.8 | 36.3 | 18.7 | 28.2 | 0.0 | 0.0 | 100.0 | 71.8 | 487 |
| 40-44 | 14.0 | 38.6 | 16.7 | 29.7 | 0.1 | 1.0 | 100.0 | 69.2 | 418 |
| 45-49 | 15.0 | 29.5 | 14.3 | 41.1 | 0.0 | 0.0 | 100.0 | 58.9 | 330 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 15.7 | 53.3 | 15.0 | 15.4 | 0.2 | 0.3 | 100.0 | 84.0 | 2,313 |
| Greater Monrovia | 19.5 | 55.4 | 13.4 | 10.9 | 0.4 | 0.6 | 100.0 | 88.2 | 1,368 |
| Other urban | 10.1 | 50.3 | 17.5 | 22.1 | 0.0 | 0.0 | 100.0 | 77.9 | 944 |
| Rural | 2.8 | 35.7 | 22.8 | 38.7 | 0.0 | 0.0 | 100.0 | 61.3 | 1,508 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 4.5 | 38.2 | 18.0 | 39.3 | 0.0 | 0.0 | 100.0 | 60.7 | 301 |
| South Central | 16.9 | 53.0 | 14.0 | 15.4 | 0.3 | 0.4 | 100.0 | 83.9 | 1,932 |
| South Eastern A | 4.6 | 38.9 | 21.8 | 34.6 | 0.0 | 0.0 | 100.0 | 65.4 | 254 |
| South Eastern B | 5.2 | 46.1 | 18.1 | 30.4 | 0.1 | 0.0 | 100.0 | 69.4 | 226 |
| North Central | 3.7 | 38.8 | 24.4 | 33.2 | 0.0 | 0.0 | 100.0 | 66.8 | 1,107 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 7.5 | 46.7 | 11.5 | 34.3 | 0.0 | 0.0 | 100.0 | 65.7 | 118 |
| Bong | 5.0 | 41.6 | 20.5 | 32.8 | 0.0 | 0.0 | 100.0 | 67.2 | 324 |
| Gbarpolu | 4.0 | 29.5 | 30.7 | 35.8 | 0.0 | 0.0 | 100.0 | 64.2 | 53 |
| Grand Bassa | 5.8 | 40.5 | 14.2 | 39.6 | 0.0 | 0.0 | 100.0 | 60.4 | 197 |
| Grand Cape Mount | 1.9 | 34.1 | 18.7 | 45.2 | 0.0 | 0.0 | 100.0 | 54.8 | 130 |
| Grand Gedeh | 6.4 | 27.1 | 31.0 | 35.6 | 0.0 | 0.0 | 100.0 | 64.4 | 92 |
| Grand Kru | 4.8 | 38.6 | 29.9 | 26.2 | 0.5 | 0.0 | 100.0 | 73.3 | 67 |
| Lofa | 2.5 | 31.0 | 26.1 | 40.5 | 0.0 | 0.0 | 100.0 | 59.5 | 287 |
| Margibi | 14.4 | 48.3 | 13.8 | 23.5 | 0.0 | 0.0 | 100.0 | 76.5 | 209 |
| Maryland | 7.4 | 51.6 | 8.2 | 32.9 | 0.0 | 0.0 | 100.0 | 67.1 | 110 |
| Montserrado | 18.7 | 55.2 | 14.1 | 11.2 | 0.3 | 0.5 | 100.0 | 88.0 | 1,525 |
| Nimba | 3.5 | 41.4 | 25.8 | 29.3 | 0.0 | 0.0 | 100.0 | 70.7 | 496 |
| River Cess | 2.8 | 47.7 | 19.6 | 29.8 | 0.0 | 0.0 | 100.0 | 70.2 | 52 |
| River Gee | 0.8 | 44.1 | 24.4 | 30.7 | 0.0 | 0.0 | 100.0 | 69.3 | 50 |
| Sinoe | 4.0 | 44.7 | 15.1 | 36.1 | 0.0 | 0.0 | 100.0 | 63.9 | 110 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 0.7 | 29.3 | 21.0 | 49.0 | 0.1 | 0.0 | 100.0 | 50.9 | 657 |
| Second | 2.2 | 34.3 | 25.5 | 38.0 | 0.0 | 0.0 | 100.0 | 62.0 | 663 |
| Middle | 5.0 | 45.6 | 21.6 | 27.8 | 0.0 | 0.0 | 100.0 | 72.2 | 743 |
| Fourth | 11.3 | 59.3 | 15.0 | 12.9 | 0.6 | 0.9 | 100.0 | 85.5 | 838 |
| Highest | 27.6 | 56.0 | 10.8 | 5.7 | 0.0 | 0.0 | 100.0 | 94.3 | 920 |
| Total 15-49 | 10.6 | 46.3 | 18.1 | 24.6 | 0.1 | 0.2 | 100.0 | 75.0 | 3,821 |
| 50-59 | 13.4 | 33.4 | 20.8 | 32.4 | 0.0 | 0.0 | 100.0 | 67.6 | 428 |
| Total 15-59 | 10.9 | 45.0 | 18.4 | 25.4 | 0.1 | 0.2 | 100.0 | 74.3 | 4,249 |

${ }^{1}$ Refers to men who attended schooling higher than senior high school and men 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, Liberia DHS 2019-20

| Background characteristic | Reads a newspaper at least once a week | Watches television at least once a week | Listens to the radio at least once a week | Accesses all three media at least once a week | Accesses none of the three media at least once a week | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |
| 15-19 | 1.9 | 14.6 | 20.1 | 0.4 | 72.0 | 1,657 |
| 20-24 | 2.1 | 18.7 | 26.8 | 0.5 | 65.2 | 1,506 |
| 25-29 | 1.5 | 20.6 | 30.8 | 0.7 | 62.0 | 1,375 |
| 30-34 | 2.5 | 17.0 | 25.9 | 1.6 | 66.8 | 1,112 |
| 35-39 | 1.7 | 18.4 | 30.2 | 1.0 | 65.5 | 1,020 |
| 40-44 | 1.7 | 12.3 | 30.4 | 1.4 | 66.3 | 769 |
| 45-49 | 3.6 | 11.3 | 23.4 | 3.0 | 71.8 | 626 |
| Residence |  |  |  |  |  |  |
| Urban | 2.9 | 24.7 | 32.0 | 1.5 | 58.4 | 5,023 |
| Greater Monrovia | 3.8 | 33.7 | 36.5 | 2.3 | 50.7 | 2,866 |
| Other urban | 1.7 | 12.7 | 25.9 | 0.5 | 68.7 | 2,157 |
| Rural | 0.6 | 3.6 | 17.4 | 0.2 | 81.0 | 3,042 |
| Region |  |  |  |  |  |  |
| North Western | 0.8 | 6.3 | 19.3 | 0.3 | 77.1 | 621 |
| South Central | 3.1 | 27.0 | 31.2 | 1.7 | 58.2 | 4,105 |
| South Eastern A | 1.8 | 11.3 | 24.7 | 0.6 | 71.2 | 458 |
| South Eastern B | 1.7 | 8.6 | 20.4 | 0.4 | 76.2 | 441 |
| North Central | 0.8 | 4.6 | 21.9 | 0.2 | 76.6 | 2,439 |
| County |  |  |  |  |  |  |
| Bomi | 0.4 | 4.2 | 15.0 | 0.2 | 82.6 | 249 |
| Bong | 1.0 | 3.9 | 21.4 | 0.4 | 76.9 | 796 |
| Gbarpolu | 0.2 | 4.4 | 36.1 | 0.0 | 63.2 | 112 |
| Grand Bassa | 0.4 | 8.9 | 20.6 | 0.1 | 74.6 | 467 |
| Grand Cape Mount | 1.3 | 9.1 | 16.1 | 0.5 | 77.7 | 260 |
| Grand Gedeh | 0.8 | 9.0 | 27.4 | 0.3 | 68.6 | 172 |
| Grand Kru | 0.0 | 0.7 | 1.2 | 0.0 | 98.5 | 136 |
| Lofa | 0.7 | 3.3 | 14.3 | 0.0 | 84.0 | 658 |
| Margibi | 3.1 | 18.4 | 23.3 | 0.7 | 67.9 | 441 |
| Maryland | 2.2 | 16.3 | 33.9 | 0.5 | 59.7 | 215 |
| Montserrado | 3.4 | 30.8 | 33.8 | 2.0 | 54.4 | 3,197 |
| Nimba | 0.7 | 6.1 | 27.3 | 0.2 | 71.3 | 985 |
| River Cess | 0.2 | 1.5 | 12.2 | 0.0 | 87.4 | 104 |
| River Gee | 2.8 | 2.5 | 16.9 | 0.8 | 82.1 | 91 |
| Sinoe | 3.6 | 19.1 | 29.3 | 1.3 | 64.5 | 182 |
| Education |  |  |  |  |  |  |
| No education | 0.0 | 6.5 | 18.6 | 0.0 | 78.6 | 2,474 |
| Elementary | 0.7 | 8.9 | 20.1 | 0.3 | 76.0 | 1,911 |
| Junior high | 2.3 | 15.9 | 23.5 | 0.6 | 69.1 | 1,445 |
| Senior high | 3.6 | 30.6 | 37.1 | 1.5 | 49.6 | 1,761 |
| Higher | 12.0 | 52.5 | 63.0 | 8.3 | 26.9 | 474 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 0.3 | 2.0 | 14.2 | 0.2 | 85.0 | 1,379 |
| Second | 0.7 | 2.6 | 19.8 | 0.0 | 79.0 | 1,431 |
| Middle | 1.8 | 7.5 | 23.0 | 0.7 | 73.7 | 1,517 |
| Fourth | 2.1 | 19.7 | 29.1 | 0.7 | 62.1 | 1,829 |
| Highest | 4.5 | 42.5 | 40.7 | 2.9 | 44.0 | 1,910 |
| Total | 2.1 | 16.7 | 26.5 | 1.0 | 66.9 | 8,065 |

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, Liberia DHS 2019-20

| 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 | 4.0 | 19.0 | 28.9 | 1.1 | 62.3 | 876 |
| 20-24 | 10.4 | 17.0 | 43.5 | 2.9 | 48.0 | 658 |
| 25-29 | 14.9 | 18.4 | 43.0 | 5.0 | 47.2 | 558 |
| 30-34 | 18.6 | 16.1 | 45.9 | 8.6 | 50.2 | 494 |
| 35-39 | 12.2 | 17.9 | 46.0 | 5.7 | 48.6 | 487 |
| 40-44 | 12.4 | 16.2 | 51.0 | 5.1 | 44.0 | 418 |
| 45-49 | 11.5 | 16.1 | 42.9 | 5.9 | 53.0 | 330 |
| Residence |  |  |  |  |  |  |
| Urban | 16.1 | 25.4 | 48.2 | 6.9 | 42.0 | 2,313 |
| Greater Monrovia | 20.0 | 34.0 | 55.5 | 10.1 | 33.0 | 1,368 |
| Other urban | 10.5 | 12.8 | 37.6 | 2.2 | 55.0 | 944 |
| Rural | 3.7 | 5.4 | 31.2 | 0.5 | 66.1 | 1,508 |
| Region |  |  |  |  |  |  |
| North Western | 2.5 | 9.0 | 38.4 | 0.0 | 56.9 | 301 |
| South Central | 18.3 | 27.9 | 52.5 | 8.4 | 37.8 | 1,932 |
| South Eastern A | 3.1 | 10.1 | 37.2 | 0.8 | 59.6 | 254 |
| South Eastern B | 6.3 | 12.4 | 20.4 | 0.6 | 68.6 | 226 |
| North Central | 4.0 | 4.4 | 28.4 | 0.2 | 68.6 | 1,107 |
| County |  |  |  |  |  |  |
| Bomi | 1.7 | 12.6 | 48.1 | 0.0 | 46.3 | 118 |
| Bong | 1.0 | 3.2 | 25.8 | 0.0 | 72.9 | 324 |
| Gbarpolu | 1.8 | 9.0 | 46.1 | 0.0 | 50.8 | 53 |
| Grand Bassa | 19.8 | 10.2 | 51.9 | 3.9 | 45.6 | 197 |
| Grand Cape Mount | 3.5 | 5.7 | 26.6 | 0.0 | 68.9 | 130 |
| Grand Gedeh | 2.4 | 15.4 | 48.9 | 1.6 | 48.9 | 92 |
| Grand Kru | 1.1 | 4.5 | 13.4 | 0.0 | 82.8 | 67 |
| Lofa | 4.0 | 6.2 | 30.3 | 0.0 | 65.4 | 287 |
| Margibi | 11.9 | 14.8 | 48.6 | 3.8 | 44.3 | 209 |
| Maryland | 11.0 | 19.9 | 25.2 | 0.9 | 56.4 | 110 |
| Montserrado | 19.0 | 32.0 | 53.1 | 9.6 | 35.9 | 1,525 |
| Nimba | 6.0 | 4.0 | 29.1 | 0.4 | 67.6 | 496 |
| River Cess | 0.9 | 2.5 | 20.6 | 0.5 | 79.4 | 52 |
| River Gee | 3.0 | 6.5 | 19.1 | 0.6 | 76.5 | 50 |
| Sinoe | 4.7 | 9.3 | 35.2 | 0.3 | 59.2 | 110 |
| Education |  |  |  |  |  |  |
| No education | 0.0 | 5.1 | 20.8 | 0.0 | 77.7 | 498 |
| Elementary | 0.9 | 7.7 | 25.9 | 0.2 | 69.4 | 877 |
| Junior high | 4.6 | 20.0 | 34.4 | 1.1 | 55.8 | 738 |
| Senior high | 18.4 | 21.2 | 54.0 | 7.4 | 39.3 | 1,303 |
| Higher | 35.8 | 37.6 | 73.3 | 15.1 | 12.1 | 405 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 1.9 | 2.4 | 23.2 | 0.1 | 75.6 | 657 |
| Second | 4.0 | 5.5 | 30.8 | 0.7 | 66.6 | 663 |
| Middle | 8.3 | 9.0 | 34.8 | 1.1 | 58.9 | 743 |
| Fourth | 14.0 | 22.3 | 47.6 | 6.0 | 43.0 | 838 |
| Highest | 22.7 | 39.5 | 62.1 | 11.2 | 25.2 | 920 |
| Total 15-49 | 11.2 | 17.5 | 41.5 | 4.4 | 51.5 | 3,821 |
| 50-59 | 8.4 | 11.0 | 50.3 | 3.8 | 48.8 | 428 |
| Total 15-59 | 10.9 | 16.8 | 42.4 | 4.3 | 51.2 | 4,249 |

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 past 12 months, and among women who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Ever used the internet | Used the internet in the past 12 months | Number of women | Among women who have used the internet in the past 12 months, percentage who, in the past month, used the internet: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Almost every day | At least once a week | Less than once a week | Not at all | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 19.9 | 16.8 | 1,657 | 34.2 | 28.2 | 32.8 | 4.9 | 100.0 | 279 |
| 20-24 | 36.7 | 30.9 | 1,506 | 50.9 | 26.5 | 18.3 | 4.3 | 100.0 | 466 |
| 25-29 | 35.2 | 28.4 | 1,375 | 54.0 | 29.9 | 14.3 | 1.8 | 100.0 | 391 |
| 30-34 | 32.6 | 27.2 | 1,112 | 55.2 | 25.6 | 16.0 | 3.2 | 100.0 | 302 |
| 35-39 | 20.8 | 17.9 | 1,020 | 50.3 | 29.8 | 18.7 | 1.2 | 100.0 | 183 |
| 40-44 | 15.0 | 13.2 | 769 | 33.6 | 43.3 | 18.0 | 5.0 | 100.0 | 101 |
| 45-49 | 10.1 | 8.5 | 626 | (52.1) | (32.2) | (15.4) | (0.4) | 100.0 | 53 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 38.3 | 32.9 | 5,023 | 49.9 | 28.2 | 18.8 | 3.1 | 100.0 | 1,652 |
| Greater Monrovia | 50.4 | 44.1 | 2,866 | 53.7 | 26.7 | 16.8 | 2.8 | 100.0 | 1,263 |
| Other urban | 22.1 | 18.1 | 2,157 | 37.7 | 32.9 | 25.3 | 4.0 | 100.0 | 389 |
| Rural | 6.5 | 4.0 | 3,042 | 31.8 | 37.6 | 25.4 | 5.2 | 100.0 | 123 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 11.4 | 8.0 | 621 | 31.2 | 35.8 | 21.8 | 11.2 | 100.0 | 50 |
| South Central | 40.6 | 35.1 | 4,105 | 52.0 | 27.9 | 17.4 | 2.7 | 100.0 | 1,441 |
| South Eastern A | 16.8 | 12.3 | 458 | 37.4 | 37.0 | 19.2 | 6.4 | 100.0 | 56 |
| South Eastern B | 15.8 | 12.1 | 441 | 40.6 | 37.8 | 20.2 | 1.5 | 100.0 | 53 |
| North Central | 9.7 | 7.2 | 2,439 | 32.5 | 29.3 | 33.2 | 4.9 | 100.0 | 175 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 14.1 | 10.5 | 249 | 29.4 | 47.7 | 18.3 | 4.6 | 100.0 | 26 |
| Bong | 13.2 | 11.7 | 796 | 39.2 | 37.4 | 21.4 | 2.1 | 100.0 | 93 |
| Gbarpolu | 6.1 | 4.3 | 112 | * | * | * | * | 100.0 | 5 |
| Grand Bassa | 13.7 | 11.3 | 467 | 32.5 | 37.0 | 30.5 | 0.0 | 100.0 | 53 |
| Grand Cape Mount | 11.1 | 7.2 | 260 | (35.7) | (21.3) | (23.4) | (19.6) | 100.0 | 19 |
| Grand Gedeh | 23.1 | 16.1 | 172 | 49.1 | 30.1 | 11.1 | 9.7 | 100.0 | 28 |
| Grand Kru | 7.5 | 5.5 | 136 | (17.3) | (33.0) | (45.5) | (4.3) | 100.0 | 7 |
| Lofa | 6.9 | 3.8 | 658 | * | * | * | * | 100.0 | 25 |
| Margibi | 19.1 | 18.0 | 441 | 39.0 | 42.4 | 16.7 | 1.9 | 100.0 | 79 |
| Maryland | 23.3 | 18.1 | 215 | 48.4 | 37.9 | 13.1 | 0.6 | 100.0 | 39 |
| Montserrado | 47.5 | 40.9 | 3,197 | 53.6 | 26.6 | 17.0 | 2.9 | 100.0 | 1,309 |
| Nimba | 8.7 | 5.7 | 985 | (33.3) | (8.9) | (46.2) | (11.7) | 100.0 | 56 |
| River Cess | 7.3 | 4.5 | 104 | * | * | * | * | 100.0 | 5 |
| River Gee | 10.3 | 7.9 | 91 | (22.5) | (42.0) | (32.2) | (3.2) | 100.0 | 7 |
| Sinoe | 16.2 | 13.1 | 182 | 25.0 | 42.6 | 30.1 | 2.2 | 100.0 | 24 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 4.6 | 3.2 | 2,474 | 27.3 | 35.3 | 37.4 | 0.0 | 100.0 | 79 |
| Elementary | 7.0 | 4.8 | 1,911 | 27.4 | 23.9 | 47.7 | 1.0 | 100.0 | 91 |
| Junior high | 23.0 | 18.1 | 1,445 | 27.2 | 39.5 | 27.7 | 5.6 | 100.0 | 262 |
| Senior high | 62.3 | 52.3 | 1,761 | 48.2 | 30.7 | 17.0 | 4.2 | 100.0 | 922 |
| Higher | 93.9 | 88.7 | 474 | 71.9 | 18.0 | 9.4 | 0.7 | 100.0 | 421 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 2.7 | 1.7 | 1,379 | (21.5) | (23.2) | (46.9) | (8.4) | 100.0 | 24 |
| Second | 4.5 | 2.1 | 1,431 | 21.3 | 47.0 | 26.7 | 4.9 | 100.0 | 31 |
| Middle | 14.0 | 10.4 | 1,517 | 24.6 | 39.2 | 33.1 | 3.2 | 100.0 | 157 |
| Fourth | 34.6 | 27.8 | 1,829 | 37.8 | 34.7 | 23.7 | 3.8 | 100.0 | 508 |
| Highest | 61.5 | 55.2 | 1,910 | 58.9 | 24.1 | 14.2 | 2.8 | 100.0 | 1,055 |
| Total | 26.3 | 22.0 | 8,065 | 48.7 | 28.8 | 19.3 | 3.2 | 100.0 | 1,775 |

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 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 past 12 months, and among men who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Ever used the internet | Used the internet in the past 12 months | Number of women | Among men who have used the internet in the past 12 months, percentage who in the past month, used the internet: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Almost every day | At least once a week | Less than once a week | Not at all | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 33.9 | 28.4 | 876 | 27.4 | 38.4 | 23.7 | 10.6 | 100.0 | 248 |
| 20-24 | 61.2 | 49.0 | 658 | 39.3 | 34.5 | 17.6 | 8.5 | 100.0 | 322 |
| 25-29 | 51.0 | 41.5 | 558 | 54.4 | 29.0 | 8.5 | 8.1 | 100.0 | 232 |
| 30-34 | 50.8 | 43.9 | 494 | 43.2 | 31.2 | 15.0 | 10.6 | 100.0 | 217 |
| 35-39 | 38.3 | 34.1 | 487 | 41.1 | 22.6 | 24.5 | 11.9 | 100.0 | 166 |
| 40-44 | 31.9 | 27.7 | 418 | 56.8 | 13.4 | 26.0 | 3.9 | 100.0 | 116 |
| 45-49 | 28.7 | 27.2 | 330 | 55.0 | 30.1 | 14.4 | 0.6 | 100.0 | 90 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 60.5 | 53.1 | 2,313 | 45.8 | 30.3 | 16.2 | 7.7 | 100.0 | 1,228 |
| Greater Monrovia | 73.7 | 65.8 | 1,368 | 45.1 | 30.8 | 15.5 | 8.6 | 100.0 | 901 |
| Other urban | 41.5 | 34.6 | 944 | 47.6 | 29.1 | 18.2 | 5.1 | 100.0 | 327 |
| Rural | 16.6 | 10.8 | 1,508 | 22.0 | 30.0 | 31.9 | 16.1 | 100.0 | 163 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 16.4 | 11.8 | 301 | 32.4 | 27.6 | 25.6 | 14.4 | 100.0 | 36 |
| South Central | 65.1 | 57.2 | 1,932 | 44.1 | 30.1 | 17.3 | 8.5 | 100.0 | 1,104 |
| South Eastern A | 28.9 | 21.2 | 254 | 36.7 | 33.0 | 23.9 | 6.3 | 100.0 | 54 |
| South Eastern B | 27.3 | 21.2 | 226 | 42.3 | 33.8 | 17.2 | 6.8 | 100.0 | 48 |
| North Central | 18.7 | 13.4 | 1,107 | 39.9 | 30.2 | 20.2 | 9.7 | 100.0 | 149 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 13.6 | 13.1 | 118 | * | * | * | * | 100.0 | 15 |
| Bong | 20.5 | 19.3 | 324 | (40.6) | (37.0) | (22.4) | (0.0) | 100.0 | 63 |
| Gbarpolu | 14.9 | 9.8 | 53 | * | * | * |  | 100.0 | 5 |
| Grand Bassa | 28.6 | 23.7 | 197 | 67.1 | 20.9 | 7.1 | 5.0 | 100.0 | 47 |
| Grand Cape Mount | 19.6 | 11.5 | 130 | (9.4) | (48.7) | (14.2) | (27.7) | 100.0 | 15 |
| Grand Gedeh | 25.3 | 19.4 | 92 | (51.7) | (29.4) | (18.9) | (0.0) | 100.0 | 18 |
| Grand Kru | 18.1 | 14.9 | 67 | (31.5) | (34.1) | (27.1) | (7.3) | 100.0 | 10 |
| Lofa | 18.2 | 13.3 | 287 | (23.2) | (34.2) | (26.8) | (15.8) | 100.0 | 38 |
| Margibi | 51.6 | 42.2 | 209 | 29.5 | 37.1 | 19.4 | 14.0 | 100.0 | 88 |
| Maryland | 34.9 | 27.3 | 110 | 51.7 | 34.3 | 7.0 | 7.0 | 100.0 | 30 |
| Montserrado | 71.7 | 63.5 | 1,525 | 44.3 | 29.9 | 17.6 | 8.2 | 100.0 | 969 |
| Nimba | 17.9 | 9.7 | 496 | (52.5) | (18.1) | (12.1) | (17.4) | 100.0 | 48 |
| River Cess | 19.8 | 10.1 | 52 | (7.8) | (29.1) | (54.4) | (8.7) | 100.0 | 5 |
| River Gee | 22.9 | 16.3 | 50 | (20.4) | (31.7) | (42.8) | (5.1) | 100.0 | 8 |
| Sinoe | 36.3 | 28.0 | 110 | 33.0 | 35.8 | 21.6 | 9.6 | 100.0 | 31 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 9.7 | 6.7 | 498 | (15.6) | (54.0) | (29.4) | (0.9) | 100.0 | 33 |
| Elementary | 10.8 | 7.1 | 877 | 16.7 | 38.3 | 33.4 | 11.6 | 100.0 | 62 |
| Junior high | 38.7 | 29.4 | 738 | 21.3 | 41.9 | 24.7 | 12.1 | 100.0 | 217 |
| Senior high | 65.5 | 55.8 | 1,303 | 39.6 | 31.6 | 18.4 | 10.4 | 100.0 | 728 |
| Higher | 91.0 | 86.6 | 405 | 70.8 | 16.7 | 9.4 | 3.1 | 100.0 | 351 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 8.3 | 4.4 | 657 | (18.4) | (35.9) | (22.0) | (23.7) | 100.0 | 29 |
| Second | 15.6 | 7.9 | 663 | 17.5 | 31.5 | 32.5 | 18.5 | 100.0 | 52 |
| Middle | 31.1 | 23.3 | 743 | 22.9 | 37.5 | 28.7 | 10.9 | 100.0 | 173 |
| Fourth | 60.0 | 50.8 | 838 | 29.1 | 33.9 | 25.0 | 12.1 | 100.0 | 425 |
| Highest | 82.4 | 77.3 | 920 | 59.1 | 26.1 | 10.1 | 4.7 | 100.0 | 711 |
| Total 15-49 | 43.2 | 36.4 | 3,821 | 43.0 | 30.3 | 18.1 | 8.6 | 100.0 | 1,391 |
| 50-59 | 20.5 | 16.4 | 428 | 34.6 | 35.4 | 27.8 | 2.3 | 100.0 | 70 |
| Total 15-59 | 40.9 | 34.4 | 4,249 | 42.6 | 30.5 | 18.5 | 8.3 | 100.0 | 1,461 |

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 3.6.1 Employment status: Women
Percent distribution of women age 15-49 by employment status, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Employed in the 12 months preceding the survey |  | Not employed in the 12 months preceding the survey | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Currently employed ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 32.7 | 2.4 | 64.9 | 100.0 | 1,657 |
| 20-24 | 48.7 | 2.8 | 48.5 | 100.0 | 1,506 |
| 25-29 | 63.8 | 4.6 | 31.6 | 100.0 | 1,375 |
| 30-34 | 74.0 | 4.3 | 21.7 | 100.0 | 1,112 |
| 35-39 | 77.3 | 3.9 | 18.8 | 100.0 | 1,020 |
| 40-44 | 81.1 | 3.7 | 15.2 | 100.0 | 769 |
| 45-49 | 83.0 | 2.7 | 14.3 | 100.0 | 626 |
| Marital status |  |  |  |  |  |
| Never married | 42.1 | 3.0 | 54.9 | 100.0 | 3,129 |
| Married or living together | 72.7 | 3.2 | 24.0 | 100.0 | 4,216 |
| Divorced/separated/ widowed | 72.4 | 6.8 | 20.8 | 100.0 | 721 |
| Number of living children |  |  |  |  |  |
|  | 34.4 | 2.0 | 63.6 | 100.0 | 1,916 |
| 1-2 | 60.9 | 3.7 | 35.3 | 100.0 | 3,023 |
| 3-4 | 75.5 | 4.6 | 19.8 | 100.0 | 1,832 |
| 5+ | 79.0 | 3.1 | 17.9 | 100.0 | 1,294 |
| Residence |  |  |  |  |  |
| Urban | 57.1 | 3.2 | 39.7 | 100.0 | 5,023 |
| Greater Monrovia | 53.1 | 3.7 | 43.2 | 100.0 | 2,866 |
| Other urban | 62.4 | 2.5 | 35.0 | 100.0 | 2,157 |
| Rural | 67.0 | 3.9 | 29.1 | 100.0 | 3,042 |
| Region |  |  |  |  |  |
| North Western | 63.2 | 3.4 | 33.4 | 100.0 | 621 |
| South Central | 54.4 | 3.9 | 41.6 | 100.0 | 4,105 |
| South Eastern A | 73.6 | 2.0 | 24.4 | 100.0 | 458 |
| South Eastern B | 54.1 | 4.0 | 41.9 | 100.0 | 441 |
| North Central | 69.8 | 2.8 | 27.4 | 100.0 | 2,439 |
| County |  |  |  |  |  |
| Bomi | 70.7 | 2.1 | 27.2 | 100.0 | 249 |
| Bong | 68.4 | 4.3 | 27.3 | 100.0 | 796 |
| Gbarpolu | 82.0 | 7.5 | 10.5 | 100.0 | 112 |
| Grand Bassa | 63.6 | 2.6 | 33.8 | 100.0 | 467 |
| Grand Cape Mount | 47.9 | 3.0 | 49.1 | 100.0 | 260 |
| Grand Gedeh | 78.2 | 1.2 | 20.6 | 100.0 | 172 |
| Grand Kru | 52.7 | 1.6 | 45.7 | 100.0 | 136 |
| Lofa | 71.7 | 2.9 | 25.3 | 100.0 | 658 |
| Margibi | 63.9 | 3.5 | 32.6 | 100.0 | 441 |
| Maryland | 51.2 | 6.1 | 42.7 | 100.0 | 215 |
| Montserrado | 51.8 | 4.2 | 44.0 | 100.0 | 3,197 |
| Nimba | 69.7 | 1.5 | 28.9 | 100.0 | 985 |
| River Cess | 71.2 | 1.7 | 27.1 | 100.0 | 104 |
| River Gee | 63.2 | 2.3 | 34.5 | 100.0 | 91 |
| Sinoe | 70.7 | 2.9 | 26.5 | 100.0 | 182 |
| Education |  |  |  |  |  |
| No education | 75.5 | 3.3 | 21.2 | 100.0 | 2,474 |
| Elementary | 61.4 | 3.8 | 34.8 | 100.0 | 1,911 |
| Junior high | 47.5 | 3.7 | 48.9 | 100.0 | 1,445 |
| Senior high | 52.0 | 3.0 | 44.9 | 100.0 | 1,761 |
| Higher | 55.5 | 3.5 | 41.1 | 100.0 | 474 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 72.7 | 4.1 | 23.3 | 100.0 | 1,379 |
| Second | 69.2 | 3.4 | 27.5 | 100.0 | 1,431 |
| Middle | 62.1 | 2.0 | 35.9 | 100.0 | 1,517 |
| Fourth | 56.0 | 5.0 | 38.9 | 100.0 | 1,829 |
| Highest | 49.6 | 2.7 | 47.7 | 100.0 | 1,910 |
| Total | 60.8 | 3.4 | 35.7 | 100.0 | 8,065 |

1 "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 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, Liberia DHS 2019-20 |  |  |  |  |  |
| Background characteristic | Employed in the 12 months preceding the survey |  | Not employed in the 12 months preceding the survey | Total | Number of men |
|  | Currently employed ${ }^{1}$ | Not currently employed |  |  |  |
| Age |  |  |  |  |  |
| 15-19 | 53.7 | 5.8 | 40.5 | 100.0 | 876 |
| 20-24 | 73.8 | 5.6 | 20.7 | 100.0 | 658 |
| 25-29 | 88.7 | 3.5 | 7.8 | 100.0 | 558 |
| 30-34 | 93.9 | 0.9 | 5.3 | 100.0 | 494 |
| 35-39 | 92.5 | 5.8 | 1.7 | 100.0 | 487 |
| 40-44 | 93.4 | 1.1 | 5.5 | 100.0 | 418 |
| 45-49 | 97.4 | 1.0 | 1.5 | 100.0 | 330 |
| Marital status |  |  |  |  |  |
| Never married | 62.6 | 6.1 | 31.2 | 100.0 | 1,684 |
| Married or living together | 94.8 | 2.1 | 3.1 | 100.0 | 1,906 |
| Divorced/separated/ widowed | 93.4 | 1.6 | 5.0 | 100.0 | 231 |
| Number of living children |  |  |  |  |  |
| 0 | 62.2 | 6.1 | 31.7 | 100.0 | 1,616 |
| 1-2 | 91.4 | 2.3 | 6.4 | 100.0 | 937 |
| 3-4 | 96.1 | 2.2 | 1.7 | 100.0 | 673 |
| 5+ | 95.6 | 2.2 | 2.2 | 100.0 | 594 |
| Residence |  |  |  |  |  |
| Urban | 75.9 | 4.4 | 19.7 | 100.0 | 2,313 |
| Greater Monrovia | 71.6 | 5.5 | 22.8 | 100.0 | 1,368 |
| Other urban | 82.2 | 2.7 | 15.1 | 100.0 | 944 |
| Rural | 87.6 | 3.0 | 9.4 | 100.0 | 1,508 |
| Region |  |  |  |  |  |
| North Western | 81.0 | 5.6 | 13.4 | 100.0 | 301 |
| South Central | 74.2 | 5.0 | 20.8 | 100.0 | 1,932 |
| South Eastern A | 89.9 | 2.6 | 7.5 | 100.0 | 254 |
| South Eastern B | 74.1 | 3.5 | 22.4 | 100.0 | 226 |
| North Central | 90.6 | 1.8 | 7.6 | 100.0 | 1,107 |
| County |  |  |  |  |  |
| Bomi | 75.7 | 5.9 | 18.4 | 100.0 | 118 |
| Bong | 78.6 | 4.3 | 17.1 | 100.0 | 324 |
| Gbarpolu | 95.9 | 1.7 | 2.3 | 100.0 | 53 |
| Grand Bassa | 94.3 | 3.8 | 1.9 | 100.0 | 197 |
| Grand Cape Mount | 79.8 | 6.8 | 13.4 | 100.0 | 130 |
| Grand Gedeh | 90.7 | 0.7 | 8.6 | 100.0 | 92 |
| Grand Kru | 84.6 | 4.9 | 10.5 | 100.0 | 67 |
| Lofa | 92.6 | 0.0 | 7.4 | 100.0 | 287 |
| Margibi | 77.1 | 3.9 | 19.0 | 100.0 | 209 |
| Maryland | 66.0 | 2.6 | 31.4 | 100.0 | 110 |
| Montserrado | 71.2 | 5.3 | 23.5 | 100.0 | 1,525 |
| Nimba | 97.4 | 1.1 | 1.5 | 100.0 | 496 |
| River Cess | 81.0 | 6.0 | 13.0 | 100.0 | 52 |
| River Gee | 77.9 | 3.6 | 18.5 | 100.0 | 50 |
| Sinoe | 93.4 | 2.5 | 4.1 | 100.0 | 110 |
| Education |  |  |  |  |  |
| No education | 96.0 | 1.5 | 2.6 | 100.0 | 498 |
| Elementary | 78.9 | 3.6 | 17.4 | 100.0 | 877 |
| Junior high | 76.9 | 3.3 | 19.8 | 100.0 | 738 |
| Senior high | 77.6 | 4.8 | 17.6 | 100.0 | 1,303 |
| Higher | 81.1 | 5.1 | 13.8 | 100.0 | 405 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 92.1 | 1.9 | 6.0 | 100.0 | 657 |
| Second | 89.1 | 3.4 | 7.4 | 100.0 | 663 |
| Middle | 82.4 | 2.8 | 14.7 | 100.0 | 743 |
| Fourth | 73.4 | 5.9 | 20.7 | 100.0 | 838 |
| Highest | 71.0 | 4.5 | 24.5 | 100.0 | 920 |
| Total 15-49 | 80.5 | 3.8 | 15.6 | 100.0 | 3,821 |
| 50-59 | 91.1 | 1.6 | 7.2 | 100.0 | 428 |
| Total 15-59 | 81.6 | 3.6 | 14.8 | 100.0 | 4,249 |

1 "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 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, Liberia DHS 2019-20

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.3 | 1.1 | 52.1 | 1.8 | 0.8 | 0.6 | 40.1 | 3.2 | 100.0 | 581 |
| 20-24 | 5.8 | 0.3 | 52.5 | 1.9 | 2.0 | 0.2 | 37.1 | 0.2 | 100.0 | 776 |
| 25-29 | 4.8 | 0.8 | 59.8 | 0.4 | 1.6 | 1.3 | 30.9 | 0.3 | 100.0 | 941 |
| 30-34 | 8.0 | 1.4 | 55.9 | 1.3 | 1.5 | 1.8 | 30.1 | 0.0 | 100.0 | 870 |
| 35-39 | 4.8 | 0.4 | 50.3 | 1.0 | 1.7 | 0.2 | 41.5 | 0.0 | 100.0 | 828 |
| 40-44 | 4.8 | 0.1 | 46.2 | 0.6 | 1.4 | 1.7 | 45.1 | 0.0 | 100.0 | 652 |
| 45-49 | 4.6 | 0.2 | 40.5 | 0.6 | 0.5 | 2.2 | 51.4 | 0.0 | 100.0 | 536 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 6.4 | 0.9 | 60.4 | 1.3 | 3.3 | 1.6 | 24.9 | 1.2 | 100.0 | 1,411 |
| Married or living together | 4.1 | 0.5 | 47.7 | 1.1 | 0.6 | 1.0 | 44.9 | 0.1 | 100.0 | 3,202 |
| Divorced/separated/ widowed | 6.5 | 0.9 | 55.4 | 0.4 | 1.4 | 0.3 | 34.6 | 0.4 | 100.0 | 571 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |
| $0$ | 5.8 | 1.0 | 59.2 | 2.3 | 1.8 | 0.6 | 27.0 | 2.3 | 100.0 | 698 |
| 1-2 | 7.7 | 1.2 | 59.0 | 1.2 | 2.4 | 0.9 | 27.2 | 0.4 | 100.0 | 1,955 |
| 3-4 | 3.8 | 0.1 | 51.6 | 0.7 | 0.4 | 1.7 | 41.7 | 0.0 | 100.0 | 1,469 |
| 5+ | 1.1 | 0.0 | 34.8 | 0.5 | 0.8 | 1.1 | 61.6 | 0.0 | 100.0 | 1,063 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 7.2 | 1.1 | 67.7 | 1.3 | 2.1 | 1.8 | 18.4 | 0.5 | 100.0 | 3,028 |
| Greater Monrovia | 10.1 | 1.6 | 79.2 | 1.8 | 3.5 | 2.7 | 0.4 | 0.8 | 100.0 | 1,626 |
| Other urban | 3.8 | 0.5 | 54.2 | 0.7 | 0.5 | 0.7 | 39.2 | 0.2 | 100.0 | 1,402 |
| Rural | 1.9 | 0.0 | 30.0 | 0.7 | 0.5 | 0.2 | 66.4 | 0.3 | 100.0 | 2,156 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 3.2 | 0.0 | 47.5 | 1.6 | 0.7 | 0.1 | 44.8 | 2.0 | 100.0 | 414 |
| South Central | 7.7 | 1.3 | 72.1 | 1.4 | 2.8 | 2.1 | 12.0 | 0.5 | 100.0 | 2,396 |
| South Eastern A | 1.9 | 0.0 | 54.1 | 0.7 | 0.5 | 0.3 | 42.4 | 0.1 | 100.0 | 347 |
| South Eastern B | 3.9 | 0.0 | 48.3 | 0.4 | 1.0 | 0.8 | 45.0 | 0.5 | 100.0 | 256 |
| North Central | 2.4 | 0.1 | 25.9 | 0.6 | 0.0 | 0.2 | 70.7 | 0.0 | 100.0 | 1,771 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 5.0 | 0.0 | 49.6 | 1.9 | 0.1 | 0.1 | 39.1 | 4.2 | 100.0 | 181 |
| Bong | 2.8 | 0.2 | 35.4 | 0.1 | 0.0 | 0.4 | 61.1 | 0.0 | 100.0 | 579 |
| Gbarpolu | 0.9 | 0.2 | 21.0 | 0.4 | 0.6 | 0.0 | 76.9 | 0.0 | 100.0 | 100 |
| Grand Bassa | 1.5 | 1.0 | 54.1 | 0.5 | 2.0 | 0.5 | 40.4 | 0.0 | 100.0 | 309 |
| Grand Cape Mount | 2.3 | 0.0 | 64.8 | 2.2 | 1.7 | 0.0 | 28.5 | 0.5 | 100.0 | 132 |
| Grand Gedeh | 2.7 | 0.0 | 62.0 | 0.3 | 0.0 | 0.0 | 35.0 | 0.0 | 100.0 | 137 |
| Grand Kru | 6.0 | 0.0 | 40.8 | 0.4 | 0.0 | 0.4 | 52.4 | 0.0 | 100.0 | 74 |
| Lofa | 1.4 | 0.1 | 21.0 | 1.9 | 0.0 | 0.1 | 75.5 | 0.0 | 100.0 | 491 |
| Margibi | 3.1 | 0.7 | 65.8 | 0.5 | 1.0 | 2.0 | 26.8 | 0.0 | 100.0 | 297 |
| Maryland | 3.6 | 0.0 | 51.8 | 0.3 | 1.5 | 1.2 | 40.5 | 1.1 | 100.0 | 123 |
| Montserrado | 9.6 | 1.4 | 76.2 | 1.7 | 3.2 | 2.5 | 4.7 | 0.7 | 100.0 | 1,790 |
| Nimba | 2.8 | 0.0 | 21.7 | 0.1 | 0.0 | 0.1 | 75.3 | 0.1 | 100.0 | 701 |
| River Cess | 1.4 | 0.0 | 39.3 | 0.1 | 0.0 | 0.2 | 59.0 | 0.0 | 100.0 | 76 |
| River Gee | 2.1 | 0.0 | 50.5 | 0.7 | 1.2 | 0.3 | 45.2 | 0.0 | 100.0 | 60 |
| Sinoe | 1.3 | 0.0 | 54.4 | 1.4 | 1.3 | 0.8 | 40.6 | 0.2 | 100.0 | 134 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 0.6 | 0.1 | 40.3 | 0.9 | 0.9 | 1.3 | 56.1 | 0.0 | 100.0 | 1,950 |
| Elementary | 0.8 | 0.1 | 44.8 | 1.3 | 1.6 | 0.9 | 49.4 | 0.9 | 100.0 | 1,246 |
| Junior high | 0.5 | 0.0 | 67.6 | 0.9 | 1.3 | 1.5 | 27.3 | 0.8 | 100.0 | 739 |
| Senior high | 11.2 | 1.7 | 75.6 | 0.8 | 2.1 | 1.0 | 7.4 | 0.2 | 100.0 | 970 |
| Higher | 44.1 | 4.9 | 42.4 | 2.7 | 2.4 | 0.2 | 1.8 | 1.6 | 100.0 | 280 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.5 | 0.0 | 19.9 | 0.2 | 0.3 | 0.3 | 78.8 | 0.1 | 100.0 | 1,058 |
| Second | 1.3 | 0.0 | 28.7 | 0.6 | 0.5 | 0.1 | 68.2 | 0.5 | 100.0 | 1,038 |
| Middle | 2.3 | 0.2 | 55.2 | 1.0 | 0.8 | 1.1 | 39.0 | 0.4 | 100.0 | 973 |
| Fourth | 6.2 | 0.3 | 80.8 | 1.3 | 2.8 | 3.0 | 5.0 | 0.5 | 100.0 | 1,117 |
| Highest | 14.7 | 2.8 | 74.8 | 2.2 | 2.7 | 1.0 | 1.1 | 0.8 | 100.0 | 999 |
| Total | 5.0 | 0.6 | 52.0 | 1.1 | 1.4 | 1.1 | 38.3 | 0.5 | 100.0 | 5,184 |

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, Liberia DHS 2019-20

| Background characteristic | Professional/ technical/ managerial | Clerical | Sales and services | Skilled manual | Unskilled manual | Domestic service | Agriculture | Missing | Total | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.6 | 0.4 | 15.0 | 16.2 | 3.9 | 8.2 | 47.1 | 6.5 | 100.0 | 521 |
| 20-24 | 9.0 | 2.4 | 19.1 | 22.5 | 4.4 | 3.1 | 36.5 | 3.0 | 100.0 | 522 |
| 25-29 | 16.4 | 0.1 | 15.0 | 26.3 | 3.3 | 0.4 | 38.4 | 0.0 | 100.0 | 515 |
| 30-34 | 13.3 | 0.8 | 17.4 | 25.7 | 6.4 | 0.1 | 36.2 | 0.1 | 100.0 | 467 |
| 35-39 | 12.0 | 0.3 | 17.6 | 25.1 | 4.3 | 0.0 | 40.7 | 0.0 | 100.0 | 479 |
| 40-44 | 9.9 | 2.1 | 18.4 | 22.3 | 3.5 | 0.0 | 43.8 | 0.0 | 100.0 | 395 |
| 45-49 | 13.3 | 0.3 | 13.5 | 18.9 | 2.6 | 0.9 | 50.5 | 0.0 | 100.0 | 325 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 10.0 | 1.4 | 15.8 | 20.7 | 3.5 | 4.8 | 39.8 | 4.0 | 100.0 | 1,158 |
| Married or living together | 10.9 | 0.4 | 17.2 | 22.4 | 4.2 | 0.5 | 44.2 | 0.2 | 100.0 | 1,847 |
| Divorced/separated/ widowed | 13.7 | 2.2 | 16.7 | 33.4 | 7.5 | 0.1 | 26.5 | 0.0 | 100.0 | 219 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |
| $0$ | 7.4 | 1.4 | 16.4 | 20.7 | 3.9 | 5.3 | 40.6 | 4.4 | 100.0 | 1,103 |
| $1-2$ | 15.1 | 1.1 | 19.3 | 27.9 | 5.4 | 0.2 | 30.8 | 0.2 | 100.0 | 877 |
| 3-4 | 12.4 | 0.2 | 17.3 | 24.1 | 3.5 | 0.1 | 42.2 | 0.0 | 100.0 | 662 |
| 5+ | 8.7 | 0.6 | 12.6 | 16.3 | 3.2 | 0.5 | 58.1 | 0.0 | 100.0 | 581 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 15.0 | 1.3 | 24.7 | 31.7 | 2.0 | 2.6 | 21.4 | 1.3 | 100.0 | 1,858 |
| Greater Monrovia | 17.2 | 1.9 | 30.9 | 40.8 | 1.4 | 2.2 | 4.4 | 1.2 | 100.0 | 1,056 |
| Other urban | 12.2 | 0.5 | 16.4 | 19.8 | 2.7 | 3.2 | 43.9 | 1.4 | 100.0 | 802 |
| Rural | 4.9 | 0.4 | 5.8 | 10.1 | 7.1 | 1.1 | 68.6 | 2.0 | 100.0 | 1,366 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 5.2 | 0.0 | 6.8 | 14.0 | 6.9 | 0.1 | 66.2 | 0.9 | 100.0 | 261 |
| South Central | 15.2 | 1.4 | 26.2 | 34.9 | 1.6 | 3.7 | 15.4 | 1.5 | 100.0 | 1,529 |
| South Eastern A | 9.0 | 1.7 | 12.4 | 14.3 | 18.0 | 2.4 | 39.1 | 3.1 | 100.0 | 235 |
| South Eastern B | 9.5 | 0.9 | 12.8 | 10.4 | 21.1 | 0.3 | 45.1 | 0.0 | 100.0 | 176 |
| North Central | 6.1 | 0.2 | 6.5 | 10.3 | 1.2 | 0.1 | 74.0 | 1.7 | 100.0 | 1,023 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 7.3 | 0.0 | 10.7 | 14.5 | 3.2 | 0.0 | 64.3 | 0.0 | 100.0 | 96 |
| Bong | 5.7 | 0.5 | 12.0 | 16.3 | 1.1 | 0.3 | 63.7 | 0.3 | 100.0 | 269 |
| Gbarpolu | 4.8 | 0.0 | 4.3 | 11.3 | 19.1 | 0.0 | 60.2 | 0.3 | 100.0 | 52 |
| Grand Bassa | 5.0 | 0.0 | 12.9 | 18.8 | 0.0 | 9.2 | 48.5 | 5.7 | 100.0 | 194 |
| Grand Cape Mount | 3.7 | 0.0 | 4.5 | 14.7 | 4.3 | 0.2 | 70.5 | 2.0 | 100.0 | 113 |
| Grand Gedeh | 10.4 | 0.7 | 13.3 | 11.2 | 21.5 | 0.0 | 35.9 | 7.1 | 100.0 | 84 |
| Grand Kru | 11.7 | 2.2 | 6.6 | 9.9 | 21.4 | 0.0 | 48.2 | 0.0 | 100.0 | 60 |
| Lofa | 7.2 | 0.4 | 4.9 | 8.8 | 0.6 | 0.0 | 77.0 | 1.0 | 100.0 | 266 |
| Margibi | 14.9 | 0.9 | 17.8 | 23.4 | 2.9 | 7.5 | 32.8 | 0.0 | 100.0 | 169 |
| Maryland | 8.1 | 0.0 | 16.7 | 9.0 | 19.3 | 0.6 | 46.2 | 0.0 | 100.0 | 75 |
| Montserrado | 17.0 | 1.7 | 29.7 | 39.3 | 1.7 | 2.3 | 7.3 | 1.1 | 100.0 | 1,166 |
| Nimba | 5.6 | 0.0 | 4.4 | 7.8 | 1.5 | 0.0 | 77.9 | 2.8 | 100.0 | 488 |
| River Cess | 1.6 | 1.9 | 8.0 | 12.5 | 12.8 | 0.0 | 63.1 | 0.0 | 100.0 | 45 |
| River Gee | 8.8 | 0.4 | 14.7 | 13.6 | 23.9 | 0.0 | 38.4 | 0.0 | 100.0 | 41 |
| Sinoe | 11.0 | 2.3 | 13.6 | 17.7 | 17.4 | 5.3 | 31.4 | 1.3 | 100.0 | 105 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 2.8 | 0.0 | 7.3 | 19.9 | 3.7 | 0.5 | 65.8 | 0.0 | 100.0 | 485 |
| Elementary | 1.3 | 0.0 | 7.5 | 19.3 | 6.6 | 2.9 | 59.5 | 2.8 | 100.0 | 724 |
| Junior high | 3.4 | 1.2 | 14.0 | 20.1 | 6.5 | 3.3 | 49.3 | 2.2 | 100.0 | 592 |
| Senior high | 13.2 | 1.2 | 24.8 | 29.4 | 2.2 | 1.9 | 26.2 | 1.2 | 100.0 | 1,074 |
| Higher | 46.5 | 2.6 | 28.1 | 16.1 | 1.6 | 0.1 | 3.7 | 1.3 | 100.0 | 349 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 1.3 | 0.1 | 2.0 | 4.8 | 8.0 | 0.3 | 81.6 | 1.9 | 100.0 | 618 |
| Second | 5.9 | 0.3 | 5.7 | 10.1 | 5.3 | 0.8 | 70.4 | 1.6 | 100.0 | 613 |
| Middle | 7.6 | 0.5 | 13.5 | 21.6 | 3.2 | 2.6 | 49.1 | 1.8 | 100.0 | 633 |
| Fourth | 12.0 | 1.1 | 25.7 | 41.0 | 3.7 | 4.3 | 10.0 | 2.2 | 100.0 | 664 |
| Highest | 25.1 | 2.4 | 33.7 | 32.6 | 0.9 | 1.8 | 3.1 | 0.3 | 100.0 | 695 |
| Total 15-49 | 10.7 | 0.9 | 16.7 | 22.6 | 4.1 | 2.0 | 41.4 | 1.6 | 100.0 | 3,224 |
| 50-59 | 18.4 | 1.0 | 14.4 | 9.2 | 3.2 | 0.1 | 53.6 | 0.1 | 100.0 | 397 |
| Total 15-59 | 11.6 | 0.9 | 16.4 | 21.1 | 4.0 | 1.8 | 42.8 | 1.4 | 100.0 | 3,621 |

Table 3.8 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), Liberia DHS 2019-20

| Employment characteristic | Agricultural <br> work | Nonagricultural <br> work | Total |
| :--- | ---: | ---: | ---: |
| Type of earnings |  |  |  |
| Cash only | 22.6 | 74.9 | 54.7 |
| Cash and in-kind | 16.9 | 7.6 | 11.2 |
| In-kind only | 3.6 | 0.7 | 1.8 |
| $\quad$ Not paid | 56.8 | 16.8 | 32.3 |
| Total | 100.0 | 100.0 | 100.0 |
| Type of employer |  |  |  |
| $\quad$ Employed by family member | 17.3 | 9.4 | 12.6 |
| $\quad$ Employed by non-family |  |  |  |
| $\quad$ member | 3.7 | 13.4 | 9.6 |
| $\quad$ Self-employed | 79.0 | 77.2 | 77.8 |
| Total | 100.0 | 100.0 | 100.0 |
| Continuity of employment |  |  |  |
| $\quad$ All year | 70.9 | 77.7 | 74.9 |
| $\quad$ Seasonal | 23.8 | 15.9 | 19.0 |
| $\quad$ Occasional | 5.3 | 6.4 | 6.1 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of women employed |  |  |  |
| $\quad$ during the last 12 months | 1,988 | 3,173 | 5,184 |

Note: Total includes women 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, Liberia DHS 2019-20 |  |  |  |  |  |  |  |  |
| Background characteristic | Social security | Employerbased insurance | Mutual health organization/ communitybased insurance | Privately purchased commercial insurance | Other | None | Any health insurance | Number of women |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 0.2 | 3.3 | 0.2 | 0.1 | 0.0 | 96.2 | 3.8 | 1,657 |
| 20-24 | 0.2 | 3.0 | 0.6 | 0.0 | 0.2 | 96.0 | 4.0 | 1,506 |
| 25-29 | 0.2 | 2.7 | 0.5 | 0.0 | 0.0 | 96.7 | 3.3 | 1,375 |
| 30-34 | 0.3 | 3.0 | 0.2 | 0.2 | 0.0 | 96.3 | 3.7 | 1,112 |
| 35-39 | 0.4 | 2.2 | 0.2 | 0.4 | 0.1 | 97.1 | 2.9 | 1,020 |
| 40-44 | 0.4 | 3.7 | 0.4 | 0.0 | 0.0 | 95.4 | 4.6 | 769 |
| 45-49 | 0.6 | 3.9 | 0.6 | 0.2 | 0.0 | 95.0 | 5.0 | 626 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 0.4 | 4.2 | 0.2 | 0.1 | 0.1 | 95.0 | 5.0 | 5,023 |
| Greater Monrovia | 0.4 | 5.5 | 0.3 | 0.2 | 0.1 | 93.6 | 6.4 | 2,866 |
| Other urban | 0.4 | 2.6 | 0.2 | 0.0 | 0.0 | 96.9 | 3.1 | 2,157 |
| Rural | 0.2 | 1.1 | 0.6 | 0.1 | 0.0 | 98.1 | 1.9 | 3,042 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 0.7 | 2.7 | 1.1 | 0.1 | 0.0 | 95.7 | 4.3 | 621 |
| South Central | 0.3 | 5.0 | 0.2 | 0.2 | 0.1 | 94.3 | 5.7 | 4,105 |
| South Eastern A | 0.2 | 0.5 | 1.6 | 0.0 | 0.0 | 97.7 | 2.3 | 458 |
| South Eastern B | 0.0 | 1.0 | 0.2 | 0.0 | 0.2 | 98.6 | 1.4 | 441 |
| North Central | 0.3 | 0.7 | 0.2 | 0.0 | 0.0 | 98.8 | 1.2 | 2,439 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 0.7 | 4.0 | 0.0 | 0.2 | 0.0 | 95.9 | 4.1 | 249 |
| Bong | 0.3 | 0.8 | 0.6 | 0.0 | 0.1 | 98.4 | 1.6 | 796 |
| Gbarpolu | 0.5 | 0.2 | 5.3 | 0.0 | 0.0 | 94.1 | 5.9 | 112 |
| Grand Bassa | 0.1 | 2.7 | 0.0 | 0.0 | 0.0 | 97.2 | 2.8 | 467 |
| Grand Cape Mount | 0.9 | 2.5 | 0.4 | 0.0 | 0.0 | 96.3 | 3.7 | 260 |
| Grand Gedeh | 0.2 | 0.4 | 4.2 | 0.0 | 0.0 | 95.5 | 4.5 | 172 |
| Grand Kru | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 99.4 | 0.6 | 136 |
| Lofa | 0.1 | 0.9 | 0.2 | 0.0 | 0.0 | 99.0 | 1.0 | 658 |
| Margibi | 0.1 | 7.5 | 0.6 | 0.3 | 0.0 | 91.5 | 8.5 | 441 |
| Maryland | 0.0 | 1.6 | 0.4 | 0.0 | 0.3 | 97.7 | 2.3 | 215 |
| Montserrado | 0.3 | 5.0 | 0.2 | 0.2 | 0.1 | 94.2 | 5.8 | 3,197 |
| Nimba | 0.4 | 0.4 | 0.0 | 0.1 | 0.0 | 99.1 | 0.9 | 985 |
| River Cess | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 99.9 | 0.1 | 104 |
| River Gee | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 99.8 | 0.2 | 91 |
| Sinoe | 0.3 | 0.9 | 0.1 | 0.0 | 0.0 | 98.7 | 1.3 | 182 |
| Education |  |  |  |  |  |  |  |  |
| No education | 0.1 | 0.9 | 0.4 | 0.0 | 0.0 | 98.7 | 1.3 | 2,474 |
| Elementary | 0.2 | 1.0 | 0.5 | 0.1 | 0.0 | 98.2 | 1.8 | 1,911 |
| Junior high | 0.5 | 2.4 | 0.4 | 0.1 | 0.0 | 96.7 | 3.3 | 1,445 |
| Senior high | 0.2 | 6.4 | 0.2 | 0.1 | 0.1 | 93.1 | 6.9 | 1,761 |
| Higher | 1.9 | 12.0 | 0.8 | 0.9 | 0.2 | 84.7 | 15.3 | 474 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 0.3 | 0.6 | 0.0 | 0.0 | 99.1 | 0.9 | 1,379 |
| Second | 0.1 | 0.7 | 0.8 | 0.0 | 0.0 | 98.5 | 1.5 | 1,431 |
| Middle | 0.2 | 1.0 | 0.3 | 0.1 | 0.0 | 98.4 | 1.6 | 1,517 |
| Fourth | 0.5 | 2.6 | 0.0 | 0.0 | 0.0 | 96.9 | 3.1 | 1,829 |
| Highest | 0.5 | 8.7 | 0.4 | 0.4 | 0.2 | 90.0 | 10.0 | 1,910 |
| Total | 0.3 | 3.0 | 0.4 | 0.1 | 0.0 | 96.2 | 3.8 | 8,065 |

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, Liberia DHS 2019-20

| Background characteristic | Social security | Employerbased insurance | Mutual health organization/ communitybased insurance | Privately purchased commercial insurance | Other | None | Any health insurance | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 1.4 | 5.2 | 0.5 | 0.1 | 0.2 | 92.6 | 7.4 | 876 |
| 20-24 | 0.3 | 1.9 | 0.8 | 0.4 | 0.8 | 95.8 | 4.2 | 658 |
| 25-29 | 0.4 | 3.3 | 0.1 | 0.4 | 0.0 | 95.8 | 4.2 | 558 |
| 30-34 | 1.3 | 6.5 | 2.7 | 0.8 | 0.1 | 88.8 | 11.2 | 494 |
| 35-39 | 0.4 | 5.8 | 1.2 | 0.1 | 0.0 | 92.7 | 7.3 | 487 |
| 40-44 | 0.2 | 6.5 | 0.8 | 0.1 | 0.0 | 92.6 | 7.4 | 418 |
| 45-49 | 1.3 | 9.0 | 0.8 | 0.1 | 0.5 | 89.2 | 10.8 | 330 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 1.1 | 7.1 | 0.6 | 0.4 | 0.2 | 90.6 | 9.4 | 2,313 |
| Greater Monrovia | 1.5 | 8.7 | 0.4 | 0.0 | 0.4 | 89.0 | 11.0 | 1,368 |
| Other urban | 0.6 | 4.7 | 0.8 | 1.0 | 0.1 | 92.9 | 7.1 | 944 |
| Rural | 0.3 | 1.9 | 1.4 | 0.2 | 0.3 | 96.3 | 3.7 | 1,508 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 1.6 | 4.3 | 0.9 | 0.0 | 0.1 | 95.1 | 4.9 | 301 |
| South Central | 1.2 | 7.5 | 0.6 | 0.4 | 0.5 | 89.8 | 10.2 | 1,932 |
| South Eastern A | 0.5 | 4.1 | 0.6 | 0.8 | 0.0 | 94.4 | 5.6 | 254 |
| South Eastern B | 0.1 | 4.0 | 0.4 | 0.2 | 0.0 | 95.3 | 4.7 | 226 |
| North Central | 0.1 | 1.5 | 1.6 | 0.1 | 0.0 | 96.6 | 3.4 | 1,107 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 3.6 | 7.3 | 1.7 | 0.0 | 0.0 | 91.8 | 8.2 | 118 |
| Bong | 0.4 | 2.3 | 0.3 | 0.5 | 0.0 | 96.5 | 3.5 | 324 |
| Gbarpolu | 1.0 | 1.6 | 1.2 | 0.0 | 0.3 | 96.9 | 3.1 | 53 |
| Grand Bassa | 0.0 | 2.9 | 0.8 | 0.3 | 0.7 | 95.3 | 4.7 | 197 |
| Grand Cape Mount | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 97.3 | 2.7 | 130 |
| Grand Gedeh | 1.0 | 2.0 | 0.7 | 0.6 | 0.0 | 95.8 | 4.2 | 92 |
| Grand Kru | 0.0 | 5.3 | 0.5 | 0.0 | 0.0 | 94.2 | 5.8 | 67 |
| Lofa | 0.0 | 0.6 | 4.8 | 0.0 | 0.0 | 94.6 | 5.4 | 287 |
| Margibi | 0.9 | 7.2 | 0.1 | 3.2 | 1.7 | 86.9 | 13.1 | 209 |
| Maryland | 0.0 | 4.2 | 0.4 | 0.4 | 0.0 | 95.0 | 5.0 | 110 |
| Montserrado | 1.4 | 8.1 | 0.7 | 0.0 | 0.3 | 89.5 | 10.5 | 1,525 |
| Nimba | 0.0 | 1.5 | 0.5 | 0.0 | 0.0 | 97.9 | 2.1 | 496 |
| River Cess | 0.0 | 3.7 | 1.7 | 0.0 | 0.0 | 96.3 | 3.7 | 52 |
| River Gee | 0.7 | 1.8 | 0.0 | 0.0 | 0.0 | 97.5 | 2.5 | 50 |
| Sinoe | 0.3 | 6.0 | 0.0 | 1.5 | 0.0 | 92.3 | 7.7 | 110 |
| Education |  |  |  |  |  |  |  |  |
| No education | 0.1 | 1.4 | 1.5 | 0.0 | 0.0 | 97.1 | 2.9 | 498 |
| Elementary | 0.2 | 0.3 | 0.5 | 0.1 | 0.2 | 98.7 | 1.3 | 877 |
| Junior high | 0.8 | 5.1 | 0.3 | 0.3 | 0.4 | 93.2 | 6.8 | 738 |
| Senior high | 1.3 | 5.3 | 1.2 | 0.3 | 0.4 | 91.6 | 8.4 | 1,303 |
| Higher | 1.3 | 18.9 | 1.2 | 1.3 | 0.0 | 78.2 | 21.8 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 0.4 | 0.9 | 0.2 | 0.0 | 98.6 | 1.4 | 657 |
| Second | 0.3 | 2.0 | 1.3 | 0.1 | 0.4 | 96.3 | 3.7 | 663 |
| Middle | 0.0 | 2.4 | 1.1 | 0.8 | 0.3 | 95.5 | 4.5 | 743 |
| Fourth | 0.5 | 4.4 | 1.2 | 0.2 | 0.4 | 93.3 | 6.7 | 838 |
| Highest | 2.6 | 13.3 | 0.3 | 0.3 | 0.1 | 83.7 | 16.3 | 920 |
| Total 15-49 | 0.8 | 5.1 | 0.9 | 0.3 | 0.3 | 92.8 | 7.2 | 3,821 |
| 50-59 | 0.9 | 6.3 | 2.0 | 0.1 | 0.4 | 90.7 | 9.3 | 428 |
| Total 15-59 | 0.8 | 5.2 | 1.0 | 0.3 | 0.3 | 92.6 | 7.4 | 4,249 |


| Table 3.10.1 Tobacco smoking: Women |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 who smoke various tobacco products, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |
| Background characteristic | Percentage who smoke: ${ }^{1}$ |  |  | Number of women |
|  | Cigarettes | Other type of tobacco ${ }^{2}$ | Any type of tobacco |  |
| Age |  |  |  |  |
| 15-19 | 0.7 | 0.9 | 1.0 | 1,657 |
| 20-24 | 0.8 | 1.2 | 2.0 | 1,506 |
| 25-29 | 0.5 | 0.5 | 0.7 | 1,375 |
| 30-34 | 0.5 | 0.5 | 0.8 | 1,112 |
| 35-39 | 0.4 | 0.0 | 0.4 | 1,020 |
| 40-44 | 1.3 | 0.3 | 1.3 | 769 |
| 45-49 | 0.2 | 0.1 | 0.2 | 626 |
| Residence |  |  |  |  |
| Urban | 0.6 | 0.7 | 1.1 | 5,023 |
| Greater Monrovia | 0.8 | 1.2 | 1.6 | 2,866 |
| Other urban | 0.4 | 0.1 | 0.5 | 2,157 |
| Rural | 0.7 | 0.4 | 0.8 | 3,042 |
| Region |  |  |  |  |
| North Western | 0.9 | 0.6 | 1.3 | 621 |
| South Central | 0.7 | 0.9 | 1.2 | 4,105 |
| South Eastern A | 0.2 | 0.1 | 0.3 | 458 |
| South Eastern B | 1.1 | 0.7 | 1.1 | 441 |
| North Central | 0.5 | 0.1 | 0.6 | 2,439 |
| County |  |  |  |  |
| Bomi | 0.2 | 0.8 | 1.0 | 249 |
| Bong | 0.4 | 0.2 | 0.5 | 796 |
| Gbarpolu | 1.1 | 0.2 | 1.3 | 112 |
| Grand Bassa | 0.8 | 0.7 | 1.1 | 467 |
| Grand Cape Mount | 1.6 | 0.6 | 1.6 | 260 |
| Grand Gedeh | 0.2 | 0.2 | 0.4 | 172 |
| Grand Kru | 1.5 | 1.8 | 1.8 | 136 |
| Lofa | 0.6 | 0.0 | 0.6 | 658 |
| Margibi | 0.0 | 0.0 | 0.0 | 441 |
| Maryland | 1.2 | 0.3 | 1.2 | 215 |
| Montserrado | 0.7 | 1.1 | 1.4 | 3,197 |
| Nimba | 0.6 | 0.1 | 0.7 | 985 |
| River Cess | 0.5 | 0.1 | 0.5 | 104 |
| River Gee | 0.1 | 0.0 | 0.1 | 91 |
| Sinoe | 0.1 | 0.0 | 0.1 | 182 |
| Education |  |  |  |  |
| No education | 0.7 | 0.2 | 0.7 | 2,474 |
| Elementary | 0.3 | 0.2 | 0.5 | 1,911 |
| Junior high | 1.1 | 0.9 | 1.1 | 1,445 |
| Senior high | 0.3 | 1.1 | 1.3 | 1,761 |
| Higher | 1.6 | 1.6 | 3.0 | 474 |
| Wealth quintile |  |  |  |  |
| Lowest | 0.8 | 0.3 | 0.9 | 1,379 |
| Second | 0.7 | 0.4 | 0.9 | 1,431 |
| Middle | 0.5 | 0.1 | 0.6 | 1,517 |
| Fourth | 0.2 | 0.5 | 0.5 | 1,829 |
| Highest | 1.0 | 1.5 | 1.9 | 1,910 |
| Total | 0.6 | 0.6 | 1.0 | 8,065 |
| ${ }^{1}$ Includes daily and occasional (less than daily) use <br> ${ }^{2}$ Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes/shisha |  |  |  |  |

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, Liberia DHS 2019-20

| Background characteristic | Percentage who smoke: ${ }^{1}$ |  |  | Smoking frequency |  |  | Total | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes ${ }^{2}$ | Other type of tobacco ${ }^{3}$ | Any type of tobacco | Daily smoker | Occasional smoker ${ }^{4}$ | Non-smoker |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 1.7 | 0.2 | 1.8 | 1.4 | 1.1 | 97.6 | 100.0 | 876 |
| 20-24 | 2.0 | 1.5 | 2.7 | 2.4 | 2.9 | 94.7 | 100.0 | 658 |
| 25-29 | 5.0 | 3.6 | 6.1 | 2.6 | 4.6 | 92.7 | 100.0 | 558 |
| 30-34 | 8.5 | 1.8 | 9.8 | 6.4 | 4.2 | 89.4 | 100.0 | 494 |
| 35-39 | 11.5 | 1.5 | 11.5 | 7.0 | 5.3 | 87.7 | 100.0 | 487 |
| 40-44 | 13.1 | 2.0 | 13.2 | 5.4 | 8.0 | 86.5 | 100.0 | 418 |
| 45-49 | 15.8 | 1.0 | 16.0 | 11.3 | 6.1 | 82.5 | 100.0 | 330 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 4.9 | 2.0 | 5.6 | 3.0 | 3.8 | 93.2 | 100.0 | 2,313 |
| Greater Monrovia | 6.2 | 2.6 | 6.8 | 3.5 | 5.1 | 91.4 | 100.0 | 1,368 |
| Other urban | 3.0 | 1.2 | 3.8 | 2.2 | 1.9 | 95.9 | 100.0 | 944 |
| Rural | 9.8 | 0.9 | 10.0 | 6.6 | 4.5 | 88.9 | 100.0 | 1,508 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 12.9 | 1.1 | 12.9 | 7.7 | 5.6 | 86.7 | 100.0 | 301 |
| South Central | 6.2 | 2.5 | 7.0 | 4.1 | 4.3 | 91.6 | 100.0 | 1,932 |
| South Eastern A | 10.7 | 0.9 | 11.2 | 8.9 | 4.9 | 86.2 | 100.0 | 254 |
| South Eastern B | 5.8 | 0.7 | 6.1 | 4.0 | 3.2 | 92.8 | 100.0 | 226 |
| North Central | 5.6 | 0.4 | 5.6 | 3.1 | 3.1 | 93.8 | 100.0 | 1,107 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 11.0 | 0.1 | 11.0 | 7.2 | 3.9 | 89.0 | 100.0 | 118 |
| Bong | 3.9 | 0.5 | 3.9 | 1.5 | 2.7 | 95.9 | 100.0 | 324 |
| Gbarpolu | 11.0 | 0.0 | 11.0 | 6.9 | 6.5 | 86.6 | 100.0 | 53 |
| Grand Bassa | 10.5 | 2.9 | 12.9 | 9.2 | 4.7 | 86.1 | 100.0 | 197 |
| Grand Cape Mount | 15.4 | 2.3 | 15.4 | 8.5 | 6.9 | 84.6 | 100.0 | 130 |
| Grand Gedeh | 13.3 | 1.0 | 14.3 | 12.1 | 4.0 | 83.9 | 100.0 | 92 |
| Grand Kru | 6.4 | 1.5 | 6.9 | 4.0 | 5.1 | 90.9 | 100.0 | 67 |
| Lofa | 9.7 | 0.3 | 9.7 | 7.2 | 3.7 | 89.1 | 100.0 | 287 |
| Margibi | 2.8 | 2.6 | 4.1 | 3.1 | 1.5 | 95.4 | 100.0 | 209 |
| Maryland | 3.4 | 0.2 | 3.6 | 1.5 | 2.1 | 96.4 | 100.0 | 110 |
| Montserrado | 6.1 | 2.4 | 6.7 | 3.6 | 4.7 | 91.7 | 100.0 | 1,525 |
| Nimba | 4.4 | 0.4 | 4.4 | 1.7 | 3.1 | 95.2 | 100.0 | 496 |
| River Cess | 6.8 | 1.9 | 6.8 | 6.3 | 0.4 | 93.2 | 100.0 | 52 |
| River Gee | 10.2 | 0.7 | 10.6 | 9.6 | 3.1 | 87.3 | 100.0 | 50 |
| Sinoe | 10.4 | 0.4 | 10.8 | 7.5 | 7.9 | 84.7 | 100.0 | 110 |
| Education |  |  |  |  |  |  |  |  |
| No education | 16.1 | 1.0 | 16.4 | 11.3 | 6.1 | 82.6 | 100.0 | 498 |
| Elementary | 6.1 | 1.2 | 6.7 | 3.2 | 4.5 | 92.3 | 100.0 | 877 |
| Junior high | 5.2 | 0.8 | 5.2 | 3.3 | 3.5 | 93.2 | 100.0 | 738 |
| Senior high | 6.0 | 2.2 | 6.4 | 3.9 | 3.9 | 92.2 | 100.0 | 1,303 |
| Higher | 2.5 | 2.4 | 4.2 | 2.1 | 2.1 | 95.8 | 100.0 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 11.7 | 1.1 | 11.8 | 7.5 | 5.4 | 87.1 | 100.0 | 657 |
| Second | 7.6 | 0.6 | 7.8 | 5.5 | 3.6 | 90.9 | 100.0 | 663 |
| Middle | 8.8 | 2.3 | 9.0 | 4.4 | 5.1 | 90.5 | 100.0 | 743 |
| Fourth | 3.8 | 1.4 | 4.6 | 2.7 | 3.8 | 93.5 | 100.0 | 838 |
| Highest | 4.0 | 2.2 | 4.8 | 2.9 | 2.9 | 94.2 | 100.0 | 920 |
| Total 15-49 | 6.8 | 1.6 | 7.3 | 4.4 | 4.1 | 91.5 | 100.0 | 3,821 |
| 50-59 | 13.4 | 2.8 | 13.4 | 7.9 | 5.4 | 86.6 | 100.0 | 428 |
| Total 15-59 | 7.5 | 1.7 | 7.9 | 4.8 | 4.2 | 91.0 | 100.0 | 4,249 |

[^6]| Table 3.11 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, Liberia DHS 2019-20 |  |  |
| Tobacco product | Women | Men |
| Snuff, by mouth | 0.1 | 0.5 |
| Snuff, by nose | 0.0 | 1.3 |
| Chewing tobacco | 0.0 | 0.4 |
| Other type of smokeless tobacco | 0.0 | 0.7 |
| Any type of smokeless tobacco ${ }^{1}$ | 0.1 | 2.5 |
| Any type of tobacco ${ }^{2}$ | 1.1 | 10.1 |
| Number | 8,065 | 3,821 |

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

Table 3.12.1 Knowledge concerning tuberculosis: Women
Percentage of women age 15-49 who have heard of tuberculosis (TB), and among women who have heard of TB, percentage who know about common symptoms of TB, percentage who know that TB is spread through the air by coughing or sneezing, percentage who believe that TB can be cured, and percentage who would not keep it a secret if a family member is diagnosed with TB, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among all respondents: |  | Among respondents who have heard of TB: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Knowledge about common symptoms |  |  | Percentage who report that TB is spread through coughing or sneezing | Percentage who believe that TB can be cured | Percentage who report that they would not want to keep it a secret if a family member is diagnosed with TB | Number of women |
|  | Percentage who have heard of TB | Number of women | Percentage who report coughing for more than 2 weeks | Percentage who report chest pain | Percentage who report hemoptysis |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 85.8 | 1,657 | 43.0 | 13.1 | 55.6 | 49.2 | 66.6 | 81.4 | 1,422 |
| 20-24 | 89.2 | 1,506 | 51.0 | 16.7 | 60.2 | 61.0 | 77.3 | 86.4 | 1,344 |
| 25-29 | 93.3 | 1,375 | 49.2 | 18.5 | 61.2 | 58.0 | 81.2 | 89.4 | 1,283 |
| 30-34 | 94.1 | 1,112 | 46.2 | 21.7 | 68.6 | 59.7 | 84.1 | 87.5 | 1,046 |
| 35-39 | 93.1 | 1,020 | 48.9 | 19.8 | 64.5 | 59.9 | 81.7 | 87.0 | 950 |
| 40-44 | 94.7 | 769 | 49.4 | 20.6 | 58.0 | 57.7 | 85.1 | 85.3 | 728 |
| 45-49 | 95.8 | 626 | 48.7 | 19.7 | 64.3 | 56.1 | 81.4 | 88.3 | 600 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 90.9 | 3,129 | 48.6 | 16.2 | 61.2 | 59.4 | 78.0 | 85.0 | 2,844 |
| Married or living together | 91.0 | 4,216 | 47.7 | 18.8 | 61.2 | 55.0 | 78.2 | 86.9 | 3,837 |
| Divorced/separated/ widowed | 96.0 | 721 | 46.1 | 21.6 | 63.0 | 60.0 | 82.6 | 88.1 | 692 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 93.2 | 5,023 | 47.4 | 18.0 | 63.4 | 60.1 | 82.1 | 86.4 | 4,680 |
| Greater Monrovia | 95.6 | 2,866 | 42.7 | 18.0 | 69.9 | 63.0 | 85.7 | 87.3 | 2,739 |
| Other urban | 90.0 | 2,157 | 53.9 | 18.0 | 54.2 | 55.9 | 76.9 | 85.1 | 1,941 |
| Rural | 88.5 | 3,042 | 48.7 | 18.1 | 57.9 | 52.1 | 72.4 | 86.1 | 2,694 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 87.2 | 621 | 45.6 | 19.4 | 62.5 | 60.2 | 75.0 | 84.1 | 542 |
| South Central | 94.6 | 4,105 | 44.9 | 18.5 | 66.1 | 60.7 | 84.1 | 87.2 | 3,882 |
| South Eastern A | 98.0 | 458 | 49.2 | 27.9 | 69.5 | 64.0 | 75.8 | 89.1 | 449 |
| South Eastern B | 92.1 | 441 | 42.0 | 14.9 | 64.0 | 41.4 | 77.1 | 88.8 | 407 |
| North Central | 85.9 | 2,439 | 54.9 | 15.3 | 49.9 | 51.3 | 70.0 | 84.0 | 2,094 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 96.2 | 249 | 65.2 | 17.5 | 56.9 | 72.0 | 81.4 | 84.8 | 240 |
| Bong | 92.3 | 796 | 57.6 | 9.6 | 58.5 | 53.4 | 74.2 | 90.9 | 735 |
| Gbarpolu | 94.2 | 112 | 36.4 | 28.0 | 74.9 | 58.8 | 67.9 | 94.1 | 105 |
| Grand Bassa | 93.2 | 467 | 46.6 | 24.2 | 62.4 | 64.6 | 80.2 | 87.7 | 435 |
| Grand Cape Mount | 75.7 | 260 | 26.7 | 17.3 | 62.8 | 46.7 | 70.9 | 77.9 | 197 |
| Grand Gedeh | 96.8 | 172 | 51.9 | 39.8 | 68.4 | 64.5 | 81.6 | 93.9 | 167 |
| Grand Kru | 85.0 | 136 | 26.5 | 19.3 | 63.8 | 31.6 | 72.4 | 90.8 | 115 |
| Lofa | 89.2 | 658 | 48.8 | 16.7 | 49.6 | 49.9 | 67.0 | 75.2 | 587 |
| Margibi | 90.2 | 441 | 51.3 | 20.7 | 56.3 | 52.4 | 75.6 | 84.9 | 398 |
| Maryland | 95.6 | 215 | 38.7 | 14.4 | 67.8 | 40.6 | 78.9 | 88.6 | 205 |
| Montserrado | 95.4 | 3,197 | 43.8 | 17.5 | 67.9 | 61.3 | 85.8 | 87.4 | 3,049 |
| Nimba | 78.4 | 985 | 56.9 | 19.6 | 42.0 | 50.5 | 68.3 | 84.2 | 772 |
| River Cess | 98.9 | 104 | 49.6 | 19.8 | 79.9 | 67.8 | 75.8 | 87.5 | 103 |
| River Gee | 94.5 | 91 | 70.4 | 10.1 | 55.4 | 56.4 | 79.2 | 86.6 | 86 |
| Sinoe | 98.5 | 182 | 46.4 | 21.3 | 64.5 | 61.4 | 70.5 | 85.5 | 180 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 87.5 | 2,474 | 47.5 | 17.0 | 56.4 | 50.3 | 72.2 | 84.8 | 2,165 |
| Elementary | 88.1 | 1,911 | 47.3 | 16.2 | 55.8 | 51.2 | 71.7 | 86.9 | 1,682 |
| Junior high | 93.2 | 1,445 | 43.2 | 16.2 | 60.6 | 54.8 | 80.6 | 85.5 | 1,347 |
| Senior high | 97.0 | 1,761 | 48.8 | 19.8 | 68.5 | 67.1 | 88.0 | 88.3 | 1,708 |
| Higher | 99.1 | 474 | 61.4 | 28.4 | 80.0 | 80.7 | 92.2 | 85.9 | 470 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 87.7 | 1,379 | 47.7 | 17.2 | 56.7 | 49.6 | 68.8 | 88.2 | 1,210 |
| Second | 86.2 | 1,431 | 49.3 | 17.3 | 54.5 | 52.8 | 70.7 | 87.3 | 1,233 |
| Middle | 90.7 | 1,517 | 51.0 | 18.7 | 57.2 | 53.2 | 77.9 | 81.1 | 1,376 |
| Fourth | 94.0 | 1,829 | 43.6 | 16.6 | 63.5 | 59.4 | 84.2 | 87.7 | 1,720 |
| Highest | 96.1 | 1,910 | 48.7 | 19.9 | 70.0 | 66.0 | 85.4 | 86.8 | 1,835 |
| Total | 91.4 | 8,065 | 47.9 | 18.0 | 61.4 | 57.2 | 78.5 | 86.3 | 7,373 |

## Table 3.12.2 Knowledge concerning tuberculosis: Men

Percentage of men age 15-49 who have heard of tuberculosis (TB), and among men who have heard of TB, percentage who know about common symptoms of TB, percentage who know that TB is spread through the air by coughing or sneezing, percentage who believe that TB can be cured, and percentage who would not keep it a secret if a family member is diagnosed with TB, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among all respondents: |  | Among respondents who have heard of TB: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Knowledge about common symptoms |  |  | Percentage who report that TB is spread through coughing or sneezing | Percentage who believe that TB can be cured | Percentage who report that they would not want to keep it a secret if a family member is diagnosed with TB | Number of men |
|  | Percentage who have heard of TB | Number of men | Percentage who report coughing for more than 2 weeks | Percentage who report chest pain | Percentage who report hemoptysis |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 94.1 | 1,047 | 65.7 | 26.5 | 56.9 | 68.1 | 83.4 | 88.6 | 986 |
| 20-24 | 91.7 | 877 | 59.3 | 27.5 | 55.5 | 62.0 | 81.7 | 89.0 | 804 |
| 25-29 | 96.0 | 627 | 66.4 | 25.2 | 62.5 | 67.4 | 80.9 | 89.6 | 602 |
| 30-34 | 94.5 | 495 | 68.7 | 33.7 | 58.7 | 70.1 | 83.4 | 89.8 | 468 |
| 35-39 | 91.6 | 533 | 52.7 | 27.4 | 60.1 | 49.2 | 77.6 | 88.8 | 488 |
| 40-44 | 86.2 | 375 | 53.8 | 35.0 | 55.4 | 57.0 | 73.8 | 86.8 | 323 |
| 45-49 | 89.5 | 296 | 58.2 | 25.8 | 59.2 | 54.8 | 73.8 | 85.9 | 265 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married Married or living together | 86.3 | 1,684 | 56.6 | 25.3 | 55.4 | 59.8 | 76.6 | 84.6 | 1,453 |
|  | 96.7 | 1,906 | 64.2 | 29.7 | 58.4 | 63.9 | 81.8 | 91.2 | 1,843 |
| Divorced/separated/ widowed | 95.2 | 231 | 72.8 | 21.8 | 65.0 | 71.7 | 87.4 | 87.7 | 220 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 93.5 | 2,313 | 66.8 | 27.8 | 60.1 | 70.5 | 82.8 | 87.5 | 2,162 |
| Greater Monrovia | 96.1 | 1,368 | 79.5 | 25.4 | 61.1 | 82.2 | 88.1 | 86.6 | 1,315 |
| Other urban | 89.7 | 944 | 47.1 | 31.5 | 58.6 | 52.4 | 74.7 | 88.8 | 848 |
| Rural | 89.8 | 1,508 | 53.2 | 26.7 | 53.5 | 50.3 | 75.5 | 89.6 | 1,354 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 85.6 | 301 | 63.2 | 37.6 | 63.6 | 68.4 | 77.1 | 93.8 | 258 |
| South Central | 95.9 | 1,932 | 76.9 | 23.1 | 58.4 | 76.7 | 86.1 | 84.8 | 1,853 |
| South Eastern A | 95.3 | 254 | 76.5 | 27.4 | 51.7 | 60.6 | 70.8 | 85.5 | 242 |
| South Eastern B | 87.5 | 226 | 48.2 | 36.8 | 51.5 | 53.5 | 65.2 | 93.8 | 198 |
| North Central | 87.1 | 1,107 | 30.7 | 30.8 | 57.1 | 36.9 | 74.4 | 93.1 | 965 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 93.0 | 118 | 92.0 | 46.6 | 83.7 | 93.6 | 89.9 | 93.5 | 109 |
| Bong | 92.5 | 324 | 47.8 | 20.4 | 60.0 | 55.5 | 67.8 | 92.4 | 300 |
| Gbarpolu | 92.2 | 53 | 73.5 | 23.9 | 61.9 | 64.8 | 72.2 | 92.9 | 49 |
| Grand Bassa | 95.9 | 197 | 81.5 | 14.3 | 49.9 | 51.3 | 76.9 | 84.6 | 189 |
| Grand Cape Mount | 76.2 | 130 | 26.3 | 34.4 | 42.3 | 42.3 | 65.4 | 94.5 | 99 |
| Grand Gedeh | 89.5 | 92 | 76.4 | 38.4 | 60.8 | 66.5 | 64.3 | 82.4 | 82 |
| Grand Kru | 79.0 | 67 | 90.1 | 46.2 | 63.1 | 77.1 | 72.6 | 89.2 | 53 |
| Lofa | 78.7 | 287 | 45.4 | 19.8 | 28.3 | 37.3 | 70.4 | 95.5 | 226 |
| Margibi | 96.6 | 209 | 68.7 | 20.2 | 65.6 | 71.6 | 81.7 | 86.4 | 202 |
| Maryland | 91.6 | 110 | 38.1 | 37.6 | 45.3 | 44.1 | 60.7 | 97.4 | 101 |
| Montserrado | 95.8 | 1,525 | 77.5 | 24.7 | 58.5 | 80.7 | 87.9 | 84.6 | 1,461 |
| Nimba | 88.5 | 496 | 11.5 | 43.5 | 70.0 | 23.8 | 81.0 | 92.4 | 439 |
| River Cess | 97.8 | 52 | 91.5 | 22.2 | 75.2 | 85.0 | 88.2 | 95.6 | 51 |
| River Gee | 90.0 | 50 | 21.6 | 24.1 | 51.6 | 46.5 | 66.7 | 91.1 | 45 |
| Sinoe | 99.0 | 110 | 69.5 | 21.5 | 33.8 | 44.7 | 67.6 | 83.0 | 109 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 85.8 | 498 | 50.8 | 26.1 | 53.3 | 46.3 | 71.9 | 91.0 | 427 |
| Elementary | 81.2 | 877 | 52.2 | 23.0 | 50.2 | 49.2 | 66.6 | 87.8 | 712 |
| Junior high | 94.2 | 738 | 56.5 | 27.9 | 59.1 | 55.5 | 77.3 | 88.2 | 695 |
| Senior high | 98.1 | 1,303 | 69.6 | 29.0 | 62.5 | 72.8 | 88.1 | 89.0 | 1,278 |
| Higher | 99.6 | 405 | 72.9 | 30.2 | 56.7 | 84.4 | 91.3 | 84.1 | 403 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 89.8 | 657 | 49.5 | 32.9 | 54.6 | 46.0 | 70.1 | 91.7 | 590 |
| Second | 86.5 | 663 | 48.1 | 29.0 | 54.9 | 48.2 | 74.6 | 93.0 | 573 |
| Middle | 90.9 | 743 | 54.9 | 22.1 | 56.9 | 52.9 | 79.2 | 89.7 | 675 |
| Fourth | 94.4 | 838 | 72.3 | 27.0 | 61.3 | 75.7 | 85.3 | 85.6 | 790 |
| Highest | 96.4 | 920 | 73.8 | 26.8 | 58.5 | 79.1 | 86.0 | 84.3 | 887 |
| Total 15-49 | 92.0 | 3,821 | 61.6 | 27.3 | 57.6 | 62.7 | 80.0 | 88.3 | 3,516 |
| 50-59 | 98.0 | 428 | 63.4 | 34.5 | 62.6 | 64.0 | 84.8 | 91.9 | 420 |
| Total 15-59 | 92.6 | 4,249 | 61.8 | 28.1 | 58.1 | 62.9 | 80.5 | 88.7 | 3,935 |

Table 3.13.1 Possession of identity documents: Women
Percentage of women age 15-49 who possess a form of identification document (ID), and among women who possess a form of ID, percentage who possess a birth certificate, a voter card, and a national ID, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among all respondents: |  | Among respondents who possess a form of ID: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who possess a form of ID | Number of women | Percentage who possess a birth certificate | Percentage who possess a voter card | Percentage who possess a national ID | Number of women |
| Age |  |  |  |  |  |  |
| 15-19 | 25.2 | 1,657 | 64.9 | 39.5 | 7.4 | 418 |
| 20-24 | 77.2 | 1,506 | 18.5 | 95.8 | 9.2 | 1,162 |
| 25-29 | 89.4 | 1,375 | 20.4 | 96.6 | 13.2 | 1,229 |
| 30-34 | 92.2 | 1,112 | 18.4 | 97.9 | 13.2 | 1,025 |
| 35-39 | 92.0 | 1,020 | 16.5 | 97.9 | 12.0 | 938 |
| 40-44 | 92.4 | 769 | 12.5 | 97.9 | 11.6 | 711 |
| 45-49 | 92.5 | 626 | 12.6 | 97.9 | 8.2 | 579 |
| Marital status |  |  |  |  |  |  |
| Never married | 57.5 | 3,129 | 34.8 | 83.0 | 14.8 | 1,799 |
| Married or living together | 85.7 | 4,216 | 14.5 | 97.4 | 9.9 | 3,614 |
| Divorced/separated/ widowed | 90.0 | 721 | 14.4 | 98.3 | 8.2 | 648 |
| Residence |  |  |  |  |  |  |
| Urban | 76.0 | 5,023 | 27.6 | 91.4 | 15.9 | 3,819 |
| Greater Monrovia | 76.6 | 2,866 | 32.3 | 89.8 | 20.7 | 2,195 |
| Other urban | 75.3 | 2,157 | 21.3 | 93.6 | 9.3 | 1,623 |
| Rural | 73.7 | 3,042 | 8.4 | 96.3 | 3.2 | 2,243 |
| Region |  |  |  |  |  |  |
| North Western | 73.8 | 621 | 18.5 | 94.2 | 4.4 | 458 |
| South Central | 73.4 | 4,105 | 28.0 | 90.9 | 16.8 | 3,014 |
| South Eastern A | 77.9 | 458 | 11.3 | 96.1 | 7.4 | 357 |
| South Eastern B | 74.7 | 441 | 12.9 | 95.5 | 6.8 | 330 |
| North Central | 78.0 | 2,439 | 12.0 | 95.7 | 5.3 | 1,903 |
| County |  |  |  |  |  |  |
| Bomi | 73.5 | 249 | 18.6 | 92.5 | 5.7 | 183 |
| Bong | 75.8 | 796 | 11.5 | 95.3 | 5.1 | 604 |
| Gbarpolu | 77.5 | 112 | 13.2 | 95.2 | 2.7 | 86 |
| Grand Bassa | 67.9 | 467 | 10.5 | 95.6 | 6.0 | 317 |
| Grand Cape Mount | 72.6 | 260 | 20.9 | 95.5 | 4.0 | 189 |
| Grand Gedeh | 82.1 | 172 | 15.8 | 93.2 | 10.6 | 141 |
| Grand Kru | 71.8 | 136 | 4.0 | 95.6 | 7.1 | 97 |
| Lofa | 72.4 | 658 | 7.6 | 95.5 | 3.6 | 476 |
| Margibi | 64.2 | 441 | 21.7 | 92.3 | 7.0 | 283 |
| Maryland | 76.5 | 215 | 21.6 | 94.7 | 7.0 | 164 |
| Montserrado | 75.5 | 3,197 | 31.1 | 90.1 | 19.4 | 2,414 |
| Nimba | 83.6 | 985 | 15.0 | 96.0 | 6.5 | 823 |
| River Cess | 76.6 | 104 | 6.4 | 97.2 | 2.0 | 79 |
| River Gee | 74.5 | 91 | 4.5 | 97.2 | 6.1 | 68 |
| Sinoe | 74.6 | 182 | 9.5 | 98.4 | 7.4 | 136 |
| Education |  |  |  |  |  |  |
| No education | 80.0 | 2,474 | 4.8 | 97.4 | 4.2 | 1,979 |
| Elementary | 61.3 | 1,911 | 14.7 | 92.2 | 6.5 | 1,172 |
| Junior high | 66.8 | 1,445 | 23.6 | 85.0 | 6.4 | 965 |
| Senior high | 84.8 | 1,761 | 33.2 | 92.4 | 17.0 | 1,494 |
| Higher | 95.2 | 474 | 55.7 | 97.7 | 44.9 | 452 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 75.1 | 1,379 | 6.4 | 97.7 | 2.6 | 1,036 |
| Second | 75.2 | 1,431 | 7.4 | 96.4 | 3.9 | 1,076 |
| Middle | 73.5 | 1,517 | 14.1 | 94.1 | 5.6 | 1,114 |
| Fourth | 75.6 | 1,829 | 22.7 | 91.9 | 9.9 | 1,383 |
| Highest | 76.1 | 1,910 | 43.0 | 88.1 | 28.2 | 1,452 |
| Total | 75.2 | 8,065 | 20.5 | 93.2 | 11.2 | 6,062 |

Table 3.13.2 Possession of identity documents: Men
Percentage of men age 15-49 who possess a form of identification document (ID), and among men who possess a form of ID, percentage who possess a birth certificate, a voter card, and a national ID, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among all respondents: |  | Among respondents who possess a form of ID: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who possess a form of ID | Number of men | Percentage who possess a birth certificate | Percentage who possess a voter card | Percentage who possess a national ID | Number of men |
| Age |  |  |  |  |  |  |
| 15-19 | 76.6 | 1,047 | 35.6 | 88.0 | 21.1 | 802 |
| 20-24 | 77.3 | 877 | 30.6 | 89.3 | 14.3 | 677 |
| 25-29 | 78.3 | 627 | 30.3 | 96.6 | 19.6 | 491 |
| 30-34 | 81.9 | 495 | 23.7 | 91.8 | 17.3 | 406 |
| 35-39 | 73.7 | 533 | 20.3 | 93.5 | 11.4 | 392 |
| 40-44 | 74.9 | 375 | 27.5 | 90.3 | 12.8 | 281 |
| 45-49 | 75.9 | 296 | 33.8 | 87.2 | 17.2 | 224 |
| Marital status |  |  |  |  |  |  |
| Never married | 55.7 | 1,684 | 47.2 | 75.4 | 12.8 | 938 |
| Married or living together | 90.9 | 1,906 | 22.7 | 97.6 | 17.4 | 1,732 |
| Divorced/separated/ widowed | 85.0 | 231 | 46.7 | 86.1 | 16.3 | 196 |
| Residence |  |  |  |  |  |  |
| Urban | 74.4 | 2,313 | 40.3 | 86.2 | 19.7 | 1,720 |
| Greater Monrovia | 74.8 | 1,368 | 47.0 | 82.8 | 22.6 | 1,023 |
| Other urban | 73.8 | 944 | 30.4 | 91.1 | 15.4 | 697 |
| Rural | 76.0 | 1,508 | 20.5 | 94.5 | 10.0 | 1,146 |
| Region |  |  |  |  |  |  |
| North Western | 63.3 | 301 | 15.0 | 96.3 | 8.4 | 191 |
| South Central | 75.8 | 1,932 | 42.5 | 84.5 | 20.2 | 1,465 |
| South Eastern A | 74.5 | 254 | 24.3 | 94.5 | 20.6 | 189 |
| South Eastern B | 74.4 | 226 | 14.9 | 95.8 | 16.1 | 168 |
| North Central | 77.0 | 1,107 | 24.1 | 94.3 | 8.8 | 853 |
| County |  |  |  |  |  |  |
| Bomi | 69.1 | 118 | 15.3 | 97.1 | 11.1 | 81 |
| Bong | 77.7 | 324 | 30.3 | 89.9 | 8.0 | 252 |
| Gbarpolu | 81.5 | 53 | 14.9 | 96.1 | 12.6 | 43 |
| Grand Bassa | 78.6 | 197 | 28.7 | 90.3 | 7.6 | 155 |
| Grand Cape Mount | 50.6 | 130 | 14.7 | 95.4 | 2.3 | 66 |
| Grand Gedeh | 72.5 | 92 | 18.9 | 96.6 | 17.1 | 67 |
| Grand Kru | 76.5 | 67 | 20.5 | 96.2 | 25.2 | 51 |
| Lofa | 76.5 | 287 | 28.1 | 94.4 | 13.5 | 220 |
| Margibi | 79.5 | 209 | 35.9 | 87.0 | 21.7 | 166 |
| Maryland | 74.2 | 110 | 7.4 | 97.8 | 7.2 | 82 |
| Montserrado | 75.0 | 1,525 | 45.4 | 83.3 | 21.7 | 1,144 |
| Nimba | 76.9 | 496 | 17.6 | 97.2 | 6.7 | 381 |
| River Cess | 71.8 | 52 | 13.2 | 97.2 | 22.9 | 37 |
| River Gee | 71.8 | 50 | 23.9 | 90.8 | 23.4 | 36 |
| Sinoe | 77.6 | 110 | 33.3 | 91.8 | 22.3 | 85 |
| Education |  |  |  |  |  |  |
| No education | 74.5 | 498 | 9.7 | 98.4 | 7.4 | 371 |
| Elementary | 54.2 | 877 | 25.7 | 84.8 | 5.5 | 475 |
| Junior high | 68.1 | 738 | 31.3 | 81.4 | 8.5 | 502 |
| Senior high | 86.5 | 1,303 | 33.1 | 91.1 | 17.8 | 1,128 |
| Higher | 96.4 | 405 | 61.3 | 92.6 | 40.1 | 390 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 75.5 | 657 | 12.5 | 97.5 | 5.4 | 496 |
| Second | 75.4 | 663 | 19.4 | 95.9 | 9.4 | 499 |
| Middle | 71.6 | 743 | 24.9 | 92.2 | 12.1 | 532 |
| Fourth | 72.9 | 838 | 39.5 | 82.3 | 16.3 | 611 |
| Highest | 79.1 | 920 | 54.2 | 83.8 | 29.5 | 728 |
| Total 15-49 | 75.0 | 3,821 | 32.4 | 89.5 | 15.8 | 2,866 |
| 50-59 | 94.9 | 428 | 10.3 | 99.9 | 24.1 | 406 |
| Total 15-59 | 77.0 | 4,249 | 29.6 | 90.8 | 16.8 | 3,273 |

## MARRIAGE AND SEXUAL ACTIVITY

## Key Findings

- Current marital status: $52 \%$ of women and $50 \%$ of men age 15-49 are currently married or living together with a partner as though married.
- Polygyny: 10\% of women age 15-49 have one or more co-wives.
- Median age at first marriage: The median age at first marriage is 21.2 years among women and 24.5 years among men age 25-49.
- Median age at first sexual intercourse: The median age at first sexual intercourse among women age 20-49 is 16.1 years.

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

### 4.1 Marital Status

## Currently married

Women and men who report being married or living together with a partner as though married at the time of the survey.
Sample: Women and men age 15-49

Table 4.1 and Figure 4.1 show that $52 \%$ of women and $50 \%$ of men age 15-49 are currently in union. About half of these unions are marriages, while in the other half a woman and man are living together as though married. Thirty-nine percent of women have never been married, as compared with $44 \%$ of men. At younger ages, more women than men are married or in union; by age $45-49$, however, $89 \%$ of men and $72 \%$ of women are married or in union.

Trends: The percentage of women who are currently married or in union has declined over time, from $64 \%$ in 2007 to $52 \%$ in 2019-20. The percentage of men who are married or in union decreased from $57 \%$ in 2007 to $50 \%$ in 2019-20.

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


Note: Figures may not add up to $100 \%$ due to rounding.

### 4.2 Polygyny

## Polygyny

Women who report that their husband or partner has other wives are considered to be in a polygynous marriage.
Men who report that they have more than one wife, or who live with more than one woman as if married, are considered to be in a polygynous marriage.
Sample: Currently married women and men age 15-49

Tables 4.2.1 and 4.2.2 present the number of co-wives reported by women and the number of wives reported by men. A total of $10 \%$ of women age $15-49$ reported that their husband has other wives (Table 4.2.1). Younger women are less likely than women over age 35 to report that their husband has other wives. As education levels increase, the percentage of women who report having co-wives generally decreases. Only $4 \%$ of men age 15-49 reported having more than one wife.

Trends: The percentage of married women in a polygynous union has declined over time, from $16 \%$ in 2007 to $10 \%$ in 2019-20.

Patterns by background characteristics

- Eight percent of men with no education report having more than one wife, as compared with $1 \%$ of men with a higher education.
- Men who live in households in the top two wealth quintiles ( $2 \%$ each) are less likely to report having more than one wife than those in the lowest two quintiles ( $4 \%$ and $8 \%$, respectively).
- The percentage of men with more than one wife increases with age, from $1 \%$ among those age 20-24 to $8 \%$ among those age 4549.
- The percentage of women in a polygynous marriage varies by county, ranging from $5 \%$ in Margibi and Montserrado to $23 \%$ in Lofa (Figure 4.2).


### 4.3 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

When marriage and sexual activity begin at young ages, childbearing often begins at early ages and is therefore linked to patterns of fertility. Direct measures of exposure to pregnancy are age at first intercourse and frequency of intercourse.

Women and men were independently asked the month and year that they started living together with their first spouse. Table 4.3 presents the percentages of women and men age $25-49$ who first married by exact ages and median ages at marriage. The median age at first marriage is 21.2 years women age $25-49$. Median ages at first marriage are 19.8 years among women age 45-49 and 22.6 years among women age $25-29$, indicating that the median age has risen by almost 1 year every 5 years.

Men tend to marry later than women. The median age at first marriage among men age $25-49$ is 24.5 years, almost 3 years higher than the median age among women. There are only minimal differences by age group; the median age at first marriage is 25.3 years among men age $45-49$, as compared with 24.0 years among men age 25-29.

Trends: Median age at first marriage has increased over time among both women (from 18.4 years in 2007 to 21.2 years in 2019-20) and men (from 23.9 years in 2007 to 24.5 years in 2019-20).

## Patterns by background characteristics

- Median age at first marriage among women age 25-49 is lower (19.1 years) in rural areas than in urban areas (23.3 years) (Table 4.4).
- Among women age 25-49, median age at first marriage generally increases with increasing wealth.


### 4.4 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 and 25-49 and men age 20-59 and 25-59

The median age at first sexual intercourse among women age 20-49 in Liberia is 16.1 years (Table 4.5). The median age changes only slightly between age groups, peaking at 16.4 years among women age $20-24$ before falling to 16.0 years by age 30-34 and then remaining constant through age 45-49.

Among men age 20-59, the median age at first sexual intercourse is 18.4 years. Among men age 20-49, median age at first intercourse increases with increasing age, from 17.4 years among men age 20-24 to 19.2 years among men age 45-49.

Trends: Median age at first sexual intercourse among women age 25-49 has remained relatively stable over time, declining only slightly from 16.2 years in 2007 to 16.1 years in 2019-20. Median age at first intercourse among men age 25-49 has increased slightly during the same period, from 18.2 years to 18.5 years.

## Patterns by background characteristics

- Among women age 20-49, median age at first sexual intercourse is higher in urban areas (16.4 years) than in rural areas (15.8 years) (Table 4.6).
- Median age at first sexual intercourse among women age 20-49 increases with increasing household wealth, from 15.8 years among those in the lowest wealth quintile to 16.6 years among those in the highest quintile.
- Median age also increases with increasing education, from 15.8 years among women with no education to 17.2 years among those with a higher education.


### 4.5 Recent Sexual Activity

Information on sexual activity can be used to refine measures of exposure to pregnancy. Women and men were asked to report on the frequency and timing of their sexual activity. Tables 4.7.1 and 4.7.2 show that over half of women and men have had sexual intercourse within the last 4 weeks. Only $7 \%$ of women and $14 \%$ of men age $15-49$ report that they have never had sex.

## LIST OF TABLES

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

- Table 4.1 Current marital status
- Table 4.2.1 Number of women's co-wives
- Table 4.2.2 Number of men's wives
- Table 4.3 Age at first marriage
- Table 4.4 Median age at first marriage by background characteristics
- Table 4.5 Age at first sexual intercourse
- Table 4.6 Median age at first sexual intercourse according to background characteristics
- Table 4.7.1 Recent sexual activity: Women
- Table 4.7.2 Recent sexual activity: Men

Table 4.1 Current marital status
Percent distribution of women and men age 15-49 by current marital status, according to age, Liberia DHS 2019-20

| Age | Marital status |  |  |  |  |  | Total | Percentage of respondents currently in union | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married | Living together | Divorced | Separated | Widowed |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| 15-19 | 86.4 | 2.2 | 10.1 | 0.0 | 1.3 | 0.0 | 100.0 | 12.3 | 1,657 |
| 20-24 | 51.8 | 13.1 | 28.4 | 0.0 | 6.6 | 0.0 | 100.0 | 41.5 | 1,506 |
| 25-29 | 34.1 | 22.4 | 34.9 | 0.2 | 7.8 | 0.6 | 100.0 | 57.3 | 1,375 |
| 30-34 | 17.3 | 34.6 | 39.1 | 0.5 | 7.6 | 1.0 | 100.0 | 73.6 | 1,112 |
| 35-39 | 10.6 | 43.7 | 33.2 | 1.2 | 8.6 | 2.6 | 100.0 | 76.9 | 1,020 |
| 40-44 | 13.9 | 47.0 | 23.9 | 1.4 | 8.9 | 4.9 | 100.0 | 70.9 | 769 |
| 45-49 | 6.6 | 53.1 | 18.7 | 2.3 | 10.9 | 8.3 | 100.0 | 71.8 | 626 |
| Total 15-49 | 38.8 | 25.6 | 26.6 | 0.6 | 6.7 | 1.7 | 100.0 | 52.3 | 8,065 |
| MEN |  |  |  |  |  |  |  |  |  |
| 15-19 | 98.0 | 0.1 | 1.3 | 0.0 | 0.6 | 0.0 | 100.0 | 1.4 | 876 |
| 20-24 | 74.3 | 4.9 | 16.5 | 0.4 | 3.9 | 0.0 | 100.0 | 21.4 | 658 |
| 25-29 | 35.1 | 18.0 | 37.1 | 1.0 | 8.1 | 0.7 | 100.0 | 55.1 | 558 |
| 30-34 | 18.3 | 26.3 | 48.0 | 0.9 | 6.4 | 0.1 | 100.0 | 74.3 | 494 |
| 35-39 | 4.7 | 40.3 | 47.8 | 1.0 | 5.3 | 0.9 | 100.0 | 88.1 | 487 |
| 40-44 | 4.9 | 48.1 | 37.2 | 0.4 | 8.4 | 1.0 | 100.0 | 85.3 | 418 |
| 45-49 | 2.3 | 51.5 | 37.3 | 0.8 | 6.1 | 2.0 | 100.0 | 88.8 | 330 |
| Total 15-49 | 44.1 | 21.7 | 28.1 | 0.6 | 4.9 | 0.5 | 100.0 | 49.9 | 3,821 |
| 50-59 | 4.0 | 61.0 | 22.6 | 1.8 | 9.2 | 1.5 | 100.0 | 83.6 | 428 |
| Total 15-59 | 40.0 | 25.7 | 27.6 | 0.7 | 5.4 | 0.6 | 100.0 | 53.3 | 4,249 |

Table 4.2.1 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, Liberia DHS 2019-20

| Background characteristic | Number of co-wives |  |  |  | Total | Percentage with one or more cowives ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2+ | Don't know |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 89.5 | 8.1 | 0.0 | 2.4 | 100.0 | 8.1 | 204 |
| 20-24 | 89.2 | 7.4 | 0.3 | 3.1 | 100.0 | 7.7 | 625 |
| 25-29 | 91.5 | 6.6 | 0.4 | 1.5 | 100.0 | 7.0 | 788 |
| 30-34 | 89.8 | 7.3 | 0.7 | 2.2 | 100.0 | 8.0 | 819 |
| 35-39 | 85.3 | 11.9 | 1.3 | 1.6 | 100.0 | 13.2 | 785 |
| 40-44 | 84.5 | 14.3 | 0.5 | 0.7 | 100.0 | 14.8 | 545 |
| 45-49 | 85.3 | 10.7 | 3.2 | 0.8 | 100.0 | 13.8 | 449 |
| Residence |  |  |  |  |  |  |  |
| Urban | 90.4 | 7.2 | 0.5 | 1.9 | 100.0 | 7.7 | 2,268 |
| Greater Monrovia | 93.1 | 3.8 | 0.3 | 2.8 | 100.0 | 4.1 | 1,150 |
| Other urban | 87.6 | 10.7 | 0.7 | 1.0 | 100.0 | 11.4 | 1,118 |
| Rural | 85.2 | 11.8 | 1.4 | 1.6 | 100.0 | 13.2 | 1,947 |
| Region |  |  |  |  |  |  |  |
| North Western | 79.7 | 15.7 | 1.9 | 2.7 | 100.0 | 17.6 | 400 |
| South Central | 92.2 | 5.2 | 0.2 | 2.4 | 100.0 | 5.4 | 1,801 |
| South Eastern A | 89.1 | 9.1 | 0.9 | 0.9 | 100.0 | 10.0 | 296 |
| South Eastern B | 82.3 | 14.6 | 1.9 | 1.3 | 100.0 | 16.4 | 254 |
| North Central | 85.9 | 11.9 | 1.3 | 1.0 | 100.0 | 13.1 | 1,464 |
| County |  |  |  |  |  |  |  |
| Bomi | 80.8 | 16.8 | 0.6 | 1.8 | 100.0 | 17.4 | 148 |
| Bong | 92.4 | 7.0 | 0.3 | 0.3 | 100.0 | 7.3 | 411 |
| Gbarpolu | 83.4 | 13.9 | 1.5 | 1.2 | 100.0 | 15.4 | 80 |
| Grand Bassa | 88.9 | 9.3 | 0.3 | 1.5 | 100.0 | 9.6 | 253 |
| Grand Cape Mount | 77.0 | 15.6 | 3.2 | 4.2 | 100.0 | 18.8 | 172 |
| Grand Gedeh | 89.9 | 8.1 | 1.0 | 1.0 | 100.0 | 9.1 | 116 |
| Grand Kru | 81.2 | 15.1 | 3.4 | 0.3 | 100.0 | 18.5 | 79 |
| Lofa | 76.9 | 18.6 | 3.9 | 0.6 | 100.0 | 22.5 | 380 |
| Margibi | 93.4 | 5.3 | 0.1 | 1.2 | 100.0 | 5.4 | 239 |
| Maryland | 82.3 | 14.1 | 1.1 | 2.5 | 100.0 | 15.2 | 120 |
| Montserrado | 92.6 | 4.3 | 0.2 | 2.8 | 100.0 | 4.6 | 1,309 |
| Nimba | 87.1 | 11.1 | 0.3 | 1.5 | 100.0 | 11.4 | 673 |
| River Cess | 90.1 | 7.3 | 0.2 | 2.5 | 100.0 | 7.4 | 66 |
| River Gee | 83.8 | 14.8 | 1.4 | 0.0 | 100.0 | 16.2 | 56 |
| Sinoe | 87.7 | 11.0 | 1.3 | 0.0 | 100.0 | 12.3 | 114 |
| Education |  |  |  |  |  |  |  |
| No education | 84.3 | 13.2 | 1.5 | 0.9 | 100.0 | 14.7 | 1,814 |
| Elementary | 87.2 | 9.6 | 0.5 | 2.7 | 100.0 | 10.1 | 935 |
| Junior high | 89.5 | 7.6 | 0.7 | 2.2 | 100.0 | 8.3 | 586 |
| Senior high | 96.2 | 2.2 | 0.0 | 1.6 | 100.0 | 2.2 | 697 |
| Higher | 92.6 | 2.5 | 0.6 | 4.3 | 100.0 | 3.1 | 184 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 87.6 | 10.5 | 0.4 | 1.5 | 100.0 | 10.9 | 930 |
| Second | 84.7 | 12.6 | 1.3 | 1.4 | 100.0 | 13.9 | 903 |
| Middle | 84.3 | 12.8 | 1.8 | 1.1 | 100.0 | 14.6 | 808 |
| Fourth | 92.4 | 5.0 | 0.3 | 2.3 | 100.0 | 5.3 | 783 |
| Highest | 91.7 | 5.0 | 0.6 | 2.7 | 100.0 | 5.6 | 792 |
| Total | 88.0 | 9.3 | 0.9 | 1.8 | 100.0 | 10.2 | 4,216 |

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

| Table 4.2.2 Number of men's wives |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Percent distribution of currently married men age 15-49 by number of wives, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |
| Background characteristic | Number of wives |  | Total | Number of men |
|  | 1 | 2+ |  |  |
| Age |  |  |  |  |
| 15-19 | * | * | 100.0 | 12 |
| 20-24 | 99.4 | 0.6 | 100.0 | 141 |
| 25-29 | 96.9 | 3.1 | 100.0 | 308 |
| 30-34 | 97.7 | 2.3 | 100.0 | 367 |
| 35-39 | 95.0 | 5.0 | 100.0 | 429 |
| 40-44 | 94.7 | 5.3 | 100.0 | 357 |
| 45-49 | 91.8 | 8.2 | 100.0 | 293 |
| Residence |  |  |  |  |
| Urban | 96.9 | 3.1 | 100.0 | 1,004 |
| Greater Monrovia | 98.5 | 1.5 | 100.0 | 583 |
| Other urban | 94.7 | 5.3 | 100.0 | 422 |
| Rural | 94.2 | 5.8 | 100.0 | 901 |
| Region |  |  |  |  |
| North Western | 94.7 | 5.3 | 100.0 | 175 |
| South Central | 97.5 | 2.5 | 100.0 | 878 |
| South Eastern A | 94.1 | 5.9 | 100.0 | 148 |
| South Eastern B | 93.0 | 7.0 | 100.0 | 109 |
| North Central | 94.0 | 6.0 | 100.0 | 596 |
| County |  |  |  |  |
| Bomi | 95.2 | 4.8 | 100.0 | 63 |
| Bong | 99.5 | 0.5 | 100.0 | 169 |
| Gbarpolu | 93.7 | 6.3 | 100.0 | 37 |
| Grand Bassa | 91.9 | 8.1 | 100.0 | 111 |
| Grand Cape Mount | 94.7 | 5.3 | 100.0 | 75 |
| Grand Gedeh | 92.8 | 7.2 | 100.0 | 55 |
| Grand Kru | 93.2 | 6.8 | 100.0 | 37 |
| Lofa | 86.3 | 13.7 | 100.0 | 154 |
| Margibi | 97.3 | 2.7 | 100.0 | 106 |
| Maryland | 92.1 | 7.9 | 100.0 | 47 |
| Montserrado | 98.5 | 1.5 | 100.0 | 662 |
| Nimba | 94.8 | 5.2 | 100.0 | 273 |
| River Cess | 99.0 | 1.0 | 100.0 | 27 |
| River Gee | 94.4 | 5.6 | 100.0 | 25 |
| Sinoe | 93.1 | 6.9 | 100.0 | 66 |
| Education |  |  |  |  |
| No education | 92.5 | 7.5 | 100.0 | 343 |
| Elementary | 94.2 | 5.8 | 100.0 | 349 |
| Junior high | 95.0 | 5.0 | 100.0 | 298 |
| Senior high | 97.1 | 2.9 | 100.0 | 687 |
| Higher | 98.9 | 1.1 | 100.0 | 229 |
| Wealth quintile |  |  |  |  |
| Lowest | 95.8 | 4.2 | 100.0 | 417 |
| Second | 91.7 | 8.3 | 100.0 | 397 |
| Middle | 93.9 | 6.1 | 100.0 | 335 |
| Fourth | 98.5 | 1.5 | 100.0 | 362 |
| Highest | 98.2 | 1.8 | 100.0 | 395 |
| Total 15-49 | 95.6 | 4.4 | 100.0 | 1,906 |
| 50-59 | 86.4 | 13.6 | 100.0 | 358 |
| Total 15-59 | 94.2 | 5.8 | 100.0 | 2,264 |

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

Table 4.3 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, Liberia DHS 2019-20

| Current age | Percentage first married by exact age: |  |  |  |  | Percentage never married | Number of respondents | Median age at first marriage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 2.7 | na | na | na | na | 86.4 | 1,657 | a |
| 20-24 | 5.8 | 24.9 | 36.8 | na | na | 51.8 | 1,506 | a |
| 25-29 | 9.7 | 27.3 | 38.4 | 46.5 | 59.5 | 34.1 | 1,375 | 22.6 |
| 30-34 | 12.3 | 32.5 | 47.9 | 59.5 | 67.1 | 17.3 | 1,112 | 20.4 |
| 35-39 | 7.7 | 28.7 | 41.3 | 52.0 | 65.1 | 10.6 | 1,020 | 21.6 |
| 40-44 | 10.9 | 32.3 | 44.7 | 56.8 | 67.3 | 13.9 | 769 | 20.9 |
| 45-49 | 12.6 | 37.8 | 51.4 | 60.6 | 68.6 | 6.6 | 626 | 19.8 |
| 20-49 | 9.3 | 29.5 | 42.2 | na | na | 26.5 | 6,408 | a |
| 25-49 | 10.4 | 30.9 | 43.8 | 54.0 | 64.8 | 18.7 | 4,902 | 21.2 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 0.1 | na | na | na | na | 98.0 | 876 | a |
| 20-24 | 2.9 | 8.4 | 15.8 | na | na | 74.3 | 658 | a |
| 25-29 | 3.4 | 13.1 | 23.0 | 35.2 | 56.8 | 35.1 | 558 | 24.0 |
| 30-34 | 4.2 | 14.5 | 24.4 | 36.3 | 50.4 | 18.3 | 494 | 24.9 |
| 35-39 | 2.6 | 12.8 | 24.4 | 38.1 | 55.1 | 4.7 | 487 | 24.0 |
| 40-44 | 4.8 | 10.9 | 23.4 | 39.5 | 53.1 | 4.9 | 418 | 24.3 |
| 45-49 | 1.0 | 6.9 | 23.6 | 33.9 | 47.9 | 2.3 | 330 | 25.3 |
| 20-49 | 3.2 | 11.2 | 21.9 | na | na | 28.0 | 2,945 | a |
| 25-49 | 3.3 | 12.0 | 23.7 | 36.6 | 53.1 | 14.7 | 2,287 | 24.5 |
| 20-59 | 3.2 | 11.1 | 21.4 | na | na | 25.0 | 3,373 | a |
| 25-59 | 3.2 | 11.8 | 22.8 | 35.4 | 53.0 | 13.0 | 2,716 | 24.5 |

[^7]| Table 4.4 Median age at first marriage by background characteristics |  |  |  |
| :---: | :---: | :---: | :---: |
| Median age at first marriage among women age 20-49 and age 25-49, and median age at first marriage among men 25-59 according to background characteristics, Liberia DHS 2019-20 |  |  |  |
| Background characteristic | Women age |  | Men age |
|  | 20-49 | 25-49 | 25-59 |
| Residence |  |  |  |
| Urban | a | 23.3 | a |
| Greater Monrovia | a | a | a |
| Other urban | a | 20.9 | a |
| Rural | 19.1 | 19.1 | 23.4 |
| Region |  |  |  |
| North Western | 19.5 | 19.5 | 24.9 |
| South Central | a | 23.5 | a |
| South Eastern A | 19.0 | 19.0 | 23.7 |
| South Eastern B | 19.9 | 19.7 | a |
| North Central | a | 20.0 | 23.5 |
| County |  |  |  |
| Bomi | a | 20.3 | 24.3 |
| Bong | a | 20.0 | 24.1 |
| Gbarpolu | 18.7 | 18.9 | 22.9 |
| Grand Bassa | 18.6 | 17.9 | 22.0 |
| Grand Cape Mount | 19.1 | 19.2 | a |
| Grand Gedeh | 19.3 | 19.6 | 23.5 |
| Grand Kru | 20.0 | 19.6 | a |
| Lofa | a | 20.2 | 22.6 |
| Margibi | a | 20.2 | a |
| Maryland | a | 20.4 | a |
| Montserrado | a | a | a |
| Nimba | 20.0 | 19.9 | 23.4 |
| River Cess | 19.3 | 19.2 | a |
| River Gee | 19.1 | 18.7 | a |
| Sinoe | 18.6 | 18.6 | 23.5 |
| Education |  |  |  |
| No education | 19.5 | 19.6 | 24.4 |
| Elementary | 19.3 | 19.5 | 23.5 |
| Junior high | a | 21.1 | 23.8 |
| Senior high | a | a | 24.5 |
| Higher | a | a | a |
| Wealth quintile |  |  |  |
| Lowest | 19.0 | 19.3 | 23.2 |
| Second | 19.2 | 19.1 | 23.4 |
| Middle | a | 20.4 | 24.6 |
| Fourth | a | 23.3 | a |
| Highest | a | a | a |
| Total | a | 21.2 | 24.5 |

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner $\mathrm{a}=$ 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 4.5 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, Liberia DHS 2019-20

| Current age | Percentage who had first sexual intercourse by exact age: |  |  |  |  | Percentage who never had intercourse | Number | Median age at first intercourse |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 18.5 | na | na | na | na | 30.9 | 1,657 | a |
| 20-24 | 23.0 | 79.3 | 94.8 | na | na | 2.3 | 1,506 | 16.4 |
| 25-29 | 24.5 | 77.9 | 95.8 | 98.0 | 98.6 | 0.1 | 1,375 | 16.2 |
| 30-34 | 25.9 | 82.7 | 95.9 | 97.0 | 98.5 | 0.2 | 1,112 | 16.0 |
| 35-39 | 23.4 | 78.6 | 93.9 | 98.0 | 98.7 | 0.0 | 1,020 | 16.0 |
| 40-44 | 21.6 | 81.0 | 93.1 | 97.6 | 97.6 | 0.0 | 769 | 16.0 |
| 45-49 | 28.7 | 81.5 | 93.8 | 97.4 | 97.6 | 0.0 | 626 | 16.0 |
| 20-49 | 24.3 | 79.9 | 94.8 | na | na | 0.6 | 6,408 | 16.1 |
| 25-49 | 24.7 | 80.1 | 94.8 | 97.6 | 98.3 | 0.1 | 4,902 | 16.1 |
| 15-24 | 20.6 | na | na | na | na | 17.3 | 3,163 | a |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | 9.4 | na | na | na | na | 54.8 | 876 | a |
| 20-24 | 12.6 | 58.9 | 88.7 | na | na | 5.1 | 658 | 17.4 |
| 25-29 | 9.8 | 53.5 | 84.2 | 92.5 | 95.6 | 0.9 | 558 | 17.8 |
| 30-34 | 5.5 | 38.8 | 73.5 | 88.2 | 93.6 | 0.2 | 494 | 18.6 |
| 35-39 | 2.5 | 40.7 | 71.5 | 90.1 | 95.7 | 0.0 | 487 | 18.6 |
| 40-44 | 4.6 | 32.1 | 69.9 | 89.6 | 93.9 | 0.0 | 418 | 18.8 |
| 45-49 | 3.9 | 33.2 | 63.0 | 82.2 | 89.9 | 0.3 | 330 | 19.2 |
| 20-49 | 7.1 | 44.8 | 76.9 | na | na | 1.4 | 2,945 | 18.3 |
| 25-49 | 5.5 | 40.8 | 73.5 | 89.0 | 94.0 | 0.3 | 2,287 | 18.5 |
| 15-24 | 10.8 | na | na | na | na | 33.5 | 1,533 | a |
| 20-59 | 6.7 | 43.0 | 74.5 | na | na | 1.3 | 3,373 | 18.4 |
| 25-59 | 5.2 | 39.1 | 71.0 | 87.0 | 92.7 | 0.3 | 2,716 | 18.6 |

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 4.6 Median age at first sexual intercourse according to background characteristics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Median age at first sexual intercourse among women age 20-49 and age 2549, and median age at first sexual intercourse among men age 20-59 and age 25-59, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |
| Background characteristic | Women age |  | Men age |  |
|  | 20-49 | 25-49 | 20-59 | 25-59 |
| Residence |  |  |  |  |
| Urban | 16.4 | 16.2 | 18.3 | 18.6 |
| Greater Monrovia | 16.4 | 16.2 | 18.5 | 18.7 |
| Other urban | 16.3 | 16.2 | 18.1 | 18.5 |
| Rural | 15.8 | 15.8 | 18.5 | 18.6 |
| Region |  |  |  |  |
| North Western | 16.0 | 16.0 | 19.0 | 19.0 |
| South Central | 16.4 | 16.3 | 18.5 | 18.7 |
| South Eastern A | 15.8 | 15.8 | 17.8 | 18.1 |
| South Eastern B | 16.1 | 16.0 | 18.3 | 18.4 |
| North Central | 15.9 | 15.9 | 18.2 | 18.5 |
| County |  |  |  |  |
| Bomi | 15.8 | 15.7 | 19.1 | 19.3 |
| Bong | 16.1 | 15.9 | 18.3 | 18.5 |
| Gbarpolu | 15.8 | 15.9 | 18.9 | 19.0 |
| Grand Bassa | 16.3 | 16.2 | 17.7 | 18.0 |
| Grand Cape Mount | 16.4 | 16.4 | 18.6 | 18.7 |
| Grand Gedeh | 16.1 | 16.1 | 17.9 | 18.1 |
| Grand Kru | 15.8 | 15.8 | 17.5 | 17.5 |
| Lofa | 15.8 | 15.7 | 18.8 | 18.9 |
| Margibi | 16.5 | 16.4 | 18.5 | 18.6 |
| Maryland | 16.6 | 16.5 | 18.6 | 18.8 |
| Montserrado | 16.4 | 16.2 | 18.4 | 18.7 |
| Nimba | 15.8 | 15.9 | 17.4 | 17.8 |
| River Cess | 15.7 | 15.8 | 18.7 | 19.0 |
| River Gee | 15.7 | 15.6 | 17.6 | 17.6 |
| Sinoe | 15.6 | 15.7 | 16.8 | 17.2 |
| Education |  |  |  |  |
| No education | 15.8 | 15.8 | 18.7 | 18.7 |
| Elementary | 15.9 | 16.0 | 18.4 | 18.6 |
| Junior high | 16.4 | 16.2 | 18.1 | 18.5 |
| Senior high | 16.7 | 16.4 | 18.3 | 18.6 |
| Higher | 17.2 | 17.0 | 18.7 | 18.9 |
| Wealth quintile |  |  |  |  |
| Lowest | 15.8 | 15.8 | 18.2 | 18.4 |
| Second | 15.8 | 15.8 | 18.4 | 18.5 |
| Middle | 16.0 | 16.0 | 18.6 | 19.0 |
| Fourth | 16.4 | 16.2 | 18.2 | 18.5 |
| Highest | 16.6 | 16.5 | 18.5 | 18.7 |
| Total | 16.1 | 16.1 | 18.4 | 18.6 |


| Table 4.7.1 Recent sexual activity: Women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |
|  | Timing of last sexual intercourse |  |  | Never had sexual intercourse | Total | Number of women |
| Background characteristic | Within the past 4 weeks | Within 1 year ${ }^{1}$ | One or more years |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 31.0 | 30.5 | 7.6 | 30.9 | 100.0 | 1,657 |
| 20-24 | 54.1 | 32.7 | 10.9 | 2.3 | 100.0 | 1,506 |
| 25-29 | 54.5 | 32.5 | 12.8 | 0.1 | 100.0 | 1,375 |
| 30-34 | 61.9 | 28.6 | 9.3 | 0.2 | 100.0 | 1,112 |
| 35-39 | 60.4 | 27.7 | 11.9 | 0.0 | 100.0 | 1,020 |
| 40-44 | 56.6 | 26.4 | 17.0 | 0.0 | 100.0 | 769 |
| 45-49 | 54.0 | 23.7 | 22.3 | 0.0 | 100.0 | 626 |
| Marital status |  |  |  |  |  |  |
| Never married | 36.5 | 33.4 | 12.5 | 17.6 | 100.0 | 3,129 |
| Married or living together | 65.5 | 25.9 | 8.6 | 0.0 | 100.0 | 4,216 |
| Divorced/separated/ widowed | 35.0 | 36.0 | 29.0 | 0.0 | 100.0 | 721 |
| Marital duration ${ }^{2}$ |  |  |  |  |  |  |
| 0-4 years | 62.2 | 26.9 | 10.9 | 0.0 | 100.0 | 911 |
| 5-9 years | 61.7 | 29.3 | 9.0 | 0.0 | 100.0 | 719 |
| 10-14 years | 68.6 | 24.5 | 6.9 | 0.0 | 100.0 | 609 |
| 15-19 years | 66.1 | 24.5 | 9.3 | 0.0 | 100.0 | 477 |
| 20-24 years | 70.9 | 20.1 | 9.0 | 0.0 | 100.0 | 298 |
| 25+ years | 66.1 | 25.7 | 8.2 | 0.0 | 100.0 | 311 |
| Married more than once | 67.6 | 25.8 | 6.7 | 0.0 | 100.0 | 890 |
| Residence |  |  |  |  |  |  |
| Urban | 49.7 | 30.3 | 12.3 | 7.7 | 100.0 | 5,023 |
| Greater Monrovia | 49.6 | 30.5 | 12.5 | 7.4 | 100.0 | 2,866 |
| Other urban | 49.9 | 29.9 | 12.1 | 8.0 | 100.0 | 2,157 |
| Rural | 54.5 | 28.8 | 11.3 | 5.4 | 100.0 | 3,042 |
| Region |  |  |  |  |  |  |
| North Western | 51.9 | 32.5 | 8.8 | 6.9 | 100.0 | 621 |
| South Central | 49.0 | 30.9 | 12.2 | 8.0 | 100.0 | 4,105 |
| South Eastern A | 65.1 | 22.1 | 8.4 | 4.4 | 100.0 | 458 |
| South Eastern B | 62.9 | 27.8 | 4.4 | 5.0 | 100.0 | 441 |
| North Central | 51.1 | 28.8 | 14.4 | 5.7 | 100.0 | 2,439 |
| County |  |  |  |  |  |  |
| Bomi | 51.2 | 32.5 | 8.6 | 7.7 | 100.0 | 249 |
| Bong | 45.9 | 28.7 | 19.2 | 6.2 | 100.0 | 796 |
| Gbarpolu | 63.0 | 26.8 | 6.8 | 3.4 | 100.0 | 112 |
| Grand Bassa | 47.6 | 32.4 | 12.6 | 7.4 | 100.0 | 467 |
| Grand Cape Mount | 47.8 | 34.9 | 9.7 | 7.6 | 100.0 | 260 |
| Grand Gedeh | 64.6 | 21.7 | 10.0 | 3.8 | 100.0 | 172 |
| Grand Kru | 66.7 | 23.6 | 4.1 | 5.7 | 100.0 | 136 |
| Lofa | 47.8 | 32.1 | 12.4 | 7.7 | 100.0 | 658 |
| Margibi | 51.2 | 33.3 | 7.2 | 8.3 | 100.0 | 441 |
| Maryland | 59.6 | 31.9 | 3.8 | 4.7 | 100.0 | 215 |
| Montserrado | 48.9 | 30.3 | 12.8 | 8.0 | 100.0 | 3,197 |
| Nimba | 57.6 | 26.7 | 11.8 | 3.9 | 100.0 | 985 |
| River Cess | 69.1 | 21.0 | 5.2 | 4.8 | 100.0 | 104 |
| River Gee | 64.9 | 24.3 | 6.1 | 4.7 | 100.0 | 91 |
| Sinoe | 63.4 | 23.1 | 8.7 | 4.8 | 100.0 | 182 |
| Education |  |  |  |  |  |  |
| No education | 55.9 | 28.5 | 13.4 | 2.2 | 100.0 | 2,474 |
| Elementary | 46.2 | 28.7 | 11.5 | 13.6 | 100.0 | 1,911 |
| Junior high | 49.5 | 31.1 | 9.8 | 9.6 | 100.0 | 1,445 |
| Senior high | 52.9 | 31.2 | 11.6 | 4.3 | 100.0 | 1,761 |
| Higher | 51.7 | 30.4 | 13.8 | 4.1 | 100.0 | 474 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 54.1 | 28.6 | 14.3 | 2.9 | 100.0 | 1,379 |
| Second | 53.4 | 29.0 | 12.6 | 5.0 | 100.0 | 1,431 |
| Middle | 51.5 | 30.9 | 9.9 | 7.7 | 100.0 | 1,517 |
| Fourth | 51.4 | 30.1 | 11.5 | 7.0 | 100.0 | 1,829 |
| Highest | 48.5 | 29.6 | 11.7 | 10.2 | 100.0 | 1,910 |
| Total | 51.5 | 29.7 | 11.9 | 6.8 | 100.0 | 8,065 |
| ${ }^{1}$ Excludes women who had sexual intercourse within the last 4 weeks <br> ${ }^{2}$ Excludes women who are not currently married |  |  |  |  |  |  |


| Table 4.7.2 Recent sexual activity: Men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |
|  | Timing of last sexual intercourse |  |  | Never had sexual intercourse | Total | Number of men |
| Background characteristic | Within the past 4 weeks | Within 1 year ${ }^{1}$ | One or more years |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 16.5 | 24.1 | 4.6 | 54.8 | 100.0 | 876 |
| 20-24 | 56.8 | 33.3 | 4.9 | 5.1 | 100.0 | 658 |
| 25-29 | 67.9 | 27.9 | 3.3 | 0.9 | 100.0 | 558 |
| 30-34 | 70.5 | 25.3 | 4.0 | 0.2 | 100.0 | 494 |
| 35-39 | 70.9 | 24.7 | 4.4 | 0.0 | 100.0 | 487 |
| 40-44 | 70.8 | 26.4 | 2.7 | 0.0 | 100.0 | 418 |
| 45-49 | 73.4 | 22.1 | 4.2 | 0.3 | 100.0 | 330 |
| Marital status |  |  |  |  |  |  |
| Never married | 34.5 | 30.0 | 4.6 | 30.9 | 100.0 | 1,684 |
| Married or living together | 74.1 | 23.0 | 2.9 | 0.0 | 100.0 | 1,906 |
| Divorced/separated/ widowed | 58.9 | 30.8 | 10.3 | 0.0 | 100.0 | 231 |
| Marital duration ${ }^{2}$ |  |  |  |  |  |  |
| 0-4 years | 66.4 | 29.5 | 4.0 | 0.0 | 100.0 | 327 |
| 5-9 years | 73.3 | 21.8 | 4.9 | 0.0 | 100.0 | 270 |
| 10-14 years | 74.9 | 22.5 | 2.6 | 0.0 | 100.0 | 269 |
| 15-19 years | 71.1 | 26.7 | 2.3 | 0.0 | 100.0 | 166 |
| 20-24 years | 77.3 | 18.5 | 4.3 | 0.0 | 100.0 | 134 |
| 25+ years | 80.5 | 19.0 | 0.5 | 0.0 | 100.0 | 47 |
| Married more than once | 77.4 | 20.8 | 1.8 | 0.0 | 100.0 | 693 |
| Residence |  |  |  |  |  |  |
| Urban | 54.7 | 27.4 | 4.4 | 13.6 | 100.0 | 2,313 |
| Greater Monrovia | 53.5 | 27.9 | 4.6 | 14.0 | 100.0 | 1,368 |
| Other urban | 56.4 | 26.7 | 4.0 | 13.0 | 100.0 | 944 |
| Rural | 57.4 | 25.2 | 3.7 | 13.7 | 100.0 | 1,508 |
| Region |  |  |  |  |  |  |
| North Western | 50.7 | 23.5 | 7.5 | 18.3 | 100.0 | 301 |
| South Central | 54.5 | 27.3 | 4.4 | 13.8 | 100.0 | 1,932 |
| South Eastern A | 66.5 | 19.5 | 3.7 | 10.3 | 100.0 | 254 |
| South Eastern B | 61.4 | 21.2 | 1.4 | 15.9 | 100.0 | 226 |
| North Central | 55.6 | 28.7 | 3.4 | 12.3 | 100.0 | 1,107 |
| County |  |  |  |  |  |  |
| Bomi | 47.8 | 22.5 | 10.1 | 19.6 | 100.0 | 118 |
| Bong | 53.0 | 31.4 | 3.5 | 12.1 | 100.0 | 324 |
| Gbarpolu | 67.4 | 17.7 | 8.2 | 6.7 | 100.0 | 53 |
| Grand Bassa | 64.0 | 21.2 | 4.2 | 10.7 | 100.0 | 197 |
| Grand Cape Mount | 46.4 | 26.7 | 5.0 | 21.9 | 100.0 | 130 |
| Grand Gedeh | 70.6 | 16.3 | 3.9 | 9.3 | 100.0 | 92 |
| Grand Kru | 70.7 | 13.4 | 1.3 | 14.5 | 100.0 | 67 |
| Lofa | 50.1 | 29.7 | 4.5 | 15.7 | 100.0 | 287 |
| Margibi | 53.5 | 27.9 | 1.9 | 16.7 | 100.0 | 209 |
| Maryland | 59.0 | 22.5 | 1.7 | 16.8 | 100.0 | 110 |
| Montserrado | 53.4 | 28.0 | 4.7 | 13.8 | 100.0 | 1,525 |
| Nimba | 60.5 | 26.4 | 2.7 | 10.4 | 100.0 | 496 |
| River Cess | 56.5 | 22.3 | 6.0 | 15.2 | 100.0 | 52 |
| River Gee | 54.1 | 28.9 | 0.9 | 16.0 | 100.0 | 50 |
| Sinoe | 67.7 | 21.0 | 2.6 | 8.7 | 100.0 | 110 |
| Education |  |  |  |  |  |  |
| No education | 60.7 | 25.6 | 4.0 | 9.7 | 100.0 | 498 |
| Elementary | 42.2 | 20.6 | 5.2 | 31.9 | 100.0 | 877 |
| Junior high | 50.0 | 30.0 | 2.6 | 17.4 | 100.0 | 738 |
| Senior high | 61.9 | 28.3 | 4.9 | 4.9 | 100.0 | 1,303 |
| Higher | 69.3 | 28.5 | 2.3 | 0.0 | 100.0 | 405 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 60.1 | 24.4 | 4.4 | 11.1 | 100.0 | 657 |
| Second | 57.0 | 26.3 | 3.8 | 12.9 | 100.0 | 663 |
| Middle | 55.7 | 27.2 | 2.0 | 15.0 | 100.0 | 743 |
| Fourth | 51.0 | 30.1 | 6.0 | 12.9 | 100.0 | 838 |
| Highest | 56.0 | 24.4 | 4.2 | 15.4 | 100.0 | 920 |
| Total 15-49 | 55.7 | 26.5 | 4.1 | 13.6 | 100.0 | 3,821 |
| 50-59 | 64.6 | 23.1 | 11.8 | 0.5 | 100.0 | 428 |
| Total 15-59 | 56.6 | 26.2 | 4.9 | 12.3 | 100.0 | 4,249 |
| ${ }^{1}$ Excludes men who had sexual intercourse within the last 4 weeks <br> ${ }^{2}$ Excludes men who are not currently married |  |  |  |  |  |  |

## Key Findings

- Total fertility rate (TFR): The TFR in Liberia is 4.2 children per woman. Urban areas have a lower TFR (3.4) than rural areas (5.5).
- Median birth interval: The median birth interval in Liberia is 40.2 months.
- Menopause: The percentage of women who are menopausal ranges from $3 \%$ among those age 30-34 to 47\% among those age 48-49.
- Median age at first birth: The median age at first birth among women age 20-49 is 19.1 years.
- Teenage motherhood: The percentage of women age 15-19 who have begun childbearing increases with age, from $4 \%$ among those age 15 to $55 \%$ among those age 19.

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

This chapter describes the current level of fertility in Liberia and some of its proximate determinants. It presents information on the total fertility rate, birth intervals, insusceptibility to pregnancy (due to postpartum amenorrhea, postpartum abstinence, or menopause), age at first birth, and teenage childbearing.

### 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 birth histories provided by women.
Sample: Women age 15-49

The total fertility rate (TFR) in Liberia is 4.2 children per woman. The TFR is lower in urban areas (3.4 children per woman) than in rural areas ( 5.5 children per woman). Age-specific fertility rates peak at age 20-24 (193 births per 1,000 women) and are lowest among young women less than age 15 ( 4 births per 1,000 women) and women age 45-49 (16 births per 1,000 women) (Table 5.1).

Trends: The TFR in Liberia has declined by over two children since 1986 (from 6.7 to 4.2 children per woman). TFR declines have been higher in urban areas (from 6.0 children per woman in 1986 to 3.4 in 2019-20) than in rural areas (from 7.1 to 5.5 children per woman) (Figure 5.1). Since 1986, the largest decline in fertility has been among women age 25-29 (Table 5.3.2).

Figure 5.1 Trends in fertility by residence
TFR for the 3 years before each survey


| 1986 | 2007 | 2009 | 2011 | 2013 | 2016 | $2019-20$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| LDHS | LDHS | LMIS | LMIS | LDHS | LMIS | LDHS |

Patterns by background characteristics

- By county, the TFR ranges from a low of 3.0 children per woman in Montserrado to a high of 6.1 children per woman in Gbarpolu (Table 5.2 and Figure 5.2).
- The average number of children per woman declines with increasing education. Women with no education have an average of 5.3 children, as compared with 2.0 children among women with a higher education.
- Women in the lowest wealth quintile (6.2) have more than twice as many children as those in the highest wealth quintile (2.8).


### 5.2 Children Ever Born and LIVING

The 2019-20 LDHS collected data on the number of children ever born to women age 15 49 and whether each child was still alive at the time of the survey. On average, women have

Figure 5.2 Fertility by county
Total fertility rate for the 3 years before the survey
 given birth to 2.64 children, of whom 2.28 were still living at the time of the survey (Table 5.4). The number of children ever born increases with women's age; women age 45-49 have given birth to 5.77 children, among whom 4.53 were still living at the time of the survey. Currently married women age 15-49 have had an average of 3.75 children, of whom 3.22 were still living at the time of the survey (Table 5.4).

### 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

After a live birth, the recommended interval before the next pregnancy is at least 24 months in order to reduce the risk of adverse maternal, perinatal, and infant outcomes (WHO 2005b). In Liberia, the median birth interval is 40.2 months. Fifteen percent of births occurred less than the recommended 24 months after the preceding birth ( $6 \%$ occurred $7-17$ months after the preceding birth, and $9 \%$ occurred 18-23 months after the preceding birth) (Table 5.5 and Figure 5.3).

Trends: The median birth interval in Liberia has exceeded the WHO-recommended 24 months after the preceding birth since 1986. Between 1986 and 2019-20, the median birth interval increased by 10.2 months (from 30.0 months to 40.2 months).

Figure 5.3 Birth intervals


## Patterns by background characteristics

- Birth intervals increase with age, from 26.0 months among women age 15-19 to 46.7 months among women age 40-49 (Table 5.5).
- The median birth interval varies only slightly according to the sex of the preceding birth.
- The median birth interval is shorter if the child from the preceding birth is dead (32.1 months) than if the child is alive ( 41.2 months).
- Women with seven or more children have a shorter median birth interval (36.4 months) than women with two or three children ( 43.3 months).
- The median birth interval is longer in urban areas ( 45.9 months) than in rural areas ( 36.8 months).
- Across the counties, the median birth interval ranges from 33.6 months in Nimba to 52.0 months in Montserrado.
- Median birth intervals generally increase with increasing education and household wealth. The median birth interval is 39.7 months among women with no education, as compared with 63.8 months among women with a higher education. Similarly, the median birth interval is 34.8 months among women in the lowest wealth quintile, compared with 55.2 months among women in the highest wealth quintile.


### 5.4 Insusceptibility to Pregnancy

## Postpartum amenorrhea

The period of time after the birth of a child and before the resumption of menstruation.

## Postpartum abstinence

The period of time after the birth of a child 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 amenorrheic and/or abstaining from sexual intercourse postpartum.

## Median duration of postpartum amenorrhea

Number of months after childbirth by which time half of women have begun menstruating.
Sample: Women who gave birth in the 3 years before the survey

## Median duration of postpartum insusceptibility

Number of months after childbirth by which time half of women are no longer protected against pregnancy by either postpartum amenorrhea or abstinence from sexual intercourse.

Sample: Women who gave birth in the 3 years before the survey

Postpartum amenorrhea refers to the interval between childbirth and the return of menstruation. During this period, the risk of pregnancy is reduced. Among women who are not using contraception, exposure to the risk of pregnancy in the period following childbirth is determined by two major factors, namely breastfeeding and sexual abstinence. Postpartum protection from conception can be prolonged by the length and intensity of breastfeeding or by delayed resumption of sexual activities (postpartum abstinence).

The median duration of postpartum amenorrhea among women who gave birth in the 3 years before the survey is 9.3 months, while the median durations of abstinence and insusceptibility are 12.9 months and 14.1 months, respectively (Table 5.6).

Trends: Although median durations of postpartum amenorrhea, abstinence, and insusceptibility have generally increased from 1986 to 2019-20, changes have fluctuated over the years. The median duration of postpartum amenorrhea increased from 8.0 months in 1986 to 9.6 months in months in 2007. However, in 2013 the duration decreased to 8.3 months before increasing again to 9.3 months in 2019-20. Similarly, the median duration of postpartum abstinence increased from 10.2 months in 1986 to 12.2 months in 2007 , decreased to 11.6 months in 2013, and increased again to 12.9 months in 2019-20. The median duration of postpartum insusceptibility increased from 13.2 months in 1986 to 13.7 months in 2007 before decreasing to 13.1 months in 2013 and once again increasing to 14.1 months in 2019-20.

## Patterns by background characteristics

- The median duration of postpartum amenorrhea is longer among rural women (10.6 months) than among those in urban areas ( 6.9 months). However, the median durations of postpartum abstinence and
insusceptibility are longer among women in urban areas (13.7 and 14.2 months, respectively) than among those in rural areas (11.6 and 13.9 months, respectively) (Table 5.7).
- Median durations of postpartum amenorrhea are longest among women in South Eastern A and North Central ( 10.7 months each) and shortest among women in South Central ( 6.9 months). The median duration of postpartum insusceptibility is longest in North Central ( 15.8 months) and shortest in South Eastern B (11.8 months).


### 5.5 Menopause

## Menopause

Women are considered to have reached menopause if they are neither pregnant nor postpartum amenorrheic 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

The 2019-20 LDHS collected data on the percentage of women age 30-49 who are menopausal. Nationally, $10 \%$ of women are menopausal. By age group, the percentage of women who are menopausal ranges from $3 \%$ among those age 30-34 to $47 \%$ among those age 48-49 (Table 5.8).

### 5.6 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 childbearing commences has a direct influence on a woman's cumulative fertility, particularly when there is little or no contraceptive use. The earlier a woman begins childbearing, the greater her likelihood of having many children. Also, having children at too young an age can have negative repercussions for the mother's health and can put her child's health at risk. In Liberia, the median age at first birth among women age 20-49 is 19.1 years (Table 5.9).

## Patterns by background characteristics

- The median age at first birth ranges from 18.8 years among women age 45-49 to 19.4 years among women age 35-39.
- Among women age 25-49, the median age at first birth is higher in urban areas (19.5 years) than rural areas (18.6 years) (Table 5.10 and Figure 5.4).
- Across the counties, median age at first birth is lowest in River Gee (18.2 years) and highest in Montserrado (19.8 years).
- The median age at first birth increases with increasing education, from 18.6 years among women with no education to 22.3 years among women with a higher education.

Figure 5.4 Median age at first birth by residence

Median age at first birth among women age 25-49


- The median age at first birth is lowest among women in the lowest (18.7 years) and second (18.6 years) wealth quintiles and highest among those in the highest quintile ( 20.0 years).


### 5.7 Teenage Childbearing

## Teenage childbearing

Percentage of women age 15-19 who have given birth or are pregnant with their first child.

Sample: Women age 15-19

Adolescent pregnancy undermines girls' human rights and compromises their opportunity to fully realize their socioeconomic development potential. Teenagers who have early exposure to sexual intercourse are thereby at risk of pregnancy and childbearing. The 2019-20 LDHS collected data on pregnancy in late adolescence (age 15-19). Thirty percent of adolescents had begun childbearing at the time of the survey. Twenty-five percent had given birth, while 5\% were pregnant with their first child (Table 5.11).

Trends: Teenage childbearing increased from $32 \%$ in 2007 to $38 \%$ in 2009 before declining to $30 \%$ in 201920.

Patterns by background characteristics

> Figure 5.5 Teenage pregnancy and motherhood by residence

- The percentage of women age 15-19 who have begun childbearing increases with age, from $4 \%$ among those age 15 to $55 \%$ among those age 19 (Table 5.11).

Percentage of women age 15-19 who have begun childbearing

- The percentage of teenagers who have begun childbearing is higher in rural areas (39\%) than in urban areas (26\%) (Figure 5.5).
- Across the counties, the percentage of teenagers who have begun childbearing ranges from $19 \%$ in Maryland to $55 \%$ in River Cess (Table 5.11).
- The percentage of women age 15-19 who have begun childbearing generally declines with increasing education and household wealth.
 Forty-seven percent of young women with no education have begun childbearing, as compared with $20 \%$ of those with a senior high school education. Similarly, $42 \%$ of young women in the lowest wealth quintile have begun childbearing, compared with $10 \%$ of those in the highest quintile.


### 5.8 Sexual and Reproductive Behaviors before Age 15

Among women and men age 15-19, $19 \%$ of women and $9 \%$ of men had sexual intercourse by age 15 . Only $3 \%$ of women and less than $1 \%$ of men age 15-19 were married by age 15 . Two percent of women age 15-19 gave birth before age 15 , and less than $1 \%$ of men in that age group fathered a child before age 15 (Table 5.12).

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

- Table 5.1 Current fertility
- Table 5.2 Fertility by background characteristics
- Table 5.3.1 Trends in age-specific fertility rates
- Table 5.3.2 Trends in age-specific and total fertility rates
- Table 5.4 Children ever born and living
- Table 5.5 Birth intervals
- Table 5.6 Postpartum amenorrhea, abstinence, and insusceptibility
- Table 5.7 Median duration of amenorrhea, postpartum abstinence, and postpartum insusceptibility
- Table 5.8 Menopause
- Table 5.9 Age at first birth
- Table 5.10 Median age at first birth
- Table 5.11 Teenage pregnancy and motherhood
- Table 5.12 Sexual and reproductive health behaviors before age 15

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, by residence, Liberia DHS 2019-20

|  | Residence |  |  |
| :--- | :---: | :---: | :---: |
| Age group | Urban | Rural | Total |
| $10-14$ | $[4]$ | $[4]$ | $[4]$ |
| $15-19$ | 98 | 185 | 128 |
| $20-24$ | 168 | 250 | 193 |
| $25-29$ | 147 | 223 | 173 |
| $30-34$ | 108 | 179 | 135 |
| $35-39$ | 104 | 158 | 128 |
| $40-44$ | 39 | 91 | 64 |
| $45-49$ | $[7]$ | $[22]$ | $[16]$ |
| TFR $(15-49)$ | 3.4 | 5.5 | 4.2 |
| GFR | 121 | 188 | 146 |
| CBR | 27.5 | 33.6 | 30.1 |

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. 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 1549 currently pregnant, and mean number of children ever born to women age 40-49, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Total fertility rate | Percentage of women age 15-49 currently pregnant | Mean number of children ever born to women age 40-49 |
| :---: | :---: | :---: | :---: |
| Residence |  |  |  |
| Urban | 3.4 | 6.2 | 4.5 |
| Greater Monrovia | 2.9 | 5.7 | 3.9 |
| Other urban | 4.0 | 6.9 | 5.2 |
| Rural | 5.5 | 8.2 | 6.4 |
| Region |  |  |  |
| North Western | 5.2 | 8.0 | 6.2 |
| South Central | 3.4 | 5.9 | 4.8 |
| South Eastern A | 5.1 | 7.7 | 6.4 |
| South Eastern B | 4.5 | 8.8 | 6.4 |
| North Central | 5.0 | 7.9 | 5.6 |
| County |  |  |  |
| Bomi | 4.2 | 6.1 | 6.0 |
| Bong | 4.8 | 8.4 | 5.9 |
| Gbarpolu | 6.1 | 9.8 | 6.3 |
| Grand Bassa | 5.9 | 6.7 | 6.9 |
| Grand Cape Mount | 5.9 | 8.9 | 6.3 |
| Grand Gedeh | 4.9 | 6.6 | 5.9 |
| Grand Kru | 5.4 | 11.1 | 6.7 |
| Lofa | 4.1 | 6.4 | 5.0 |
| Margibi | 3.8 | 7.1 | 5.6 |
| Maryland | 4.2 | 7.9 | 6.3 |
| Montserrado | 3.0 | 5.7 | 4.2 |
| Nimba | 5.7 | 8.6 | 5.8 |
| River Cess | 5.3 | 11.9 | 6.1 |
| River Gee | 4.0 | 7.8 | 6.5 |
| Sinoe | 5.4 | 6.4 | 7.0 |
| Education |  |  |  |
| No education | 5.3 | 6.0 | 5.8 |
| Elementary | 5.1 | 8.9 | 6.0 |
| Junior high | 4.4 | 8.5 | 5.2 |
| Senior high | 2.6 | 5.5 | 3.3 |
| Higher | 2.0 | 4.6 | (2.9) |
| Wealth quintile |  |  |  |
| Lowest | 6.2 | 9.9 | 6.4 |
| Second | 5.3 | 7.9 | 6.2 |
| Middle | 4.2 | 7.5 | 5.6 |
| Fourth | 3.3 | 5.7 | 4.7 |
| Highest | 2.8 | 4.8 | 3.6 |
| Total | 4.2 | 7.0 | 5.4 |

Note: Total fertility rates are for the period 1-36 months preceding the interview. Figures in parentheses are based on 25-49 unweighted cases.

Table 5.3.1 Trends in age-specific fertility rates
Age-specific fertility rates for 5 -year periods preceding the survey, according to age group, Liberia DHS 2019-20

|  | Number of years preceding survey |  |  |  |
| :--- | ---: | ---: | :---: | :---: |
| Age group | $0-4$ | $5-9$ | $10-14$ | $15-19$ |
| $10-14$ | $[5]$ | $[7]$ | $[15]$ | $[19]$ |
| $15-19$ | 135 | 146 | 161 | 154 |
| $20-24$ | 191 | 219 | 243 | 239 |
| $25-29$ | 185 | 204 | 233 | 249 |
| $30-34$ | 149 | 198 | 216 | $[197]$ |
| $35-39$ | 122 | 151 | $[193]$ |  |
| $40-44$ | 69 | $[96]$ |  |  |
| $45-49$ | $[18]$ |  |  |  |

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of the interview. For the 0-4 year period, rates for the 10-14 age group are based on retrospective data from women age 15-19.

## Table 5.3.2 Trends in age-specific and total fertility rates

Age-specific and total fertility rates (TFR) for the 3 -year period preceding several surveys, according to mother's age at the time of the birth, Liberia DHS 2019-20

| Mother's age <br> at birth | 1986 <br> LDHS | 2007 <br> LDHS | LMIS <br> LM | 2011 <br> LMIS | 2013 <br> LDHS | 2016 <br> LMIS | $2019-20$ <br> LDHS |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |  |
| $15-19$ | 188 | 141 | 177 | 151 | 149 | 150 | 128 |
| $20-24$ | 287 | 243 | 268 | 239 | 222 | 194 | 193 |
| $25-29$ | 282 | 226 | 241 | 202 | 200 | 160 | 173 |
| $30-34$ | 229 | 187 | 214 | 196 | 177 | 154 | 135 |
| $35-39$ | 177 | 142 | 166 | 115 | 133 | 122 | 128 |
| $40-44$ | 107 | 72 | 81 | 74 | 50 | 45 | 64 |
| $45-49$ | 61 | 29 | 29 | 10 | 14 | 11 | 16 |
| TFR (15-49) | 6.7 | 5.2 | 5.9 | 4.9 | 4.7 | 4.2 | 4.2 |

Note: Age-specific fertility rates are per 1,000 women. Rates for the 45-49 age group may be slightly biased due to truncation.

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, Liberia DHS 2019-20

| Age | Number of children ever born |  |  |  |  |  |  |  |  |  |  | Total | Number of women | Mean number of children ever born | Mean number of living children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |  |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 74.8 | 22.2 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1,657 | 0.28 | 0.26 |
| 20-24 | 25.6 | 40.6 | 22.8 | 8.2 | 2.1 | 0.6 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 100.0 | 1,506 | 1.23 | 1.12 |
| 25-29 | 8.8 | 22.5 | 28.0 | 20.1 | 10.7 | 7.3 | 1.8 | 0.8 | 0.0 | 0.0 | 0.0 | 100.0 | 1,375 | 2.35 | 2.11 |
| 30-34 | 3.5 | 10.3 | 20.9 | 24.0 | 17.3 | 11.8 | 7.6 | 3.0 | 1.3 | 0.3 | 0.0 | 100.0 | 1,112 | 3.33 | 2.96 |
| 35-39 | 1.7 | 5.3 | 14.0 | 14.6 | 18.3 | 15.3 | 13.7 | 9.6 | 4.3 | 2.2 | 1.0 | 100.0 | 1,020 | 4.41 | 3.79 |
| 40-44 | 0.7 | 5.9 | 8.3 | 12.1 | 14.8 | 14.6 | 13.9 | 12.7 | 8.0 | 4.0 | 4.9 | 100.0 | 769 | 5.15 | 4.34 |
| 45-49 | 1.1 | 3.7 | 8.2 | 11.0 | 11.6 | 13.9 | 9.1 | 15.0 | 8.7 | 6.5 | 11.1 | 100.0 | 626 | 5.77 | 4.53 |
| Total | 22.5 | 18.9 | 15.7 | 12.2 | 9.2 | 7.4 | 5.1 | 4.2 | 2.2 | 1.2 | 1.5 | 100.0 | 8,065 | 2.64 | 2.28 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 36.1 | 52.2 | 10.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 204 | 0.77 | 0.69 |
| 20-24 | 10.1 | 35.6 | 35.0 | 14.0 | 4.3 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 625 | 1.70 | 1.52 |
| 25-29 | 2.9 | 13.7 | 27.2 | 26.5 | 15.8 | 9.4 | 3.1 | 1.4 | 0.1 | 0.0 | 0.0 | 100.0 | 788 | 2.86 | 2.58 |
| 30-34 | 1.6 | 8.7 | 19.2 | 23.7 | 18.6 | 13.7 | 9.1 | 3.5 | 1.5 | 0.4 | 0.0 | 100.0 | 819 | 3.56 | 3.17 |
| 35-39 | 1.4 | 3.6 | 10.0 | 14.5 | 19.5 | 16.1 | 14.9 | 11.4 | 4.9 | 2.6 | 1.2 | 100.0 | 785 | 4.70 | 4.06 |
| 40-44 | 0.2 | 2.9 | 7.1 | 10.9 | 13.5 | 13.8 | 14.9 | 15.9 | 9.8 | 5.3 | 5.8 | 100.0 | 545 | 5.60 | 4.71 |
| 45-49 | 1.2 | 2.4 | 7.3 | 12.8 | 9.6 | 13.8 | 10.2 | 15.2 | 9.5 | 5.7 | 12.5 | 100.0 | 449 | 5.93 | 4.71 |
| Total | 4.5 | 13.3 | 18.1 | 17.2 | 13.6 | 10.8 | 8.1 | 6.7 | 3.5 | 1.9 | 2.3 | 100.0 | 4,216 | 3.75 | 3.22 |

Table 5.5 Birth intervals
Percent distribution of non-first births in the 5 years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Months since preceding birth |  |  |  |  |  | Total | Number of non-first births | Median number of months since preceding birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7-17 | 18-23 | 24-35 | 36-47 | 48-59 | 60+ |  |  |  |
| Mother's age |  |  |  |  |  |  |  |  |  |
| 15-19 | 5.3 | 29.7 | 47.9 | 7.4 | 6.6 | 3.1 | 100.0 | 51 | 26.0 |
| 20-29 | 6.4 | 11.3 | 30.5 | 19.2 | 14.6 | 17.9 | 100.0 | 1,743 | 36.8 |
| 30-39 | 4.6 | 6.6 | 24.7 | 18.4 | 13.1 | 32.6 | 100.0 | 1,554 | 44.7 |
| 40-49 | 6.2 | 7.2 | 22.2 | 15.4 | 14.0 | 34.9 | 100.0 | 492 | 46.7 |
| Sex of preceding birth |  |  |  |  |  |  |  |  |  |
| Male | 5.4 | 8.6 | 28.9 | 18.7 | 13.6 | 24.6 | 100.0 | 2,020 | 39.7 |
| Female | 5.9 | 9.7 | 25.5 | 17.7 | 14.0 | 27.2 | 100.0 | 1,819 | 40.8 |
| Survival of preceding birth |  |  |  |  |  |  |  |  |  |
| Living | 4.4 | 8.7 | 26.9 | 18.7 | 14.4 | 26.8 | 100.0 | 3,424 | 41.2 |
| Dead | 16.0 | 12.6 | 30.4 | 14.1 | 9.2 | 17.7 | 100.0 | 416 | 32.1 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 2-3 | 4.4 | 8.1 | 25.3 | 17.8 | 14.2 | 30.2 | 100.0 | 1,866 | 43.3 |
| 4-6 | 6.2 | 9.5 | 29.6 | 18.2 | 13.2 | 23.3 | 100.0 | 1,478 | 38.4 |
| 7+ | 8.8 | 12.0 | 28.1 | 20.0 | 14.1 | 17.1 | 100.0 | 496 | 36.4 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.2 | 6.9 | 24.2 | 17.2 | 14.7 | 32.8 | 100.0 | 1,870 | 45.9 |
| Greater Monrovia | 3.9 | 4.8 | 21.6 | 14.2 | 16.5 | 39.0 | 100.0 | 899 | 53.1 |
| Other urban | 4.4 | 8.9 | 26.7 | 20.0 | 13.0 | 27.1 | 100.0 | 971 | 40.6 |
| Rural | 7.0 | 11.3 | 30.2 | 19.3 | 13.0 | 19.2 | 100.0 | 1,970 | 36.8 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 7.7 | 11.5 | 28.5 | 16.5 | 12.4 | 23.4 | 100.0 | 369 | 37.9 |
| South Central | 5.0 | 6.8 | 24.5 | 17.1 | 14.5 | 32.1 | 100.0 | 1,558 | 45.6 |
| South Eastern A | 5.7 | 10.7 | 29.7 | 18.5 | 15.2 | 20.1 | 100.0 | 258 | 38.2 |
| South Eastern B | 5.9 | 9.0 | 28.6 | 17.5 | 13.2 | 25.8 | 100.0 | 225 | 39.6 |
| North Central | 5.8 | 10.8 | 29.5 | 20.0 | 13.2 | 20.7 | 100.0 | 1,430 | 37.6 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 6.7 | 7.9 | 24.6 | 16.3 | 14.8 | 29.7 | 100.0 | 120 | 43.0 |
| Bong | 5.1 | 8.2 | 21.0 | 24.7 | 12.7 | 28.3 | 100.0 | 402 | 43.0 |
| Gbarpolu | 9.4 | 11.1 | 32.3 | 17.1 | 11.3 | 18.8 | 100.0 | 75 | 35.3 |
| Grand Bassa | 8.5 | 11.8 | 32.0 | 17.8 | 9.6 | 20.2 | 100.0 | 301 | 34.7 |
| Grand Cape Mount | 7.7 | 14.1 | 29.5 | 16.5 | 11.2 | 21.0 | 100.0 | 174 | 34.9 |
| Grand Gedeh | 6.2 | 11.8 | 24.9 | 20.3 | 13.0 | 23.8 | 100.0 | 94 | 39.5 |
| Grand Kru | 5.0 | 10.5 | 25.8 | 15.4 | 16.3 | 27.0 | 100.0 | 81 | 42.0 |
| Lofa | 5.3 | 10.1 | 22.9 | 21.1 | 16.1 | 24.5 | 100.0 | 303 | 42.3 |
| Margibi | 4.1 | 7.2 | 25.3 | 23.4 | 15.5 | 24.4 | 100.0 | 197 | 42.2 |
| Maryland | 7.4 | 8.0 | 32.5 | 18.6 | 9.9 | 23.6 | 100.0 | 107 | 36.9 |
| Montserrado | 4.1 | 5.4 | 22.1 | 15.8 | 15.8 | 36.9 | 100.0 | 1,060 | 52.0 |
| Nimba | 6.4 | 12.6 | 37.0 | 16.9 | 12.3 | 14.9 | 100.0 | 725 | 33.6 |
| River Cess | 6.2 | 10.1 | 34.5 | 17.9 | 13.5 | 17.7 | 100.0 | 60 | 35.5 |
| River Gee | 3.4 | 8.4 | 23.9 | 19.1 | 15.6 | 29.5 | 100.0 | 38 | 43.3 |
| Sinoe | 4.9 | 9.9 | 31.3 | 17.2 | 18.3 | 18.3 | 100.0 | 103 | 38.1 |
| Mother's education |  |  |  |  |  |  |  |  |  |
| No education | 6.1 | 9.5 | 27.1 | 19.3 | 13.8 | 24.1 | 100.0 | 1,639 | 39.7 |
| Elementary | 5.8 | 11.1 | 33.1 | 17.3 | 11.9 | 20.8 | 100.0 | 958 | 36.0 |
| Junior high | 5.0 | 11.3 | 29.3 | 18.9 | 14.4 | 21.1 | 100.0 | 599 | 38.9 |
| Senior high | 4.8 | 3.9 | 17.7 | 16.8 | 18.9 | 37.9 | 100.0 | 511 | 53.2 |
| Higher | 4.9 | 0.5 | 16.6 | 14.6 | 4.8 | 58.6 | 100.0 | 132 | 63.8 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 8.6 | 12.3 | 32.5 | 18.5 | 12.4 | 15.6 | 100.0 | 1,040 | 34.8 |
| Second | 5.6 | 10.2 | 31.4 | 17.9 | 13.4 | 21.4 | 100.0 | 899 | 37.8 |
| Middle | 3.6 | 9.7 | 25.2 | 22.4 | 12.9 | 26.2 | 100.0 | 703 | 40.9 |
| Fourth | 4.4 | 7.0 | 21.9 | 17.0 | 18.5 | 31.3 | 100.0 | 630 | 47.9 |
| Highest | 4.2 | 3.5 | 19.8 | 14.6 | 12.8 | 45.1 | 100.0 | 568 | 55.2 |
| Total | 5.6 | 9.1 | 27.3 | 18.2 | 13.8 | 25.8 | 100.0 | 3,840 | 40.2 |

Note: First-order births are excluded. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth.

| Table 5.6 Postpartum amenorrhea, abstinence, and insusceptibility |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Percentage of births in the 3 years preceding the survey for which mothers are postpartum amenorrheic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Liberia DHS 2019-20 |  |  |  |  |
| Months | Percentage of births for which the mother is: |  |  | um |
| since birth | Amenorrheic | Abstaining | Insusceptible ${ }^{1}$ | births |
| <2 | 93.0 | 99.4 | 99.4 | 171 |
| 2-3 | 79.6 | 90.6 | 97.8 | 209 |
| 4-5 | 58.5 | 86.7 | 91.5 | 209 |
| 6-7 | 64.0 | 83.1 | 89.0 | 205 |
| 8-9 | 47.4 | 74.1 | 84.7 | 183 |
| 10-11 | 41.8 | 70.6 | 78.6 | 160 |
| 12-13 | 26.7 | 39.5 | 49.8 | 154 |
| 14-15 | 23.5 | 38.3 | 45.5 | 160 |
| 16-17 | 15.0 | 27.4 | 35.7 | 173 |
| 18-19 | 7.4 | 22.4 | 27.1 | 199 |
| 20-21 | 13.9 | 9.7 | 19.7 | 164 |
| 22-23 | 5.1 | 5.3 | 8.9 | 133 |
| 24-25 | 7.6 | 6.6 | 10.2 | 128 |
| 26-27 | 5.8 | 3.0 | 7.6 | 150 |
| 28-29 | 4.2 | 4.3 | 7.3 | 142 |
| 30-31 | 2.7 | 2.3 | 5.0 | 189 |
| 32-33 | 1.0 | 3.7 | 4.4 | 187 |
| 34-35 | 2.2 | 0.2 | 2.2 | 155 |
| Total | 29.8 | 40.0 | 45.4 | 3,071 |
| Median | 9.3 | 12.9 | 14.1 | na |
| Mean | 11.0 | 14.3 | 16.3 | na |

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

| Table 5.7 Median duration of amenorrhea, postpartum abstinence, and postpartum insusceptibility |  |  |  |
| :---: | :---: | :---: | :---: |
| Median number of months of postpartum amenorrhea, postpartum abstinence, and postpartum insusceptibility following births in the 3 years preceding the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |  |
| Background characteristic | Postpartum amenorrhea | Postpartum abstinence | Postpartum insusceptibility ${ }^{1}$ |
| Mother's age |  |  |  |
| 15-29 | 8.3 | 12.4 | 13.6 |
| 30-49 | 10.3 | 14.2 | 15.6 |
| Residence |  |  |  |
| Urban | 6.9 | 13.7 | 14.2 |
| Greater Monrovia | 6.0 | (13.5) | (13.6) |
| Other urban | 9.5 | 14.1 | 15.1 |
| Rural | 10.6 | 11.6 | 13.9 |
| Region |  |  |  |
| North Western | 9.8 | 11.9 | 12.8 |
| South Central | 6.9 | 13.0 | 13.8 |
| South Eastern A | 10.7 | 11.2 | 12.8 |
| South Eastern B | 9.7 | 9.8 | 11.8 |
| North Central | 10.7 | 14.2 | 15.8 |
| County |  |  |  |
| Bomi | a | a | a |
| Bong | 10.8 | (16.2) | (16.8) |
| Gbarpolu | (13.9) | (10.4) | (14.2) |
| Grand Bassa | (9.8) | (9.6) | (11.9) |
| Grand Cape Mount | (6.6) | (12.4) | (12.4) |
| Grand Gedeh | (12.1) | (12.5) | (15.2) |
| Grand Kru | (9.0) | (8.8) | (10.1) |
| Lofa | (10.1) | (12.4) | (13.0) |
| Margibi | (7.4) | (11.8) | (13.7) |
| Maryland | (10.4) | (10.7) | (12.1) |
| Montserrado | 6.4 | 13.7 | 13.9 |
| Nimba | 10.8 | 13.6 | 14.8 |
| River Cess | (8.0) | (7.5) | (8.9) |
| River Gee | (9.6) | (8.4) | (13.8) |
| Sinoe | (10.3) | (10.7) | (12.4) |
| Mother's education |  |  |  |
| No education | 10.0 | 12.2 | 15.4 |
| Elementary | 10.1 | 12.7 | 14.8 |
| Junior high | 7.2 | 13.3 | 13.6 |
| Senior high | 6.6 | 13.9 | 14.0 |
| Higher | a | a | a |
| Wealth quintile |  |  |  |
| Lowest | 11.7 | 11.6 | 15.2 |
| Second | 11.0 | 12.3 | 13.7 |
| Middle | 8.8 | 13.9 | 14.4 |
| Fourth | 5.3 | 12.6 | 13.2 |
| Highest | 6.8 | (13.9) | (13.9) |
| Total | 9.3 | 12.9 | 14.1 |

Note: Medians are based on status at the time of the survey (current status). Figures in parentheses are based on 25-49 unweighted cases
= Omitted because less than $50 \%$ of women are abstaining
Includes births for which mothers are either still amenorrheic or stil abstaining (or both) following birth

| Table 5.8 Menopause |  |  |
| :---: | :---: | :---: |
| Percentage of women age 30-49 who are menopausal, according to age, Liberia DHS 2019-20 |  |  |
| Age | Percentage menopausal ${ }^{1}$ | Number of women |
| 30-34 | 3.1 | 1,112 |
| 35-39 | 2.4 | 1,020 |
| 40-41 | 5.2 | 358 |
| 42-43 | 10.6 | 282 |
| 44-45 | 17.6 | 297 |
| 46-47 | 38.8 | 238 |
| 48-49 | 47.0 | 220 |
| Total | 10.1 | 3,527 |

${ }^{1}$ Percentage of women (1) who are not pregnant, (2) who have had a birth in the past 5 years and are not postpartum amenorrheic, 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 5.9 Age at first birth
Percentage of women age 15-49 who gave birth by exact ages, percentage who have never given birth, and median age at first birth, according to current age, Liberia DHS 2019-20

| Current age | Percentage who gave birth by exact age |  |  |  |  | Percentage who have never given birth | Number of women | Median age at first birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 18 | 20 | 22 | 25 |  |  |  |
| 15-19 | 2.2 | na | na | na | na | 74.8 | 1,657 | a |
| 20-24 | 4.3 | 34.4 | 58.6 | na | na | 25.6 | 1,506 | 19.2 |
| 25-29 | 7.6 | 38.7 | 59.5 | 74.2 | 84.2 | 8.8 | 1,375 | 19.1 |
| 30-34 | 7.5 | 37.2 | 60.5 | 77.0 | 89.7 | 3.5 | 1,112 | 19.0 |
| 35-39 | 5.1 | 31.6 | 55.6 | 70.5 | 88.2 | 1.7 | 1,020 | 19.4 |
| 40-44 | 7.5 | 36.7 | 59.4 | 77.0 | 87.5 | 0.7 | 769 | 19.0 |
| 45-49 | 11.2 | 41.9 | 62.2 | 77.1 | 84.9 | 1.1 | 626 | 18.8 |
| 20-49 | 6.7 | 36.4 | 59.1 | na | na | 9.0 | 6,408 | 19.1 |
| 25-49 | 7.5 | 37.0 | 59.2 | 74.9 | 86.9 | 3.9 | 4,902 | 19.1 |

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 5.10 Median age at first birth |  |  |
| :---: | :---: | :---: |
| Median age at first birth among women age 2049 and age 25-49, according to background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Women age |  |
|  | 20-49 | 25-49 |
| Residence |  |  |
| Urban | 19.6 | 19.5 |
| Greater Monrovia | a | 19.9 |
| Other urban | 19.2 | 19.1 |
| Rural | 18.5 | 18.6 |
| Region |  |  |
| North Western | 18.7 | 18.8 |
| South Central | 19.6 | 19.5 |
| South Eastern A | 18.6 | 18.7 |
| South Eastern B | 18.8 | 18.7 |
| North Central | 18.8 | 18.9 |
| County |  |  |
| Bomi | 18.5 | 18.4 |
| Bong | 18.6 | 18.6 |
| Gbarpolu | 18.8 | 19.1 |
| Grand Bassa | 18.4 | 18.3 |
| Grand Cape Mount | 18.9 | 19.0 |
| Grand Gedeh | 18.8 | 18.9 |
| Grand Kru | 18.7 | 18.9 |
| Lofa | 18.6 | 18.6 |
| Margibi | 19.2 | 19.0 |
| Maryland | 18.9 | 18.8 |
| Montserrado | 19.9 | 19.8 |
| Nimba | 19.0 | 19.3 |
| River Cess | 18.6 | 18.7 |
| River Gee | 18.5 | 18.2 |
| Sinoe | 18.6 | 18.6 |
| Education |  |  |
| No education | 18.6 | 18.6 |
| Elementary | 18.4 | 18.6 |
| Junior high | 19.2 | 19.2 |
| Senior high | a | 19.9 |
| Higher | a | 22.3 |
| Wealth quintile |  |  |
| Lowest | 18.6 | 18.7 |
| Second | 18.4 | 18.6 |
| Middle | 18.9 | 18.9 |
| Fourth | 19.3 | 19.2 |
| Highest | a | 20.0 |
| Total | 19.1 | 19.1 |
| $\mathrm{a}=$ Omitted because less than $50 \%$ of th women had a birth before reaching the beginning of the age group |  |  |

Table 5.11 Teenage pregnancy and motherhood
Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of women age 15-19 who: |  | Percentage who have begun childbearing | Number of women |
| :---: | :---: | :---: | :---: | :---: |
|  | Have had a live birth | Are pregnant with first child |  |  |
| Age |  |  |  |  |
| 15-17 | 12.5 | 3.9 | 16.4 | 973 |
| 15 | 1.4 | 2.9 | 4.2 | 319 |
| 16 | 9.7 | 2.3 | 12.0 | 366 |
| 17 | 28.5 | 7.0 | 35.5 | 287 |
| 18 | 36.5 | 7.9 | 44.4 | 321 |
| 19 | 49.1 | 6.1 | 55.2 | 363 |
| Residence |  |  |  |  |
| Urban | 21.5 | 4.3 | 25.8 | 1,067 |
| Greater Monrovia | 17.1 | 4.5 | 21.6 | 555 |
| Other urban | 26.2 | 4.2 | 30.4 | 511 |
| Rural | 31.8 | 6.7 | 38.5 | 590 |
| Region |  |  |  |  |
| North Western | 30.2 | 6.9 | 37.1 | 134 |
| South Central | 21.6 | 4.5 | 26.1 | 859 |
| South Eastern A | 28.1 | 7.7 | 35.8 | 89 |
| South Eastern B | 20.8 | 4.7 | 25.4 | 104 |
| North Central | 30.6 | 5.6 | 36.2 | 471 |
| County |  |  |  |  |
| Bomi | 22.4 | 8.4 | 30.9 | 56 |
| Bong | 31.7 | 5.5 | 37.1 | 164 |
| Gbarpolu | 44.5 | 3.8 | 48.3 | 19 |
| Grand Bassa | 37.8 | 1.5 | 39.4 | 110 |
| Grand Cape Mount | 32.9 | 6.4 | 39.3 | 59 |
| Grand Gedeh | 23.4 | 3.8 | 27.2 | 32 |
| Grand Kru | 26.4 | 6.4 | 32.8 | 34 |
| Lofa | 26.0 | 7.7 | 33.7 | 148 |
| Margibi | 27.5 | 6.8 | 34.3 | 94 |
| Maryland | 13.8 | 5.1 | 18.9 | 48 |
| Montserrado | 18.1 | 4.6 | 22.7 | 656 |
| Nimba | 33.9 | 3.6 | 37.5 | 158 |
| River Cess | 39.5 | 15.6 | 55.0 | 22 |
| River Gee | 27.1 | 1.1 | 28.1 | 22 |
| Sinoe | 25.4 | 6.4 | 31.7 | 35 |
| Education |  |  |  |  |
| No education | 38.4 | 8.1 | 46.5 | 172 |
| Elementary | 26.4 | 4.1 | 30.5 | 665 |
| Junior high | 23.9 | 6.5 | 30.4 | 556 |
| Senior high | 17.0 | 3.3 | 20.2 | 251 |
| Higher | * | * | * | 13 |
| Wealth quintile |  |  |  |  |
| Lowest | 35.8 | 6.2 | 42.0 | 225 |
| Second | 34.0 | 6.0 | 40.1 | 276 |
| Middle | 33.8 | 6.5 | 40.3 | 362 |
| Fourth | 22.8 | 5.8 | 28.6 | 401 |
| Highest | 7.3 | 2.2 | 9.5 | 393 |
| Total | 25.2 | 5.2 | 30.3 | 1,657 |

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

| Table 5.12 Sexual and reproductive health behaviors 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, Liberia DHS 2019-20 |

## FERTILITY PREFERENCES

6

## Key Findings

- Desire for another child: Twenty-two percent of currently married women age 15-49 want to have another child within 2 years, and another $22 \%$ want to wait at least 2 years before having another child. Among currently married men age $15-49,8 \%$ want to have another child within 2 years, and $33 \%$ want to wait at least 2 years.
- Limiting childbearing: Overall, 34\% of currently married women and $24 \%$ of currently married men do not want another child or are sterilized.
- Unwanted births: Of all births in the past 5 years and current pregnancies, $60 \%$ were wanted at the time of conception, $33 \%$ were mistimed, and $8 \%$ were not wanted.
- Wanted fertility: The total wanted fertility rate (3.7) is lower than the actual fertility rate (4.2).

Information on fertility preferences can help family planning program 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 may suggest the direction that fertility patterns will take in the future.

This chapter presents information on whether and when married women and men want more children, 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 sterilized are assumed not to want any more children.
Sample: Currently married women and men age 15-49

Fifty-four percent of currently married women age 15-49 want to have another child; $22 \%$ of these women want to have another child within 2 years, another $22 \%$ want to wait at least 2 years, and $9 \%$ are undecided about when they want to have another child. Thirty-four percent of currently married women want no more children or are sterilized. Overall, $66 \%$ of currently married men age $15-49$ want to have another child; $8 \%$ want to have another child soon, $33 \%$ want to wait at least 2 years, and $25 \%$ are undecided about when they want to have another child. Twenty-four percent of men want no more children or are sterilized (Table 6.1).

Trends: The percentage of currently married men who want to have another child soon declined from $32 \%$ in 2007 to $8 \%$ in 2019-20, while the percentage who want more children but are undecided about when increased from $3 \%$ to $25 \%$. Among currently married women, the percentage who want to have more children soon increased slightly from $20 \%$ in 2007 to $22 \%$ in 2019-20, while the percentage who want more children but are undecided about when increased from $3 \%$ to $9 \%$.

Patterns by background characteristics

- The more children a woman already has, the more likely she is to want no more children. Over 7 in 10 ( $71 \%$ ) currently married women with six or more children want no more children or are sterilized, as compared with $4 \%$ of women who have one child (Table 6.2.1 and Figure 6.1).
- The percentage of currently married women who want to limit childbearing varies geographically, from $27 \%$ in South Eastern A to $44 \%$ in North Western (Table 6.2.1).
- There are large differences in desire to limit childbearing by education. Forty-one percent of currently married women with no education want no more children, as compared with $19 \%$ of those with a senior high education.


### 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

Women want to have slightly fewer children than men ( 4.6 children and 4.9 children, respectively). Similarly, among those who are currently married, the mean ideal number of children is slightly higher among men (5.7 children) than among women ( 5.1 children) (Table 6.3 and Figure 6.2).

Trends: From 1986 to 2019-20, the ideal number of children steadily decreased from 6.0 to 4.6 among all women and from 6.5 to 5.1 among currently married women. Similarly, between 2007 and 2019-20, the ideal number of children declined from 5.6 to 4.9 among all men and from 6.3 to 5.7 among currently married men.

## Patterns by background characteristics

- The more children respondents already have, the more children they consider ideal. Women who have no children or one child consider 3.9 children to be ideal on average. In contrast, women with six or more children consider 6.7 children to be ideal (Table 6.3 and Figure 6.3). Among men and women with the same number of children, men generally consider a slightly higher number of children to be ideal than women.
- Older women want larger families. Ideal family size increases from 3.9 children among women age 1519 to 6.0 children among women age 45-49 (Table 6.4).

Figure 6.2 Ideal family size


Figure 6.3 Ideal family size by number of living children
Mean ideal number of children
■ Women ■ Men


- Ideal family sizes vary by residence. Women who live in rural areas want 5.3 children, while women in urban areas want 4.2 children.
- Ideal number of children decreases with increasing education and wealth. Women with no education want 5.7 children and women with a higher education want 3.4 children. Similarly, women in the lowest wealth quintile want 5.5 children and women in the highest quintile want 3.9 children, a difference of less than two children.


### 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 births in the 5 years before the survey to women age 15-49

According to mothers' reports, $60 \%$ of births or current pregnancies were wanted, and $33 \%$ were mistimed. Just under 1 in 10 ( $8 \%$ ) births or current pregnancies were not wanted at all (Table 6.5).

Trends: The proportion of births or current pregnancies wanted at the time of conception declined from 68\% in 2007 to $60 \%$ in 2019-20. Over the same period, the proportion of births or current pregnancies that were mistimed increased from $27 \%$ to $33 \%$ and the proportion of unwanted births or pregnancies increased from $4 \%$ to $8 \%$.

## Patterns by background characteristics

- The more children a woman has, the more likely it is that her most recent birth was unwanted. Fourth- or higher-order births (14\%) were more likely than first-order births (2\%) to be described as unwanted (Table 6.5).
- Births to women age 25-29 (67\%) and age 30-34 (68\%) were most likely to be described as wanted.
- The proportion of births or current pregnancies that are mistimed decreases with increasing mother's age, from $53 \%$ among women less than age 20 to $16 \%$ among women age 40-44.


### 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 fewer than or equal to the number of children a woman reported as her ideal number.

## Wanted fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current agespecific fertility rates, excluding unwanted births.
Sample: Women age 15-49

The wanted fertility rate reflects the level of fertility that would result if all unwanted births were prevented. The total wanted fertility rate in Liberia is 3.7 children, as compared with the actual total fertility rate of 4.2 children (Table 6.6).

Trends: The total wanted fertility rate in Liberia has decreased steadily over time, from 6.1 children in 1986 to 4.6 children in 2007 and 3.7 children in 2019-20. However, the gap between wanted and actual fertility has remained relatively constant ( 0.6 in 1986 and 0.5 in 2019-20) (Figure 6.4).

Figure 6.4 Trends in wanted and actual fertility


## Patterns by background characteristics

- The total wanted fertility rate is consistently lower than the actual total fertility rate, but the size of the gap varies by women's background characteristics (Table 6.6).
- Women in rural areas want more children ( 4.8 children) than those in urban areas ( 3.1 children). The gap between the total fertility rate and the total wanted fertility rate is larger in rural areas (0.7) than in urban areas (0.3).
- Both the wanted fertility rate and the total fertility rate decrease with increasing education. The wanted fertility rate declines from 4.7 among women with no education to 1.9 among women with a higher education, while the total fertility rate decreases from 5.3 among women with no education to 2.0 among those with a higher education.
- Similarly, wanted fertility and total fertility decrease with increasing household wealth. The wanted fertility rate decreases from 5.4 in the lowest wealth quintile to 2.6 in the highest wealth quintile, while the total fertility rate decreases from 6.2 in the lowest quintile to 2.8 in the highest quintile.


## List of Tables

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

- Table 6.1 Fertility preferences according to number of living children
- Table 6.2.1 Desire to limit childbearing: Women
- Table 6.2.2 Desire to limit childbearing: Men
- Table 6.3 Ideal number of children according to number of living children
- Table 6.4 Mean ideal number of children according to background characteristics
- Table 6.5 Fertility planning status
- Table 6.6 Wanted fertility rates

Table 6.1 Fertility preferences according to number of living children
Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Liberia DHS 2019-20

| Desire for children | Number of living children ${ }^{1}$ |  |  |  |  |  |  | $\begin{gathered} \text { Total } \\ 15-49 \end{gathered}$ | $\begin{gathered} \text { Total } \\ 15-59 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |  |
| WOMEN |  |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 70.9 | 33.1 | 27.9 | 23.2 | 14.7 | 10.5 | 4.7 | 22.3 | na |
| Have another later ${ }^{3}$ | 15.6 | 41.8 | 29.6 | 25.7 | 17.0 | 10.1 | 6.4 | 22.3 | na |
| Have another, undecided when | 5.4 | 17.0 | 14.2 | 8.8 | 8.0 | 1.9 | 3.4 | 9.2 | na |
| Undecided | 1.7 | 3.6 | 9.2 | 9.4 | 12.1 | 11.6 | 10.4 | 8.9 | na |
| Want no more | 1.1 | 4.2 | 16.6 | 29.6 | 44.6 | 61.4 | 69.9 | 33.9 | na |
| Sterilized ${ }^{4}$ | 0.0 | 0.0 | 0.2 | 0.3 | 0.0 | 0.1 | 0.9 | 0.2 | na |
| Declared infecund | 5.4 | 0.4 | 2.5 | 3.0 | 3.6 | 4.4 | 4.3 | 3.1 | na |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | na |
| Number | 197 | 630 | 850 | 777 | 609 | 549 | 604 | 4,216 | na |
| MEN ${ }^{5}$ |  |  |  |  |  |  |  |  |  |
| Have another soon ${ }^{2}$ | 12.7 | 12.9 | 11.1 | 7.8 | 6.6 | 6.5 | 4.7 | 8.4 | 8.4 |
| Have another later ${ }^{3}$ | 21.7 | 50.0 | 36.8 | 37.7 | 27.0 | 30.1 | 20.9 | 32.9 | 28.8 |
| Have another, undecided when | 46.8 | 30.9 | 29.8 | 24.2 | 24.7 | 15.6 | 15.8 | 24.6 | 24.2 |
| Undecided | 18.1 | 4.0 | 8.9 | 9.0 | 6.4 | 13.2 | 9.6 | 8.9 | 8.6 |
| Want no more | 0.7 | 2.3 | 11.3 | 21.3 | 31.7 | 34.1 | 47.8 | 24.0 | 28.5 |
| Sterilized ${ }^{4}$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Declared infecund | 0.0 | 0.0 | 2.1 | 0.1 | 3.6 | 0.4 | 1.3 | 1.2 | 1.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 80 | 262 | 355 | 367 | 258 | 207 | 377 | 1,906 | 2,264 |

na $=$ Not applicable
${ }^{1}$ The number of living children includes the 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 sterilization
${ }^{5}$ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.2.1 Desire to limit childbearing: Women
Percentage of currently married women age 15-49 who want no more children, by number of living children, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 0.8 | 4.4 | 18.8 | 31.5 | 48.2 | 71.1 | 72.4 | 31.2 |
| Greater Monrovia | (0.0) | 5.8 | 23.4 | 34.1 | (59.1) | (89.0) | * | 31.1 |
| Other urban | 2.0 | 2.9 | 11.2 | 28.4 | 39.8 | 59.9 | 76.3 | 31.3 |
| Rural | 1.7 | 3.9 | 13.0 | 27.2 | 41.3 | 53.9 | 70.1 | 37.6 |
| Region |  |  |  |  |  |  |  |  |
| North Western | * | 6.7 | 15.7 | 38.6 | 58.3 | 57.0 | 76.2 | 44.0 |
| South Central | 1.0 | 4.7 | 23.3 | 32.9 | 53.5 | 72.3 | 70.0 | 33.6 |
| South Eastern A | (0.0) | 1.9 | 4.2 | 18.0 | 27.4 | 37.6 | 65.0 | 26.7 |
| South Eastern B | (0.8) | 3.6 | 10.3 | 19.4 | 42.8 | 47.5 | 65.3 | 33.2 |
| North Central | (2.0) | 3.5 | 8.6 | 27.3 | 36.2 | 60.3 | 72.1 | 33.8 |
| Education |  |  |  |  |  |  |  |  |
| No education | 1.9 | 7.0 | 19.0 | 26.8 | 44.6 | 58.7 | 67.7 | 41.2 |
| Elementary | (0.0) | 4.3 | 9.2 | 28.6 | 41.1 | 59.3 | 73.9 | 33.6 |
| Junior high | (2.5) | 5.0 | 26.2 | 27.7 | 54.6 | (76.0) | 87.5 | 33.8 |
| Senior high | (0.2) | 2.1 | 12.6 | 36.1 | (32.3) | (79.3) | * | 19.4 |
| Higher | * | (0.0) | (21.1) | (40.8) | * | * | * | 24.3 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | (2.7) | 2.9 | 10.6 | 29.0 | 41.9 | 50.5 | 73.1 | 39.0 |
| Second | (0.0) | 3.9 | 15.4 | 27.9 | 38.6 | 61.5 | 73.2 | 38.9 |
| Middle | (0.0) | 5.7 | 11.3 | 27.9 | 44.8 | 61.1 | 70.6 | 33.1 |
| Fourth | (0.0) | 5.7 | 24.7 | 23.5 | 47.1 | 73.1 | (47.7) | 29.4 |
| Highest | (2.1) | 2.5 | 18.2 | 38.0 | 57.3 | (79.1) | * | 28.7 |
| Total | 1.1 | 4.2 | 16.7 | 29.9 | 44.6 | 61.5 | 70.7 | 34.2 |

Notes: Women who have been sterilized or whose husband has been sterilized 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 the 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, Liberia DHS 2019-20

| Background characteristic | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | (0.0) | 0.6 | 12.7 | 24.5 | 22.7 | 38.5 | 44.5 | 20.5 |
| Greater Monrovia |  | (0.0) | (9.5) | (27.3) | * |  | * | 19.4 |
| Other urban | * | 1.4 | 19.6 | 18.9 | 26.9 | (22.2) | 42.6 | 22.0 |
| Rural | (1.7) | 5.4 | 8.9 | 16.3 | 39.6 | 30.3 | 49.5 | 27.9 |
| Region |  |  |  |  |  |  |  |  |
| North Western | * | (12.2) | 10.6 | 17.8 | (54.8) | (19.1) | 50.3 | 28.7 |
| South Central | * | 0.0 | 8.7 | 24.6 | 28.7 | 42.9 | 49.2 | 21.3 |
| South Eastern A | * | (3.1) | 7.8 | 21.0 | (28.9) | (16.2) | 41.2 | 21.4 |
| South Eastern B | * | (0.6) | 10.8 | 15.3 | (23.2) | (25.7) | 43.8 | 22.0 |
| North Central | * | 4.9 | 18.2 | 16.6 | 30.6 | 34.4 | 48.5 | 27.6 |
| Education |  |  |  |  |  |  |  |  |
| No education | * | (3.5) | 4.7 | 18.9 | 29.3 | 24.9 | 49.8 | 25.4 |
| Elementary | * | (5.1) | 16.0 | 8.1 | 32.4 | 31.2 | 38.1 | 23.1 |
| Junior high | * | (5.6) | 7.1 | 25.6 | 28.8 | (27.3) | 39.6 | 22.2 |
| Senior high | * | 0.8 | 11.5 | 22.7 | 37.1 | 45.3 | 55.6 | 24.7 |
| Higher | * | * | * | (27.6) | (25.4) | * | * | 23.5 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | * | 5.9 | 13.0 | 12.1 | 35.3 | 19.9 | 46.2 | 26.1 |
| Second | * | 7.1 | 11.4 | 16.1 | 35.6 | 36.2 | 49.2 | 27.1 |
| Middle | * | (0.0) | 10.7 | 21.3 | (30.8) | (34.6) | 45.5 | 23.2 |
| Fourth | * | (0.3) | (18.8) | (17.1) | (18.4) | (39.1) | (43.1) | 19.5 |
| Highest | * | (0.0) | (4.6) | 31.8 | (35.3) | * | (60.0) | 23.4 |
| Total 15-49 | 0.7 | 2.3 | 11.3 | 21.3 | 31.7 | 34.1 | 47.8 | 24.0 |
| 50-59 | * | * | * | * | 55.5 | 53.9 | 57.3 | 52.5 |
| Total 15-59 | 0.7 | 2.7 | 12.4 | 21.0 | 35.4 | 37.9 | 51.3 | 28.5 |

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

| Table 6.3 Ideal number of children according to number of living children |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to number of living children, Liberia DHS 2019-20 |  |  |  |  |  |  |  |  |
| Ideal number of children | Number of living children |  |  |  |  |  |  | Total |
|  | 0 | 1 | 2 | 3 | 4 | 5 | $6+$ |  |
| WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |
| 0 | 0.4 | 0.5 | 0.6 | 0.3 | 0.6 | 0.4 | 1.8 | 0.6 |
| 1 | 1.4 | 0.4 | 0.8 | 0.4 | 0.2 | 0.5 | 0.1 | 0.6 |
| 2 | 15.9 | 12.9 | 8.3 | 4.1 | 3.3 | 3.2 | 1.9 | 8.9 |
| 3 | 19.8 | 24.0 | 14.0 | 10.7 | 5.7 | 4.8 | 2.4 | 14.4 |
| 4 | 37.5 | 39.4 | 42.3 | 30.2 | 29.0 | 14.0 | 14.8 | 33.0 |
| 5 | 9.9 | 8.3 | 12.4 | 21.2 | 15.3 | 19.2 | 8.6 | 12.6 |
| 6+ | 11.6 | 12.0 | 17.8 | 27.1 | 38.2 | 48.7 | 54.0 | 24.1 |
| Non-numeric responses | 3.5 | 2.5 | 3.8 | 6.0 | 7.6 | 9.1 | 16.5 | 5.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 1,760 | 1,718 | 1,366 | 1,067 | 800 | 647 | 707 | 8,065 |
| Mean ideal number of children for: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All women | 3.9 | 3.9 | 4.3 | 4.9 | 5.4 | 5.8 | 6.7 | 4.6 |
| Number of women | 1,699 | 1,675 | 1,313 | 1,003 | 739 | 588 | 591 | 7,608 |
| Currently married women | 4.8 | 4.2 | 4.4 | 4.9 | 5.5 | 5.8 | 6.7 | 5.1 |
| Number of currently married women | 193 | 606 | 813 | 734 | 558 | 499 | 505 | 3,909 |
| MEN ${ }^{3}$ |  |  |  |  |  |  |  |  |
| 0 | 0.4 | 0.0 | 0.9 | 0.5 | 0.5 | 1.2 | 2.3 | 0.7 |
| 1 | 1.3 | 1.8 | 0.1 | 0.4 | 0.0 | 0.2 | 0.2 | 0.9 |
| 2 | 17.9 | 16.7 | 6.1 | 6.1 | 5.5 | 0.7 | 3.4 | 11.7 |
| 3 | 18.3 | 18.2 | 15.9 | 6.2 | 6.3 | 5.2 | 4.1 | 13.6 |
| 4 | 29.5 | 36.7 | 40.4 | 34.7 | 24.8 | 17.2 | 15.5 | 29.7 |
| 5 | 12.4 | 7.8 | 13.0 | 22.7 | 20.5 | 13.7 | 7.5 | 13.2 |
| 6+ | 15.2 | 13.3 | 20.1 | 23.5 | 31.9 | 54.1 | 52.9 | 23.8 |
| Non-numeric responses | 4.9 | 5.5 | 3.6 | 5.9 | 10.5 | 7.6 | 14.1 | 6.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 1,585 | 475 | 457 | 401 | 285 | 224 | 395 | 3,821 |
| Mean ideal number of children for: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All men | 4.2 | 4.0 | 4.5 | 5.5 | 5.3 | 7.4 | 7.9 | 4.9 |
| Number of men | 1,507 | 449 | 440 | 377 | 255 | 207 | 339 | 3,574 |
| Currently married men | 4.3 | 4.2 | 4.5 | 5.5 | 5.4 | 7.3 | 8.0 | 5.7 |
| Number of currently married men | 74 | 247 | 341 | 344 | 230 | 196 | 322 | 1,754 |
| Mean ideal number of children for men 15-59: ${ }^{2}$ |  |  |  |  |  |  |  |  |
| All men | 4.2 | 4.0 | 4.5 | 5.4 | 5.3 | 7.3 | 7.6 | 5.1 |
| Number of men | 1,514 | 460 | 461 | 404 | 315 | 251 | 526 | 3,930 |
| Currently married men | 4.3 | 4.1 | 4.5 | 5.5 | 5.4 | 7.2 | 7.7 | 5.8 |
| Number of currently married men | 76 | 252 | 355 | 364 | 273 | 232 | 493 | 2,046 |

${ }^{1}$ The number of living children includes the current pregnancy.
${ }^{2}$ 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, Liberia DHS 2019-20 |  |  |
| Background characteristic | Mean | Number o women ${ }^{1}$ |
| Age |  |  |
| 15-19 | 3.9 | 1,597 |
| 20-24 | 4.2 | 1,459 |
| 25-29 | 4.3 | 1,310 |
| 30-34 | 4.7 | 1,063 |
| 35-39 | 5.3 | 936 |
| 40-44 | 5.4 | 703 |
| 45-49 | 6.0 | 540 |
| Residence |  |  |
| Urban | 4.2 | 4,829 |
| Greater Monrovia | 3.9 | 2,780 |
| Other urban | 4.6 | 2,050 |
| Rural | 5.3 | 2,779 |
| Region |  |  |
| North Western | 4.8 | 591 |
| South Central | 4.2 | 3,920 |
| South Eastern A | 5.5 | 398 |
| South Eastern B | 4.9 | 409 |
| North Central | 5.1 | 2,290 |
| County |  |  |
| Bomi | 4.6 | 238 |
| Bong | 4.5 | 710 |
| Gbarpolu | 5.0 | 103 |
| Grand Bassa | 5.5 | 400 |
| Grand Cape Mount | 5.0 | 250 |
| Grand Gedeh | 5.4 | 158 |
| Grand Kru | 5.3 | 128 |
| Lofa | 5.1 | 621 |
| Margibi | 4.5 | 420 |
| Maryland | 4.7 | 203 |
| Montserrado | 4.0 | 3,100 |
| Nimba | 5.5 | 958 |
| River Cess | 5.5 | 94 |
| River Gee | 4.9 | 78 |
| Sinoe | 5.8 | 146 |
| Education |  |  |
| No education | 5.7 | 2,216 |
| Elementary | 4.7 | 1,788 |
| Junior high | 4.2 | 1,392 |
| Senior high | 3.9 | 1,740 |
| Higher | 3.4 | 473 |
| Wealth quintile |  |  |
| Lowest | 5.5 | 1,250 |
| Second | 5.2 | 1,317 |
| Middle | 4.8 | 1,432 |
| Fourth | 4.2 | 1,757 |
| Highest | 3.9 | 1,851 |
| Total | 4.6 | 7,608 |
| ${ }^{1}$ Number of women who gave a numeric response |  |  |

## Table 6.5 Fertility planning status

Percent distribution of births to women age 15-49 in the 5 years preceding the survey (including current pregnancies), by planning status of the birth, according to birth order and mother's age at birth, Liberia DHS 2019-20

|  | Planning status of birth |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: |
| Birth order and <br> mother's age at birth | Wanted <br> then | Wanted <br> later | Wanted no <br> more | Total | Number of <br> births |
| Birth order |  |  |  |  |  |
| 1 | 50.4 | 47.8 | 1.8 | 100.0 | 1,569 |
| 2 | 61.6 | 33.8 | 4.6 | 100.0 | 1,137 |
| 3 | 67.2 | 25.9 | 6.9 | 100.0 | 923 |
| 4+ | 62.0 | 24.1 | 13.9 | 100.0 | 2,196 |
| Mother's age at |  |  |  |  |  |
| birth |  |  |  |  |  |
| $<20$ | 44.1 | 53.2 | 2.7 | 100.0 | 1,224 |
| $20-24$ | 59.3 | 36.1 | 4.6 | 100.0 | 1,489 |
| $25-29$ | 66.9 | 28.0 | 5.1 | 100.0 | 1,291 |
| $30-34$ | 68.0 | 20.8 | 11.2 | 100.0 | 916 |
| $35-39$ | 62.2 | 19.1 | 18.7 | 100.0 | 616 |
| $40-44$ | 63.2 | 16.1 | 20.7 | 100.0 | 261 |
| $45-49$ | $(59.5)$ | $(2.3)$ | $(38.1)$ | 100.0 | 27 |
| Total | 59.6 | 32.6 | 7.7 | 100.0 | 5,824 |

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

| 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, Liberia DHS 2019-20 |  |  |
| Background characteristic | Total wanted fertility rate | Total fertility rate |
| Residence |  |  |
| Urban | 3.1 | 3.4 |
| Greater Monrovia | 2.6 | 2.9 |
| Other urban | 3.7 | 4.0 |
| Rural | 4.8 | 5.5 |
| Region |  |  |
| North Western | 4.2 | 5.2 |
| South Central | 3.1 | 3.4 |
| South Eastern A | 4.7 | 5.1 |
| South Eastern B | 4.1 | 4.5 |
| North Central | 4.5 | 5.0 |
| County |  |  |
| Bomi | 3.4 | 4.2 |
| Bong | 4.2 | 4.8 |
| Gbarpolu | 5.0 | 6.1 |
| Grand Bassa | 5.3 | 5.9 |
| Grand Cape Mount | 4.9 | 5.9 |
| Grand Gedeh | 4.5 | 4.9 |
| Grand Kru | 4.9 | 5.4 |
| Lofa | 3.8 | 4.1 |
| Margibi | 3.3 | 3.8 |
| Maryland | 3.8 | 4.2 |
| Montserrado | 2.7 | 3.0 |
| Nimba | 5.2 | 5.7 |
| River Cess | 4.8 | 5.3 |
| River Gee | 3.6 | 4.0 |
| Sinoe | 5.0 | 5.4 |
| Education |  |  |
| No education | 4.7 | 5.3 |
| Elementary | 4.6 | 5.1 |
| Junior high | 3.8 | 4.4 |
| Senior high | 2.4 | 2.6 |
| Higher | 1.9 | 2.0 |
| Wealth quintile |  |  |
| Lowest | 5.4 | 6.2 |
| Second | 4.7 | 5.3 |
| Middle | 3.7 | 4.2 |
| Fourth | 3.0 | 3.3 |
| Highest | 2.6 | 2.8 |
| Total | 3.7 | 4.2 |

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

- Current contraceptive use: $24 \%$ of married women and $45 \%$ of sexually active unmarried women are currently using a modern method of contraception. Injectables, implants, and pills are the most commonly used methods.
- Trends in contraceptive use: Use of modern methods increased from $19 \%$ in 2013 to $24 \%$ in 2019-20.
- Demand for family planning: 58\% of currently married women have a demand for family planning, an increase from 51\% in 2013.
- Unmet need for family planning: One-third of married women have an unmet need for family planning, $21 \%$ for spacing and $13 \%$ for limiting.
- Contraceptive discontinuation: Two of every five times (41\%) that women began using a contraceptive method in the 5 years before the survey, they discontinued the method within 12 months. The most common reason for discontinuation was side effects/health concerns.

Couples can use contraceptive methods to limit or space the number of children they have. This chapter presents information on knowledge of contraceptive methods, use and sources of contraceptive methods, informed choice of methods, unmet need for family planning, and rates and reasons for discontinuing contraceptives. It also examines the potential demand for family planning and how much contact nonusers have with family planning providers.

In Liberia, efforts have been undertaken to ensure that those in need are able to make informed and timely family planning choices. To that end, key messages regarding the availability and accessibility of family planning services have been developed and disseminated using mass media, as well as through health education sessions and community forums (MOH\&SW 2010).

Additionally, steps have been taken to improve the counseling and provision of family planning services from providers. For instance, the Family Planning Services Provision Curriculum was developed to train providers in offering comprehensive, quality family planning services, without undue interference or bias. Furthermore, job aids that enhance the providers' counseling skills, such as the eligibility wheel and referral pathway cards, have been made available.

Liberia, with two-thirds of the population below age 25 , is accelerating the integration of family planning services at all levels of the health care delivery system. To that end, a market approach is being implemented to improve access for marginalized women and girls. Specifically, the government is configuring supply chain systems are to be more efficient and effective in delivering safe health care commodities with the goal of increasing uptake of family planning methods (FP2020 2020).

### 7.1 Contraceptive Knowledge and Use

Almost all women and men age 15-49 in Liberia know at least one modern method of contraception. The pill, injectables, implants, and male condoms are the most well-known methods (Table 7.1). Fewer than half of women and men know about female sterilization, and only $19 \%$ of all women and $28 \%$ of all men know about male sterilization. Forty percent of women know about emergency contraception. About three quarters of women and men $(76 \%)$ know a traditional method of contraception; withdrawal is the best-known traditional method. Overall, women know an average of 7.9 contraceptive methods, while men know an average of 7.1 methods. For more information on contraceptive knowledge by method and by background characteristics, see Tables 7.1 and 7.2.

## Contraceptive prevalence rate

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

The contraceptive prevalence rate (CPR) is $25 \%$ among current married women age $15-49$. Most currently married women using contraception use a modern method ( $24 \%$ ), while $1 \%$ use a traditional method. Contraceptive use is higher among sexually active unmarried women: $45 \%$ use a modern method of contraception (Table 7.3).

## Modern methods

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

The most commonly used contraceptive methods among married women are injectables (14\%), implants (5\%), and the pill (4\%) (Figure 7.1). Sexually active unmarried women also most commonly use injectables ( $28 \%$ ), implants ( $10 \%$ ) and the pill ( $4 \%$ ); $3 \%$ of sexually active unmarried women use male condoms (Table 7.4).

Figure 7.1 Contraceptive use


Trends: Contraceptive use among married women has increased steadily over time; only $6 \%$ of married women were using a modern method of contraception in 1986, as compared with 24\% in 2019-20 (Figure 7.2). Use of traditional methods has remained steady at about $1 \%$.

Patterns by background characteristics

- Modern method use is highest among married women with a junior high education ( $32 \%$ ) and lowest among women with no education (20\%) (Figure 7.3).
- By county, modern method use among married women ranges from $17 \%$ in Margibi to $45 \%$ in Maryland (Figure 7.4).
- Contraceptive use is highest among women with five or more living children ( $27 \%$ ) and lowest among those with no living children (11\%) (Table 7.4).


## Figure 7.4 Modern contraceptive use by county

Percentage of currently married women age 15-49


Figure 7.2 Trends in contraceptive use
Percentage of currently married women currently using a contraceptive method


Figure 7.3 Use of modern methods by education

Percentage of currently married women age 15-49


## Knowledge of the Fertile Period

Among women using the rhythm method, only $11 \%$ correctly identified the fertile period to be halfway between two menstrual periods. More than half of women using the rhythm method incorrectly identified the fertile period as being right after a woman's menstrual period has ended ( $57 \%$ ). However, these results should be interpreted with caution given that they are based on a small number of unweighted cases (Table 7.5). Among all women, $12 \%$ had correct knowledge of the fertile period (Table 7.6).

### 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

The public sector provides $57 \%$ of modern contraceptives in Liberia, to users, while the private sector provides $37 \%$ (Figure 7.5). The primary source varies by method; the majority of implants ( $81 \%$ ) and injectables $(56 \%)$ are provided by the public sector, while the majority of male condoms $(71 \%)$ are provided by the private sector. Similar percentages of pill users obtained their method from public and private sources (45\% and 43\%, respectively) (Table 7.7).

Within the public sector, government hospitals and health clinics are the most common sources for injectables, implants, and pills. Private pharmacies are the largest supplier of male condoms ( $68 \%$ ) and also provide significant percentages of pills ( $36 \%$ ) and injectables ( $23 \%$ ). Other sources, such as shops/markets, friends, and relatives, provide $11 \%$ of pills and $18 \%$ of condoms.

Among pill users, $23 \%$ use the social marketing brand Microlut, $74 \%$ use Microgynon, $2 \%$ use Planned Parenthood of Liberia pills, and $1 \%$ use other brands (Table 7.8).

### 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

Almost 7 in 10 ( $69 \%$ ) modern method users were informed about side effects or problems with their method. This information was most frequently provided to women using implants ( $84 \%$ ) and least frequently provided to pill users $(61 \%)$. Slightly fewer women were informed about what to do if they experienced side effects $(63 \%)$ or informed by a health or family planning worker of other methods that could be used (67\%). Overall, $55 \%$ of modern method users were provided with all three types of information (Table 7.9).

Women visiting public sector facilities were more likely to receive all three types of information than women visiting private facilities ( $63 \%$ versus $43 \%$ ).

### 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)

Overall, the 12-month contraceptive discontinuation rate was $41 \%$ for the 5 years before the survey (Table 7.10). The contraceptive discontinuation rate was highest for pills ( $47 \%$ ) and injectables ( $46 \%$ ); only $12 \%$ of implant users discontinued their method within 12 months

## (Figure 7.6).

The most common reason for discontinuation was side effects/health concerns (46\%), followed by desire to become pregnant (18\%) (Table 7.11). Users of implants and injectables were particularly likely to cite concerns about side effects and health ( $61 \%$ and $55 \%$, respectively).

Figure 7.6 Contraceptive discontinuation rates

Percentage of contraceptive episodes discontinued within 12 months among women age 15-49

### 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 <br> family planning: | Unmet need for family planning <br> + current contraceptive use (any method) |
| :--- | :---: |
| Proportion of <br> demand <br> satisfied: | Current contraceptive use (any method) |

```
Proportion of Current contraceptive use (any modern method)
demand
satisfied
by modern
methods:
```

Almost 6 in $10(58 \%)$ married women have a demand for family planning; $37 \%$ want to space births and $22 \%$ want to limit births. Twenty-five percent of family planning demand is being satisfied. However, $33 \%$ of women have an unmet need for family planning ( $21 \%$ for spacing and $13 \%$ for limiting) (Table 7.12.1). If all currently married women who say they want to space or limit their children were to use a family planning method, the contraceptive prevalence rate would increase from $25 \%$ to $58 \%$.

Trends: Total demand for family planning has increased over time, from $47 \%$ in 2007 to 58\% in 2019-20. After a decline from 2007 to 2013, unmet need has since increased slightly (from 31\% in 2013 to $33 \%$ in 2019-20). Currently, $41 \%$ of the demand for family planning is satisfied by modern methods, up from $22 \%$ in 2007.

## Patterns by background characteristics

- Unmet need generally decreases with age. Almost half ( $47 \%$ ) of women age $15-19$ have an unmet need for family planning, primarily for spacing. Comparatively, only $16 \%$ of women age 45-49 have an unmet need, primarily for limiting (Table 7.12.1).
- Unmet need for family planning is lowest among women with a higher education (19\%) and highest among those with only an elementary or junior high education ( $39 \%$ and $38 \%$, respectively) (Figure 7.7).
- Unmet need for family planning varies by county, from a low of $18 \%$ in Grand Kru to a high of $43 \%$ in

Figure 7.7 Unmet need for family planning by education

Percentage of currently married women age 15-49 with unmet need Margibi.

### 7.5.1 Decision Making about Family Planning

Among currently married women who are current users of family planning, $48 \%$ reported that they and their husband jointly decided to use family planning. Thirty-eight percent of women said that it was mainly their own decision, while $13 \%$ said that it was mainly their husband's decision. Among women who are nonusers, more than half ( $52 \%$ ) reported that they mainly made the decision not to use family planning on their own; $31 \%$ made the decision jointly with their husband (Table 7.13).

### 7.5.2 Future Use of Contraception

Among currently married women who are not currently using contraception, $57 \%$ say they do not intend to use contraception in the future. However, $38 \%$ of nonusers do intend to use a method in the future, and $6 \%$ are unsure. Intention to use family planning in the future is lowest among women with no living children ( $22 \%$ ) and then quickly climbs to over $35 \%$ among women with one or more children (Table 7.14).

### 7.5.3 Exposure to Family Planning Messages in the Media

Women and men interviewed in the 2019-20 LDHS were asked about family planning messages they may have heard or seen in the media (radio, television, newspaper/magazine, or mobile phone). The radio is the most frequent source of exposure to family planning messages among both women ( $32 \%$ ) and men ( $44 \%$ ). Other media channels were infrequently cited. In all, $67 \%$ of women and $51 \%$ of men did not hear or see family planning messages on any of the four specified media sources in the months before the survey (Table 7.15).

### 7.6 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

Among women age 15-49 who are not using contraception, almost two-thirds ( $65 \%$ ) did not discuss family planning with a fieldworker or at a health facility in the year before the survey. Twenty-three percent of women visited a health facility but did not discuss family planning during the visit, while $32 \%$ of women who visited a health facility discussed family planning. Only $7 \%$ were visited by a fieldworker who discussed family planning (Table 7.16).

## Patterns by background characteristics

- Contact of nonusers with family planning providers is higher in rural areas than urban areas: 43\% of women in rural areas discussed family planning with a fieldworker or provider, as compared with $30 \%$ of women in urban areas.
- Contact between nonusers and family planning providers ranges from 23\% in Margibi to $63 \%$ in Maryland and River Gee.
- Nonusers with a higher education and those from the wealthiest households have the least contact with family providers. Only $23 \%$ of women with a higher education discussed family planning with a provider in the year before the survey, as compared with over $30 \%$ of women from all other educational groups. Similarly, $24 \%$ of women from the wealthiest households had contact with a family planning provider, compared with $43 \%$ of women from the poorest households.


## List of Tables

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, Liberia DHS 2019-20 |  |  |  |  |  |  |
|  | 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 | 98.0 | 98.7 | 99.6 | 97.3 | 99.9 | 99.8 |
| Any modern method | 98.0 | 98.7 | 99.6 | 97.3 | 99.9 | 99.8 |
| Female sterilization | 42.9 | 45.0 | 44.0 | 42.7 | 53.3 | 43.0 |
| Male sterilization | 18.9 | 19.2 | 19.7 | 27.5 | 34.2 | 28.2 |
| Pill | 95.9 | 97.1 | 98.1 | 84.1 | 92.5 | 86.2 |
| IUD | 29.0 | 31.1 | 27.7 | 25.5 | 29.3 | 30.5 |
| Injectables | 95.8 | 96.5 | 98.1 | 83.7 | 90.6 | 90.7 |
| Implants | 95.2 | 96.3 | 97.0 | 81.6 | 89.7 | 87.1 |
| Male condom | 95.1 | 96.4 | 96.8 | 96.3 | 99.4 | 99.4 |
| Female condom | 64.0 | 65.4 | 71.1 | 66.0 | 75.5 | 70.3 |
| Emergency contraception | 40.2 | 40.5 | 48.0 | 28.1 | 34.7 | 34.9 |
| Standard days method (SDM) | 36.8 | 39.4 | 36.2 | 27.4 | 36.7 | 28.6 |
| Lactational amenorrhea (LAM) | 41.7 | 48.4 | 37.0 | 18.2 | 24.3 | 15.7 |
| Other modern method | 1.3 | 1.6 | 1.5 | 3.8 | 2.7 | 8.3 |
| Any traditional method | 76.4 | 78.9 | 84.8 | 75.8 | 86.4 | 88.4 |
| Rhythm | 58.5 | 59.8 | 65.9 | 52.7 | 62.3 | 61.5 |
| Withdrawal | 67.5 | 69.6 | 76.9 | 71.5 | 83.6 | 85.4 |
| Other traditional method | 2.7 | 3.3 | 1.6 | 3.0 | 4.7 | 1.6 |
| Mean number of methods known by respondents 15-49 | 7.9 | 8.1 | 8.2 | 7.1 | 8.1 | 7.7 |
| Number of respondents | 8,065 | 4,216 | 1,402 | 3,821 | 1,906 | 718 |
| Mean number of methods known by respondents 15-59 | na | na | na | 7.2 | 8.1 | 7.7 |
| Number of respondents | na | na | na | 4,249 | 2,264 | 734 |

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, by background characteristics, Liberia DHS 2019-20

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Heard of any method | Heard of any modern method ${ }^{1}$ | Number | Heard of any method | Heard of any modern method ${ }^{1}$ | Number |
| Age |  |  |  |  |  |  |
| 15-19 | 98.6 | 98.6 | 204 | * | * | 12 |
| 20-24 | 97.7 | 97.7 | 625 | 100.0 | 100.0 | 141 |
| 25-29 | 99.0 | 99.0 | 788 | 99.9 | 99.9 | 308 |
| 30-34 | 98.4 | 98.4 | 819 | 99.8 | 99.8 | 367 |
| 35-39 | 99.1 | 99.1 | 785 | 100.0 | 100.0 | 429 |
| 40-44 | 99.2 | 99.2 | 545 | 99.7 | 99.7 | 357 |
| 45-49 | 99.0 | 99.0 | 449 | 100.0 | 100.0 | 293 |
| Residence |  |  |  |  |  |  |
| Urban | 98.7 | 98.7 | 2,268 | 100.0 | 100.0 | 1,004 |
| Greater Monrovia | 98.5 | 98.5 | 1,150 | 100.0 | 100.0 | 583 |
| Other urban | 99.0 | 99.0 | 1,118 | 100.0 | 100.0 | 422 |
| Rural | 98.7 | 98.7 | 1,947 | 99.8 | 99.8 | 901 |
| Region |  |  |  |  |  |  |
| North Western | 97.8 | 97.8 | 400 | 99.5 | 99.5 | 175 |
| South Central | 98.8 | 98.8 | 1,801 | 100.0 | 100.0 | 878 |
| South Eastern A | 99.5 | 99.5 | 296 | 99.9 | 99.9 | 148 |
| South Eastern B | 99.7 | 99.7 | 254 | 99.6 | 99.6 | 109 |
| North Central | 98.6 | 98.6 | 1,464 | 99.9 | 99.9 | 596 |
| County |  |  |  |  |  |  |
| Bomi | 100.0 | 100.0 | 148 | 100.0 | 100.0 | 63 |
| Bong | 99.0 | 99.0 | 411 | 100.0 | 100.0 | 169 |
| Gbarpolu | 100.0 | 100.0 | 80 | 100.0 | 100.0 | 37 |
| Grand Bassa | 100.0 | 100.0 | 253 | 100.0 | 100.0 | 111 |
| Grand Cape Mount | 94.8 | 94.8 | 172 | 98.7 | 98.7 | 75 |
| Grand Gedeh | 98.8 | 98.8 | 116 | 99.7 | 99.7 | 55 |
| Grand Kru | 99.2 | 99.2 | 79 | 99.2 | 99.2 | 37 |
| Lofa | 99.3 | 99.3 | 380 | 100.0 | 100.0 | 154 |
| Margibi | 97.8 | 97.8 | 239 | 100.0 | 100.0 | 106 |
| Maryland | 100.0 | 100.0 | 120 | 100.0 | 100.0 | 47 |
| Montserrado | 98.7 | 98.7 | 1,309 | 100.0 | 100.0 | 662 |
| Nimba | 97.9 | 97.9 | 673 | 99.8 | 99.8 | 273 |
| River Cess | 100.0 | 100.0 | 66 | 100.0 | 100.0 | 27 |
| River Gee | 100.0 | 100.0 | 56 | 99.3 | 99.3 | 25 |
| Sinoe | 100.0 | 100.0 | 114 | 100.0 | 100.0 | 66 |
| Education |  |  |  |  |  |  |
| No education | 97.4 | 97.4 | 1,814 | 99.4 | 99.4 | 343 |
| Elementary | 99.8 | 99.8 | 935 | 99.9 | 99.9 | 349 |
| Junior high | 99.1 | 99.1 | 586 | 100.0 | 100.0 | 298 |
| Senior high | 100.0 | 100.0 | 697 | 100.0 | 100.0 | 687 |
| Higher | 100.0 | 100.0 | 184 | 100.0 | 100.0 | 229 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 98.3 | 98.3 | 930 | 99.9 | 99.9 | 417 |
| Second | 98.6 | 98.6 | 903 | 100.0 | 100.0 | 397 |
| Middle | 99.5 | 99.5 | 808 | 99.8 | 99.8 | 335 |
| Fourth | 98.8 | 98.8 | 783 | 99.7 | 99.7 | 362 |
| Highest | 98.6 | 98.6 | 792 | 100.0 | 100.0 | 395 |
| Total 15-49 | 98.7 | 98.7 | 4,216 | 99.9 | 99.9 | 1,906 |
| 50-59 | na | na | na | 99.0 | 99.0 | 358 |
| Total 15-59 | na | na | na | 99.7 | 99.7 | 2,264 |

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

## Table 7.3 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, Liberia DHS 2019-20

|  |  |  | Modern method |  |  |  |  |  |  |  |  |  | Any traditional method | Traditional method |  | Not currently using | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Any method | Any modern method | Female sterilization | Pill | IUD | Injectables | $\begin{gathered} \text { Im- } \\ \text { plants } \end{gathered}$ | Male condom | Emergency contraception | SDM | LAM | Other |  | Rhythm | Withdrawal |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 18.6 | 18.1 | 0.0 | 0.8 | 0.0 | 12.2 | 2.5 | 2.3 | 0.0 | 0.0 | 0.2 | 0.0 | 0.4 | 0.3 | 0.2 | 81.4 | 100.0 | 1,657 |
| 20-24 | 35.1 | 34.0 | 0.0 | 1.7 | 0.0 | 22.5 | 7.1 | 1.9 | 0.3 | 0.3 | 0.2 | 0.0 | 1.1 | 0.6 | 0.5 | 64.9 | 100.0 | 1,506 |
| 25-29 | 33.8 | 32.0 | 0.0 | 4.1 | 0.1 | 19.7 | 6.5 | 1.3 | 0.0 | 0.0 | 0.1 | 0.2 | 1.8 | 0.5 | 1.3 | 66.2 | 100.0 | 1,375 |
| 30-34 | 29.0 | 27.7 | 0.0 | 4.7 | 0.1 | 15.4 | 6.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.1 | 0.1 | 71.0 | 100.0 | 1,112 |
| 35-39 | 25.5 | 25.1 | 0.0 | 3.9 | 0.0 | 13.6 | 5.0 | 1.9 | 0.1 | 0.4 | 0.0 | 0.2 | 0.4 | 0.1 | 0.3 | 74.5 | 100.0 | 1,020 |
| 40-44 | 19.6 | 18.9 | 0.7 | 5.7 | 0.0 | 8.4 | 3.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.0 | 80.4 | 100.0 | 769 |
| 45-49 | 13.5 | 12.7 | 0.9 | 2.8 | 0.7 | 6.1 | 1.9 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.8 | 0.8 | 0.1 | 86.5 | 100.0 | 626 |
| Total | 26.2 | 25.3 | 0.1 | 3.1 | 0.1 | 15.2 | 5.0 | 1.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.9 | 0.5 | 0.4 | 73.8 | 100.0 | 8,065 |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 9.2 | 9.2 | 0.0 | 0.8 | 0.0 | 7.3 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.8 | 100.0 | 204 |
| 20-24 | 28.3 | 27.1 | 0.0 | 1.5 | 0.0 | 18.6 | 5.0 | 1.4 | 0.0 | 0.2 | 0.4 | 0.0 | 1.2 | 0.1 | 1.1 | 71.7 | 100.0 | 625 |
| 25-29 | 30.8 | 28.1 | 0.0 | 4.6 | 0.1 | 16.9 | 4.8 | 1.2 | 0.0 | 0.0 | 0.1 | 0.4 | 2.6 | 0.4 | 2.3 | 69.2 | 100.0 | 788 |
| 30-34 | 28.4 | 27.2 | 0.0 | 5.3 | 0.1 | 15.2 | 5.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.0 | 0.2 | 71.6 | 100.0 | 819 |
| 35-39 | 24.6 | 24.6 | 0.1 | 3.8 | 0.0 | 13.6 | 5.7 | 1.0 | 0.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 75.4 | 100.0 | 785 |
| 40-44 | 22.6 | 21.7 | 1.0 | 6.0 | 0.0 | 10.4 | 3.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.0 | 77.4 | 100.0 | 545 |
| 45-49 | 14.4 | 13.9 | 0.7 | 3.8 | 1.0 | 6.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.4 | 0.1 | 85.6 | 100.0 | 449 |
| Total | 24.9 | 23.9 | 0.2 | 4.1 | 0.1 | 13.7 | 4.6 | 0.8 | 0.0 | 0.0 | 0.1 | 0.1 | 1.1 | 0.5 | 0.6 | 75.1 | 100.0 | 4,216 |
| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 43.3 | 42.3 | 0.0 | 2.2 | 0.1 | 29.3 | 6.4 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.3 | 0.7 | 56.7 | 100.0 | 400 |
| 20-24 | 50.7 | 49.6 | 0.0 | 2.7 | 0.0 | 32.2 | 12.0 | 1.5 | 1.2 | 0.0 | 0.0 | 0.0 | 1.1 | 0.8 | 0.2 | 49.3 | 100.0 | 434 |
| 25+ | 44.5 | 43.1 | 0.0 | 5.4 | 0.1 | 23.9 | 10.8 | 2.8 | 0.0 | 0.2 | 0.0 | 0.0 | 1.4 | 0.9 | 0.5 | 55.5 | 100.0 | 568 |
| Total | 46.0 | 44.9 | 0.0 | 3.6 | 0.0 | 28.0 | 9.9 | 2.9 | 0.4 | 0.1 | 0.0 | 0.0 | 1.2 | 0.7 | 0.5 | 54.0 | 100.0 | 1,402 |

[^8]Table 7.4 Current use of contraception according to background characteristics
Percent distribution of currently married and sexually active unmarried women age 15-49 by contraceptive method currently used, according to background characteristics, Liberia DHS 2019-20

|  |  |  | Modern method |  |  |  |  |  |  |  |  |  | Any traditional method | Traditional method |  | Not currently using |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Any method | Any modern method | Female sterilization | Pill | IUD | Injectables | $\begin{aligned} & \text { Im- } \\ & \text { plants } \end{aligned}$ | Male condom | Emergency contraception | SDM | LAM | Other |  | Rhythm | Withdrawal |  |  | Number of women |

## Number of living

children
0
$1-2$
$3-4$
$5+$
Residence
Urban
Greater Monrovia
Other urban

| 12.6 | 10.7 | 0.0 | 0.3 | 0.0 | 8.1 | 1.1 | 1.2 | 0.0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| 25.0 | 23.7 | 0.1 | 2.3 | 0.0 | 14.2 | 5.5 | 0.9 | 0.0 |
| 24.9 | 23.7 | 0.2 | 6.0 | 0.4 | 12.2 | 3.9 | 1.0 | 0.1 |
| 27.8 | 27.3 | 0.5 | 4.9 | 0.0 | 16.3 | 5.2 | 0.4 | 0.0 |


| 0.0 | 0.0 | 0.0 | 1.9 | 0.4 | 1.5 | 87.4 | 100.0 | 249 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0.1 | 0.2 | 0.3 | 1.4 | 0.4 | 0.9 | 75.0 | 100.0 | 1,503 |
| 0.0 | 0.0 | 0.0 | 1.1 | 0.6 | 0.5 | 75.1 | 100.0 | 1,369 |
| 0.0 | 0.0 | 0.0 | 0.4 | 0.3 | 0.2 | 72.2 | 100.0 | 1,094 |
|  |  |  |  |  |  |  |  |  |
| 0.0 | 0.1 | 0.2 | 1.5 | 0.6 | 0.9 | 76.1 | 100.0 | 2,268 |
| 0.0 | 0.2 | 0.2 | 2.1 | 0.8 | 1.3 | 77.3 | 100.0 | 1,150 |
| 0.0 | 0.0 | 0.3 | 1.0 | 0.4 | 0.5 | 74.9 | 100.0 | 1,118 |
| 0.1 | 0.0 | 0.0 | 0.6 | 0.3 | 0.3 | 73.8 | 100.0 | 1,947 |

Region

| North Western | 26.9 | 26.3 | 0.0 | 5.3 | 0.2 | 16.5 | 3.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 73.1 | 100.0 | 400 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| South Central | 22.2 | 20.7 | 0.0 | 3.3 | 0.3 | 11.3 | 4.2 | 1.2 | 0.1 | 0.0 | 0.2 | 0.1 | 1.5 | 0.6 | 0.9 | 77.8 | 100.0 | 1,801 |
| South Eastern A | 37.6 | 36.9 | 0.2 | 3.6 | 0.0 | 24.6 | 7.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.5 | 0.2 | 62.4 | 100.0 | 296 |
| South Eastern B | 43.3 | 43.2 | 0.2 | 4.8 | 0.0 | 24.2 | 13.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 56.7 | 100.0 | 254 |
| North Central | 22.1 | 21.2 | 0.5 | 4.6 | 0.1 | 11.9 | 3.2 | 0.6 | 0.0 | 0.1 | 0.0 | 0.2 | 0.9 | 0.3 | 0.6 | 77.9 | 100.0 | 1,464 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 30.9 | 30.0 | 0.0 | 5.2 | 0.2 | 21.3 | 2.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 69.1 | 100.0 | 148 |
| Bong | 24.4 | 24.1 | 1.3 | 5.6 | 0.0 | 11.5 | 5.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 | 75.6 | 100.0 | 411 |
| Gbarpolu | 26.4 | 26.2 | 0.0 | 5.7 | 0.0 | 13.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 73.6 | 100.0 | 80 |
| Grand Bassa | 23.7 | 23.3 | 0.0 | 6.8 | 0.0 | 13.9 | 2.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.2 | 0.2 | 76.3 | 100.0 | 253 |
| Grand Cape Mount | 23.7 | 23.1 | 0.0 | 5.3 | 0.2 | 13.9 | 3.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 76.3 | 100.0 | 172 |
| Grand Gedeh | 38.0 | 37.0 | 0.1 | 3.4 | 0.0 | 27.6 | 4.5 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 62.0 | 100.0 | 116 |
| Grand Kru | 42.5 | 42.2 | 0.3 | 4.4 | 0.0 | 24.5 | 11.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 | 57.5 | 100.0 | 79 |
| Lofa | 22.7 | 21.7 | 0.0 | 6.7 | 0.2 | 11.7 | 2.8 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 77.3 | 100.0 | 380 |
| Margibi | 17.8 | 17.0 | 0.0 | 2.1 | 0.0 | 12.3 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 | 82.2 | 100.0 | 239 |
| Maryland | 45.1 | 45.1 | 0.2 | 5.0 | 0.0 | 23.3 | 15.9 | 0.6 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 54.9 | 100.0 | 120 |
| Montserrado | 22.7 | 20.8 | 0.0 | 2.9 | 0.4 | 10.7 | 5.0 | 1.4 | 0.1 | 0.0 | 0.3 | 0.2 | 1.9 | 0.7 | 1.2 | 77.3 | 100.0 | 1,309 |
| Nimba | 20.3 | 19.0 | 0.4 | 2.8 | 0.0 | 12.3 | 2.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 0.0 | 1.2 | 79.7 | 100.0 | 673 |
| River Cess | 35.1 | 33.7 | 0.6 | 6.4 | 0.0 | 22.3 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.7 | 0.8 | 64.9 | 100.0 | 66 |
| River Gee | 40.6 | 40.6 | 0.2 | 5.0 | 0.0 | 25.7 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.4 | 100.0 | 56 |
| Sinoe | 38.6 | 38.6 | 0.0 | 2.2 | 0.0 | 23.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.4 | 100.0 | 114 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 20.9 | 20.2 | 0.5 | 4.7 | 0.1 | 11.1 | 3.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.2 | 0.4 | 79.1 | 100.0 | 1,814 |
| Elementary | 25.1 | 24.8 | 0.1 | 4.6 | 0.0 | 14.8 | 4.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 74.9 | 100.0 | 935 |
| Junior high | 33.0 | 31.6 | 0.0 | 3.0 | 0.1 | 19.5 | 7.6 | 1.2 | 0.0 | 0.0 | 0.1 | 0.0 | 1.5 | 0.2 | 1.2 | 67.0 | 100.0 | 586 |
| Senior high | 28.0 | 25.4 | 0.0 | 3.1 | 0.0 | 15.4 | 4.7 | 1.8 | 0.2 | 0.1 | 0.0 | 0.0 | 2.6 | 1.1 | 1.6 | 72.0 | 100.0 | 697 |
| Higher | 27.3 | 24.4 | 0.0 | 1.6 | 2.7 | 9.7 | 2.7 | 3.7 | 0.0 | 0.0 | 1.4 | 2.7 | 2.8 | 2.8 | 0.0 | 72.7 | 100.0 | 184 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 24.1 | 23.5 | 0.6 | 5.3 | 0.0 | 13.0 | 4.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.3 | 0.3 | 75.9 | 100.0 | 930 |
| Second | 26.4 | 25.2 | 0.2 | 4.0 | 0.1 | 15.9 | 4.2 | 0.5 | 0.0 | 0.1 | 0.1 | 0.0 | 1.3 | 0.4 | 0.9 | 73.6 | 100.0 | 903 |
| Middle | 23.9 | 23.2 | 0.2 | 5.1 | 0.0 | 14.0 | 3.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 | 76.1 | 100.0 | 808 |
| Fourth | 30.7 | 29.0 | 0.0 | 2.8 | 0.0 | 17.7 | 6.5 | 1.6 | 0.0 | 0.0 | 0.0 | 0.4 | 1.7 | 0.9 | 0.8 | 69.3 | 100.0 | 783 |
| Highest | 19.5 | 18.4 | 0.0 | 2.8 | 0.6 | 7.9 | 4.4 | 1.9 | 0.1 | 0.0 | 0.3 | 0.3 | 1.2 | 0.7 | 0.5 | 80.5 | 100.0 | 792 |
| Total | 24.9 | 23.9 | 0.2 | 4.1 | 0.1 | 13.7 | 4.6 | 0.8 | 0.0 | 0.0 | 0.1 | 0.1 | 1.1 | 0.5 | 0.6 | 75.1 | 100.0 | 4,216 |


| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 46.4 | 45.1 | 0.0 | 3.4 | 0.0 | 27.0 | 10.5 | 3.7 | 0.5 | 0.0 | 0.0 | 0.0 | 1.3 | 0.8 | 0.5 | 53.6 | 100.0 | 1,037 |
| Greater Monrovia | 45.4 | 44.3 | 0.0 | 2.4 | 0.0 | 25.8 | 10.4 | 4.9 | 0.8 | 0.0 | 0.0 | 0.0 | 1.1 | 0.4 | 0.8 | 54.6 | 100.0 | 695 |
| Other urban | 48.4 | 46.7 | 0.0 | 5.5 | 0.0 | 29.4 | 10.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.6 | 0.1 | 51.6 | 100.0 | 342 |
| Rural | 45.0 | 44.3 | 0.0 | 4.2 | 0.1 | 30.9 | 8.3 | 0.5 | 0.0 | 0.3 | 0.0 | 0.0 | 0.8 | 0.5 | 0.2 | 55.0 | 100.0 | 364 |
| Total | 46.0 | 44.9 | 0.0 | 3.6 | 0.0 | 28.0 | 9.9 | 2.9 | 0.4 | 0.1 | 0.0 | 0.0 | 1.2 | 0.7 | 0.5 | 54.0 | 100.0 | 1,402 |

[^9]Table 7.5 Knowledge of fertile period
Percent distribution of rhythm users and all women age 15-49 by knowledge of the fertile period during the ovulatory cycle, Liberia DHS 2019-20

| Perceived fertile period | Users of rhythm <br> method | All women |
| :--- | :---: | :---: |
| Just before her menstrual |  |  |
| period begins | $(6.7)$ | 5.9 |
| During her menstrual period <br> Right after her menstrual <br> period has ended | $(0.0)$ | 4.0 |
| Halfway between two <br> $\quad$ menstrual periods | $(56.7)$ | 49.1 |
| Other | $(10.5)$ | 11.5 |
| No specific time | $(0.0)$ | 0.8 |
| Don't know | $(3.6)$ | 9.8 |
| Missing | $(22.4)$ | 18.8 |
| Total | $(0.0)$ | 0.0 |
| Number of women | $(100.0)$ | 100.0 |

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

| Table 7.6 Knowledge of fertile period <br> by age  <br> Percentage of women age  <br> correct knowledge of the fertile period  <br> during the ovulatory cycle, according to  <br> age, Liberia DHS 2019-20  |  |  |
| :--- | :---: | :---: |
| Percentage |  |  |
| with correct |  |  |
| knowledge of |  |  |
| the fertile |  |  |
| Age | period | Number of |
| $15-19$ | 7.0 | 1,657 |
| $20-24$ | 12.9 | 1,506 |
| $25-29$ | 13.7 | 1,375 |
| $30-34$ | 13.4 | 1,112 |
| $35-39$ | 11.0 | 1,020 |
| $40-44$ | 12.2 | 769 |
| $45-49$ | 12.4 | 626 |
| Total | 11.5 | 8,065 |

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

| Table 7.7 Source of modern contraceptive methods |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of method, according to method, Liberia DHS 2019-20 |  |  |  |  |  |
| Source | Injectables | Implants | Pill | Male condom | Total |
| Public sector | 56.1 | 80.9 | 45.2 | 10.6 | 56.6 |
| Government hospital | 18.9 | 32.0 | 12.2 | 7.3 | 20.1 |
| Government health center | 4.7 | 6.0 | 2.6 | 0.3 | 4.4 |
| Government health clinic | 30.5 | 42.1 | 27.4 | 2.7 | 30.3 |
| Mobile clinic | 1.6 | 0.7 | 2.7 | 0.4 | 1.5 |
| Other | 0.4 | 0.2 | 0.3 | 0.0 | 0.3 |
| Private medical sector | 39.9 | 15.7 | 43.4 | 71.1 | 37.4 |
| Private hospital/center/clinic | 9.2 | 7.3 | 3.5 | 1.1 | 7.7 |
| Pharmacy | 22.5 | 0.3 | 36.1 | 67.7 | 22.4 |
| Private doctor | 3.4 | 1.2 | 1.2 | 0.0 | 2.6 |
| Planned Parenthood |  |  |  |  |  |
| Association of Liberia | 2.5 | 5.9 | 0.2 | 2.3 | 2.9 |
| Mobile clinic | 2.2 | 1.0 | 2.4 | 0.0 | 1.8 |
| Other | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other source | 3.5 | 2.4 | 11.0 | 17.8 | 5.3 |
| Shop/market | 1.6 | 0.1 | 7.8 | 5.3 | 2.2 |
| Friend/relative | 1.9 | 2.3 | 3.2 | 12.5 | 3.1 |
| Other | 0.4 | 1.0 | 0.4 | 0.5 | 0.6 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 1,225 | 404 | 249 | 117 | 2,034 |

Note: Total includes 39 cases of other modern methods that are not listed separately, but excludes lactational amenorrhea method (LAM).

| Percentage of pill users age $15-49$ using a specific social marketing brand, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Percentage using Microlut | Percentage using Microgynon | Percentage using Planned Parenthood of Liberia brand | Other | Number of women |
| Age |  |  |  |  |  |
| 15-19 | * | * | * | * | 13 |
| 20-24 | (14.8) | (84.5) | (0.7) | (0.0) | 25 |
| 25-29 | 10.0 | 88.9 | 1.1 | 0.0 | 57 |
| 30-34 | 29.6 | 69.9 | 0.5 | 0.0 | 52 |
| 35-39 | 48.5 | 49.5 | 2.0 | 0.0 | 40 |
| 40-44 | 8.0 | 89.1 | 0.0 | 2.8 | 44 |
| 45-49 | * | * | * | * | 17 |
| Residence |  |  |  |  |  |
| Urban | 22.4 | 75.7 | 1.9 | 0.0 | 125 |
| Greater Monrovia | * | * | * | * | 64 |
| Other urban | 26.3 | 69.9 | 3.8 | 0.0 | 61 |
| Rural | 24.1 | 72.6 | 2.3 | 1.0 | 123 |
| Region |  |  |  |  |  |
| North Western | 31.3 | 66.4 | 2.4 | 0.0 | 30 |
| South Central | 20.7 | 78.6 | 0.0 | 0.7 | 92 |
| South Eastern A | (10.9) | (81.8) | (3.1) | (4.2) | 14 |
| South Eastern B | 29.4 | 66.4 | 4.2 | 0.0 | 19 |
| North Central | 23.9 | 72.6 | 3.5 | 0.0 | 92 |
| County |  |  |  |  |  |
| Bomi | * | * | * | * | 11 |
| Bong | (28.2) | (63.8) | (8.0) | (0.0) | 32 |
| Gbarpolu |  |  |  |  | 5 |
| Grand Bassa | (25.4) | (71.3) | (0.0) | (3.3) | 20 |
| Grand Cape Mount | * | * | * | * | 13 |
| Grand Gedeh | * | * | * | * | 5 |
| Grand Kru | * | * | * | * | 5 |
| Lofa | (8.6) | (91.4) | (0.0) | (0.0) | 33 |
| Margibi | * |  | * | * | 6 |
| Maryland | (39.9) | (60.1) | (0.0) | (0.0) | 10 |
| Montserrado | (19.8) | (80.2) | (0.0) | (0.0) | 66 |
| Nimba | * | * | * | * | 28 |
| River Cess | * | * | * | * | 6 |
| River Gee | * | * | * | * | 4 |
| Sinoe | * | * | * | * | 4 |
| Education |  |  |  |  |  |
| No education | 27.7 | 66.9 | 4.8 | 0.6 | 101 |
| Elementary | 22.2 | 77.5 | 0.3 | 0.0 | 56 |
| Junior high | (28.4) | (68.9) | (0.6) | (2.1) | 29 |
| Senior high | (16.5) | (83.5) | (0.0) | (0.0) | 55 |
| Higher | * | * | * | * | 7 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 16.3 | 77.5 | 4.1 | 2.1 | 59 |
| Second | 27.7 | 70.9 | 1.4 | 0.0 | 45 |
| Middle | 26.9 | 69.9 | 3.2 | 0.0 | 67 |
| Fourth | (11.7) | (88.3) | (0.0) | (0.0) | 35 |
| Highest | (32.2) | (67.8) | (0.0) | (0.0) | 42 |
| Total | 23.3 | 74.2 | 2.1 | 0.5 | 248 |

Note: Table excludes pill users who do not know the brand name. 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 7.9 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, and percentage who were informed of all three, according to method and initial source, Liberia DHS 2019-20

| Method/source | Among women who started last episode of modern contraceptive method within the 5 years preceding the survey: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who were informed about side effects or problems of method used | Percentage who were informed about what to do if they experienced side effects | Percentage who were informed by a health or family planning worker of other methods that could be used | Percentage who were informed of all three (method information index) | Number of women |
| Method |  |  |  |  |  |
| Female sterilization | * | * | * | * | 2 |
| IUD | * | * | * | * | 7 |
| Injectables | 65.5 | 59.9 | 64.6 | 51.7 | 1,124 |
| Implants | 84.1 | 79.2 | 75.7 | 65.0 | 381 |
| Pill | 61.3 | 53.7 | 63.3 | 50.0 | 227 |
| Initial source of method ${ }^{1}$ |  |  |  |  |  |
| Public Sector | 77.6 | 72.8 | 74.1 | 63.1 | 1,076 |
| Government hospital | 81.8 | 76.9 | 78.4 | 68.4 | 360 |
| Government health center | 74.1 | 65.0 | 64.4 | 55.6 | 105 |
| Government health clinic | 75.2 | 71.4 | 73.1 | 61.1 | 587 |
| Mobile clinic | (86.4) | (82.4) | (88.0) | (75.0) | 20 |
| Other | * |  |  |  | 4 |
| Private medical sector | 56.8 | 49.8 | 56.9 | 42.5 | 567 |
| Private hospital/center/clinic | 66.4 | 61.5 | 69.4 | 59.3 | 154 |
| Pharmacy | 47.5 | 38.4 | 47.1 | 29.3 | 300 |
| Private doctor | (52.8) | (52.8) | (42.1) | (37.4) | 34 |
| Planned Parenthood |  |  |  |  |  |
| Association of Liberia | (85.7) | (85.7) | (93.3) | (79.5) | 53 |
| Mobile clinic | (54.5) | (33.6) | (40.4) | (28.0) | 25 |
| Other | * | * | * | * | 0 |
| Other source | 47.9 | 39.7 | 47.1 | 30.2 | 94 |
| Other | * | * | * | * | 4 |
| Total | 69.1 | 63.4 | 66.9 | 54.5 | 1,741 |

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.
${ }^{1}$ Source at start of current episode of use

## Table 7.10 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, Liberia DHS 2019-20

| Method | Reason for discontinuation |  |  |  |  |  |  |  |  | Number of episodes of $u s e^{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Method failure | Desire to become pregnant | Other fertilityrelated reasons ${ }^{1}$ | Side effects/ health concerns | Wanted more effective method | Other methodrelated reasons ${ }^{2}$ | Other reasons | Any reason ${ }^{3}$ | Switched to another method ${ }^{4}$ |  |
| Injectables | 0.9 | 6.7 | 1.7 | 26.2 | 1.2 | 4.7 | 4.8 | 46.3 | 1.1 | 2,196 |
| Implants | 0.2 | 2.1 | 0.0 | 8.4 | 0.0 | 0.6 | 1.1 | 12.4 | 0.9 | 492 |
| Pill | 2.2 | 7.7 | 1.1 | 19.8 | 5.7 | 6.3 | 4.2 | 47.0 | 3.5 | 538 |
| Other ${ }^{6}$ | (3.3) | (7.9) | (5.2) | (1.6) | (10.4) | (3.1) | (2.9) | (34.4) | (5.2) | 393 |
| All methods | 1.3 | 6.4 | 1.8 | 20.2 | 2.7 | 4.2 | 4.0 | 40.5 | 1.8 | 3,619 |

Note: Figures are based on life table calculations using information on episodes of use that occurred 3-62 months preceding the survey. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation
${ }^{2}$ Includes lack of access/too far, costs too much, and inconvenient to use
${ }^{3}$ Reasons for discontinuation are mutually exclusive and add to the total given in this column.
${ }^{4}$ A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within 2 months of discontinuation.
${ }^{5}$ 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.
${ }^{6}$ Includes female sterilization, IUD, female condom, male condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), rhythm method, withdrawal, other modern method, and other traditional method

## Table 7.11 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, Liberia DHS 2019-20

| Reason | Injectables | Implants | Pill | Other $^{1}$ | All methods |
| :--- | :---: | :---: | ---: | ---: | ---: |
| Became pregnant while using | 3.4 | 0.6 | 6.0 | 2.8 | 4.3 |
| Wanted to become pregnant | 16.4 | 15.4 | 19.1 | 37.3 | 18.4 |
| Husband/partner disapproved | 1.7 | 6.5 | 2.6 | 5.9 | 2.5 |
| Wanted more effective method | 2.3 | 0.0 | 12.2 | 26.8 | 6.3 |
| Health concerns/side effects | 54.5 | 60.7 | 36.0 | 2.5 | 46.4 |
| Lack of access/too far | 3.8 | 0.0 | 4.9 | 2.6 | 3.5 |
| Costs too much | 2.8 | 0.2 | 0.6 | 1.1 | 2.0 |
| Inconvenient to use | 2.8 | 3.3 | 8.0 | 4.1 | 3.8 |
| Up to God/fatalistic | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Difficult to get pregnant/ |  |  |  |  |  |
| menopausal | 0.2 | 0.0 | 1.1 | 4.2 | 0.8 |
| Infrequent sex/husband away | 3.5 | 0.2 | 0.5 | 10.0 | 3.7 |
| Marital dissolution/separation | 0.0 | 0.0 | 1.8 | 0.0 | 0.4 |
| Other | 7.5 | 13.1 | 6.9 | 2.5 | 7.3 |
| Don't know | 1.2 | 0.0 | 0.0 | 0.0 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of discontinuations | 1,320 | 169 | 366 | 129 | 2,067 |

${ }^{1}$ Includes IUD, female condom, male condom, standard days method (SDM), lactational amenorrhea method (LAM), rhythm method, withdrawal, and other modern method

Table 7.12.1 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, and percentage of the demand for family planning that is satisfied, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 42.5 | 4.7 | 47.2 | 9.2 | 0.0 | 9.2 | 51.6 | 4.7 | 56.4 | 204 | 16.3 | 16.3 |
| 20-24 | 30.2 | 5.6 | 35.8 | 24.9 | 3.3 | 28.3 | 55.1 | 8.9 | 64.1 | 625 | 44.1 | 42.3 |
| 25-29 | 31.3 | 5.7 | 37.0 | 24.8 | 6.0 | 30.8 | 56.1 | 11.7 | 67.7 | 788 | 45.4 | 41.5 |
| 30-34 | 20.4 | 12.5 | 32.9 | 20.5 | 7.9 | 28.4 | 40.9 | 20.4 | 61.3 | 819 | 46.4 | 44.4 |
| 35-39 | 13.5 | 20.8 | 34.3 | 10.8 | 13.8 | 24.6 | 24.3 | 34.6 | 58.9 | 785 | 41.8 | 41.7 |
| 40-44 | 10.7 | 23.5 | 34.2 | 6.9 | 15.8 | 22.6 | 17.6 | 39.3 | 56.9 | 545 | 39.8 | 38.2 |
| 45-49 | 2.8 | 13.5 | 16.3 | 2.4 | 12.0 | 14.4 | 5.2 | 25.5 | 30.7 | 449 | 46.8 | 45.2 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 22.0 | 12.3 | 34.3 | 16.0 | 7.9 | 23.9 | 37.9 | 20.2 | 58.2 | 2,268 | 41.1 | 38.5 |
| Greater Monrovia | 20.4 | 14.3 | 34.7 | 15.1 | 7.6 | 22.7 | 35.6 | 21.9 | 57.4 | 1,150 | 39.6 | 36.0 |
| Other urban | 23.5 | 10.2 | 33.8 | 16.8 | 8.3 | 25.1 | 40.4 | 18.5 | 58.9 | 1,118 | 42.6 | 41.0 |
| Rural | 18.9 | 13.6 | 32.5 | 15.8 | 10.3 | 26.2 | 34.7 | 23.9 | 58.6 | 1,947 | 44.6 | 43.6 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 17.7 | 15.2 | 32.9 | 13.8 | 13.1 | 26.9 | 31.5 | 28.3 | 59.8 | 400 | 45.0 | 44.0 |
| South Central | 20.7 | 15.4 | 36.1 | 14.6 | 7.6 | 22.2 | 35.3 | 23.0 | 58.3 | 1,801 | 38.0 | 35.4 |
| South Eastern A | 15.3 | 6.5 | 21.8 | 27.9 | 9.7 | 37.6 | 43.1 | 16.2 | 59.4 | 296 | 63.3 | 62.1 |
| South Eastern B | 12.9 | 6.6 | 19.5 | 28.2 | 15.1 | 43.3 | 41.1 | 21.7 | 62.8 | 254 | 69.0 | 68.8 |
| North Central | 23.5 | 11.6 | 35.1 | 13.6 | 8.5 | 22.1 | 37.1 | 20.0 | 57.1 | 1,464 | 38.6 | 37.0 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 14.8 | 14.7 | 29.5 | 15.6 | 15.3 | 30.9 | 30.5 | 30.0 | 60.5 | 148 | 51.2 | 49.6 |
| Bong | 21.6 | 11.3 | 32.9 | 16.6 | 7.8 | 24.4 | 38.1 | 19.2 | 57.3 | 411 | 42.6 | 42.1 |
| Gbarpolu | 18.1 | 13.0 | 31.1 | 13.6 | 12.8 | 26.4 | 31.7 | 25.8 | 57.5 | 80 | 45.9 | 45.5 |
| Grand Bassa | 18.7 | 17.7 | 36.3 | 14.2 | 9.6 | 23.7 | 32.8 | 27.2 | 60.1 | 253 | 39.5 | 38.8 |
| Grand Cape Mount | 20.0 | 16.6 | 36.5 | 12.3 | 11.4 | 23.7 | 32.2 | 28.0 | 60.2 | 172 | 39.3 | 38.4 |
| Grand Gedeh | 16.9 | 3.9 | 20.9 | 32.5 | 5.5 | 38.0 | 49.4 | 9.5 | 58.9 | 116 | 64.5 | 62.8 |
| Grand Kru | 13.4 | 4.6 | 18.0 | 28.5 | 14.0 | 42.5 | 41.9 | 18.6 | 60.5 | 79 | 70.2 | 69.6 |
| Lofa | 19.2 | 9.2 | 28.4 | 12.1 | 10.6 | 22.7 | 31.3 | 19.8 | 51.1 | 380 | 44.4 | 42.5 |
| Margibi | 25.7 | 16.9 | 42.6 | 12.2 | 5.6 | 17.8 | 37.9 | 22.5 | 60.4 | 239 | 29.4 | 28.1 |
| Maryland | 12.8 | 7.3 | 20.1 | 29.0 | 16.1 | 45.1 | 41.8 | 23.4 | 65.2 | 120 | 69.1 | 69.1 |
| Montserrado | 20.2 | 14.7 | 34.9 | 15.1 | 7.6 | 22.7 | 35.3 | 22.3 | 57.6 | 1,309 | 39.4 | 36.1 |
| Nimba | 27.1 | 13.1 | 40.2 | 12.6 | 7.7 | 20.3 | 39.7 | 20.7 | 60.4 | 673 | 33.5 | 31.5 |
| River Cess | 12.5 | 11.0 | 23.5 | 16.9 | 18.3 | 35.1 | 29.4 | 29.3 | 58.7 | 66 | 59.9 | 57.4 |
| River Gee | 12.3 | 7.8 | 20.1 | 26.1 | 14.5 | 40.6 | 38.4 | 22.3 | 60.7 | 56 | 66.9 | 66.9 |
| Sinoe | 15.1 | 6.5 | 21.6 | 29.6 | 9.1 | 38.6 | 44.7 | 15.6 | 60.2 | 114 | 64.1 | 64.1 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 14.4 | 15.7 | 30.2 | 11.6 | 9.3 | 20.9 | 26.0 | 25.0 | 51.0 | 1,814 | 40.9 | 39.7 |
| Elementary | 26.2 | 12.6 | 38.7 | 15.9 | 9.2 | 25.1 | 42.0 | 21.8 | 63.8 | 935 | 39.3 | 38.9 |
| Junior high | 26.4 | 11.1 | 37.5 | 19.2 | 13.8 | 33.0 | 45.6 | 24.9 | 70.5 | 586 | 46.8 | 44.8 |
| Senior high | 26.2 | 9.0 | 35.2 | 23.6 | 4.4 | 28.0 | 49.8 | 13.3 | 63.2 | 697 | 44.3 | 40.1 |
| Higher | 11.7 | 7.6 | 19.3 | 19.4 | 7.9 | 27.3 | 31.1 | 15.5 | 46.6 | 184 | 58.5 | 52.4 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 20.7 | 12.7 | 33.4 | 13.7 | 10.4 | 24.1 | 34.4 | 23.1 | 57.5 | 930 | 42.0 | 40.9 |
| Second | 17.9 | 16.1 | 33.9 | 16.1 | 10.4 | 26.4 | 33.9 | 26.4 | 60.4 | 903 | 43.8 | 41.7 |
| Middle | 23.2 | 10.8 | 34.0 | 14.2 | 9.8 | 23.9 | 37.4 | 20.5 | 57.9 | 808 | 41.3 | 40.0 |
| Fourth | 20.8 | 13.6 | 34.4 | 23.8 | 6.9 | 30.7 | 44.7 | 20.5 | 65.1 | 783 | 47.2 | 44.6 |
| Highest | 20.3 | 11.1 | 31.5 | 12.3 | 7.2 | 19.5 | 32.7 | 18.3 | 51.0 | 792 | 38.3 | 36.0 |
| Total | 20.5 | 12.9 | 33.4 | 15.9 | 9.0 | 24.9 | 36.5 | 21.9 | 58.4 | 4,216 | 42.7 | 40.9 |

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.
${ }^{1}$ 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 sterilization, male sterilization, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and other modern methods.

Table 7.12.2 Need and demand for family planning for all women and for 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, and percentage of the demand for family planning that is satisfied, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| ALL WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 22.1 | 0.8 | 23.0 | 18.4 | 0.1 | 18.6 | 40.6 | 1.0 | 41.5 | 1,657 | 44.7 | 43.6 |
| 20-24 | 27.9 | 2.8 | 30.7 | 33.1 | 2.0 | 35.1 | 61.1 | 4.8 | 65.8 | 1,506 | 53.3 | 51.6 |
| 25-29 | 24.0 | 5.1 | 29.0 | 29.1 | 4.7 | 33.8 | 53.1 | 9.7 | 62.8 | 1,375 | 53.8 | 51.0 |
| 30-34 | 18.3 | 10.3 | 28.6 | 21.8 | 7.2 | 29.0 | 40.1 | 17.5 | 57.6 | 1,112 | 50.3 | 48.1 |
| 35-39 | 12.0 | 16.7 | 28.8 | 12.3 | 13.2 | 25.5 | 24.3 | 29.9 | 54.2 | 1,020 | 47.0 | 46.3 |
| 40-44 | 8.7 | 18.8 | 27.4 | 6.2 | 13.3 | 19.6 | 14.9 | 32.1 | 47.0 | 769 | 41.6 | 40.3 |
| 45-49 | 2.7 | 11.9 | 14.6 | 2.6 | 10.9 | 13.5 | 5.2 | 22.9 | 28.1 | 626 | 48.0 | 45.0 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 18.7 | 6.6 | 25.3 | 21.7 | 4.8 | 26.5 | 40.5 | 11.4 | 51.9 | 5,023 | 51.1 | 48.8 |
| Greater Monrovia | 17.3 | 7.2 | 24.5 | 22.4 | 4.1 | 26.5 | 39.7 | 11.3 | 51.0 | 2,866 | 52.0 | 49.5 |
| Other urban | 20.7 | 5.8 | 26.5 | 20.8 | 5.7 | 26.5 | 41.5 | 11.5 | 53.0 | 2,157 | 50.0 | 47.9 |
| Rural | 19.2 | 9.8 | 29.1 | 17.9 | 7.9 | 25.8 | 37.2 | 17.7 | 54.9 | 3,042 | 47.0 | 46.2 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 17.7 | 10.5 | 28.2 | 17.4 | 10.8 | 28.2 | 35.1 | 21.3 | 56.4 | 621 | 50.0 | 49.1 |
| South Central | 18.0 | 8.1 | 26.1 | 20.5 | 4.5 | 25.0 | 38.5 | 12.6 | 51.1 | 4,105 | 48.9 | 46.8 |
| South Eastern A | 16.8 | 4.9 | 21.7 | 29.5 | 7.4 | 36.9 | 46.2 | 12.3 | 58.5 | 458 | 62.9 | 62.1 |
| South Eastern B | 13.6 | 4.6 | 18.2 | 35.7 | 11.1 | 46.8 | 49.3 | 15.7 | 65.0 | 441 | 72.0 | 71.2 |
| North Central | 22.2 | 7.8 | 29.9 | 16.2 | 6.0 | 22.1 | 38.3 | 13.7 | 52.0 | 2,439 | 42.5 | 40.6 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 15.4 | 9.8 | 25.1 | 19.0 | 13.4 | 32.4 | 34.3 | 23.2 | 57.5 | 249 | 56.3 | 55.2 |
| Bong | 20.8 | 7.0 | 27.8 | 20.2 | 5.5 | 25.7 | 40.9 | 12.6 | 53.5 | 796 | 48.0 | 46.5 |
| Gbarpolu | 19.6 | 11.0 | 30.6 | 16.3 | 10.0 | 26.3 | 35.8 | 21.0 | 56.9 | 112 | 46.3 | 46.0 |
| Grand Bassa | 17.5 | 11.1 | 28.6 | 16.7 | 6.7 | 23.4 | 34.1 | 17.8 | 51.9 | 467 | 45.0 | 44.2 |
| Grand Cape Mount | 19.2 | 11.0 | 30.2 | 16.3 | 8.7 | 25.0 | 35.5 | 19.7 | 55.1 | 260 | 45.3 | 44.3 |
| Grand Gedeh | 16.4 | 3.3 | 19.7 | 34.9 | 4.4 | 39.3 | 51.3 | 7.7 | 59.0 | 172 | 66.6 | 65.5 |
| Grand Kru | 14.2 | 4.3 | 18.5 | 33.4 | 9.7 | 43.1 | 47.6 | 14.0 | 61.6 | 136 | 70.0 | 69.3 |
| Lofa | 20.2 | 5.6 | 25.8 | 13.3 | 7.1 | 20.4 | 33.6 | 12.6 | 46.2 | 658 | 44.1 | 41.5 |
| Margibi | 23.2 | 9.8 | 33.0 | 12.6 | 4.7 | 17.3 | 35.8 | 14.5 | 50.3 | 441 | 34.4 | 32.8 |
| Maryland | 14.4 | 4.7 | 19.1 | 36.6 | 12.5 | 49.2 | 51.0 | 17.2 | 68.3 | 215 | 72.0 | 71.2 |
| Montserrado | 17.4 | 7.4 | 24.8 | 22.1 | 4.2 | 26.3 | 39.5 | 11.6 | 51.1 | 3,197 | 51.5 | 49.1 |
| Nimba | 24.6 | 9.8 | 34.4 | 14.8 | 5.6 | 20.4 | 39.4 | 15.4 | 54.8 | 985 | 37.2 | 35.4 |
| River Cess | 15.4 | 8.9 | 24.3 | 20.4 | 14.2 | 34.6 | 35.9 | 23.0 | 58.9 | 104 | 58.7 | 57.0 |
| River Gee | 10.9 | 4.8 | 15.7 | 37.0 | 9.7 | 46.7 | 47.8 | 14.5 | 62.3 | 91 | 74.9 | 74.1 |
| Sinoe | 17.8 | 4.3 | 22.1 | 29.5 | 6.4 | 35.9 | 47.3 | 10.7 | 58.0 | 182 | 61.9 | 61.9 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 13.9 | 12.4 | 26.4 | 12.2 | 8.3 | 20.5 | 26.2 | 20.7 | 46.9 | 2,474 | 43.7 | 42.6 |
| Elementary | 22.0 | 7.4 | 29.4 | 18.8 | 5.7 | 24.6 | 40.8 | 13.1 | 54.0 | 1,911 | 45.5 | 44.7 |
| Junior high | 23.6 | 5.1 | 28.7 | 22.8 | 6.5 | 29.3 | 46.4 | 11.7 | 58.0 | 1,445 | 50.6 | 48.4 |
| Senior high | 20.5 | 5.0 | 25.5 | 29.8 | 2.7 | 32.5 | 50.3 | 7.7 | 58.0 | 1,761 | 56.1 | 53.5 |
| Higher | 12.7 | 4.1 | 16.8 | 25.4 | 5.0 | 30.4 | 38.1 | 9.1 | 47.2 | 474 | 64.4 | 59.5 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 20.9 | 9.9 | 30.8 | 15.0 | 8.2 | 23.2 | 35.9 | 18.2 | 54.0 | 1,379 | 43.0 | 41.3 |
| Second | 18.3 | 11.0 | 29.4 | 18.4 | 7.7 | 26.1 | 36.7 | 18.7 | 55.5 | 1,431 | 47.0 | 45.5 |
| Middle | 20.2 | 6.6 | 26.9 | 20.4 | 7.2 | 27.7 | 40.7 | 13.9 | 54.5 | 1,517 | 50.7 | 49.6 |
| Fourth | 19.6 | 7.0 | 26.6 | 25.2 | 3.8 | 29.1 | 44.8 | 10.9 | 55.7 | 1,829 | 52.2 | 50.0 |
| Highest | 16.3 | 5.5 | 21.8 | 20.7 | 4.1 | 24.7 | 37.0 | 9.6 | 46.6 | 1,910 | 53.1 | 50.9 |
| Total | 18.9 | 7.8 | 26.7 | 20.3 | 6.0 | 26.2 | 39.2 | 13.8 | 53.0 | 8,065 | 49.5 | 47.8 |

Continued..

| Table 7.12.2—Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Unmet need for family planning |  |  | Met need for family planning (currently using) |  |  | Total demand for family planning ${ }^{1}$ |  |  | Number of women | Percentage of demand satisfied ${ }^{2}$ | Percentage of demand satisfied by modern methods ${ }^{3}$ |
|  | For spacing | For limiting | Total | For spacing | For limiting | Total | For spacing | For limiting | Total |  |  |  |
| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 48.2 | 0.3 | 48.5 | 42.7 | 0.5 | 43.3 | 90.9 | 0.8 | 91.8 | 400 | 47.2 | 46.1 |
| 20-24 | 39.9 | 0.5 | 40.4 | 49.6 | 1.1 | 50.7 | 89.5 | 1.6 | 91.1 | 434 | 55.6 | 54.5 |
| 25-29 | 23.0 | 6.0 | 28.9 | 45.0 | 4.7 | 49.8 | 68.0 | 10.7 | 78.7 | 269 | 63.2 | 61.6 |
| 30-34 | 19.6 | 8.7 | 28.3 | 38.2 | 5.6 | 43.8 | 57.8 | 14.3 | 72.1 | 124 | 60.8 | 59.2 |
| 35-39 | 15.6 | 5.6 | 21.3 | 38.8 | 13.4 | 52.2 | 54.5 | 19.0 | 73.5 | 76 | 71.0 | 66.2 |
| 40-44 | (11.0) | (20.3) | (31.4) | (13.1) | (13.4) | (26.5) | (24.2) | (33.7) | (57.8) | 64 | (45.8) | (45.8) |
| 45-49 | (12.0) | (33.6) | (45.6) | (3.9) | (17.6) | (21.5) | (15.9) | (51.2) | (67.1) | 34 | (32.0) | (30.1) |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 33.6 | 4.1 | 37.7 | 43.2 | 3.2 | 46.4 | 76.8 | 7.3 | 84.1 | 1,037 | 55.2 | 53.6 |
| Greater Monrovia | 31.9 | 5.3 | 37.2 | 43.0 | 2.4 | 45.4 | 74.9 | 7.7 | 82.6 | 695 | 55.0 | 53.6 |
| Other urban | 37.2 | 1.5 | 38.7 | 43.5 | 4.9 | 48.4 | 80.7 | 6.4 | 87.1 | 342 | 55.5 | 53.6 |
| Rural | 34.6 | 4.6 | 39.3 | 40.1 | 4.9 | 45.0 | 74.8 | 9.5 | 84.3 | 364 | 53.4 | 52.5 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 30.8 | 4.2 | 35.0 | 45.5 | 7.9 | 53.4 | 76.2 | 12.2 | 88.4 | 67 | 60.4 | 59.7 |
| South Central | 33.0 | 5.2 | 38.2 | 41.5 | 2.9 | 44.5 | 74.5 | 8.1 | 82.6 | 872 | 53.8 | 52.5 |
| South Eastern A | 30.6 | 3.4 | 33.9 | 48.5 | 3.9 | 52.5 | 79.1 | 7.3 | 86.4 | 72 | 60.7 | 60.6 |
| South Eastern B | 22.2 | 1.9 | 24.1 | 60.5 | 5.0 | 65.5 | 82.7 | 6.9 | 89.6 | 91 | 73.1 | 71.3 |
| North Central | 41.6 | 2.4 | 43.9 | 37.3 | 4.3 | 41.6 | 78.8 | 6.7 | 85.5 | 300 | 48.6 | 46.8 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 21.2 | 7.3 | 28.5 | 49.4 | 17.7 | 67.0 | 70.5 | 25.0 | 95.5 | 28 | 70.2 | 69.6 |
| Bong | 35.4 | 1.8 | 37.2 | 43.2 | 6.9 | 50.1 | 78.6 | 8.7 | 87.3 | 110 | 57.3 | 57.3 |
| Gbarpolu | (42.2) | (4.1) | (46.3) | (27.5) | (3.1) | (30.6) | (69.7) | (7.2) | (76.9) | 13 | (39.7) | (39.7) |
| Grand Bassa | 32.0 | 2.9 | 34.9 | 35.9 | 6.1 | 42.0 | 67.8 | 9.0 | 76.9 | 62 | 54.6 | 52.6 |
| Grand Cape Mount | 35.2 | 1.0 | 36.1 | 50.5 | 0.0 | 50.5 | 85.7 | 1.0 | 86.6 | 26 | 58.3 | 57.1 |
| Grand Gedeh | (22.4) | (4.3) | (26.7) | (58.2) | (1.9) | (60.1) | (80.5) | (6.3) | (86.8) | 25 | (69.2) | (69.2) |
| Grand Kru | 19.4 | 4.8 | 24.3 | 56.5 | 2.7 | 59.2 | 75.9 | 7.5 | 83.4 | 30 | 70.9 | 69.8 |
| Lofa | 53.4 | 0.9 | 54.3 | 32.2 | 4.5 | 36.7 | 85.7 | 5.4 | 91.1 | 83 | 40.3 | 36.6 |
| Margibi | 39.2 | 4.9 | 44.1 | 32.4 | 3.7 | 36.1 | 71.6 | 8.6 | 80.2 | 63 | 45.0 | 43.6 |
| Maryland | 27.5 | 0.8 | 28.2 | 56.9 | 8.1 | 65.0 | 84.3 | 8.9 | 93.2 | 44 | 69.7 | 68.1 |
| Montserrado | 32.6 | 5.4 | 37.9 | 42.7 | 2.6 | 45.4 | 75.3 | 8.0 | 83.3 | 747 | 54.5 | 53.2 |
| Nimba | 38.6 | 4.1 | 42.7 | 35.1 | 1.5 | 36.6 | 73.7 | 5.5 | 79.3 | 107 | 46.2 | 43.9 |
| River Cess | 29.7 | 5.6 | 35.3 | 42.8 | 11.3 | 54.1 | 72.5 | 17.0 | 89.4 | 17 | 60.5 | 59.8 |
| River Gee | 13.1 | 0.0 | 13.1 | 76.9 | 0.6 | 77.5 | 90.1 | 0.6 | 90.7 | 17 | 85.5 | 82.4 |
| Sinoe | 37.8 | 1.3 | 39.1 | 43.8 | 1.5 | 45.3 | 81.6 | 2.8 | 84.4 | 30 | 53.7 | 53.7 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 30.0 | 6.9 | 36.9 | 22.6 | 10.4 | 33.0 | 52.6 | 17.3 | 69.9 | 183 | 47.2 | 46.1 |
| Elementary | 35.9 | 4.9 | 40.8 | 43.1 | 4.8 | 47.9 | 79.0 | 9.7 | 88.7 | 283 | 54.0 | 53.2 |
| Junior high | 40.3 | 2.3 | 42.6 | 43.9 | 2.1 | 45.9 | 84.2 | 4.4 | 88.6 | 349 | 51.9 | 50.0 |
| Senior high | 30.4 | 4.2 | 34.6 | 47.5 | 2.4 | 49.9 | 77.9 | 6.6 | 84.5 | 476 | 59.1 | 58.0 |
| Higher | 30.0 | 4.2 | 34.2 | 46.4 | 0.0 | 46.4 | 76.4 | 4.2 | 80.6 | 111 | 57.6 | 54.8 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 36.1 | 4.8 | 40.9 | 32.0 | 5.4 | 37.4 | 68.1 | 10.2 | 78.3 | 135 | 47.8 | 45.3 |
| Second | 36.6 | 4.6 | 41.2 | 38.7 | 4.7 | 43.4 | 75.3 | 9.3 | 84.6 | 180 | 51.3 | 50.7 |
| Middle | 28.1 | 4.0 | 32.2 | 51.5 | 6.1 | 57.6 | 79.7 | 10.1 | 89.8 | 242 | 64.2 | 62.7 |
| Fourth | 35.5 | 4.0 | 39.4 | 41.0 | 3.1 | 44.0 | 76.4 | 7.0 | 83.4 | 430 | 52.8 | 51.5 |
| Highest | 33.7 | 4.3 | 38.0 | 43.5 | 1.8 | 45.4 | 77.3 | 6.1 | 83.4 | 414 | 54.4 | 52.9 |
| Total | 33.9 | 4.2 | 38.1 | 42.4 | 3.7 | 46.0 | 76.3 | 7.9 | 84.2 | 1,402 | 54.7 | 53.3 |

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.
${ }^{1}$ 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 sterilization, male sterilization, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and other modern methods.
${ }^{4}$ Women who have had sexual intercourse within 30 days preceding the survey

Table 7.13 Decision making about family planning
Among currently married women age 15-49 who are current users of family planning, percent distribution by who makes the decision to use family planning, and among currently married women who are not currently using family planning, percent distribution by who makes the decision not to use family planning, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among currently married women who are current users of family planning |  |  |  | Total | Number of women | Among currently married women who are not currently using family planning |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | $\begin{gathered} \text { Other/ } \\ \text { don't } \\ \text { know/ } \\ \text { missing } \\ \hline \end{gathered}$ |  |  | Mainly wife | Wife and husband jointly | Mainly husband | Other/ don't know/ missing |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | (44.9) | (35.5) | (19.7) | (0.0) | (100.0) | 19 | 54.4 | 27.1 | 16.4 | 2.1 | 100.0 | 140 |
| 20-24 | 42.6 | 39.6 | 17.6 | 0.2 | 100.0 | 177 | 50.5 | 30.9 | 17.4 | 1.2 | 100.0 | 367 |
| 25-29 | 40.9 | 49.4 | 9.2 | 0.5 | 100.0 | 242 | 47.5 | 35.0 | 16.8 | 0.6 | 100.0 | 449 |
| 30-34 | 41.9 | 44.6 | 13.5 | 0.0 | 100.0 | 233 | 51.6 | 29.4 | 18.2 | 0.8 | 100.0 | 498 |
| 35-39 | 31.5 | 57.0 | 11.2 | 0.3 | 100.0 | 193 | 56.9 | 29.8 | 11.4 | 1.9 | 100.0 | 534 |
| 40-44 | 31.2 | 51.8 | 16.2 | 0.8 | 100.0 | 123 | 52.9 | 28.1 | 17.2 | 1.9 | 100.0 | 402 |
| 45-49 | 32.8 | 53.2 | 11.1 | 2.8 | 100.0 | 65 | 48.7 | 33.3 | 13.4 | 4.7 | 100.0 | 383 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | (48.9) | (16.1) | (34.9) | (0.0) | (100.0) | 31 | 51.3 | 31.0 | 13.7 | 4.0 | 100.0 | 166 |
| 1-2 | 47.6 | 42.5 | 9.8 | 0.1 | 100.0 | 376 | 56.0 | 27.8 | 15.3 | 0.8 | 100.0 | 961 |
| 3-4 | 34.9 | 49.6 | 14.7 | 0.8 | 100.0 | 340 | 50.8 | 33.2 | 14.4 | 1.7 | 100.0 | 904 |
| $5+$ | 28.8 | 57.5 | 13.1 | 0.6 | 100.0 | 304 | 47.5 | 31.8 | 18.1 | 2.6 | 100.0 | 744 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 40.7 | 45.0 | 14.2 | 0.1 | 100.0 | 542 | 52.4 | 30.5 | 16.4 | 0.8 | 100.0 | 1,520 |
| Greater Monrovia | 42.1 | 41.1 | 16.8 | 0.0 | 100.0 | 261 | 55.0 | 28.4 | 15.7 | 0.9 | 100.0 | 790 |
| Other urban | 39.4 | 48.6 | 11.8 | 0.1 | 100.0 | 281 | 49.6 | 32.8 | 17.1 | 0.6 | 100.0 | 730 |
| Rural | 35.3 | 51.9 | 11.9 | 0.9 | 100.0 | 509 | 51.0 | 31.2 | 14.8 | 3.0 | 100.0 | 1,254 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 35.1 | 49.2 | 15.2 | 0.4 | 100.0 | 108 | 53.5 | 25.0 | 16.9 | 4.6 | 100.0 | 254 |
| South Central | 38.8 | 45.3 | 15.5 | 0.3 | 100.0 | 400 | 51.2 | 33.8 | 13.9 | 1.1 | 100.0 | 1,245 |
| South Eastern A | 32.0 | 64.0 | 3.9 | 0.1 | 100.0 | 111 | 46.8 | 45.9 | 5.1 | 2.2 | 100.0 | 158 |
| South Eastern B | 41.6 | 38.5 | 19.3 | 0.6 | 100.0 | 110 | 54.1 | 28.7 | 13.2 | 4.0 | 100.0 | 116 |
| North Central | 39.1 | 49.8 | 10.4 | 0.8 | 100.0 | 323 | 52.4 | 26.4 | 19.5 | 1.6 | 100.0 | 1,001 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 36.3 | 52.1 | 10.6 | 1.0 | 100.0 | 46 | 55.6 | 23.9 | 16.8 | 3.8 | 100.0 | 92 |
| Bong | 52.5 | 37.6 | 8.3 | 1.6 | 100.0 | 100 | 58.4 | 23.5 | 13.6 | 4.6 | 100.0 | 273 |
| Gbarpolu | 25.2 | 62.8 | 12.0 | 0.0 | 100.0 | 21 | 50.0 | 31.1 | 13.7 | 5.2 | 100.0 | 50 |
| Grand Bassa | 23.0 | 67.9 | 7.0 | 2.1 | 100.0 | 60 | 40.4 | 49.3 | 8.1 | 2.2 | 100.0 | 167 |
| Grand Cape Mount | 38.9 | 39.0 | 22.1 | 0.0 | 100.0 | 41 | 53.4 | 23.2 | 18.4 | 5.0 | 100.0 | 112 |
| Grand Gedeh | 34.3 | 61.0 | 4.4 | 0.4 | 100.0 | 44 | 40.9 | 48.5 | 7.5 | 3.1 | 100.0 | 62 |
| Grand Kru | 56.9 | 27.3 | 15.8 | 0.0 | 100.0 | 34 | 63.5 | 14.4 | 19.0 | 3.0 | 100.0 | 34 |
| Lofa | 44.0 | 45.7 | 10.3 | 0.0 | 100.0 | 86 | 47.8 | 30.1 | 22.1 | 0.0 | 100.0 | 265 |
| Margibi | 41.6 | 35.2 | 23.3 | 0.0 | 100.0 | 42 | 41.2 | 45.1 | 12.7 | 1.0 | 100.0 | 174 |
| Maryland | 30.9 | 42.6 | 26.0 | 0.5 | 100.0 | 54 | 47.4 | 33.4 | 13.7 | 5.5 | 100.0 | 55 |
| Montserrado | 41.6 | 42.2 | 16.1 | 0.0 | 100.0 | 297 | 55.2 | 28.8 | 15.1 | 0.9 | 100.0 | 903 |
| Nimba | 26.2 | 61.3 | 11.9 | 0.7 | 100.0 | 136 | 51.6 | 26.1 | 21.6 | 0.7 | 100.0 | 463 |
| River Cess | 25.2 | 70.7 | 4.1 | 0.0 | 100.0 | 23 | 64.1 | 27.2 | 8.1 | 0.6 | 100.0 | 33 |
| River Gee | 44.6 | 45.3 | 8.4 | 1.7 | 100.0 | 23 | 55.7 | 37.4 | 4.8 | 2.1 | 100.0 | 27 |
| Sinoe | 33.2 | 63.4 | 3.4 | 0.0 | 100.0 | 44 | 43.5 | 53.3 | 0.9 | 2.2 | 100.0 | 62 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 37.9 | 46.9 | 14.0 | 1.2 | 100.0 | 379 | 47.5 | 30.7 | 18.8 | 3.0 | 100.0 | 1,311 |
| Elementary | 32.5 | 55.9 | 11.5 | 0.1 | 100.0 | 234 | 53.0 | 31.2 | 14.2 | 1.6 | 100.0 | 577 |
| Junior high | 33.4 | 49.8 | 16.7 | 0.2 | 100.0 | 193 | 52.8 | 32.7 | 14.5 | 0.1 | 100.0 | 318 |
| Senior high | 48.6 | 41.2 | 10.2 | 0.0 | 100.0 | 195 | 60.8 | 30.6 | 8.4 | 0.2 | 100.0 | 446 |
| Higher | (43.3) | (46.4) | (10.2) | (0.0) | (100.0) | 50 | 55.7 | 26.4 | 17.9 | 0.0 | 100.0 | 123 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 34.7 | 48.4 | 15.1 | 1.8 | 100.0 | 225 | 49.2 | 31.8 | 16.2 | 2.8 | 100.0 | 602 |
| Second | 36.6 | 53.0 | 10.2 | 0.3 | 100.0 | 239 | 51.3 | 31.8 | 14.5 | 2.4 | 100.0 | 578 |
| Middle | 41.8 | 50.1 | 8.1 | 0.0 | 100.0 | 193 | 51.2 | 28.7 | 18.7 | 1.4 | 100.0 | 532 |
| Fourth | 38.4 | 43.6 | 17.8 | 0.1 | 100.0 | 241 | 50.5 | 31.8 | 15.8 | 1.9 | 100.0 | 484 |
| Highest | 40.2 | 46.4 | 13.4 | 0.0 | 100.0 | 155 | 56.3 | 29.9 | 13.5 | 0.3 | 100.0 | 578 |
| Total | 38.1 | 48.4 | 13.1 | 0.5 | 100.0 | 1,052 | 51.7 | 30.8 | 15.7 | 1.8 | 100.0 | 2,774 |

Note: Table excludes women who are currently pregnant. Figures in parentheses are based on 25-49 unweighted cases.

Table 7.14 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, Liberia DHS 2019-20

| Intention to use | Number of living children ${ }^{1}$ |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| in the future | 0 | 1 | 2 | 3 | $4+$ | Total |
| Intends to use | 21.7 | 39.0 | 39.0 | 36.3 | 38.7 | 37.5 |
| Unsure | 3.1 | 3.7 | 7.2 | 3.9 | 6.6 | 5.6 |
| Does not intend to use | 75.2 | 57.3 | 53.8 | 59.9 | 54.7 | 57.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 166 | 493 | 611 | 581 | 1,313 | 3,164 |

${ }^{1}$ Includes current pregnancy

Table 7.15 Exposure to family planning messages
Percentage of women and men age 15-49 who heard or saw a family planning message on radio, on television, in a newspaper or magazine, or on a mobile phone in the past few months, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Women |  |  |  |  |  | Men |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Radio | Television | Newspaper/ magazine | Mobile phone | None of these four media sources | Number of women | Radio | Television | Newspaper/ magazine | Mobile phone | None of these four media sources | Number of men |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 23.9 | 1.6 | 2.0 | 2.2 | 73.8 | 1,657 | 22.5 | 2.1 | 4.5 | 2.2 | 74.8 | 876 |
| 20-24 | 31.4 | 1.8 | 2.2 | 4.9 | 66.4 | 1,506 | 40.2 | 7.0 | 9.7 | 9.2 | 51.3 | 658 |
| 25-29 | 33.8 | 1.4 | 0.9 | 2.7 | 65.2 | 1,375 | 52.8 | 11.7 | 13.8 | 7.0 | 40.9 | 558 |
| 30-34 | 31.6 | 2.0 | 2.3 | 3.9 | 67.3 | 1,112 | 44.1 | 8.7 | 10.6 | 10.7 | 49.5 | 494 |
| 35-39 | 37.1 | 2.8 | 1.7 | 3.7 | 62.5 | 1,020 | 57.2 | 6.2 | 12.9 | 11.9 | 38.5 | 487 |
| 40-44 | 36.3 | 3.3 | 1.7 | 4.0 | 63.4 | 769 | 56.8 | 7.7 | 12.2 | 9.6 | 39.5 | 418 |
| 45-49 | 31.4 | 2.4 | 1.3 | 4.6 | 67.1 | 626 | 55.2 | 5.3 | 17.5 | 11.5 | 38.6 | 330 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 31.8 | 2.6 | 2.3 | 5.1 | 66.3 | 5,023 | 44.0 | 9.4 | 14.3 | 9.9 | 49.1 | 2,313 |
| Greater Monrovia | 29.4 | 3.0 | 2.2 | 5.9 | 68.3 | 2,866 | 44.6 | 13.6 | 16.7 | 10.9 | 46.6 | 1,368 |
| Other urban | 35.0 | 2.2 | 2.4 | 4.0 | 63.5 | 2,157 | 43.1 | 3.2 | 10.9 | 8.4 | 52.7 | 944 |
| Rural | 30.9 | 1.0 | 0.9 | 1.1 | 68.5 | 3,042 | 43.4 | 2.4 | 4.9 | 5.3 | 53.7 | 1,508 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 38.1 | 1.4 | 0.5 | 2.4 | 60.6 | 621 | 35.1 | 0.6 | 1.4 | 2.2 | 63.9 | 301 |
| South Central | 28.2 | 2.6 | 2.0 | 4.4 | 70.0 | 4,105 | 47.3 | 10.9 | 15.8 | 11.0 | 45.1 | 1,932 |
| South Eastern A | 32.2 | 1.6 | 1.4 | 2.9 | 66.9 | 458 | 43.1 | 2.9 | 6.9 | 6.0 | 54.1 | 254 |
| South Eastern B | 33.7 | 1.7 | 1.0 | 5.2 | 64.6 | 441 | 31.8 | 2.8 | 2.6 | 4.2 | 64.9 | 226 |
| North Central | 34.8 | 1.4 | 2.0 | 2.4 | 64.4 | 2,439 | 42.6 | 2.3 | 6.5 | 5.7 | 54.0 | 1,107 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 39.3 | 2.2 | 0.7 | 1.6 | 58.7 | 249 | 43.3 | 0.6 | 1.8 | 4.2 | 55.1 | 118 |
| Bong | 42.5 | 2.8 | 4.7 | 3.0 | 56.7 | 796 | 42.8 | 1.3 | 1.2 | 6.9 | 55.8 | 324 |
| Gbarpolu | 50.7 | 0.5 | 0.7 | 0.1 | 48.4 | 112 | 53.7 | 0.0 | 2.6 | 1.0 | 46.0 | 53 |
| Grand Bassa | 35.5 | 1.6 | 0.3 | 1.6 | 63.9 | 467 | 63.2 | 3.6 | 11.7 | 9.9 | 33.4 | 197 |
| Grand Cape Mount | 31.5 | 1.0 | 0.3 | 4.2 | 67.6 | 260 | 20.1 | 0.9 | 0.6 | 0.9 | 79.1 | 130 |
| Grand Gedeh | 40.4 | 2.0 | 2.2 | 4.4 | 58.9 | 172 | 47.4 | 3.8 | 4.8 | 6.3 | 52.1 | 92 |
| Grand Kru | 14.1 | 0.0 | 0.3 | 0.5 | 85.8 | 136 | 32.1 | 6.5 | 5.8 | 4.3 | 62.3 | 67 |
| Lofa | 27.0 | 0.5 | 0.3 | 1.5 | 71.8 | 658 | 34.5 | 4.4 | 10.0 | 6.3 | 56.7 | 287 |
| Margibi | 21.9 | 2.2 | 2.7 | 0.5 | 77.3 | 441 | 49.3 | 4.6 | 14.6 | 11.3 | 44.1 | 209 |
| Maryland | 43.2 | 2.8 | 1.1 | 9.6 | 53.8 | 215 | 29.8 | 0.9 | 1.0 | 2.8 | 68.2 | 110 |
| Montserrado | 28.1 | 2.7 | 2.1 | 5.3 | 69.9 | 3,197 | 44.9 | 12.7 | 16.5 | 11.2 | 46.7 | 1,525 |
| Nimba | 33.7 | 0.9 | 0.9 | 2.5 | 65.6 | 985 | 47.2 | 1.8 | 7.9 | 4.6 | 51.3 | 496 |
| River Cess | 25.9 | 0.9 | 0.5 | 1.4 | 73.4 | 104 | 33.7 | 3.9 | 8.2 | 5.7 | 64.2 | 52 |
| River Gee | 40.3 | 1.7 | 1.7 | 2.0 | 58.6 | 91 | 35.8 | 1.9 | 1.8 | 7.2 | 61.3 | 50 |
| Sinoe | 28.1 | 1.7 | 1.0 | 2.3 | 70.6 | 182 | 43.8 | 1.7 | 8.0 | 6.0 | 51.0 | 110 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 26.9 | 1.2 | 0.1 | 1.4 | 72.7 | 2,474 | 37.0 | 3.4 | 1.1 | 2.0 | 62.7 | 498 |
| Elementary | 31.2 | 1.7 | 0.8 | 1.5 | 68.1 | 1,911 | 33.8 | 2.7 | 1.1 | 1.9 | 63.8 | 877 |
| Junior high | 31.9 | 1.6 | 1.8 | 3.2 | 67.2 | 1,445 | 43.7 | 3.8 | 9.4 | 5.1 | 51.4 | 738 |
| Senior high | 35.7 | 3.3 | 3.8 | 7.1 | 61.2 | 1,761 | 48.7 | 10.5 | 15.4 | 13.9 | 43.7 | 1,303 |
| Higher | 40.0 | 4.3 | 6.8 | 11.6 | 55.8 | 474 | 57.8 | 11.5 | 29.5 | 15.5 | 30.7 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 29.1 | 0.6 | 0.4 | 0.8 | 70.6 | 1,379 | 40.3 | 0.9 | 2.9 | 2.0 | 58.5 | 657 |
| Second | 31.1 | 0.6 | 0.6 | 1.8 | 68.0 | 1,431 | 44.2 | 3.2 | 5.5 | 5.0 | 52.2 | 663 |
| Middle | 32.2 | 1.5 | 1.7 | 2.7 | 66.9 | 1,517 | 44.2 | 4.8 | 9.3 | 6.9 | 50.6 | 743 |
| Fourth | 30.8 | 3.0 | 2.4 | 3.2 | 67.3 | 1,829 | 46.1 | 9.7 | 15.6 | 8.3 | 48.0 | 838 |
| Highest | 33.6 | 3.6 | 3.2 | 8.1 | 63.8 | 1,910 | 43.4 | 11.8 | 16.2 | 15.3 | 47.5 | 920 |
| Total 15-49 | 31.5 | 2.0 | 1.8 | 3.6 | 67.1 | 8,065 | 43.8 | 6.6 | 10.6 | 8.1 | 50.9 | 3,821 |
| 50-59 | na | na | na | na | na | na | 53.4 | 8.5 | 10.4 | 9.4 | 42.8 | 428 |
| Total 15-59 | na | na | na | na | na | na | 44.7 | 6.8 | 10.6 | 8.2 | 50.1 | 4,249 |

na $=$ Not applicable

| Table 7.16 Contact of nonusers with family planning providers |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Among women age 15-49 who are not using contraception, percentage who during the past 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, Liberia DHS 2019-20 |  |  |  |  |  |
| Background characteristic | Percentage of women who were visited by a | Percentage of wo health facility in th and | men who visited a past 12 months ho: | Percentage of women who did not discuss family planning either with a |  |
|  | discussed family planning | Discussed family planning | Did not discuss family planning | fieldworker or at a health facility | Number of women |
| Age |  |  |  |  |  |
| 15-19 | 3.7 | 18.7 | 21.0 | 79.3 | 1,349 |
| 20-24 | 7.4 | 36.0 | 24.9 | 60.7 | 978 |
| 25-29 | 6.8 | 36.8 | 24.8 | 60.8 | 911 |
| 30-34 | 5.2 | 39.0 | 26.5 | 58.6 | 790 |
| 35-39 | 11.2 | 37.8 | 23.9 | 58.9 | 760 |
| 40-44 | 10.5 | 34.6 | 21.1 | 61.6 | 618 |
| 45-49 | 6.3 | 28.1 | 17.2 | 69.4 | 542 |
| Residence |  |  |  |  |  |
| Urban | 5.4 | 27.3 | 25.1 | 70.2 | 3,691 |
| Greater Monrovia | 3.5 | 22.0 | 27.9 | 76.0 | 2,106 |
| Other urban | 7.9 | 34.4 | 21.5 | 62.7 | 1,585 |
| Rural | 9.3 | 39.7 | 19.5 | 57.2 | 2,257 |
| Region |  |  |  |  |  |
| North Western | 10.6 | 40.1 | 21.3 | 57.2 | 446 |
| South Central | 3.8 | 24.0 | 26.1 | 74.2 | 3,078 |
| South Eastern A | 13.8 | 41.3 | 18.3 | 52.7 | 289 |
| South Eastern B | 14.0 | 53.0 | 15.2 | 43.6 | 235 |
| North Central | 9.1 | 39.0 | 20.0 | 57.4 | 1,899 |
| County |  |  |  |  |  |
| Bomi | 4.1 | 31.3 | 17.9 | 67.3 | 168 |
| Bong | 4.4 | 42.3 | 22.9 | 56.3 | 592 |
| Gbarpolu | 21.5 | 46.1 | 13.8 | 49.5 | 82 |
| Grand Bassa | 3.9 | 39.7 | 24.5 | 58.5 | 358 |
| Grand Cape Mount | 11.6 | 45.2 | 27.3 | 51.8 | 195 |
| Grand Gedeh | 25.9 | 39.0 | 19.2 | 48.6 | 105 |
| Grand Kru | 5.8 | 40.0 | 13.2 | 56.8 | 77 |
| Lofa | 8.0 | 43.4 | 19.5 | 54.0 | 524 |
| Margibi | 5.7 | 21.5 | 19.9 | 77.2 | 365 |
| Maryland | 19.2 | 59.8 | 19.4 | 37.0 | 109 |
| Montserrado | 3.4 | 22.0 | 27.3 | 76.1 | 2,356 |
| Nimba | 13.5 | 33.6 | 18.2 | 60.6 | 784 |
| River Cess | 10.2 | 42.5 | 12.5 | 53.4 | 68 |
| River Gee | 15.1 | 58.2 | 9.0 | 37.4 | 49 |
| Sinoe | 5.2 | 42.7 | 20.9 | 56.0 | 117 |
| Education |  |  |  |  |  |
| No education | 8.2 | 33.6 | 20.6 | 63.3 | 1,967 |
| Elementary | 8.5 | 35.7 | 20.2 | 61.2 | 1,441 |
| Junior high | 5.1 | 31.1 | 20.4 | 66.6 | 1,021 |
| Senior high | 5.6 | 28.0 | 25.5 | 69.3 | 1,189 |
| Higher | 2.3 | 22.9 | 48.4 | 76.5 | 330 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 9.1 | 40.7 | 20.3 | 56.6 | 1,059 |
| Second | 10.3 | 37.3 | 21.2 | 58.4 | 1,058 |
| Middle | 8.4 | 36.0 | 16.7 | 61.0 | 1,097 |
| Fourth | 4.7 | 28.3 | 23.7 | 69.4 | 1,298 |
| Highest | 3.6 | 21.8 | 30.4 | 76.3 | 1,437 |
| Total | 6.9 | 32.0 | 23.0 | 65.3 | 5,948 |

## Key Findings

- Current levels: Over the 5 years prior to the 2019-20

LDHS, infant, child, and under-5 mortality rates were 63, 33 , and 93 deaths per 1,000 live births, respectively.

- Trends: Child mortality has declined since the 2013 LDHS. However, under-5 mortality has remained relatively stagnant, and infant mortality has increased.
- High-risk fertility patterns: Fifty-four percent of births in the 5 years preceding the survey were classified as being in an avoidable risk category. Nineteen percent of births fell into a multiple high-risk category, and 35\% fell into a single high-risk category. Twenty-nine percent of births were not in any high-risk category.

Information on infant and child mortality is relevant to a demographic assessment of a country's population and is an important indicator of the country's socioeconomic development and 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 behaviors that increase mortality risks for infants and children. The information was collected as part of a retrospective birth history in which female respondents listed all of the children to whom they had 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 birth 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. In addition to accidental misreporting by mothers in their birth histories, potential data quality problems include:

- The selective omission from birth histories of those births that did not survive, which can result in underestimation of childhood mortality.
- The displacement of birth dates, which may 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 may happen if an interviewer is trying to cut down on his or her overall workload, because live births occurring during the 5 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 (e.g., 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.3-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.

The 2019 LDHS results (Table 8.1) show that the under-5 mortality rate was 93 deaths per 1,000 live births in the 5 years preceding the survey, while child mortality was 33 deaths per 1,000 live births and infant mortality was 63 deaths per 1,000 live births. The neonatal mortality rate was 37 deaths per 1,000 live births, and the postneonatal mortality rate was 25 deaths per 1,000 .

Trends: While there were substantial reductions in child and infant mortality rates between 1986 and 2007, progress has since somewhat stalled. Infant mortality increased from 54 deaths per 1,000 live births in 2013 to 63 deaths per 1,000 live births in 2019-20. Over the same period, child mortality decreased from 42 to 33 deaths per 1,000 live births, while under- 5 mortality remained is generally unchanged (94 and 93 deaths per 1,000 live births, respectively) (Figure 8.1).

Patterns by background characteristics

- Infant and under-5 mortality rates are higher among boys than among girls, while child mortality rates

Figure 8.1 Trends in early childhood mortality rates

Deaths per 1,000 live births in the 5-year period before the survey
 are slightly lower among boys (Table 8.2). Neonatal mortality is higher among boys ( 45 deaths per 1,000 live births) than girls ( 30 deaths per 1,000 live births).

- Infant, child, and under-5 mortality rates are lower in urban areas (57, 30, and 85 deaths per 1,000 live births, respectively) than in rural areas ( 69,36 , and 102 deaths per 1,000 live births) (Table 8.2).
- Early childhood mortality rates in the 10 year period prior to the survey indicate substantial regional differences. For example, under-5 mortality ranges from 83 deaths per 1,000 live births in North Central to 123 deaths per 1,000 live births in North Western (Figure 8.2).


### 8.2 Biodemographic Risk Factors

The risk of childhood death is influenced by specific biodemographic factors related to inherent congenital characteristics of children themselves or their mothers. The age of the mother at birth and other factors such as birth order, previous birth interval, and birth size all have implications for a child's survivability (Maniruzzaman et al. 2018).
Relationships between early childhood mortality and biodemographic and sociodemographic characteristics are presented in Table 8.3. Information from 10 years prior to the survey was pooled to increase the sample size for more detailed breakdowns.

## Patterns by background characteristics

- Across all background characteristics, infant and under-5 mortality rates are highest when the previous birth interval is less than 2 years ( 137 and 175 deaths per 1,000 live births, respectively).
- Neonatal, infant, and under-5 mortality are highest among births of order 7 or higher (67, 98, and 127 deaths per 1,000 live births, respectively) (Table 8.3).


### 8.3 Perinatal Mortality

## Perinatal mortality rate

Perinatal deaths comprise stillbirths (pregnancy losses occurring after 7 months 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 7 or more months' duration.
Sample: Number of pregnancies of 7 or more months' duration to women age $15-49$ in the 5 years before the survey

Distinguishing between stillbirths and early neonatal deaths can be difficult. It depends on observing and then remembering sometimes faint signs of life after delivery. Furthermore, the causes of stillbirths and early neonatal deaths are closely linked. Considering one independently of the other can underestimate the true level of mortality around the time of delivery. For this reason, stillbirths and early neonatal deaths are presented
separately and then combined into the perinatal mortality rate for the 5-year period prior to the survey in Table 8.4. The results show that the perinatal mortality rate is 42 deaths per 1,000 pregnancies of 7 or more months.

Patterns by background characteristics

- The perinatal mortality rate is higher among mothers age 40-49 (66 deaths per 1,000 pregnancies) than among mothers in the other age groups (40-43 deaths per 1,000 pregnancies).
- Perinatal mortality decreases as pregnancy intervals increase, from 78 deaths per 1,000 pregnancies among women who became pregnant less than 15 months after a previous pregnancy to 32 deaths per 1,000 pregnancies among those who became pregnant 39 months or more after a previous pregnancy.
- Numbers of stillbirths and early neonatal deaths are much higher among mothers with no education (27 and 57 per 1,000 pregnancies, respectively) than among mothers with a higher education ( 3 and 1 per 1,000 pregnancies, respectively).


### 8.4 High-Risk Fertility Behavior

The survival of infants and children depends in part on the demographic and biological characteristics of their mothers. In Table 8.5, births in the 5 years preceding the survey are categorized into generally recognized risk categories based on mother's age, the length of the preceding birth interval, and child's birth order. Of all births in the past 5 years, $29 \%$ do not fall in any high-risk category. Fifty-four percent of births are classified in an avoidable high-risk category; $35 \%$ of births are in only one high-risk category, and $19 \%$ are in multiple high-risk categories.

The second column of the table presents risk ratios, which show the relationship between risk factors and actual child mortality. A risk ratio greater than one means that exposure to a certain factor increases risk, while a risk ratio less than one means that exposure decreases that risk. The risk of early childhood death is highest for births in which the mother was older than age 34, the preceding birth interval was less than 24 months, and the birth order was greater than three. The risk of death for these births is about four times the risk for births in the non-high-risk category. In terms of avoidable risk, births in which the preceding birth interval was less than 24 months are at twice the risk of births not in any high-risk category.

## 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 behavior
Table 8.1 Early childhood mortality rates
Neonatal, postneonatal, infant, child, and under-5 mortality rates for 5 5-year periods
preceding the survey, Liberia DHS 2019-20

Table 8.2 Five-year early childhood mortality rates according to background characteristics

| Background characteristic | Neonatal mortality (NN) | Postneonatal mortality (PNN) ${ }^{1}$ | Infant mortality ( $1 q_{0}$ ) | Child mortality $\left(4 q_{1}\right)$ | Under-5 mortality ( $5 \mathrm{q}_{0}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Child's sex |  |  |  |  |  |
| Male | 45 | 22 | 67 | 31 | 96 |
| Female | 30 | 28 | 58 | 35 | 91 |
| Residence |  |  |  |  |  |
| Urban | 36 | 20 | 57 | 30 | 85 |
| Greater Monrovia | (40) | (15) | (55) | (28) | (82) |
| Other urban | 33 | 26 | 59 | 32 | 88 |
| Rural | 39 | 30 | 69 | 36 | 102 |
| Total | 37 | 25 | 63 | 33 | 93 |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death.
${ }^{1}$ 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, Liberia DHS 2019-20

| Characteristic | Neonatal mortality (NN) | Postneonatal mortality (PNN) ${ }^{1}$ | Infant mortality ( 190 ) | Child mortality (491) | Under-5 mortality (5qo) |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Mother's age at birth |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| <20 | 42 | 32 | 74 | 38 | 109 |
| 20-29 | 29 | 29 | 57 | 37 | 92 |
| 30-39 | 44 | 27 | 71 | 25 | 95 |
| 40-49 | 62 | (36) | (98) | * | * |
| Birth order |  |  |  |  |  |
| 1 | 39 | 29 | 68 | 31 | 97 |
| 2-3 | 23 | 32 | 55 | 33 | 86 |
| 4-6 | 43 | 26 | 69 | 39 | 105 |
| 7+ | 67 | 31 | 98 | 33 | 127 |
| Previous birth interval ${ }^{2}$ |  |  |  |  |  |
| <2 years | 81 | 55 | 137 | 44 | 175 |
| 2 years | 31 | 27 | 58 | 41 | 96 |
| 3 years | 24 | 22 | 47 | 36 | 81 |
| 4+ years | 22 | 21 | 43 | 24 | 66 |
| Birth size ${ }^{3}$ |  |  |  |  |  |
| Small/very small | 68 | 30 | 98 | na | na |
| Average or larger | 29 | 25 | 54 | na | na |
| Region |  |  |  |  |  |
| North Western | 36 | 50 | 86 | 40 | 123 |
| South Central | 41 | 26 | 67 | 37 | 102 |
| South Eastern A | 45 | 37 | 83 | 36 | 116 |
| South Eastern B | 43 | 26 | 69 | 36 | 103 |
| North Central | 30 | 26 | 56 | 29 | 83 |
| County |  |  |  |  |  |
| Bomi | 18 | 35 | 53 | 32 | 84 |
| Bong | 32 | 22 | 53 | 28 | 80 |
| Gbarpolu | 46 | 32 | 78 | 45 | 119 |
| Grand Bassa | 41 | 31 | 72 | 56 | 124 |
| Grand Cape Mount | 45 | 71 | 116 | 44 | 155 |
| Grand Gedeh | 32 | 32 | 64 | 37 | 99 |
| Grand Kru | 27 | 38 | 65 | 47 | 108 |
| Lofa | 35 | 24 | 58 | 34 | 91 |
| Margibi | 36 | 29 | 65 | 50 | 111 |
| Maryland | 50 | 23 | 72 | 33 | 102 |
| Montserrado | 42 | 25 | 66 | 30 | 95 |
| Nimba | 27 | 30 | 57 | 26 | 82 |
| River Cess | 30 | 28 | 58 | (36) | (91) |
| River Gee | 57 | 15 | 72 | 23 | 93 |
| Sinoe | 65 | 47 | 112 | 36 | 144 |
| Mother's education |  |  |  |  |  |
| No education | 35 | 34 | 69 | 39 | 105 |
| Elementary | 45 | 36 | 82 | 38 | 116 |
| Junior high | 44 | 15 | 60 | 42 | 99 |
| Senior high | 26 | 18 | 44 | 12 | 55 |
| Higher | * | * | * | * | * |
| Wealth quintile |  |  |  |  |  |
| Lowest | 34 | 33 | 67 | 38 | 102 |
| Second | 39 | 28 | 67 | 38 | 103 |
| Middle | 37 | 35 | 73 | 36 | 106 |
| Fourth | 43 | 26 | 70 | 43 | 110 |
| Highest | 31 | 21 | 52 | 9 | 61 |

Note: Figures in parentheses are based on 250-499 unweighted person-years of exposure to the risk of death. An asterisk indicates that a figure is based on fewer than 250 unweighted cases and has been suppressed.
na $=$ Not available
${ }^{1}$ Computed as the difference between the infant and neonatal mortality rates
${ }^{2}$ Excludes first-order births
${ }^{3}$ Rates for the 5 -year period before the survey

| Table 8.4 Perinatal mortality |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Number of stillbirths and early neonatal deaths, and the perinatal mortality rate for the 5 -year period preceding the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |
| Background characteristic | Number of stillbirths ${ }^{1}$ | Number of early neonatal deaths ${ }^{2}$ | Perinatal mortality rate ${ }^{3}$ | Number of pregnancies of 7+ months' duration |
| Mother's age at birth |  |  |  |  |
| <20 | 10 | 37 | 41 | 1,129 |
| 20-29 | 32 | 68 | 40 | 2,526 |
| 30-39 | 16 | 43 | 43 | 1,369 |
| 40-49 | 4 | 14 | 66 | 261 |
| Previous pregnancy interval in months ${ }^{4}$ |  |  |  |  |
| First pregnancy | 12 | 41 | 40 | 1,305 |
| <15 | 13 | 28 | 78 | 530 |
| 15-26 | 11 | 34 | 45 | 990 |
| 27-38 | 5 | 22 | 39 | 691 |
| 39+ | 20 | 36 | 32 | 1,769 |
| Residence |  |  |  |  |
| Urban | 33 | 86 | 42 | 2,814 |
| Greater Monrovia | 14 | 48 | 43 | 1,415 |
| Other urban | 19 | 38 | 41 | 1,399 |
| Rural | 28 | 75 | 42 | 2,470 |
| Region |  |  |  |  |
| North Western | 6 | 10 | 34 | 465 |
| South Central | 29 | 80 | 47 | 2,305 |
| South Eastern A | 5 | 12 | 51 | 337 |
| South Eastern B | 5 | 13 | 64 | 294 |
| North Central | 16 | 45 | 33 | 1,883 |
| County |  |  |  |  |
| Bomi | 3 | 1 | 25 | 153 |
| Bong | 2 | 15 | 29 | 567 |
| Gbarpolu | 1 | 3 | 41 | 96 |
| Grand Bassa | 7 | 14 | 56 | 386 |
| Grand Cape Mount | 2 | 6 | 37 | 217 |
| Grand Gedeh | 2 | 4 | 51 | 121 |
| Grand Kru | 2 | 3 | 46 | 106 |
| Lofa | 5 | 15 | 49 | 410 |
| Margibi | 2 | 12 | 52 | 282 |
| Maryland | 2 | 8 |  | 136 |
| Montserrado | 19 | 54 | 44 | 1,637 |
| Nimba | 9 | 16 | 28 | 906 |
| River Cess | 1 | 2 | 28 | 81 |
| River Gee | 2 | 2 | 74 | 53 |
| Sinoe | 2 | 7 | 66 | 135 |
| Mother's education |  |  |  |  |
| No education | 27 | 57 | 44 | 1,888 |
| Elementary | 10 | 40 | 37 | 1,355 |
| Junior high | 17 | 42 | 63 | 931 |
| Senior high | 6 | 22 | 31 | 910 |
| Higher | 3 | 1 | 15 | 201 |
| Wealth quintile |  |  |  |  |
| Lowest | 14 | 33 | 37 | 1,269 |
| Second | 16 | 42 | 50 | 1,164 |
| Middle | 15 | 15 | 30 | 994 |
| Fourth | 13 | 50 | 62 | 1,011 |
| Highest | 4 | 21 | 29 | 847 |
| Total | 61 | 161 | 42 | 5,285 |

${ }^{1}$ Stillbirths are fetal 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 sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of 7 or more months' duration, expressed per 1,000
${ }^{4}$ Category cutoffs correspond to birth intervals 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 behavior
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, Liberia DHS 2019-20

| Risk category | Births in the 5 years preceding the survey |  | Percentage of currently married women ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
|  | Percentage of births | Risk ratio |  |
| Not in any high-risk category | 28.9 | 1.00 | $18.5{ }^{\text {a }}$ |
| Unavoidable risk category First-order births between age 18 and age 34 | 17.6 | 1.12 | 3.7 |
| In any avoidable high-risk category | 53.5 | 1.34 | 77.8 |
| Single high-risk category <br> Mother's age <18 only Mother's age >34 only Birth interval <24 months only Birth order >3 only | $\begin{array}{r} 9.8 \\ 1.8 \\ 3.8 \\ 19.3 \end{array}$ | $\begin{aligned} & 1.31 \\ & 0.90 \\ & 1.32 \\ & 0.97 \end{aligned}$ | $\begin{array}{r} 0.4 \\ 5.6 \\ 7.3 \\ 16.8 \end{array}$ |
| Subtotal | 34.7 | 1.10 | 30.1 |
| Multiple high-risk category <br> Age <18 and birth interval <24 months ${ }^{2}$ | 0.5 | (1.89) | 0.4 |
| Age >34 and birth interval <24 months <br> Age $>34$ and birth order $>3$ | 0.1 11.9 | 1.31 | 0.2 33.7 |
| Age >34 and birth interval <24 months and birth order $>3$ | 1.7 | 4.24 | 5.0 |
| Birth interval <24 months and birth order >3 | 4.6 | 2.00 | 8.4 |
| Subtotal | 18.8 | 1.77 | 47.7 |
| Total | 100.0 | na | 100.0 |
| Subtotals by individual avoidable high-risk category <br> Mother's age <18 <br> Mother's age >34 <br> Birth interval $<24$ months <br> Birth order >3 | $\begin{aligned} & 10.3 \\ & 15.5 \\ & 10.8 \\ & 37.5 \end{aligned}$ | $\begin{aligned} & 1.34 \\ & 1.60 \\ & 2.11 \\ & 1.36 \end{aligned}$ | $\begin{array}{r} 0.8 \\ 44.4 \\ 21.3 \\ 63.9 \end{array}$ |
| Number of births/women | 5,263 | na | 4,216 |

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. Ratios in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a ratio is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.
${ }^{2}$ Includes the category age <18 and birth order >3
${ }^{\text {a }}$ Includes sterilized women

## MATERNAL HEALTH CARE

## Key Findings

- Prenatal care: $87 \%$ of women age $15-49$ who had a birth in the 5 years before the survey had four or more prenatal care visits, and 71\% received prenatal care during the first trimester for their most recent pregnancy.
- Protection against neonatal tetanus: $83 \%$ of women's most recent live births were protected against neonatal tetanus, a decline from 88\% in 2013.
- Delivery: $80 \%$ of births in the 5 years before the survey were delivered in a health facility, and $84 \%$ were delivered with the assistance of a skilled provider.
- Postnatal care: $80 \%$ of women with a birth in the 2 years before the survey and 76\% of their newborns received a postnatal check within 2 days of delivery.
- Cord care: $6 \%$ of births in the 2 years before the survey had chlorhexidine applied to the stump of the umbilical cord.
- Problems in accessing health care: $45 \%$ of women age 15-49 have at least one problem in accessing health care; getting money for treatment is the most common problem.

Health care services during pregnancy, childbirth and after delivery are important for the survival and well-being of both the mother and the infant. The 2019-20 LDHS obtained information on key indicators of maternal and newborn care in Liberia. These findings will help policymakers and program implementers in assessing current policies and programs as well as in decision making to improve maternal and newborn services in the country.

To ensure that standardized quality maternal health care is provided, the MOH develops and provides policy documents that aid service providers at all levels. Specifically, the Reproductive Health Policy offers standards, guidelines, protocols, and job aids for quick reference during the provision of preconception care, prenatal care, labor and delivery, and newborn care. It also establishes the categories of care providers (MOH 2015a; MOH 2015b; MOH 2015c).

### 9.1 Prenatal Care Coverage and Content

### 9.1.1 Skilled Providers

## Prenatal care from a skilled provider

Pregnancy care received from skilled providers, such as doctors, nurses/midwives, and physician's assistants.
Sample: Women age 15-49 who had a live birth in the 5 years before the survey

Access to timely and quality prenatal services during pregnancy can help prevent maternal deaths and newborn complications. Prenatal visits allow providers to identify and manage infections and potential obstetric complications as well as to provide women with preventive injections, medications, supplements, and important information about pregnancy complications, breastfeeding, and family planning. Almost all (98\%) women with a live birth in the 5 years before the survey received at least some prenatal care from a skilled provider for their most recent birth. Nurses/midwives are the most common prenatal care provider, seen by more than three quarters of women ( $78 \%$ ); $19 \%$ of women saw doctors for their prenatal care (Table 9.1). At least $94 \%$ of women in all counties and of all levels of education and household wealth received prenatal care from a skilled provider.

Trends: Coverage of prenatal care from a skilled provider has been above $95 \%$ since 2013 and is almost universal as of 2019-20 (Figure 9.1).

### 9.1.2 Timing and Number of Prenatal Care Visits

Almost 9 in 10 women ( $87 \%$ ) attended at least the four recommended prenatal care visits for their most recent birth in the 5 years before the survey (Table 9.2). Seven in 10 ( $71 \%$ ) pregnant women had their first prenatal care visit in the first trimester of pregnancy, as recommended. Rural women are somewhat less likely than urban women to have at least four prenatal care visits ( $85 \%$ versus $89 \%$ ).

Figure 9.1 Trends in prenatal care coverage
Percentage of women age 15-49 who had a live birth in the 5 years before the survey (for the most recent birth)


Trends: The percentage of women who had at least four prenatal care visits rose from $78 \%$ in 2013 to $87 \%$ in 2019-20, while the percentage who received care in the first trimester increased from $67 \%$ to $71 \%$ (Figure 9.1).

### 9.1.3 Reasons for Lack of Prenatal Care

The 2019-20 LDHS asked women who did not attend any prenatal care or attended less than the recommended four prenatal care visits their reason for not attending recommended prenatal care. The most common reason women gave for not attending prenatal care visits was that they had no money to pay for transportation (35\%), followed by no transportation (19\%) and no time (12\%) (Table 9.3).

### 9.2 Components of Prenatal Care Visits

Among women who received prenatal care for their most recent birth, almost all had their blood pressure measured (96\%), a urine sample taken (93\%), and a blood sample taken (96\%) (Table 9.4 and Figure 9.2). Ninety-four percent took iron tablets or syrup, and 64\% took intestinal parasite drugs.

Trends: The proportion of women who had a urine sample taken increased from $85 \%$ in 2013 to $93 \%$ in 2019-20. The other components of prenatal care have remained more or less unchanged since 2013.

## Patterns by background characteristics

- There are only minimal differences by background characteristics in the percentages of women who took iron tablets and had their blood pressure measured.
- Women living in rural areas were less likely to have had a urine sample taken than women in urban areas ( $88 \%$ versus $96 \%$ ).
- By county, urine samples were least likely to be taken in Gbarpolu (67\%) and most likely to be taken in River Cess (98\%).
- The percentage of women who took intestinal drugs ranges from a low of $40 \%$ in River Cess to a high of $77 \%$ in Grand Kru.


### 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: Last live births in the 5 years before the survey to women age 15-49

Neonatal tetanus, a leading cause of death among neonates in lower-income countries, is often due to failure to observe hygienic procedures during delivery. Almost 8 in 10 ( $79 \%$ ) women with a live birth in the 5 years before the survey received two or more tetanus toxoid injections to protect their last live birth against neonatal tetanus. In all, $83 \%$ of women's most recent live births were protected against neonatal tetanus (Table 9.5).

Trends: After increasing from $77 \%$ in 2007 to $88 \%$ in 2013, tetanus toxoid coverage has since slightly decreased to $83 \%$ in 2019-20.

## Patterns by background characteristics

- Protection against neonatal tetanus ranges from a low of $70 \%$ each in River Cess and Gbarpolu to a high of $92 \%$ in Lofa.
- The proportions of births protected against neonatal tetanus are similar across education and wealth categories, dropping below $80 \%$ only among women from the poorest households ( $79 \%$ ).


### 9.4 Delivery Services

### 9.4.1 Institutional Deliveries

## Institutional deliveries

Deliveries that occur in a health facility.
Sample: All live births in the 5 years before the survey

Health facility deliveries help reduce maternal and newborn mortality, as skilled providers are immediately available to manage obstetric and newborn complications that may arise during delivery. The 201920 LDHS results show that $80 \%$ of births in the 5 years before the survey were delivered in a health facility (Table 9.6). The majority of births were delivered in public facilities ( $66 \%$ ), while $14 \%$ were delivered in private facilities. Nineteen percent of births were delivered at home.

Trends: Health facility births increased steadily from $37 \%$ in 2007 to $80 \%$ in 2019-20. Conversely, home births dropped during this period, from $61 \%$ to $19 \%$

Figure 9.3 Trends in place of birth
Percentage of live births in the 5 years before the survey
 (Figure 9.3).

## Patterns by background characteristics

- Health facility births are more common among women with four or more prenatal care visits ( $85 \%$ ) than among women with one to three prenatal care visits ( $62 \%$ ) and those with no visits (27\%) (Table 9.6).
- Health facility births increase with increasing education. Seventy-six percent of women with no education delivered in a health facility, as compared with $89 \%$ of women with a higher education (Figure 9.4).
- Health facility births also generally increase with increasing household wealth, from $74 \%$ among women in the poorest households to $84 \%$ among those in the wealthiest households.

Figure 9.4 Health facility births by education

Percentage of live births in the 5 years before the survey that were delivered in a health facility


- Health facility births vary by county, ranging from $50 \%$ in Gbarpolu to $96 \%$ in Lofa (Figure 9.5).

Figure 9.5 Health facility births by county


### 9.4.2 Skilled Assistance during Delivery

## Skilled assistance during delivery

Births delivered with the assistance of doctors, nurses/midwives, and physician's assistants.
Sample: All live births in the 5 years before the survey

Assistance from a skilled birth attendant during delivery is a key intervention for reducing maternal and neonatal mortality. In Liberia, $84 \%$ of births are delivered by a skilled provider ( $72 \%$ by nurses/midwives and $12 \%$ by doctors). Fifteen percent of births are delivered by traditional midwives (Table 9.7 and Figure 9.6).

Trends: Skilled assistance at delivery increased steadily and substantially from $46 \%$ of births in 2007 to $84 \%$ of births in 2019-20. Births delivered by nurses/midwives rose from $41 \%$ to $72 \%$ over that period, while births delivered by doctors increased from $4 \%$ to $12 \%$. Meanwhile, births delivered by traditional midwives decreased from $48 \%$ to $15 \%$.

Patterns by background characteristics

- Skilled attendance at delivery is higher in urban areas (89\%) than rural areas (79\%).
- Only $28 \%$ of births that occur outside of health facilities are assisted by a skilled provider.
- Skilled attendance at delivery generally increases with increasing household wealth. Seventy-six percent of births to mothers in the poorest households are assisted by skilled providers, as compared with $94 \%$ of births to mothers in the wealthiest households.
- Skilled attendance at delivery is least common in Gbarpolu (51\%) and most common in Lofa (97\%).


### 9.4.3 Skin-to-skin Contact Immediately after Birth

Research shows that skin-to-skin contact of the baby and mother (the baby placed naked on the mother's chest) immediately after birth is beneficial for the newborn and also encourages breastfeeding. In Liberia, one in two newborns (51\%) had skin-to-skin contact with their mother immediately after birth (Table 9.7).

## Patterns by background characteristics

- Skin-to-skin contact immediately after birth is more likely among newborns delivered in a health facility ( $56 \%$ ) than among those delivered elsewhere (32\%). In addition, skin-to-skin contact varies by the type of health facility in which the delivery takes place. Fifty-eight percent of infants delivered in a public facility had immediate skin-to-skin contact, as compared with $45 \%$ of those delivered in a private facility.
- The percentage of newborns with immediate skin-to-skin contact is highest in Grand Gedeh (72\%) and lowest in Gbarpolu (37\%).


### 9.4.4 Delivery by Cesarean

Access to cesarean sections can reduce maternal and neonatal mortality and complications of labor. The World Health Organization (WHO) advises that cesarean sections be done only when medically necessary and does not recommend a target rate for countries to achieve at the population level. Research conducted by WHO has shown that increases in countries' cesarean section rates up to $10 \%$ are associated with a decline in maternal and neonatal mortality. However, increases in cesarean section rates beyond $10 \%$ are not associated with reductions in maternal and newborn mortality rates (WHO 2015a). Five percent of births in the 5 years preceding the survey were delivered by cesarean section. Of these births, $2 \%$ were planned before the onset of labor, while 3\% were decided after the onset of labor (Table 9.8).

Trends: The proportion of births delivered by cesarean section has increased only slightly over time, from 4\% in 2007 and 2013 to $5 \%$ in 2019-20.

## Patterns by background characteristics

- Cesarean-section deliveries are more common among women with a higher education (16\%) than among women at other educational levels ( $4 \%-6 \%$ ).
- Cesarean-section deliveries generally increase with increasing household wealth, from 3\% among women from the poorest households to $8 \%$ among women from the wealthiest households.
- Cesarean-section deliveries are most common in Bong and Lofa (8\% each) and least common in Gbarpolu and Grand Kru ( $1 \%$ each).


## Duration of Stay in Health Facility after Birth

Seventeen percent of women with a vaginal birth stayed in the health facility for fewer than 6 hours after giving birth, and $85 \%$ stayed for fewer than 3 days. Ninety-three percent of women with a cesarean section stayed in the hospital for 3 or more days (Table 9.9).

### 9.5 Postnatal Care

### 9.5.1 Postnatal Health Check for Mothers

Globally, approximately half of maternal deaths occur within the first 24 hours after delivery. The WHO guidelines recommend that women receive a postnatal health care check within the first 24 hours after delivery irrespective of the place of birth. In line with this global consideration, policy guidance provided by the MOH demands that every mother and her newborn are provided comprehensive postnatal care for the mother and newborn, including the first vaccines for the newborn within 24 hours after birth. The Postpartum and Newborn Protocols clearly describe the care to be provided, procedures, and specific time of care during this critical period (MOH 2015c; MOH 2015d).

In Liberia, $80 \%$ of women age 15-49 who gave birth in the 2 years before the survey received a postnatal check within 2 days of their most recent birth, and most of these women ( $69 \%$ ) were seen within 4 hours of birth (Table 9.10).

Trends: The percentage of women who received a postnatal check within 2 days of birth increased from $71 \%$ in 2013 to $80 \%$ in 2019-20. Over the same period, the percentage who received postnatal care within 4 hours of birth rose from $56 \%$ to $69 \%$.

## Patterns by background characteristics

- The timeline for receipt of postnatal care is highly associated with place of delivery. Eighty-four percent of women who delivered in a health facility received postnatal care within 2 days of birth, as compared with $56 \%$ of women who delivered elsewhere.
- The percentage of women who received postnatal care during the first 2 days after birth ranges from a low of $66 \%$ in Gbarpolu to a high of $94 \%$ in River Cess.


## Type of Provider

Seventy-two percent of women received a postnatal checkup from a doctor, nurse, or midwife, while $7 \%$ received postnatal care from a traditional midwife (Table 9.11). Women giving birth outside of a health facility ( $37 \%$ ) and women in Gbarpolu ( $24 \%$ ) and Grand Bassa ( $20 \%$ ) were most likely to receive a postnatal check from a traditional midwife.

### 9.5.2 Postnatal Health Check for Newborns

Proper care for newborns is essential to reduce neonatal problems and death. According to WHO, postnatal care services for newborns should start immediately after birth since most neonatal deaths occur within the first 48 hours of life (WHO 2015b). Three quarters ( $76 \%$ ) of newborns received a postnatal checkup within 2 days of birth, and $66 \%$ received a checkup within 4 hours. Eighteen percent of newborns did not receive a postnatal check (Table 9.12).

## Patterns by background characteristics

- Newborns delivered in a health facility were much more likely to receive a postnatal health check (83\%) than those delivered elsewhere (39\%).
- Postnatal care for newborns varies by county. Ninety percent of newborns in River Cess received a postnatal checkup within 2 days of birth, as compared with $63 \%$ each in Gbarpolu and Grand Kru.


## Type of Provider

Seventy-one percent of newborns received postnatal checkups from doctors, nurses, or midwives, while $4 \%$ were checked by a traditional midwife (Table 9.13).

## Content of Postnatal Care for Newborns

The content of postnatal care is also important. About half of newborns had their cord examined (55\%) and temperature measured ( $48 \%$ ). Only about one-third of newborns were weighed ( $35 \%$ ). More than half of mothers received counseling on danger signs ( $53 \%$ ) and breastfeeding ( $59 \%$ ) and were observed during breastfeeding $(55 \%)$. A total of $64 \%$ of newborns had at least two signal functions performed within 2 days of birth (Table 9.14).

## Patterns by background characteristics

- The percentage of newborns with at least two signal functions performed during the 2 days after birth is higher in rural areas than in urban areas ( $68 \%$ versus $60 \%$ ).
- By county, the percentage of newborns with at least two signal functions performed ranges from a low of $52 \%$ in Bomi and Gbarpolu to a high of $83 \%$ in Grand Bassa.
- The percentage of newborns with at least two signal functions performed declines sharply with increasing wealth, from $71 \%$ among those from households in the lowest wealth quintile to $55 \%$ among those from households in the highest quintile.


### 9.5.3 Cord Cutting

Women whose most recent births in the 2 years preceding the survey took place outside a health facility were asked about what was used for cutting the umbilical cord. The recommendation is that a new, unused instrument be used or, if an old instrument is used, that it first be boiled to disinfect it.

The 2019-20 LDHS results show that for $66 \%$ of births that took place outside a health facility, a new metal instrument was used to cut the cord; for $2 \%$ a previously used metal instrument was used (about half of which were boiled), and for $33 \%$ some other instrument was used. Use of a clean metal instrument is higher in rural than urban areas ( $76 \%$ versus $53 \%$ ) and declines with increasing education and wealth (Table 9.15).

### 9.5.4 Cord Care

Proper care of the stump of the umbilical cord to prevent severe bacterial infections is important in reducing neonatal mortality. In 2013, Liberia began including chlorhexidine, a powerful antiseptic, in its national health policy.

In the 2019-20 LDHS, women with a birth in the 2 years prior to the survey, irrespective of where the birth took place, were asked what was applied to the stump of the umbilical cord, if anything. Overall, $6 \%$ of women with a birth in the past 2 years said that chlorhexidine was applied to the cord stump, while $37 \%$ said that another antiseptic was applied. Twenty-four percent of women said that nothing was applied and $33 \%$ said that other substances such as mustard oil, ash, or animal dung were applied. Overall, two-thirds ( $67 \%$ ) of newborns had no harmful substance applied to the cord (Table 9.16).

## Patterns by background characteristics

- Use of chlorhexidine depends on place of delivery. Seven percent of births in public health facilities had chlorhexidine applied to the cord, as compared with only $2 \%$ each of births in private facilities and elsewhere.
- The percentage of births with nothing harmful applied to the cord ranges from a low of 58\% each in Bomi and Margibi to a high of $79 \%$ each in River Gee and Maryland. Similarly, use of chlorhexidine varies greatly by county, from a low of $1 \%$ of births in Montserrado to a high of $27 \%$ in River Gee and $24 \%$ in Grand Kru.


### 9.6 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 for treatment
- Getting money for advice or treatment
- Distance to a health facility
- Not wanting to go alone

Sample: Women age 15-49

Almost half ( $45 \%$ ) of women age 15-49 report that they have at least one problem in accessing health care when they are sick. The most commonly reported problem is getting money for treatment ( $36 \%$ ), followed by distance to a health facility (28\%) (Table 9.17).

Patterns by background characteristics

- Women living in rural areas are more likely to report at least one problem in accessing health care than those living in urban areas (59\% versus 36\%).
- The percentage of women reporting one or more problems in accessing health care declines sharply with increasing education and wealth.
- By county, the percentage of women reporting one or more problems in accessing health care is lowest in River Gee ( $25 \%$ ) and highest in Gbarpolu ( $75 \%$ ).


## List of Tables

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## Table 9.1 Prenatal care

Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by prenatal care provider during the pregnancy for the most recent birth and percentage receiving prenatal care from a skilled provider for the most recent birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Prenatal care provider |  |  |  |  | $\begin{gathered} \text { No prenatal } \\ \text { care } \\ \hline \end{gathered}$ | Total | Percentage receiving prenatal care from a skilled provider ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor | Nurse/ midwife | Physician's assistant | Traditional midwife | Other |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 14.9 | 81.9 | 1.8 | 0.3 | 0.0 | 1.1 | 100.0 | 98.6 | 801 |
| 20-34 | 20.0 | 77.3 | 0.6 | 0.4 | 0.1 | 1.7 | 100.0 | 97.8 | 2,530 |
| 35-49 | 19.1 | 77.3 | 0.6 | 0.7 | 0.0 | 2.4 | 100.0 | 96.9 | 695 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 1 | 18.6 | 78.9 | 1.3 | 0.2 | 0.0 | 0.9 | 100.0 | 98.8 | 1,097 |
| 2-3 | 21.6 | 75.9 | 0.5 | 0.3 | 0.0 | 1.6 | 100.0 | 98.1 | 1,419 |
| 4-5 | 17.7 | 79.5 | 0.7 | 0.3 | 0.1 | 1.7 | 100.0 | 97.9 | 845 |
| $6+$ | 14.7 | 80.2 | 0.7 | 1.0 | 0.1 | 3.3 | 100.0 | 95.6 | 666 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 23.3 | 74.3 | 0.6 | 0.3 | 0.0 | 1.5 | 100.0 | 98.2 | 2,269 |
| Greater Monrovia | 29.0 | 69.1 | 0.0 | 0.0 | 0.0 | 1.9 | 100.0 | 98.1 | 1,184 |
| Other urban | 17.2 | 79.8 | 1.3 | 0.5 | 0.0 | 1.1 | 100.0 | 98.4 | 1,084 |
| Rural | 13.0 | 83.3 | 1.1 | 0.6 | 0.1 | 1.9 | 100.0 | 97.4 | 1,757 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 12.6 | 83.4 | 2.3 | 0.2 | 0.0 | 1.4 | 100.0 | 98.3 | 331 |
| South Central | 24.4 | 72.5 | 0.2 | 0.5 | 0.0 | 2.3 | 100.0 | 97.1 | 1,825 |
| South Eastern A | 12.5 | 81.6 | 1.8 | 0.6 | 0.5 | 3.1 | 100.0 | 95.8 | 248 |
| South Eastern B | 15.8 | 80.9 | 0.5 | 0.5 | 0.0 | 2.4 | 100.0 | 97.2 | 222 |
| North Central | 14.6 | 83.4 | 1.1 | 0.2 | 0.0 | 0.7 | 100.0 | 99.1 | 1,400 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 9.0 | 86.0 | 3.0 | 0.6 | 0.0 | 1.3 | 100.0 | 98.1 | 119 |
| Bong | 9.0 | 89.1 | 0.3 | 0.0 | 0.0 | 1.6 | 100.0 | 98.4 | 443 |
| Gbarpolu | 12.7 | 82.1 | 3.3 | 0.1 | 0.0 | 1.8 | 100.0 | 98.1 | 67 |
| Grand Bassa | 11.9 | 83.0 | 0.9 | 2.2 | 0.0 | 2.1 | 100.0 | 95.7 | 264 |
| Grand Cape Mount | 15.5 | 81.8 | 1.3 | 0.0 | 0.0 | 1.4 | 100.0 | 98.6 | 145 |
| Grand Gedeh | 5.6 | 89.2 | 0.7 | 0.4 | 1.3 | 2.7 | 100.0 | 95.6 | 90 |
| Grand Kru | 24.3 | 70.8 | 0.0 | 1.3 | 0.0 | 3.7 | 100.0 | 95.0 | 80 |
| Lofa | 6.6 | 92.0 | 1.4 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | 317 |
| Margibi | 24.1 | 69.2 | 0.9 | 1.6 | 0.0 | 4.2 | 100.0 | 94.2 | 217 |
| Maryland | 12.0 | 85.4 | 1.0 | 0.0 | 0.0 | 1.6 | 100.0 | 98.4 | 100 |
| Montserrado | 26.9 | 70.9 | 0.0 | 0.0 | 0.1 | 2.0 | 100.0 | 97.9 | 1,343 |
| Nimba | 22.4 | 75.2 | 1.6 | 0.5 | 0.0 | 0.3 | 100.0 | 99.2 | 640 |
| River Cess | 11.1 | 83.3 | 3.5 | 0.9 | 0.0 | 1.1 | 100.0 | 98.0 | 58 |
| River Gee | 8.8 | 89.3 | 0.2 | 0.0 | 0.0 | 1.7 | 100.0 | 98.3 | 42 |
| Sinoe | 19.4 | 73.6 | 1.8 | 0.5 | 0.0 | 4.7 | 100.0 | 94.8 | 100 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 15.8 | 80.2 | 0.9 | 0.5 | 0.1 | 2.6 | 100.0 | 96.8 | 1,366 |
| Elementary | 16.5 | 81.3 | 0.6 | 0.4 | 0.1 | 1.1 | 100.0 | 98.4 | 984 |
| Junior high | 16.9 | 79.1 | 1.6 | 0.2 | 0.0 | 2.2 | 100.0 | 97.6 | 725 |
| Senior high | 25.1 | 73.0 | 0.6 | 0.5 | 0.0 | 0.8 | 100.0 | 98.7 | 782 |
| Higher | 35.9 | 63.8 | 0.1 | 0.1 | 0.0 | 0.0 | 100.0 | 99.9 | 170 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 12.8 | 82.6 | 1.0 | 0.7 | 0.2 | 2.7 | 100.0 | 96.4 | 855 |
| Second | 14.2 | 83.2 | 0.8 | 0.6 | 0.0 | 1.1 | 100.0 | 98.3 | 849 |
| Middle | 16.5 | 78.2 | 2.0 | 0.0 | 0.0 | 3.2 | 100.0 | 96.8 | 785 |
| Fourth | 21.8 | 76.2 | 0.2 | 0.4 | 0.0 | 1.3 | 100.0 | 98.3 | 816 |
| Highest | 30.5 | 69.2 | 0.0 | 0.2 | 0.0 | 0.1 | 100.0 | 99.7 | 721 |
| Total | 18.8 | 78.2 | 0.8 | 0.4 | 0.0 | 1.7 | 100.0 | 97.8 | 4,026 |

[^10]${ }^{1}$ Skilled provider includes doctor, nurse, midwife, and physician's assistant.

Table 9.2 Number of prenatal care visits and timing of first visit
Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by number of prenatal care visits for the most recent live birth and by the timing of the first visit, and among women with prenatal care, median months pregnant at first visit, according to residence, Liberia DHS 2019-20

| Number of prenatal care visits and timing of first visit | Residence |  | Total |
| :---: | :---: | :---: | :---: |
|  | Urban | Rural |  |
| Number of prenatal care visits |  |  |  |
| None | 1.5 | 1.9 | 1.7 |
| 1 | 0.7 | 1.9 | 1.2 |
| 2-3 | 6.6 | 9.8 | 8.0 |
| 4+ | 89.3 | 84.6 | 87.3 |
| Don't know/missing | 1.9 | 1.8 | 1.8 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of months pregnant at time of first prenatal care visit |  |  |  |
| No prenatal care | 1.5 | 1.9 | 1.7 |
| <4 | 71.0 | 70.8 | 70.9 |
| 4-5 | 22.5 | 20.5 | 21.7 |
| 6-7 | 3.5 | 5.2 | 4.3 |
| $8+$ | 1.0 | 1.3 | 1.1 |
| Don't know/missing | 0.4 | 0.1 | 0.3 |
| Total | 100.0 | 100.0 | 100.0 |
| Number of women | 2,269 | 1,757 | 4,026 |
| Median months pregnant at first visit (for those with prenatal care) | 3.1 | 3.2 | 3.2 |
| Number of women with prenatal care | 2,234 | 1,723 | 3,957 |

Table 9.3 Reasons for not attending recommended number of prenatal care visits
Among women age 15-49 with a live birth in the 5 years preceding the survey who had less than the recommended four prenatal care visits for the most recent birth, percentage citing specific reasons for not attending the recommended number of visits, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among women with less than the 4 recommended prenatal care visits, reason for not attending the recommended number of visits |  |  |  |  |  |  |  |  | Number of women with 0-3 prenatal care visits for their most recent birth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fear of sexual assault | Fear of other violence on the road | No transportation | No money to pay for transportation | No time | Husband or partner did not give permission | Other male family member did not give permission | Female family member did not give permission | Other |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 3.1 | 3.6 | 14.0 | 36.5 | 10.0 | 6.3 | 1.2 | 2.5 | 39.2 | 50 |
| 20-24 | 3.9 | 1.6 | 18.1 | 27.2 | 6.9 | 0.2 | 3.3 | 0.4 | 56.3 | 112 |
| 25-29 | 2.4 | 5.2 | 27.6 | 42.1 | 14.6 | 0.0 | 0.3 | 0.0 | 43.0 | 100 |
| 30-39 | 0.5 | 3.2 | 19.1 | 34.7 | 13.0 | 0.2 | 0.0 | 0.0 | 42.6 | 121 |
| 40-49 | 1.4 | 4.8 | 12.9 | 33.1 | 19.2 | 1.2 | 0.3 | 0.0 | 52.5 | 55 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 1.7 | 3.2 | 18.3 | 26.4 | 7.1 | 3.1 | 0.6 | 1.2 | 49.0 | 102 |
| 2-3 | 3.0 | 3.3 | 22.7 | 41.6 | 11.9 | 0.1 | 2.3 | 0.3 | 45.3 | 161 |
| 4-5 | 2.1 | 4.1 | 19.5 | 39.3 | 16.3 | 0.3 | 0.4 | 0.0 | 40.9 | 83 |
| 6+ | 1.6 | 3.6 | 14.9 | 26.8 | 14.9 | 0.7 | 0.2 | 0.0 | 53.5 | 92 |
| Number of prenatal care visits |  |  |  |  |  |  |  |  |  |  |
| None | 1.1 | 3.2 | 37.0 | 37.7 | 7.2 | 1.0 | 0.0 | 0.0 | 42.3 | 69 |
| 1 | 0.4 | 3.2 | 8.4 | 32.1 | 20.2 | 0.0 | 1.9 | 2.0 | 39.3 | 48 |
| 2-3 | 2.7 | 3.6 | 17.3 | 34.2 | 12.1 | 1.1 | 1.2 | 0.2 | 49.2 | 321 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.4 | 2.0 | 20.3 | 34.8 | 8.5 | 1.5 | 1.9 | 0.0 | 49.2 | 199 |
| Greater Monrovia | (3.6) | (0.8) | (24.5) | (39.1) | (6.2) | (1.7) | (2.8) | (0.0) | (49.1) | 133 |
| Other urban | 0.0 | 4.4 | 12.0 | 26.2 | 12.9 | 1.3 | 0.0 | 0.0 | 49.5 | 67 |
| Rural | 2.0 | 4.7 | 18.7 | 34.3 | 15.4 | 0.5 | 0.4 | 0.7 | 45.2 | 239 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 2.2 | 4.7 | 19.2 | 32.0 | 8.3 | 0.5 | 0.0 | 0.0 | 55.3 | 36 |
| South Central | 2.4 | 3.1 | 19.7 | 36.2 | 10.0 | 1.3 | 1.9 | 0.2 | 49.0 | 223 |
| South Eastern A | 1.6 | 7.4 | 24.2 | 15.7 | 20.7 | 0.0 | 0.0 | 0.0 | 49.0 | 30 |
| South Eastern B | 6.1 | 2.7 | 25.0 | 38.0 | 20.3 | 0.8 | 1.3 | 1.9 | 44.0 | 36 |
| North Central | 0.7 | 3.1 | 16.0 | 35.8 | 13.2 | 0.8 | 0.0 | 0.5 | 41.1 | 113 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | * | * | * | * | * | * | * | * | * | 6 |
| Bong | 0.0 | 3.0 | 18.2 | 42.4 | 4.2 | 0.0 | 0.0 | 0.0 | 45.9 | 50 |
| Gbarpolu | (1.8) | (6.0) | (22.4) | (44.2) | (1.8) | (1.0) | (0.0) | (0.0) | (62.7) | 19 |
| Grand Bassa | 1.2 | 9.1 | 4.4 | 25.0 | 24.7 | 0.0 | 0.0 | 1.0 | 49.5 | 46 |
| Grand Cape Mount | * | * | * | * | * | * | * | * | * | 11 |
| Grand Gedeh | * | * | * | * | * | * | * | * | * | 10 |
| Grand Kru | 10.6 | 2.6 | 38.2 | 50.7 | 29.3 | 1.3 | 1.5 | 3.3 | 31.0 | 21 |
| Lofa |  | * | + | * |  |  |  |  | . | 25 |
| Margibi | (0.0) | (4.3) | (12.1) | (47.8) | (11.3) | (2.7) | (2.4) | (0.0) | (44.8) | 25 |
| Maryland | (0.0) | (2.2) | (6.6) | (25.7) | (6.6) | (0.3) | (0.0) | (0.0) | (55.4) | 12 |
| Montserrado | 3.1 | 1.1 | 25.4 | 37.7 | 5.4 | 1.5 | 2.4 | 0.0 | 49.5 | 153 |
| Nimba | (0.0) | (5.2) | (23.4) | (24.0) | (18.4) | (0.0) | (0.0) | (1.4) | (32.4) | 38 |
| River Cess | (0.0) | (17.1) | (22.5) | (10.2) | (14.1) | (0.0) | (0.0) | (0.0) | (47.5) | 5 |
| River Gee | * | * | * | * | * | * | * | * | * | 3 |
| Sinoe | (3.1) | (4.4) | (36.5) | (12.9) | (22.6) | (0.0) | (0.0) | (0.0) | (39.5) | 16 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 1.2 | 4.2 | 21.2 | 36.6 | 15.3 | 0.5 | 0.6 | 0.0 | 43.2 | 174 |
| Elementary | 1.7 | 3.5 | 20.5 | 38.1 | 11.4 | 1.9 | 0.0 | 1.4 | 40.2 | 119 |
| Junior high | 1.0 | 3.2 | 21.2 | 26.8 | 9.4 | 0.0 | 0.0 | 0.0 | 57.5 | 70 |
| Senior high | (7.6) | (1.7) | (14.0) | (36.5) | (10.1) | (1.8) | (5.9) | (0.0) | (51.1) | 63 |
| Higher | * | * | * | * | * | * | * | * | * | 11 |
|  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 1.0 | 3.5 | 19.9 | 33.1 | 12.2 | 0.2 | 0.0 | 0.8 | 48.4 | 138 |
| Second | 1.5 | 6.8 | 15.1 | 38.8 | 17.5 | 0.2 | 0.8 | 0.0 | 39.6 | 91 |
| Middle | 2.4 | 3.1 | 32.8 | 45.1 | 12.4 | 1.0 | 0.4 | 0.6 | 39.8 | 90 |
| Fourth | (0.0) | (0.0) | (11.0) | (30.0) | (4.3) | (0.1) | (0.0) | (0.0) | (59.5) | 71 |
| Highest | * | * | * | * | * | * | * | * | * | 49 |
| Total | 2.2 | 3.5 | 19.4 | 34.5 | 12.3 | 1.0 | 1.1 | 0.4 | 47.0 | 438 |

Note: Women can report more than one reason for not having at least 4 prenatal visits. 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 9.4 Components of prenatal care

Among women age 15-49 with a live birth in the 5 years preceding the survey, percentage who took iron tablets or syrup and drugs for intestinal parasites during the pregnancy of the most recent live birth, and among women receiving prenatal care for the most recent live birth in the 5 years preceding the survey, percentage receiving specific prenatal services, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among women with a live birth in the past 5 years, percentage who during the pregnancy of their most recent live birth: |  |  | Among women who received prenatal care for their most recent birth in the past 5 years, percentage with selected services |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Took iron tablets or syrup | Took intestinal parasite drugs | Number of women with a live birth in the past 5 years | Blood pressure measured | Urine sample taken | Blood sample taken | Number of women with prenatal care for their most recent birth |
| Age at birth |  |  |  |  |  |  |  |
| <20 | 95.5 | 62.4 | 801 | 93.4 | 91.0 | 94.6 | 792 |
| 20-34 | 93.3 | 62.6 | 2,530 | 97.0 | 92.8 | 96.8 | 2,487 |
| 35-49 | 93.8 | 69.6 | 695 | 97.8 | 93.2 | 96.5 | 678 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 95.9 | 63.0 | 1,097 | 95.1 | 92.8 | 95.7 | 1,087 |
| 2-3 | 94.2 | 63.9 | 1,419 | 96.1 | 93.4 | 96.6 | 1,396 |
| 4-5 | 91.8 | 63.8 | 845 | 98.3 | 92.6 | 97.2 | 831 |
| 6+ | 92.0 | 64.8 | 666 | 96.8 | 89.8 | 95.6 | 643 |
| Residence |  |  |  |  |  |  |  |
| Urban | 93.9 | 65.3 | 2,269 | 97.0 | 95.9 | 97.2 | 2,234 |
| Greater Monrovia | 96.8 | 65.7 | 1,184 | 97.1 | 97.4 | 97.8 | 1,162 |
| Other urban | 90.7 | 64.8 | 1,084 | 97.0 | 94.4 | 96.6 | 1,072 |
| Rural | 93.7 | 61.8 | 1,757 | 95.6 | 88.0 | 95.1 | 1,723 |
| Region |  |  |  |  |  |  |  |
| North Western | 96.6 | 64.7 | 331 | 94.4 | 86.6 | 95.4 | 327 |
| South Central | 96.6 | 64.7 | 1,825 | 95.8 | 93.7 | 95.8 | 1,783 |
| South Eastern A | 97.1 | 59.2 | 248 | 98.8 | 95.5 | 98.0 | 240 |
| South Eastern B | 94.7 | 73.0 | 222 | 96.7 | 90.4 | 96.3 | 217 |
| North Central | 88.8 | 61.7 | 1,400 | 97.2 | 92.2 | 96.9 | 1,391 |
| County |  |  |  |  |  |  |  |
| Bomi | 98.4 | 63.6 | 119 | 94.1 | 90.1 | 96.2 | 118 |
| Bong | 95.0 | 66.3 | 443 | 97.9 | 90.0 | 97.7 | 436 |
| Gbarpolu | 94.2 | 56.1 | 67 | 90.8 | 67.1 | 90.5 | 66 |
| Grand Bassa | 98.2 | 50.7 | 264 | 92.1 | 85.9 | 91.3 | 258 |
| Grand Cape Mount | 96.1 | 69.6 | 145 | 96.4 | 92.7 | 97.0 | 143 |
| Grand Gedeh | 96.5 | 69.7 | 90 | 98.7 | 95.3 | 99.6 | 87 |
| Grand Kru | 89.9 | 76.9 | 80 | 94.8 | 90.8 | 93.3 | 77 |
| Lofa | 88.2 | 51.2 | 317 | 98.2 | 90.1 | 97.0 | 317 |
| Margibi | 94.0 | 60.3 | 217 | 92.3 | 86.7 | 92.1 | 208 |
| Maryland | 97.7 | 72.9 | 100 | 96.8 | 88.9 | 97.0 | 98 |
| Montserrado | 96.7 | 68.2 | 1,343 | 97.0 | 96.3 | 97.2 | 1,316 |
| Nimba | 84.8 | 63.6 | 640 | 96.2 | 94.7 | 96.4 | 638 |
| River Cess | 98.4 | 39.7 | 58 | 98.7 | 98.2 | 98.5 | 58 |
| River Gee | 97.0 | 65.7 | 42 | 100.0 | 93.1 | 100.0 | 42 |
| Sinoe | 97.0 | 61.2 | 100 | 99.0 | 94.1 | 96.3 | 95 |
| Education |  |  |  |  |  |  |  |
| No education | 91.8 | 62.6 | 1,366 | 96.3 | 91.2 | 95.4 | 1,330 |
| Elementary | 94.3 | 62.0 | 984 | 95.5 | 89.5 | 95.7 | 973 |
| Junior high | 93.3 | 65.6 | 725 | 97.7 | 94.2 | 98.2 | 709 |
| Senior high | 96.4 | 67.4 | 782 | 96.6 | 95.4 | 97.0 | 775 |
| Higher | 97.3 | 58.8 | 170 | 96.1 | 99.9 | 96.0 | 170 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 92.5 | 61.4 | 855 | 95.9 | 86.2 | 94.1 | 831 |
| Second | 89.0 | 63.0 | 849 | 96.0 | 90.9 | 96.2 | 840 |
| Middle | 93.6 | 61.0 | 785 | 96.8 | 92.7 | 97.1 | 760 |
| Fourth | 96.9 | 66.1 | 816 | 96.3 | 94.9 | 96.5 | 806 |
| Highest | 97.8 | 67.9 | 721 | 97.1 | 98.7 | 97.9 | 720 |
| Total | 93.8 | 63.8 | 4,026 | 96.4 | 92.5 | 96.3 | 3,957 |


| Table 9.5 Tetanus toxoid injections |  |  |  |
| :---: | :---: | :---: | :---: |
| Among mothers age 15-49 with a live birth in the 5 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, Liberia DHS 2019-20 |  |  |  |
| Background characteristic | Percentage receiving two or more injections during the pregnancy for the most recent live birth | Percentage whose most recent live birth was protected against neonatal tetanus ${ }^{1}$ | Number of mothers |
| Age at birth |  |  |  |
| <20 | 80.3 | 82.0 | 801 |
| 20-34 | 79.0 | 83.2 | 2,530 |
| 35-49 | 78.8 | 82.0 | 695 |
| Birth order |  |  |  |
| 1 | 80.2 | 82.0 | 1,097 |
| 2-3 | 78.7 | 82.1 | 1,419 |
| 4-5 | 81.3 | 86.1 | 845 |
| 6+ | 76.1 | 81.1 | 666 |
| Residence |  |  |  |
| Urban | 80.1 | 83.2 | 2,269 |
| Greater Monrovia | 79.4 | 82.7 | 1,184 |
| Other urban | 80.7 | 83.8 | 1,084 |
| Rural | 78.1 | 82.2 | 1,757 |
| Region |  |  |  |
| North Western | 79.8 | 84.2 | 331 |
| South Central | 78.6 | 82.0 | 1,825 |
| South Eastern A | 71.4 | 77.4 | 248 |
| South Eastern B | 80.5 | 83.9 | 222 |
| North Central | 81.1 | 84.2 | 1,400 |
| County |  |  |  |
| Bomi | 84.6 | 88.8 | 119 |
| Bong | 77.3 | 80.7 | 443 |
| Gbarpolu | 65.5 | 70.4 | 67 |
| Grand Bassa | 69.0 | 74.3 | 264 |
| Grand Cape Mount | 82.4 | 86.8 | 145 |
| Grand Gedeh | 75.1 | 85.9 | 90 |
| Grand Kru | 70.8 | 71.5 | 80 |
| Lofa | 90.5 | 91.5 | 317 |
| Margibi | 79.1 | 81.7 | 217 |
| Maryland | 85.0 | 90.9 | 100 |
| Montserrado | 80.4 | 83.5 | 1,343 |
| Nimba | 79.0 | 83.0 | 640 |
| River Cess | 66.9 | 69.5 | 58 |
| River Gee | 87.9 | 90.9 | 42 |
| Sinoe | 70.6 | 74.3 | 100 |
| Education |  |  |  |
| No education | 78.2 | 81.7 | 1,366 |
| Elementary | 78.5 | 82.8 | 984 |
| Junior high | 79.2 | 83.1 | 725 |
| Senior high | 81.9 | 84.6 | 782 |
| Higher | 79.1 | 81.6 | 170 |
| Wealth quintile |  |  |  |
| Lowest | 75.3 | 79.2 | 855 |
| Second | 80.6 | 84.3 | 849 |
| Middle | 77.9 | 81.7 | 785 |
| Fourth | 83.0 | 85.3 | 816 |
| Highest | 79.4 | 83.4 | 721 |
| Total | 79.2 | 82.8 | 4,026 |

[^11]| Table 9.6 Place of delivery |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of live births in the 5 years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |  |
|  | Health facility |  | Home | Other | Total | Percentage delivered in a health facility | Number of births |
| Background characteristic | Public sector | Private sector |  |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 68.8 | 11.8 | 18.7 | 0.7 | 100.0 | 80.6 | 1,129 |
| 20-34 | 64.3 | 15.3 | 19.7 | 0.8 | 100.0 | 79.6 | 3,320 |
| 35-49 | 65.9 | 14.0 | 19.4 | 0.8 | 100.0 | 79.8 | 815 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 66.0 | 16.9 | 16.8 | 0.3 | 100.0 | 82.9 | 1,423 |
| 2-3 | 63.9 | 16.6 | 18.6 | 1.0 | 100.0 | 80.4 | 1,866 |
| 4-5 | 67.1 | 11.3 | 20.7 | 0.9 | 100.0 | 78.4 | 1,134 |
| 6+ | 66.2 | 9.1 | 23.9 | 0.8 | 100.0 | 75.3 | 839 |
| Prenatal care visits ${ }^{1}$ |  |  |  |  |  |  |  |
| None | 21.3 | 6.1 | 72.6 | 0.0 | 100.0 | 27.4 | 69 |
| 1-3 | 50.5 | 11.9 | 37.0 | 0.7 | 100.0 | 62.3 | 369 |
| 4+ | 69.0 | 15.8 | 14.5 | 0.7 | 100.0 | 84.8 | 3,514 |
| Don't know/missing | 78.4 | 9.4 | 11.2 | 1.0 | 100.0 | 87.8 | 73 |
| Residence |  |  |  |  |  |  |  |
| Urban | 61.8 | 21.6 | 16.2 | 0.4 | 100.0 | 83.4 | 2,805 |
| Greater Monrovia | 44.9 | 31.5 | 23.2 | 0.4 | 100.0 | 76.4 | 1,416 |
| Other urban | 79.0 | 11.5 | 9.1 | 0.4 | 100.0 | 90.5 | 1,388 |
| Rural | 69.7 | 6.1 | 23.1 | 1.1 | 100.0 | 75.8 | 2,458 |
| Region |  |  |  |  |  |  |  |
| North Western | 71.0 | 3.1 | 24.4 | 1.5 | 100.0 | 74.1 | 464 |
| South Central | 47.4 | 24.6 | 27.2 | 0.8 | 100.0 | 72.0 | 2,296 |
| South Eastern A | 77.6 | 3.8 | 17.6 | 0.9 | 100.0 | 81.4 | 333 |
| South Eastern B | 77.1 | 2.5 | 19.5 | 0.9 | 100.0 | 79.6 | 290 |
| North Central | 82.3 | 8.3 | 9.0 | 0.5 | 100.0 | 90.5 | 1,880 |
| County |  |  |  |  |  |  |  |
| Bomi | 73.3 | 5.4 | 19.4 | 1.9 | 100.0 | 78.7 | 152 |
| Bong | 78.4 | 5.4 | 15.3 | 1.0 | 100.0 | 83.7 | 568 |
| Gbarpolu | 46.5 | 3.6 | 47.6 | 2.3 | 100.0 | 50.1 | 95 |
| Grand Bassa | 51.2 | 10.8 | 36.5 | 1.4 | 100.0 | 62.1 | 382 |
| Grand Cape Mount | 80.1 | 1.3 | 17.7 | 0.8 | 100.0 | 81.5 | 217 |
| Grand Gedeh | 86.7 | 0.9 | 11.6 | 0.8 | 100.0 | 87.6 | 120 |
| Grand Kru | 73.4 | 0.1 | 26.0 | 0.5 | 100.0 | 73.5 | 104 |
| Lofa | 90.1 | 6.1 | 3.1 | 0.7 | 100.0 | 96.2 | 408 |
| Margibi | 55.9 | 16.7 | 26.8 | 0.6 | 100.0 | 72.6 | 281 |
| Maryland | 75.5 | 4.5 | 19.2 | 0.8 | 100.0 | 80.0 | 134 |
| Montserrado | 45.0 | 29.2 | 25.1 | 0.7 | 100.0 | 74.2 | 1,633 |
| Nimba | 81.2 | 11.1 | 7.7 | 0.1 | 100.0 | 92.3 | 904 |
| River Cess | 76.7 | 8.6 | 14.3 | 0.4 | 100.0 | 85.3 | 80 |
| River Gee | 88.5 | 2.4 | 7.4 | 1.7 | 100.0 | 90.9 | 52 |
| Sinoe | 69.9 | 3.6 | 25.1 | 1.3 | 100.0 | 73.5 | 132 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 69.2 | 7.0 | 22.9 | 1.0 | 100.0 | 76.1 | 1,875 |
| Elementary | 68.9 | 9.6 | 20.3 | 1.2 | 100.0 | 78.5 | 1,350 |
| Junior high | 66.1 | 15.6 | 18.3 | 0.0 | 100.0 | 81.7 | 929 |
| Senior high | 57.2 | 28.3 | 14.5 | 0.0 | 100.0 | 85.5 | 912 |
| Higher | 42.9 | 46.1 | 9.2 | 1.8 | 100.0 | 89.0 | 198 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 68.2 | 5.7 | 24.8 | 1.2 | 100.0 | 73.9 | 1,258 |
| Second | 76.0 | 6.5 | 16.7 | 0.7 | 100.0 | 82.5 | 1,159 |
| Middle | 70.7 | 10.9 | 17.6 | 0.9 | 100.0 | 81.6 | 989 |
| Fourth | 59.0 | 19.5 | 21.2 | 0.3 | 100.0 | 78.5 | 1,004 |
| Highest | 48.8 | 35.6 | 15.2 | 0.5 | 100.0 | 84.4 | 854 |
| Total | 65.5 | 14.3 | 19.4 | 0.7 | 100.0 | 79.8 | 5,263 |
| ${ }^{1}$ Includes only the most recent birth in the 5 years preceding the survey |  |  |  |  |  |  |  |

Table 9.7 Assistance during delivery and skin-to-skin contact of newborn
Percent distribution of live births in the 5 years preceding the survey by person providing assistance during delivery, percentage of births assisted by a skilled provider, and percentage with skin-to-skin contact immediately after birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Person providing assistance during delivery |  |  |  |  |  |  | Percentage delivered by a skilled provider ${ }^{1}$ | Percentage with skin-toskin contact immediately after birth | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor | Nurse/ midwife | Physician's assistant | Traditional midwife | Relative/ friend/other | No one | Total |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 9.6 | 74.6 | 0.2 | 14.3 | 1.1 | 0.2 | 100.0 | 84.4 | 48.2 | 1,129 |
| 20-34 | 13.3 | 71.0 | 0.3 | 14.5 | 0.6 | 0.2 | 100.0 | 84.7 | 50.9 | 3,320 |
| 35-49 | 10.3 | 72.4 | 0.4 | 16.0 | 0.7 | 0.2 | 100.0 | 83.1 | 54.6 | 815 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 12.6 | 74.0 | 0.1 | 12.5 | 0.8 | 0.0 | 100.0 | 86.7 | 47.9 | 1,423 |
| 2-3 | 13.5 | 73.1 | 0.1 | 12.5 | 0.5 | 0.3 | 100.0 | 86.7 | 52.1 | 1,866 |
| 4-5 | 12.7 | 68.4 | 0.7 | 17.4 | 0.5 | 0.3 | 100.0 | 81.8 | 50.6 | 1,134 |
| $6+$ | 6.9 | 71.2 | 0.6 | 19.7 | 1.4 | 0.2 | 100.0 | 78.7 | 53.7 | 839 |
| Prenatal care visits ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| None | 4.7 | 23.4 | 0.9 | 53.6 | 14.9 | 2.5 | 100.0 | 29.0 | 26.0 | 69 |
| 1-3 | 12.9 | 55.5 | 0.4 | 30.2 | 0.5 | 0.6 | 100.0 | 68.8 | 39.8 | 369 |
| 4+ | 12.3 | 76.3 | 0.3 | 10.5 | 0.4 | 0.1 | 100.0 | 89.0 | 53.0 | 3,514 |
| Don't know/missing | 12.3 | 79.3 | 0.9 | 4.6 | 2.4 | 0.4 | 100.0 | 92.5 | 42.6 | 73 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 14.9 | 83.4 | 0.3 | 1.3 | 0.0 | 0.0 | 100.0 | 98.6 | 55.8 | 4,202 |
| Public facility | 13.6 | 84.5 | 0.3 | 1.5 | 0.1 | 0.0 | 100.0 | 98.5 | 58.2 | 3,447 |
| Private facility | 21.0 | 78.1 | 0.2 | 0.8 | 0.0 | 0.0 | 100.0 | 99.2 | 45.0 | 755 |
| Elsewhere | 0.6 | 27.1 | 0.3 | 67.6 | 3.4 | 1.0 | 100.0 | 28.0 | 31.5 | 1,061 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 15.6 | 73.4 | 0.2 | 9.9 | 0.7 | 0.2 | 100.0 | 89.2 | 49.5 | 2,805 |
| Greater Monrovia | 16.5 | 70.1 | 0.2 | 12.0 | 0.8 | 0.4 | 100.0 | 86.8 | 45.1 | 1,416 |
| Other urban | 14.8 | 76.7 | 0.3 | 7.7 | 0.5 | 0.0 | 100.0 | 91.7 | 54.1 | 1,388 |
| Rural | 7.9 | 70.5 | 0.4 | 20.2 | 0.8 | 0.2 | 100.0 | 78.9 | 52.5 | 2,458 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 7.3 | 70.6 | 0.3 | 21.5 | 0.4 | 0.0 | 100.0 | 78.1 | 56.5 | 464 |
| South Central | 12.4 | 67.5 | 0.2 | 18.7 | 0.8 | 0.3 | 100.0 | 80.2 | 46.5 | 2,296 |
| South Eastern A | 7.4 | 75.2 | 1.1 | 15.0 | 1.3 | 0.0 | 100.0 | 83.6 | 56.4 | 333 |
| South Eastern B | 13.0 | 67.8 | 0.4 | 13.8 | 3.5 | 1.5 | 100.0 | 81.2 | 54.8 | 290 |
| North Central | 13.4 | 78.0 | 0.3 | 8.2 | 0.1 | 0.0 | 100.0 | 91.7 | 53.3 | 1,880 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 6.7 | 77.3 | 0.0 | 16.0 | 0.0 | 0.0 | 100.0 | 84.0 | 58.9 | 152 |
| Bong | 9.9 | 76.6 | 0.3 | 13.0 | 0.3 | 0.0 | 100.0 | 86.8 | 55.3 | 568 |
| Gbarpolu | 4.5 | 46.6 | 0.0 | 48.9 | 0.0 | 0.0 | 100.0 | 51.1 | 36.6 | 95 |
| Grand Bassa | 3.0 | 68.3 | 0.0 | 28.2 | 0.6 | 0.0 | 100.0 | 71.2 | 62.6 | 382 |
| Grand Cape Mount | 8.9 | 76.3 | 0.7 | 13.2 | 0.9 | 0.0 | 100.0 | 85.9 | 63.5 | 217 |
| Grand Gedeh | 6.7 | 81.8 | 0.9 | 8.0 | 2.7 | 0.0 | 100.0 | 89.3 | 71.9 | 120 |
| Grand Kru | 19.0 | 52.7 | 0.4 | 26.5 | 1.0 | 0.4 | 100.0 | 72.1 | 55.2 | 104 |
| Lofa | 6.0 | 91.3 | 0.0 | 2.5 | 0.2 | 0.0 | 100.0 | 97.3 | 56.8 | 408 |
| Margibi | 12.8 | 61.5 | 0.8 | 23.0 | 1.9 | 0.0 | 100.0 | 75.1 | 39.6 | 281 |
| Maryland | 10.4 | 72.9 | 0.3 | 7.1 | 6.6 | 2.6 | 100.0 | 83.6 | 48.4 | 134 |
| Montserrado | 14.6 | 68.4 | 0.2 | 15.8 | 0.7 | 0.4 | 100.0 | 83.2 | 44.0 | 1,633 |
| Nimba | 19.0 | 72.9 | 0.4 | 7.8 | 0.0 | 0.0 | 100.0 | 92.2 | 50.5 | 904 |
| River Cess | 6.8 | 75.8 | 2.8 | 14.5 | 0.1 | 0.0 | 100.0 | 85.3 | 55.1 | 80 |
| River Gee | 7.5 | 84.6 | 0.8 | 5.9 | 0.6 | 0.6 | 100.0 | 92.9 | 70.6 | 52 |
| Sinoe | 8.4 | 68.8 | 0.2 | 21.8 | 0.9 | 0.0 | 100.0 | 77.4 | 43.2 | 132 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 10.6 | 70.4 | 0.4 | 17.4 | 1.0 | 0.3 | 100.0 | 81.4 | 53.9 | 1,875 |
| Elementary | 10.7 | 72.6 | 0.2 | 15.4 | 0.7 | 0.3 | 100.0 | 83.6 | 50.6 | 1,350 |
| Junior high | 12.5 | 72.5 | 0.4 | 13.8 | 0.8 | 0.0 | 100.0 | 85.3 | 49.0 | 929 |
| Senior high | 14.1 | 75.1 | 0.4 | 10.1 | 0.3 | 0.0 | 100.0 | 89.6 | 47.1 | 912 |
| Higher | 22.8 | 67.3 | 0.0 | 9.3 | 0.0 | 0.5 | 100.0 | 90.1 | 51.5 | 198 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 8.3 | 67.9 | 0.3 | 22.3 | 1.1 | 0.2 | 100.0 | 76.4 | 52.4 | 1,258 |
| Second | 10.3 | 73.5 | 0.4 | 14.9 | 0.7 | 0.1 | 100.0 | 84.2 | 52.6 | 1,159 |
| Middle | 11.5 | 74.0 | 0.5 | 13.4 | 0.6 | 0.0 | 100.0 | 86.0 | 52.3 | 989 |
| Fourth | 14.3 | 70.1 | 0.4 | 14.1 | 0.6 | 0.5 | 100.0 | 84.8 | 47.5 | 1,004 |
| Highest | 17.9 | 76.0 | 0.0 | 5.5 | 0.5 | 0.1 | 100.0 | 93.9 | 48.7 | 854 |
| Total | 12.0 | 72.0 | 0.3 | 14.7 | 0.7 | 0.2 | 100.0 | 84.4 | 50.9 | 5,263 |

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation.
${ }^{1}$ Skilled provider includes doctor, nurse, midwife, and physician's assistant.
${ }^{2}$ Includes only the most recent birth in the 5 years preceding the survey

Table 9.8 Cesarean section
Percentage of live births in the 5 years preceding the survey delivered by cesarean section (C-section), percentage delivered by C-section planned before the onset of labor pains, and percentage delivered by C-section decided on after the onset of labor pains, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage delivered by C-section | Timing of decision to conduct C-section |  | Number of births |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Before onset of labor pains | After onset of labor pains |  |
| Mother's age at birth |  |  |  |  |
| <20 | 3.7 | 1.0 | 2.7 | 1,129 |
| 20-34 | 6.3 | 2.3 | 4.0 | 3,320 |
| 35-49 | 3.5 | 1.6 | 2.0 | 815 |
| Birth order |  |  |  |  |
| 1 | 5.7 | 1.5 | 4.2 | 1,423 |
| 2-3 | 5.6 | 2.6 | 3.0 | 1,866 |
| 4-5 | 6.2 | 1.9 | 4.4 | 1,134 |
| 6+ | 2.7 | 1.0 | 1.7 | 839 |
| Prenatal care visits ${ }^{1}$ |  |  |  |  |
| None | 0.5 | 0.5 | 0.0 | 69 |
| 1-3 | 3.9 | 1.3 | 2.6 | 369 |
| $4+$ | 5.8 | 2.1 | 3.7 | 3,514 |
| Don't know/missing | 3.8 | 2.4 | 1.4 | 73 |
| Place of delivery |  |  |  |  |
| Health facility | 6.6 | 2.4 | 4.3 | 4,202 |
| Public facility | 6.3 | 2.0 | 4.3 | 3,447 |
| Private facility | 7.9 | 3.9 | 4.0 | 755 |
| Residence |  |  |  |  |
| Urban | 6.4 | 2.4 | 4.0 | 2,805 |
| Greater Monrovia | 5.6 | 2.3 | 3.4 | 1,416 |
| Other urban | 7.3 | 2.6 | 4.6 | 1,388 |
| Rural | 4.0 | 1.2 | 2.7 | 2,458 |
| Region |  |  |  |  |
| North Western | 2.6 | 0.7 | 1.9 | 464 |
| South Central | 4.9 | 1.7 | 3.2 | 2,296 |
| South Eastern A | 3.8 | 1.5 | 2.3 | 333 |
| South Eastern B | 2.6 | 0.7 | 1.8 | 290 |
| North Central | 7.0 | 2.6 | 4.4 | 1,880 |
| County |  |  |  |  |
| Bomi | 2.8 | 1.2 | 1.7 | 152 |
| Bong | 7.7 | 2.2 | 5.5 | 568 |
| Gbarpolu | 1.4 | 0.8 | 0.6 | 95 |
| Grand Bassa | 3.1 | 0.3 | 2.8 | 382 |
| Grand Cape Mount | 3.0 | 0.3 | 2.7 | 217 |
| Grand Gedeh | 5.0 | 2.7 | 2.3 | 120 |
| Grand Kru | 1.3 | 0.0 | 1.3 | 104 |
| Lofa | 7.6 | 3.4 | 4.2 | 408 |
| Margibi | 6.3 | 2.3 | 4.0 | 281 |
| Maryland | 3.7 | 1.2 | 2.6 | 134 |
| Montserrado | 5.1 | 2.0 | 3.2 | 1,633 |
| Nimba | 6.4 | 2.5 | 3.9 | 904 |
| River Cess | 3.2 | 0.6 | 2.5 | 80 |
| River Gee | 2.0 | 1.1 | 0.9 | 52 |
| Sinoe | 3.2 | 1.0 | 2.2 | 132 |
| Mother's education |  |  |  |  |
| No education | 4.3 | 1.3 | 3.0 | 1,875 |
| Elementary | 5.2 | 2.0 | 3.2 | 1,350 |
| Junior high | 4.1 | 1.7 | 2.4 | 929 |
| Senior high | 6.3 | 2.3 | 4.1 | 912 |
| Higher | 16.3 | 6.2 | 10.2 | 198 |
| Wealth quintile |  |  |  |  |
| Lowest | 3.0 | 0.8 | 2.2 | 1,258 |
| Second | 5.3 | 2.0 | 3.3 | 1,159 |
| Middle | 6.0 | 2.4 | 3.6 | 989 |
| Fourth | 5.4 | 1.3 | 4.1 | 1,004 |
| Highest | 7.7 | 3.4 | 4.3 | 854 |
| Total | 5.3 | 1.9 | 3.4 | 5,263 |

Note: The question on C-section was 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.
${ }^{1}$ Includes only the most recent birth in the 5 years preceding the survey

## Table 9.9 Duration of stay in health facility after birth

Among women with a birth in the 5 years preceding the survey who delivered their most recent live birth in a health facility, percent distribution by duration of stay in the health facility following their most recent live birth, according to type of delivery, Liberia DHS 2019-20

| Type of delivery | $<6$ hours | $6-11$ hours | 12-23 hours | $1-2$ days | 3+ days | Missing | Total | Number of <br> women |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | :---: |
| Vaginal birth | 17.4 | 7.5 | 4.4 | 55.9 | 14.2 | 0.5 | 100.0 | 3,073 |
| Cesarean section | 1.8 | 0.1 | 0.0 | 5.0 | 92.9 | 0.1 | 100.0 | 220 |

Table 9.10 Timing of first postnatal check for the mother
Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution of the mother's first postnatal check for the most recent live birth by time after delivery, and percentage of women with a live birth in the 2 years preceding the survey who received a postnatal check in the first 2 days after giving birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Time after delivery of mother's first postnatal check ${ }^{1}$ |  |  |  |  |  | No postnatal check ${ }^{2}$ | Total | Percentage of women with a postnatal check during the first 2 days after birth ${ }^{1}$ | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 4 hours | 4-23 hours | 1-2 days | 3-6 days | 7-41 days | Don't know/ missing |  |  |  |  |
| Age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 64.1 | 5.4 | 4.9 | 0.0 | 0.0 | 7.2 | 18.3 | 100.0 | 74.5 | 441 |
| 20-34 | 70.0 | 6.5 | 4.4 | 0.2 | 0.6 | 5.5 | 12.6 | 100.0 | 81.0 | 1,306 |
| 35-49 | 70.4 | 5.5 | 4.5 | 0.5 | 0.0 | 8.1 | 11.0 | 100.0 | 80.4 | 349 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 64.0 | 5.4 | 4.6 | 0.0 | 0.0 | 7.4 | 18.6 | 100.0 | 74.0 | 599 |
| 2-3 | 72.2 | 8.5 | 4.5 | 0.2 | 0.0 | 5.0 | 9.6 | 100.0 | 85.2 | 751 |
| 4-5 | 72.5 | 4.4 | 4.1 | 0.7 | 0.5 | 4.2 | 13.6 | 100.0 | 81.0 | 425 |
| 6+ | 65.1 | 4.4 | 5.2 | 0.2 | 2.0 | 9.8 | 13.4 | 100.0 | 74.6 | 321 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 74.7 | 6.1 | 3.4 | 0.2 | 0.0 | 6.1 | 9.5 | 100.0 | 84.2 | 1,744 |
| Elsewhere | 39.9 | 6.3 | 10.1 | 0.5 | 2.4 | 7.0 | 33.8 | 100.0 | 56.3 | 352 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 67.0 | 7.1 | 4.1 | 0.0 | 0.4 | 7.3 | 14.0 | 100.0 | 78.2 | 1,129 |
| Greater Monrovia | 63.6 | 8.6 | 2.4 | 0.0 | 0.9 | 5.7 | 18.7 | 100.0 | 74.7 | 574 |
| Other urban | 70.5 | 5.5 | 5.8 | 0.0 | 0.0 | 9.0 | 9.2 | 100.0 | 81.8 | 555 |
| Rural | 71.0 | 5.0 | 5.1 | 0.5 | 0.4 | 5.0 | 13.0 | 100.0 | 81.1 | 967 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 67.3 | 9.1 | 4.6 | 0.2 | 0.0 | 5.6 | 13.1 | 100.0 | 81.1 | 184 |
| South Central | 65.6 | 7.0 | 4.5 | 0.1 | 0.9 | 5.5 | 16.4 | 100.0 | 77.1 | 926 |
| South Eastern A | 79.3 | 4.4 | 3.6 | 0.3 | 0.0 | 4.7 | 7.8 | 100.0 | 87.2 | 140 |
| South Eastern B | 64.4 | 8.4 | 1.7 | 0.2 | 0.1 | 4.6 | 20.6 | 100.0 | 74.4 | 112 |
| North Central | 72.0 | 4.3 | 5.2 | 0.3 | 0.0 | 8.0 | 10.1 | 100.0 | 81.5 | 733 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 77.5 | 1.0 | 8.4 | 0.0 | 0.0 | 0.9 | 12.3 | 100.0 | 86.9 | 58 |
| Bong | 65.0 | 7.4 | 10.9 | 0.0 | 0.0 | 6.9 | 9.8 | 100.0 | 83.3 | 231 |
| Gbarpolu | 49.9 | 10.2 | 5.9 | 1.0 | 0.0 | 8.0 | 25.1 | 100.0 | 65.9 | 37 |
| Grand Bassa | 61.9 | 5.9 | 10.1 | 0.0 | 1.7 | 8.5 | 11.9 | 100.0 | 77.9 | 151 |
| Grand Cape Mount | 67.8 | 14.0 | 1.7 | 0.0 | 0.0 | 7.7 | 8.8 | 100.0 | 83.5 | 90 |
| Grand Gedeh | 71.1 | 8.5 | 4.5 | 0.0 | 0.0 | 5.6 | 10.3 | 100.0 | 84.1 | 53 |
| Grand Kru | 63.1 | 3.5 | 0.0 | 0.0 | 0.3 | 9.1 | 24.0 | 100.0 | 66.6 | 43 |
| Lofa | 79.3 | 4.1 | 2.6 | 0.5 | 0.0 | 8.3 | 5.2 | 100.0 | 86.0 | 172 |
| Margibi | 78.2 | 5.2 | 4.0 | 1.1 | 0.0 | 2.4 | 9.2 | 100.0 | 87.3 | 119 |
| Maryland | 62.7 | 12.2 | 1.8 | 0.6 | 0.0 | 2.6 | 20.1 | 100.0 | 76.7 | 48 |
| Montserrado | 64.2 | 7.5 | 3.4 | 0.0 | 0.9 | 5.3 | 18.7 | 100.0 | 75.1 | 656 |
| Nimba | 73.2 | 2.3 | 2.5 | 0.5 | 0.0 | 8.6 | 12.9 | 100.0 | 78.0 | 330 |
| River Cess | 89.1 | 0.7 | 4.2 | 0.0 | 0.0 | 0.4 | 5.7 | 100.0 | 93.9 | 32 |
| River Gee | 70.6 | 9.4 | 4.6 | 0.0 | 0.0 | 0.0 | 15.4 | 100.0 | 84.6 | 22 |
| Sinoe | 81.4 | 2.5 | 2.3 | 0.8 | 0.0 | 6.4 | 6.5 | 100.0 | 86.2 | 55 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 68.6 | 4.3 | 5.2 | 0.3 | 0.4 | 6.2 | 14.9 | 100.0 | 78.2 | 683 |
| Elementary | 70.3 | 5.5 | 3.8 | 0.3 | 0.1 | 6.2 | 13.8 | 100.0 | 79.6 | 565 |
| Junior high | 71.8 | 6.2 | 3.9 | 0.0 | 1.3 | 5.9 | 11.0 | 100.0 | 81.9 | 381 |
| Senior high | 66.9 | 8.1 | 5.3 | 0.3 | 0.0 | 5.0 | 14.4 | 100.0 | 80.3 | 388 |
| Higher | (55.8) | (16.1) | (3.8) | (0.0) | (0.0) | (15.9) | (8.5) | 100.0 | (75.6) | 78 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 69.1 | 5.1 | 5.3 | 0.7 | 0.7 | 5.6 | 13.4 | 100.0 | 79.6 | 507 |
| Second | 71.2 | 4.2 | 5.3 | 0.3 | 0.0 | 6.5 | 12.4 | 100.0 | 80.8 | 444 |
| Middle | 69.2 | 6.9 | 3.0 | 0.0 | 0.0 | 7.1 | 13.8 | 100.0 | 79.1 | 394 |
| Fourth | 66.2 | 4.8 | 5.5 | 0.0 | 1.2 | 7.0 | 15.4 | 100.0 | 76.4 | 411 |
| Highest | 68.2 | 10.9 | 3.0 | 0.0 | 0.0 | 5.1 | 12.8 | 100.0 | 82.1 | 340 |
| Total | 68.8 | 6.1 | 4.6 | 0.2 | 0.4 | 6.3 | 13.6 | 100.0 | 79.5 | 2,096 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes women who received a check from a doctor, nurse, midwife, physician's assistant, or traditional midwife
${ }^{2}$ Includes women who received a check after 41 days

## Table 9.11 Type of provider of first postnatal check for the mother

Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution by type of provider for the mother's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Type of health provider for mother's first postnatal check |  |  |  | No postnatal check during the first 2 days after birth | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doctor/ nurse/ midwife | Physician's assistant | Traditional midwife | Other |  |  |  |
| Age at birth |  |  |  |  |  |  |  |
| <20 | 68.5 | 0.3 | 5.7 | 0.0 | 25.5 | 100.0 | 441 |
| 20-34 | 72.7 | 0.9 | 7.4 | 0.0 | 19.0 | 100.0 | 1,306 |
| 35-49 | 70.9 | 0.8 | 8.7 | 0.0 | 19.6 | 100.0 | 349 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 68.1 | 0.7 | 5.1 | 0.0 | 26.0 | 100.0 | 599 |
| 2-3 | 78.3 | 0.9 | 6.0 | 0.0 | 14.8 | 100.0 | 751 |
| 4-5 | 70.8 | 0.0 | 10.2 | 0.0 | 19.0 | 100.0 | 425 |
| $6+$ | 63.1 | 1.3 | 10.3 | 0.0 | 25.4 | 100.0 | 321 |
| Place of delivery |  |  |  |  |  |  |  |
| Health facility | 82.1 | 0.8 | 1.4 | 0.0 | 15.8 | 100.0 | 1,744 |
| Elsewhere | 19.4 | 0.4 | 36.5 | 0.0 | 43.7 | 100.0 | 352 |
| Residence |  |  |  |  |  |  |  |
| Urban | 73.4 | 0.4 | 4.4 | 0.0 | 21.8 | 100.0 | 1,129 |
| Greater Monrovia | 71.6 | 0.0 | 3.1 | 0.0 | 25.3 | 100.0 | 574 |
| Other urban | 75.3 | 0.9 | 5.7 | 0.0 | 18.2 | 100.0 | 555 |
| Rural | 69.4 | 1.1 | 10.6 | 0.0 | 18.9 | 100.0 | 967 |
| Region |  |  |  |  |  |  |  |
| North Western | 66.7 | 1.2 | 13.2 | 0.0 | 18.9 | 100.0 | 184 |
| South Central | 67.5 | 0.2 | 9.3 | 0.0 | 22.9 | 100.0 | 926 |
| South Eastern A | 77.0 | 3.5 | 6.7 | 0.0 | 12.8 | 100.0 | 140 |
| South Eastern B | 67.2 | 1.4 | 5.8 | 0.0 | 25.6 | 100.0 | 112 |
| North Central | 77.5 | 0.6 | 3.5 | 0.0 | 18.5 | 100.0 | 733 |
| County |  |  |  |  |  |  |  |
| Bomi | 76.3 | 0.0 | 10.6 | 0.0 | 13.1 | 100.0 | 58 |
| Bong | 79.5 | 0.3 | 3.6 | 0.0 | 16.7 | 100.0 | 231 |
| Gbarpolu | 40.4 | 1.7 | 23.8 | 0.0 | 34.1 | 100.0 | 37 |
| Grand Bassa | 57.3 | 0.6 | 20.0 | 0.0 | 22.1 | 100.0 | 151 |
| Grand Cape Mount | 71.2 | 1.8 | 10.5 | 0.0 | 16.5 | 100.0 | 90 |
| Grand Gedeh | 78.7 | 1.9 | 3.5 | 0.0 | 15.9 | 100.0 | 53 |
| Grand Kru | 59.7 | 0.0 | 6.9 | 0.0 | 33.4 | 100.0 | 43 |
| Lofa | 83.5 | 0.0 | 2.5 | 0.0 | 14.0 | 100.0 | 172 |
| Margibi | 70.7 | 0.9 | 15.7 | 0.0 | 12.7 | 100.0 | 119 |
| Maryland | 67.9 | 2.2 | 6.5 | 0.0 | 23.3 | 100.0 | 48 |
| Montserrado | 69.3 | 0.0 | 5.8 | 0.0 | 24.9 | 100.0 | 656 |
| Nimba | 72.9 | 1.2 | 3.8 | 0.0 | 22.0 | 100.0 | 330 |
| River Cess | 80.7 | 9.4 | 3.8 | 0.0 | 6.1 | 100.0 | 32 |
| River Gee | 79.9 | 2.4 | 2.3 | 0.0 | 15.4 | 100.0 | 22 |
| Sinoe | 73.1 | 1.6 | 11.5 | 0.0 | 13.8 | 100.0 | 55 |
| Education |  |  |  |  |  |  |  |
| No education | 68.7 | 0.6 | 8.9 | 0.0 | 21.8 | 100.0 | 683 |
| Elementary | 71.0 | 0.9 | 7.7 | 0.0 | 20.4 | 100.0 | 565 |
| Junior high | 73.7 | 0.6 | 7.5 | 0.0 | 18.1 | 100.0 | 381 |
| Senior high | 74.5 | 1.0 | 4.9 | 0.0 | 19.7 | 100.0 | 388 |
| Higher | (75.6) | (0.0) | (0.0) | (0.0) | (24.4) | 100.0 | 78 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 68.6 | 0.6 | 10.4 | 0.0 | 20.4 | 100.0 | 507 |
| Second | 70.6 | 0.9 | 9.3 | 0.0 | 19.2 | 100.0 | 444 |
| Middle | 69.8 | 1.9 | 7.5 | 0.0 | 20.9 | 100.0 | 394 |
| Fourth | 70.9 | 0.3 | 5.3 | 0.0 | 23.6 | 100.0 | 411 |
| Highest | 80.0 | 0.0 | 2.0 | 0.0 | 17.9 | 100.0 | 340 |
| Total | 71.6 | 0.7 | 7.3 | 0.0 | 20.5 | 100.0 | 2,096 |

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

Table 9.12 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, Liberia DHS 2019-20

| Background characteristic | Time after delivery of newborn's first postnatal check ${ }^{1}$ |  |  |  |  |  | No postnatal check ${ }^{2}$ | Total | Percentage of births with a postnatal check during the first 2 days after birth ${ }^{1}$ | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less than 1 hour | 1-3 hours | 4-23 hours | 1-2 days | 3-6 days | Don't know/ missing |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 18.3 | 42.8 | 4.9 | 4.7 | 1.3 | 5.4 | 22.5 | 100.0 | 70.8 | 441 |
| 20-34 | 20.5 | 46.5 | 3.6 | 5.9 | 0.7 | 5.1 | 17.7 | 100.0 | 76.4 | 1,306 |
| 35-49 | 20.5 | 49.6 | 4.6 | 3.7 | 0.2 | 6.9 | 14.5 | 100.0 | 78.4 | 349 |
| Birth order |  |  |  |  |  |  |  |  |  |  |
| 1 | 16.6 | 45.0 | 4.8 | 4.7 | 1.4 | 6.7 | 20.8 | 100.0 | 71.1 | 599 |
| 2-3 | 22.8 | 47.7 | 4.1 | 5.4 | 0.7 | 4.4 | 14.8 | 100.0 | 80.0 | 751 |
| 4-5 | 20.6 | 48.9 | 2.9 | 6.0 | 0.5 | 3.2 | 18.0 | 100.0 | 78.4 | 425 |
| $6+$ | 19.0 | 41.3 | 4.2 | 5.1 | 0.1 | 8.9 | 21.4 | 100.0 | 69.6 | 321 |
| Place of delivery |  |  |  |  |  |  |  |  |  |  |
| Health facility | 23.0 | 52.7 | 4.1 | 3.0 | 0.4 | 5.9 | 10.8 | 100.0 | 82.9 | 1,744 |
| Elsewhere | 5.1 | 14.0 | 3.6 | 16.4 | 2.8 | 3.4 | 54.8 | 100.0 | 39.1 | 352 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 16.4 | 50.3 | 4.1 | 5.9 | 0.5 | 6.2 | 16.5 | 100.0 | 76.7 | 1,129 |
| Greater Monrovia | 13.3 | 49.2 | 4.4 | 6.7 | 0.7 | 4.3 | 21.5 | 100.0 | 73.6 | 574 |
| Other urban | 19.7 | 51.5 | 3.9 | 5.0 | 0.4 | 8.2 | 11.4 | 100.0 | 80.0 | 555 |
| Rural | 24.2 | 41.4 | 4.0 | 4.6 | 1.1 | 4.7 | 20.1 | 100.0 | 74.2 | 967 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 25.1 | 39.6 | 7.7 | 5.4 | 0.5 | 5.5 | 16.2 | 100.0 | 77.7 | 184 |
| South Central | 18.8 | 41.7 | 3.9 | 6.2 | 1.2 | 4.2 | 24.0 | 100.0 | 70.6 | 926 |
| South Eastern A | 26.5 | 47.7 | 4.3 | 4.7 | 0.2 | 3.5 | 13.1 | 100.0 | 83.2 | 140 |
| South Eastern B | 25.3 | 33.9 | 8.1 | 3.8 | 1.3 | 4.3 | 23.3 | 100.0 | 71.1 | 112 |
| North Central | 18.2 | 55.2 | 2.6 | 4.4 | 0.3 | 7.7 | 11.6 | 100.0 | 80.5 | 733 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 19.6 | 56.2 | 1.0 | 2.7 | 0.0 | 3.5 | 17.0 | 100.0 | 79.5 | 58 |
| Bong | 17.0 | 47.8 | 6.1 | 10.2 | 0.4 | 4.3 | 14.2 | 100.0 | 81.1 | 231 |
| Gbarpolu | 18.5 | 26.2 | 6.3 | 12.3 | 2.4 | 4.7 | 29.6 | 100.0 | 63.3 | 37 |
| Grand Bassa | 19.8 | 35.5 | 3.7 | 4.8 | 2.9 | 5.3 | 28.0 | 100.0 | 63.8 | 151 |
| Grand Cape Mount | 31.2 | 34.3 | 12.7 | 4.3 | 0.0 | 7.2 | 10.3 | 100.0 | 82.5 | 90 |
| Grand Gedeh | 30.3 | 38.9 | 7.9 | 5.1 | 0.0 | 3.2 | 14.6 | 100.0 | 82.2 | 53 |
| Grand Kru | 18.5 | 37.1 | 5.3 | 2.3 | 1.5 | 7.3 | 28.0 | 100.0 | 63.2 | 43 |
| Lofa | 32.8 | 45.7 | 1.5 | 2.6 | 0.6 | 9.3 | 7.6 | 100.0 | 82.6 | 172 |
| Margibi | 41.7 | 24.7 | 4.6 | 4.5 | 1.3 | 2.8 | 20.3 | 100.0 | 75.6 | 119 |
| Maryland | 28.7 | 29.0 | 10.5 | 4.3 | 1.1 | 3.0 | 23.4 | 100.0 | 72.5 | 48 |
| Montserrado | 14.5 | 46.2 | 3.8 | 6.8 | 0.8 | 4.2 | 23.7 | 100.0 | 71.2 | 656 |
| Nimba | 11.5 | 65.3 | 0.8 | 1.4 | 0.0 | 9.2 | 11.8 | 100.0 | 79.0 | 330 |
| River Cess | 41.5 | 42.9 | 1.4 | 3.8 | 0.0 | 0.4 | 10.0 | 100.0 | 89.7 | 32 |
| River Gee | 31.0 | 38.5 | 8.3 | 5.8 | 1.3 | 1.2 | 14.0 | 100.0 | 83.6 | 22 |
| Sinoe | 14.1 | 59.1 | 2.4 | 4.8 | 0.5 | 5.6 | 13.4 | 100.0 | 80.4 | 55 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 17.9 | 47.1 | 3.4 | 5.0 | 0.5 | 6.4 | 19.7 | 100.0 | 73.4 | 683 |
| Elementary | 18.2 | 48.5 | 2.9 | 4.1 | 0.8 | 4.6 | 20.9 | 100.0 | 73.7 | 565 |
| Junior high | 27.2 | 38.8 | 3.9 | 7.8 | 1.4 | 3.4 | 17.5 | 100.0 | 77.7 | 381 |
| Senior high | 21.5 | 45.9 | 7.6 | 5.1 | 0.7 | 5.2 | 14.0 | 100.0 | 80.1 | 388 |
| Higher | (8.8) | (59.2) | (1.4) | (5.1) | (0.0) | (15.9) | (9.6) | 100.0 | (74.5) | 78 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 21.3 | 43.7 | 4.0 | 4.8 | 1.1 | 4.4 | 20.7 | 100.0 | 73.9 | 507 |
| Second | 22.3 | 46.1 | 2.8 | 5.3 | 1.0 | 5.6 | 17.0 | 100.0 | 76.4 | 444 |
| Middle | 21.1 | 47.7 | 5.1 | 4.0 | 0.2 | 8.1 | 13.9 | 100.0 | 77.8 | 394 |
| Fourth | 20.0 | 37.9 | 4.0 | 8.6 | 1.3 | 4.9 | 23.2 | 100.0 | 70.5 | 411 |
| Highest | 14.1 | 58.4 | 4.6 | 3.3 | 0.0 | 4.7 | 14.9 | 100.0 | 80.4 | 340 |
| Total | 20.0 | 46.2 | 4.0 | 5.3 | 0.8 | 5.5 | 18.2 | 100.0 | 75.6 | 2,096 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes newborns who received a check from a doctor, nurse, midwife, physician's assistant, or traditional midwife
${ }^{2}$ Includes newborns who received a check after the first week of life

| Table 9.13 Type of provider for the first postnatal check for the newborn |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of most recent live births in the 2 years preceding the survey by type of provider for the newborn's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |
|  | Type of health provider for newborn's first postnatal check |  |  | No postnatal check during the first 2 days after birth | Total | Number of births |
| Background characteristic | Doctor/nurse/ midwife | Physician's assistant | Traditional midwife |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |
| <20 | 66.2 | 0.4 | 4.0 | 29.2 | 100.0 | 441 |
| 20-34 | 72.9 | 0.4 | 3.1 | 23.6 | 100.0 | 1,306 |
| 35-49 | 70.6 | 0.8 | 6.6 | 21.6 | 100.0 | 349 |
| Birth order |  |  |  |  |  |  |
| 1 | 67.7 | 0.6 | 2.8 | 28.9 | 100.0 | 599 |
| 2-3 | 76.9 | 0.1 | 2.9 | 20.0 | 100.0 | 751 |
| 4-5 | 73.5 | 0.3 | 4.5 | 21.6 | 100.0 | 425 |
| $6+$ | 60.7 | 1.2 | 7.3 | 30.4 | 100.0 | 321 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 81.4 | 0.5 | 1.0 | 17.1 | 100.0 | 1,744 |
| Elsewhere | 20.1 | 0.1 | 18.3 | 60.9 | 100.0 | 352 |
| Residence |  |  |  |  |  |  |
| Urban | 73.6 | 0.2 | 2.9 | 23.3 | 100.0 | 1,129 |
| Greater Monrovia | 70.9 | 0.0 | 2.6 | 26.4 | 100.0 | 574 |
| Other urban | 76.4 | 0.5 | 3.2 | 20.0 | 100.0 | 555 |
| Rural | 68.2 | 0.8 | 5.0 | 25.8 | 100.0 | 967 |
| Region |  |  |  |  |  |  |
| North Western | 69.5 | 0.3 | 7.9 | 22.3 | 100.0 | 184 |
| South Central | 65.8 | 0.3 | 4.3 | 29.4 | 100.0 | 926 |
| South Eastern A | 76.8 | 2.4 | 3.6 | 16.8 | 100.0 | 140 |
| South Eastern B | 67.7 | 1.1 | 2.3 | 28.9 | 100.0 | 112 |
| North Central | 77.7 | 0.2 | 2.6 | 19.5 | 100.0 | 733 |
| County |  |  |  |  |  |  |
| Bomi | 74.3 | 0.0 | 5.2 | 20.5 | 100.0 | 58 |
| Bong | 78.3 | 0.3 | 2.5 | 18.9 | 100.0 | 231 |
| Gbarpolu | 44.1 | 1.8 | 17.4 | 36.7 | 100.0 | 37 |
| Grand Bassa | 54.3 | 1.2 | 7.3 | 36.2 | 100.0 | 151 |
| Grand Cape Mount | 76.7 | 0.0 | 5.8 | 17.5 | 100.0 | 90 |
| Grand Gedeh | 79.1 | 1.1 | 2.0 | 17.8 | 100.0 | 53 |
| Grand Kru | 60.7 | 0.0 | 2.4 | 36.8 | 100.0 | 43 |
| Lofa | 81.4 | 0.0 | 1.1 | 17.4 | 100.0 | 172 |
| Margibi | 70.5 | 0.9 | 4.2 | 24.4 | 100.0 | 119 |
| Maryland | 68.9 | 1.6 | 2.0 | 27.5 | 100.0 | 48 |
| Montserrado | 67.6 | 0.0 | 3.7 | 28.8 | 100.0 | 656 |
| Nimba | 75.4 | 0.3 | 3.3 | 21.0 | 100.0 | 330 |
| River Cess | 80.5 | 7.1 | 2.1 | 10.3 | 100.0 | 32 |
| River Gee | 78.6 | 2.0 | 2.9 | 16.4 | 100.0 | 22 |
| Sinoe | 72.4 | 1.1 | 6.1 | 19.6 | 100.0 | 55 |
| Mother's education |  |  |  |  |  |  |
| No education | 68.1 | 0.6 | 4.5 | 26.6 | 100.0 | 683 |
| Elementary | 69.3 | 0.8 | 3.6 | 26.3 | 100.0 | 565 |
| Junior high | 72.3 | 0.3 | 5.0 | 22.3 | 100.0 | 381 |
| Senior high | 77.3 | 0.1 | 2.7 | 19.9 | 100.0 | 388 |
| Higher | (74.5) | (0.0) | (0.0) | (25.5) | 100.0 | 78 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 67.9 | 0.7 | 5.3 | 26.1 | 100.0 | 507 |
| Second | 70.9 | 0.6 | 4.8 | 23.6 | 100.0 | 444 |
| Middle | 71.5 | 0.4 | 5.4 | 22.2 | 100.0 | 394 |
| Fourth | 67.9 | 0.3 | 2.3 | 29.5 | 100.0 | 411 |
| Highest | 79.6 | 0.3 | 0.5 | 19.6 | 100.0 | 340 |
| Total | 71.1 | 0.5 | 3.9 | 24.4 | 100.0 | 2,096 |

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

Table 9.14 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 birth and percentage with at least two signal functions performed during the first 2 days after birth, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among most recent live births in the 2 years preceding the survey, percentage for whom the selected function was performed during the first 2 days after birth: |  |  |  |  |  | Percentage with at least two signal functions performed during the first 2 days after birth | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cord examined | Temperature measured | Counseling on danger signs | Counseling on breastfeeding | Observation of breastfeeding | Weighed ${ }^{1}$ |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |
| <20 | 57.6 | 48.3 | 56.0 | 62.5 | 58.5 | 33.8 | 66.4 | 441 |
| 20-34 | 54.1 | 47.5 | 52.9 | 58.2 | 53.6 | 36.0 | 63.0 | 1,306 |
| 35-49 | 53.8 | 49.0 | 49.7 | 56.7 | 52.6 | 34.8 | 63.3 | 349 |
| Birth order |  |  |  |  |  |  |  |  |
| 1 | 57.4 | 50.5 | 58.1 | 63.3 | 61.0 | 39.8 | 66.9 | 599 |
| 2-3 | 51.9 | 46.1 | 51.3 | 55.6 | 49.5 | 31.0 | 60.9 | 751 |
| 4-5 | 57.4 | 51.0 | 52.4 | 59.9 | 55.9 | 40.5 | 65.3 | 425 |
| 6+ | 53.1 | 43.4 | 48.7 | 56.8 | 52.2 | 30.6 | 62.7 | 321 |
| Place of delivery |  |  |  |  |  |  |  |  |
| Health facility | 54.5 | 49.8 | 53.9 | 59.6 | 54.6 | 39.8 | 64.4 | 1,744 |
| Elsewhere | 56.1 | 38.7 | 49.1 | 55.1 | 53.8 | 13.5 | 60.5 | 352 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 49.5 | 46.9 | 51.0 | 54.3 | 51.4 | 41.2 | 60.2 | 1,129 |
| Greater Monrovia | 42.9 | 35.2 | 44.0 | 45.2 | 41.9 | 43.3 | 49.7 | 574 |
| Other urban | 56.4 | 59.1 | 58.3 | 63.8 | 61.1 | 38.9 | 71.1 | 555 |
| Rural | 60.9 | 49.1 | 55.5 | 64.1 | 58.2 | 28.6 | 67.9 | 967 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 51.6 | 42.3 | 50.8 | 59.3 | 49.0 | 39.3 | 60.9 | 184 |
| South Central | 49.6 | 38.7 | 47.8 | 51.8 | 49.4 | 34.7 | 58.1 | 926 |
| South Eastern A | 60.3 | 50.0 | 55.3 | 63.5 | 56.4 | 32.4 | 66.8 | 140 |
| South Eastern B | 57.3 | 51.5 | 52.5 | 53.5 | 49.1 | 49.0 | 61.3 | 112 |
| North Central | 60.7 | 60.1 | 60.0 | 67.5 | 62.8 | 33.6 | 71.4 | 733 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 41.1 | 37.8 | 36.2 | 49.2 | 47.9 | 40.9 | 52.0 | 58 |
| Bong | 72.5 | 59.5 | 63.2 | 73.2 | 64.1 | 32.6 | 77.6 | 231 |
| Gbarpolu | 38.1 | 29.9 | 38.3 | 55.4 | 43.0 | 23.4 | 51.5 | 37 |
| Grand Bassa | 67.0 | 51.4 | 59.7 | 75.5 | 74.3 | 24.2 | 83.3 | 151 |
| Grand Cape Mount | 63.9 | 50.2 | 65.3 | 67.6 | 52.1 | 44.8 | 70.5 | 90 |
| Grand Gedeh | 64.3 | 47.4 | 54.7 | 71.6 | 65.2 | 50.5 | 74.8 | 53 |
| Grand Kru | 54.0 | 49.1 | 51.8 | 51.7 | 48.5 | 34.6 | 57.5 | 43 |
| Lofa | 64.1 | 64.3 | 68.3 | 70.6 | 67.7 | 43.3 | 72.6 | 172 |
| Margibi | 43.8 | 36.5 | 45.5 | 52.8 | 47.1 | 21.2 | 56.5 | 119 |
| Maryland | 50.1 | 47.9 | 43.4 | 42.8 | 37.2 | 59.0 | 55.3 | 48 |
| Montserrado | 46.6 | 36.2 | 45.5 | 46.2 | 44.1 | 39.6 | 52.6 | 656 |
| Nimba | 50.7 | 58.2 | 53.3 | 61.9 | 59.4 | 29.3 | 66.5 | 330 |
| River Cess | 52.6 | 38.0 | 48.6 | 52.4 | 52.4 | 35.1 | 53.1 | 32 |
| River Gee | 79.0 | 63.8 | 73.5 | 79.8 | 75.7 | 54.9 | 81.6 | 22 |
| Sinoe | 60.8 | 59.4 | 59.8 | 62.0 | 50.3 | 13.1 | 66.9 | 55 |
| Mother's education |  |  |  |  |  |  |  |  |
| No education | 53.5 | 46.8 | 51.5 | 60.1 | 53.4 | 28.7 | 63.4 | 683 |
| Elementary | 57.8 | 49.1 | 53.6 | 60.7 | 54.5 | 32.1 | 66.4 | 565 |
| Junior high | 55.7 | 52.9 | 60.3 | 63.6 | 62.5 | 40.2 | 66.4 | 381 |
| Senior high | 51.4 | 43.9 | 48.4 | 49.0 | 47.7 | 44.2 | 58.1 | 388 |
| Higher | (56.4) | (45.1) | (51.0) | (60.0) | (59.5) | (49.6) | (63.4) | 78 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 63.1 | 54.8 | 59.3 | 65.7 | 60.8 | 29.0 | 71.3 | 507 |
| Second | 55.9 | 47.3 | 52.4 | 62.3 | 57.1 | 31.8 | 66.9 | 444 |
| Middle | 54.2 | 50.0 | 53.1 | 59.4 | 54.6 | 32.6 | 63.9 | 394 |
| Fourth | 46.4 | 44.6 | 47.4 | 52.2 | 48.8 | 38.6 | 58.4 | 411 |
| Highest | 51.7 | 40.0 | 51.3 | 51.6 | 48.7 | 48.9 | 54.8 | 340 |
| Total | 54.8 | 47.9 | 53.1 | 58.9 | 54.5 | 35.4 | 63.8 | 2,096 |

[^12]
## Table 9.15 Cord cutting

Among most recent births in the 2 years preceding the survey that were delivered outside a health facility, percent distribution by instrument used to cut the umbilical cord, and percentage with umbilical cord cut with a clean instrument, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Instrument used to cut the cord |  |  |  |  | Percentage with cord cut with clean instrument ${ }^{2}$ | Number of most recent live births delivered outside a facility in the past 2 years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New metal instrument ${ }^{1}$ | Used metal instrument, boiled ${ }^{1}$ | Used metal instrument, not boiled ${ }^{1}$ | Other instrument | Total |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |
| <20 | 62.0 | 0.0 | 0.0 | 38.0 | 100.0 | 62.0 | 72 |
| 20-34 | 64.8 | 0.6 | 1.4 | 33.2 | 100.0 | 65.4 | 220 |
| 35-49 | 74.3 | 1.2 | 0.0 | 24.5 | 100.0 | 75.5 | 60 |
| Birth order |  |  |  |  |  |  |  |
| 1 | 48.2 | 0.0 | 0.0 | 51.8 | 100.0 | 48.2 | 88 |
| 2-3 | 76.0 | 0.0 | 2.7 | 21.3 | 100.0 | 76.0 | 100 |
| 4-5 | 65.6 | 1.5 | 0.3 | 32.6 | 100.0 | 67.1 | 89 |
| 6+ | 73.4 | 0.9 | 0.0 | 25.7 | 100.0 | 74.3 | 76 |
| Residence |  |  |  |  |  |  |  |
| Urban | 52.9 | 0.0 | 0.2 | 46.9 | 100.0 | 52.9 | 148 |
| Greater Monrovia | (52.8) | (0.0) | (0.0) | (47.2) | 100.0 | (52.8) | 101 |
| Other urban | 53.1 | 0.0 | 0.6 | 46.3 | 100.0 | 53.1 | 47 |
| Rural | 75.3 | 1.0 | 1.3 | 22.3 | 100.0 | 76.3 | 204 |
| Region |  |  |  |  |  |  |  |
| North Western | 70.6 | 1.0 | 0.0 | 28.4 | 100.0 | 71.6 | 40 |
| South Central | 61.5 | 0.5 | 0.0 | 38.0 | 100.0 | 62.0 | 221 |
| South Eastern A | 74.4 | 0.0 | 1.3 | 24.3 | 100.0 | 74.4 | 23 |
| South Eastern B | 74.2 | 0.0 | 7.4 | 18.4 | 100.0 | 74.2 | 21 |
| North Central | 74.5 | 1.2 | 2.5 | 21.8 | 100.0 | 75.7 | 47 |
| County |  |  |  |  |  |  |  |
| Bomi | * | * | * | * | 100.0 | * | 10 |
| Bong | (80.6) | (0.0) | (0.0) | (19.4) | 100.0 | (80.6) | 29 |
| Gbarpolu | (87.3) | (2.4) | (0.0) | (10.3) | 100.0 | (89.7) | 17 |
| Grand Bassa | 84.6 | 0.0 | 0.0 | 15.4 | 100.0 | 84.6 | 56 |
| Grand Cape Mount | * | * | * | * | 100.0 | * | 14 |
| Grand Gedeh | * | * | * | ** | 100.0 | * | 7 |
| Grand Kru | (60.3) | (0.0) | (7.6) | (32.1) | 100.0 | (60.3) | 9 |
| Lofa | * | * | * |  | 100.0 |  | 2 |
| Margibi | (53.5) | (3.7) | (0.0) | (42.8) | 100.0 | (57.2) | 29 |
| Maryland | (86.6) | (0.0) | (8.3) | (5.1) | 100.0 | (86.6) | 10 |
| Montserrado | 53.7 | 0.0 | 0.0 | 46.3 | 100.0 | 53.7 | 136 |
| Nimba | * | * | * | * | 100.0 | * | 16 |
| River Cess | * | * | * | * | 100.0 | * | 3 |
| River Gee | * | * | * | * | 100.0 | * | 1 |
| Sinoe | (80.1) | (0.0) | (0.0) | (19.9) | 100.0 | (80.1) | 13 |
| Mother's education |  |  |  |  |  |  |  |
| No education | 78.3 | 0.9 | 0.5 | 20.3 | 100.0 | 79.2 | 142 |
| Elementary | 67.5 | 0.7 | 1.0 | 30.8 | 100.0 | 68.2 | 103 |
| Junior high | 49.0 | 0.0 | 1.9 | 49.1 | 100.0 | 49.0 | 62 |
| Senior high | * | * | * | * | 100.0 | * | 40 |
| Higher | * | * | * | * | 100.0 | * | 4 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 81.7 | 1.2 | 2.3 | 14.7 | 100.0 | 83.0 | 118 |
| Second | 72.7 | 0.0 | 0.4 | 26.9 | 100.0 | 72.7 | 69 |
| Middle | 66.1 | 0.9 | 0.0 | 33.0 | 100.0 | 67.0 | 60 |
| Fourth | (34.3) | (0.0) | (0.0) | (65.7) | 100.0 | (34.3) | 78 |
| Highest | * | * | * | * | 100.0 | * | 26 |
| Total | 65.9 | 0.6 | 0.9 | 32.7 | 100.0 | 66.5 | 352 |

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.
${ }^{1}$ Razor blade, knife, or scissors
${ }^{2}$ Clean instruments are new metal instruments and used metal instruments that were boiled.

Table 9.16 Cord care
Among most recent live births in the 2 years preceding the survey, percentage with different substances applied to the stump of the umbilical cord, and percentage with nothing harmful applied to the umbilical cord, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Substances applied to the cord |  |  |  | Percentage with nothing harmful applied to the cord ${ }^{3}$ | $\begin{gathered} \text { Number of } \\ \text { births } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nothing | Chlorhexidine | Other antiseptic ${ }^{1}$ | Other substance ${ }^{2}$ |  |  |
| Mother's age at birth |  |  |  |  |  |  |
| <20 | 21.1 | 4.4 | 37.0 | 37.5 | 62.5 | 441 |
| 20-34 | 24.4 | 5.6 | 37.1 | 32.9 | 67.1 | 1,306 |
| 35-49 | 25.3 | 6.2 | 38.5 | 30.0 | 70.0 | 349 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 23.5 | 6.2 | 37.6 | 32.7 | 67.3 | 1,744 |
| Public facility | 22.4 | 7.2 | 38.3 | 32.1 | 67.9 | 1,441 |
| Private facility | 28.4 | 1.7 | 34.3 | 35.7 | 64.3 | 303 |
| Elsewhere | 25.7 | 1.7 | 36.1 | 36.5 | 63.5 | 352 |
| Birth order |  |  |  |  |  |  |
| 1 | 23.4 | 3.8 | 34.9 | 38.0 | 62.0 | 599 |
| 2-3 | 27.1 | 5.3 | 38.4 | 29.2 | 70.8 | 751 |
| 4-5 | 20.2 | 7.6 | 34.5 | 37.7 | 62.3 | 425 |
| 6+ | 21.9 | 6.1 | 43.2 | 28.8 | 71.2 | 321 |
| Residence |  |  |  |  |  |  |
| Urban | 27.8 | 3.8 | 32.8 | 35.6 | 64.4 | 1,129 |
| Greater Monrovia | 34.8 | 0.7 | 30.2 | 34.3 | 65.7 | 574 |
| Other urban | 20.6 | 7.1 | 35.4 | 36.9 | 63.1 | 555 |
| Rural | 19.2 | 7.3 | 42.6 | 30.8 | 69.2 | 967 |
| Region |  |  |  |  |  |  |
| North Western | 21.3 | 7.1 | 42.1 | 29.5 | 70.5 | 184 |
| South Central | 26.4 | 1.8 | 36.2 | 35.7 | 64.3 | 926 |
| South Eastern A | 12.7 | 12.0 | 49.9 | 25.4 | 74.6 | 140 |
| South Eastern B | 24.0 | 22.7 | 31.1 | 22.2 | 77.8 | 112 |
| North Central | 23.4 | 5.8 | 36.2 | 34.7 | 65.3 | 733 |
| County |  |  |  |  |  |  |
| Bomi | 8.5 | 11.6 | 38.2 | 41.8 | 58.2 | 58 |
| Bong | 12.6 | 11.8 | 50.7 | 24.9 | 75.1 | 231 |
| Gbarpolu | 33.9 | 5.5 | 35.1 | 25.5 | 74.5 | 37 |
| Grand Bassa | 9.0 | 3.9 | 60.1 | 27.0 | 73.0 | 151 |
| Grand Cape Mount | 24.5 | 4.8 | 47.5 | 23.2 | 76.8 | 90 |
| Grand Gedeh | 19.8 | 17.2 | 40.4 | 22.6 | 77.4 | 53 |
| Grand Kru | 38.1 | 24.4 | 13.2 | 24.3 | 75.7 | 43 |
| Lofa | 31.2 | 1.6 | 31.5 | 35.7 | 64.3 | 172 |
| Margibi | 14.9 | 5.8 | 37.1 | 42.2 | 57.8 | 119 |
| Maryland | 19.0 | 19.3 | 41.0 | 20.8 | 79.2 | 48 |
| Montserrado | 32.4 | 0.6 | 30.5 | 36.5 | 63.5 | 656 |
| Nimba | 26.8 | 3.8 | 28.4 | 41.0 | 59.0 | 330 |
| River Cess | 7.6 | 1.4 | 65.2 | 25.8 | 74.2 | 32 |
| River Gee | 7.8 | 26.7 | 44.4 | 21.2 | 78.8 | 22 |
| Sinoe | 8.7 | 13.1 | 50.2 | 28.0 | 72.0 | 55 |
| Mother's education |  |  |  |  |  |  |
| No education | 23.3 | 6.5 | 39.0 | 31.2 | 68.8 | 683 |
| Elementary | 19.3 | 6.9 | 36.5 | 37.3 | 62.7 | 565 |
| Junior high | 24.1 | 5.3 | 35.3 | 35.4 | 64.6 | 381 |
| Senior high | 31.2 | 2.6 | 38.0 | 28.2 | 71.8 | 388 |
| Higher | (23.6) | (1.0) | (35.1) | (40.2) | (59.8) | 78 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 20.4 | 7.2 | 38.8 | 33.6 | 66.4 | 507 |
| Second | 19.8 | 6.4 | 39.1 | 34.6 | 65.4 | 444 |
| Middle | 22.4 | 6.0 | 39.6 | 32.1 | 67.9 | 394 |
| Fourth | 27.0 | 5.6 | 32.9 | 34.6 | 65.4 | 411 |
| Highest | 32.1 | 0.9 | 35.5 | 31.6 | 68.4 | 340 |
| Total | 23.8 | 5.5 | 37.3 | 33.4 | 66.6 | 2,096 |

Note: Mothers can report more than one substance applied to the stump of the umbilical cord. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes alcohol, spirit, or gentian violet
${ }^{2}$ Includes mustard oil, ash, animal dung, or other substances
${ }^{3}$ Either nothing applied to the cord or nothing other than chlorhexidine or another antiseptic applied

Table 9.17 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, Liberia DHS 2019-20

| Background characteristic | Problems in accessing health care |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Getting permission to go for treatment | Getting money for treatment | Distance to health facility | Not wanting to go alone | At least one problem accessing health care | Number of women |
| Age |  |  |  |  |  |  |
| 15-19 | 16.9 | 33.8 | 25.8 | 22.2 | 43.8 | 1,657 |
| 20-34 | 13.3 | 33.9 | 26.6 | 16.6 | 41.8 | 3,993 |
| 35-49 | 14.3 | 41.6 | 32.9 | 20.2 | 50.0 | 2,415 |
| Number of living children |  |  |  |  |  |  |
| 0 | 14.5 | 32.6 | 23.7 | 18.4 | 42.1 | 1,916 |
| 1-2 | 12.4 | 33.4 | 25.1 | 16.2 | 41.1 | 3,023 |
| 3-4 | 15.8 | 40.1 | 33.1 | 20.2 | 48.0 | 1,832 |
| 5+ | 16.6 | 42.6 | 35.9 | 23.8 | 51.9 | 1,294 |
| Marital status |  |  |  |  |  |  |
| Never married | 13.8 | 34.3 | 23.5 | 16.7 | 41.2 | 3,129 |
| Married or living together | 15.3 | 36.3 | 31.6 | 20.3 | 46.2 | 4,216 |
| Divorced/separated/ widowed | 10.9 | 43.7 | 29.6 | 19.5 | 50.4 | 721 |
| Employed last 12 months |  |  |  |  |  |  |
| Not employed | 15.3 | 36.2 | 26.6 | 18.5 | 44.1 | 2,881 |
| Employed for cash | 9.3 | 30.6 | 23.2 | 15.1 | 39.0 | 3,414 |
| Employed not for cash | 22.6 | 47.0 | 40.9 | 26.6 | 56.4 | 1,770 |
| Residence |  |  |  |  |  |  |
| Urban | 11.3 | 30.0 | 18.2 | 11.8 | 36.0 | 5,023 |
| Greater Monrovia | 8.6 | 26.1 | 14.7 | 9.1 | 30.8 | 2,866 |
| Other urban | 14.9 | 35.3 | 22.9 | 15.4 | 42.9 | 2,157 |
| Rural | 19.4 | 46.4 | 45.0 | 30.4 | 58.9 | 3,042 |
| Region |  |  |  |  |  |  |
| North Western | 17.2 | 52.5 | 47.2 | 30.4 | 66.9 | 621 |
| South Central | 11.2 | 30.8 | 18.8 | 10.7 | 36.7 | 4,105 |
| South Eastern A | 8.2 | 26.9 | 28.8 | 16.0 | 38.6 | 458 |
| South Eastern B | 23.0 | 47.3 | 42.0 | 30.5 | 56.5 | 441 |
| North Central | 18.6 | 40.9 | 37.0 | 28.1 | 51.3 | 2,439 |
| County |  |  |  |  |  |  |
| Bomi | 17.2 | 56.9 | 39.1 | 24.1 | 66.3 | 249 |
| Bong | 19.7 | 42.5 | 32.5 | 22.1 | 49.3 | 796 |
| Gbarpolu | 9.2 | 53.5 | 70.3 | 43.7 | 74.8 | 112 |
| Grand Bassa | 19.9 | 40.8 | 30.2 | 9.7 | 50.4 | 467 |
| Grand Cape Mount | 20.6 | 47.8 | 45.0 | 30.7 | 64.0 | 260 |
| Grand Gedeh | 6.8 | 29.1 | 24.5 | 8.2 | 37.8 | 172 |
| Grand Kru | 32.9 | 57.8 | 54.3 | 45.6 | 67.3 | 136 |
| Lofa | 17.8 | 51.2 | 49.1 | 37.9 | 63.0 | 658 |
| Margibi | 5.7 | 39.2 | 16.8 | 9.8 | 46.7 | 441 |
| Maryland | 22.9 | 53.5 | 43.7 | 29.3 | 62.9 | 215 |
| Montserrado | 10.7 | 28.1 | 17.4 | 10.9 | 33.4 | 3,197 |
| Nimba | 18.2 | 32.8 | 32.6 | 26.4 | 45.1 | 985 |
| River Cess | 20.0 | 51.8 | 47.1 | 38.6 | 60.5 | 104 |
| River Gee | 8.5 | 16.9 | 19.4 | 11.0 | 25.3 | 91 |
| Sinoe | 2.7 | 10.7 | 22.4 | 10.4 | 26.9 | 182 |
| Education |  |  |  |  |  |  |
| No education | 17.7 | 43.4 | 37.4 | 25.4 | 51.7 | 2,474 |
| Elementary | 17.4 | 40.8 | 34.4 | 24.9 | 51.0 | 1,911 |
| Junior high | 14.2 | 31.8 | 23.5 | 15.0 | 40.4 | 1,445 |
| Senior high | 9.0 | 28.0 | 17.0 | 9.4 | 35.2 | 1,761 |
| Higher | 4.8 | 23.8 | 12.9 | 7.0 | 30.1 | 474 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 20.6 | 49.1 | 48.9 | 36.1 | 62.4 | 1,379 |
| Second | 18.3 | 44.0 | 40.8 | 27.4 | 55.2 | 1,431 |
| Middle | 16.6 | 40.1 | 29.9 | 18.9 | 48.4 | 1,517 |
| Fourth | 12.1 | 31.4 | 15.8 | 10.0 | 37.2 | 1,829 |
| Highest | 7.2 | 22.6 | 14.8 | 8.4 | 28.0 | 1,910 |
| Total | 14.3 | 36.2 | 28.3 | 18.8 | 44.7 | 8,065 |

## Key Findings

- Vaccinations: $51 \%$ of children age 12-23 months and $44 \%$ of children age 24-35 months had received all basic vaccinations by the time of the survey. Six percent of children age 12-23 months and 7\% of those age 24-35 months did not receive any vaccinations.
- Symptoms of acute respiratory infection (ARI): Advice or treatment was sought for $78 \%$ of children under age 5 who had symptoms of ARI in the 2 weeks before the survey.
- Fever: Advice or treatment was sought for $81 \%$ of children under age 5 who had a fever in the 2 weeks before the survey.
- Diarrhea: Advice or treatment was sought for $66 \%$ of children under age 5 who had diarrhea in the 2 weeks before the survey. Sixty-six percent of children with diarrhea received ORT, and $23 \%$ received zinc. Twelve percent of children with diarrhea received no treatment.

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

This chapter presents information on birth weight and vaccination status for young children. It also looks at the prevalence of, and treatment practices for, three common childhood illnesses: symptoms of acute respiratory infection (ARI), fever, and diarrhea. Because appropriate sanitary practices can help prevent and reduce the severity of diarrheal disease, information is also provided on the disposal of children's fecal matter.

### 10.1 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 5 years before the survey that have a reported birth weight, from either a written record or the mother's report

A birth weight less than 2.5 kg is the most commonly used indicator of fetal growth. Low birth weight contributes to prenatal and neonatal mortality and morbidity, childhood stunting, impaired cognitive development, and chronic diseases later in life (Standing Committee on Nutrition 2014).

In the 2019-20 LDHS, information on birth weight was collected through either a written record or the mother's recall. The mother's estimate of the infant's size at birth was also obtained because birth weight is unknown for many infants. Although the mother's estimate of size at birth is subjective, it can be a useful proxy for the child's weight. Only $30 \%$ of births in the 5 years preceding the survey had a reported birth weight. Of the children with known birth weights, $10 \%$ weighed less than 2.5 kg at birth (Table 10.1). Mothers reported $6 \%$ of births as very small, $9 \%$ as smaller than average, and $86 \%$ as average or larger than average.

### 10.2 Vaccination of Children

Universal immunization of children against common vaccine-preventable diseases is crucial in reducing infant and child mortality. In Liberia, routine childhood vaccines include BCG (tuberculosis), DPT-HepB-Hib or pentavalent (diphtheria, tetanus, pertussis, hepatitis B , and Haemophilus influenzae type b), oral polio vaccine or OPV (poliomyelitis), inactivated polio vaccine or IPV (poliomyelitis), pneumococcal, rotavirus, measles, and yellow fever.

In Liberia, the BCG vaccine is usually given immediately after birth. A birth dose of the oral polio vaccine (polio 0 ) is given within 7 days after birth, while the first two doses of the pentavalent, pneumococcal, rotavirus, and oral polio vaccines (excluding polio 0 ) are given at approximately age 6 and 10 weeks. The third doses of the pentavalent, pneumococcal, and oral polio vaccines are given at 14 weeks, at which time IPV is also given. The measles and yellow fever vaccinations should be given at age 9 months.

Historically, an important measure of vaccination coverage has been the proportion of children receiving all "basic" vaccinations. Children are considered to have received all basic vaccinations if they have received the BCG vaccine, three doses each of DPT-containing and polio vaccines, and a single dose of the measles vaccine.

## All basic vaccinations coverage

Percentage of children age 12-23 months 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 vaccinations, a child must receive at least:

- One dose of BCG vaccine, which protects against tuberculosis
- Three doses of DPT-containing vaccine, which protects against diphtheria, pertussis (whooping cough), and tetanus
- Three doses of polio vaccine
- One dose of measles vaccine

Sample: Living children age 12-23 months

Information on vaccination coverage was obtained in two ways in the 2019-20 LDHS: from written vaccination records, including vaccination or "road to health cards," and from verbal reports. For each child born in the 3 years before the survey, mothers were asked to show the interviewer the vaccination card or other document used for recording the child's vaccinations. 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 each of the routine vaccines on the national immunization schedule. If she indicated that the child had received any of the multi-dose vaccines, she was asked the number of doses the child received. Thus, the data presented below on vaccination coverage are based on both information taken from the health cards and information obtained from mothers' reports.

Fifty-one percent of children age 12-23 months and $44 \%$ of children age $24-35$ months received all basic vaccinations, and $46 \%$ of those age 12-23 months and $39 \%$ of those age $24-35$ months received all basic vaccinations by age 12 months (Table 10.2).

A second measure of vaccination coverage is the percentage of children age 12-23 months and 24-35 months who have received all age-appropriate vaccinations. The Liberian immunization program considers a child to have received all age-appropriate vaccinations if the child has received all basic vaccinations along with a birth dose of OPV, a dose of IPV, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, ${ }^{1}$ and the yellow fever vaccine. ${ }^{2}$

Thirty-nine percent of children age 12-23 months and $31 \%$ of children age 24-35 months have received all of the vaccinations appropriate for their age. ${ }^{3}$ Thirty-five percent of children age 12-23 months and $27 \%$ of those age 24-35 months received the vaccines appropriate for their age by age 12 months and by age 24 months, respectively, as recommended.

Figure 10.1 shows coverage of all age-appropriate vaccinations among children age 12-23 months. Coverage is highest for the BCG vaccine and the first dose of the DPT-HepB-Hib vaccine (91\% each). In the case of multi-dose vaccines, coverage is highest for the first dose and falls in subsequent doses. Coverage rates for the first doses of the OPV (excluding the birth dose), DPT-HepB-Hib, pneumococcal, and rotavirus vaccines are $87 \%, 91 \%, 88 \%$, and $89 \%$, respectively. Sixty-three percent of children age 12-23 months received the third dose of OPV, $69 \%$ each received the third dose of DPT-HepB-Hib and the third dose of pneumococcal, and 77\% received the second dose of rotavirus. This represents at least a 20-percentage-point difference between the first and third doses of OPV, DPT-HepB-Hib, and pneumococcal and a 12-percentage-point difference for rotavirus. Seventy-four percent of children age 12-23 months received the measles vaccine, and $70 \%$ received the yellow fever vaccine.

A similar pattern is observed among children age 24-35 months, although coverage for first doses tends to be slightly lower than that reported among children age 12-23 months (Table 10.2).

Figure 10.1 Childhood vaccinations


Overall, $6 \%$ of children age 12-23 months and $7 \%$ of those age $24-35$ months were reported not to have received any vaccinations.

[^13]
## Vaccination Card Ownership and Availability

A vaccination card is an important tool for ensuring that a child receives all recommended vaccinations on schedule. Ninety-two percent of children age 12-23 months and $91 \%$ of children age $24-35$ months have ever had a vaccination card. However, not all mothers were able to produce their child's vaccination card at the time of the interview; overall, $65 \%$ of children age 12-23 months and $51 \%$ of children age $24-35$ months had vaccination cards available at the time of the interview (Table 10.3).

Trends: The percentage of children age 12-23 months in Liberia who have received all basic vaccination has fluctuated over time, increasing from $39 \%$ in 2007 to $55 \%$ in 2013 , then declining to $45 \%$ in 2016, and subsequently rising to $51 \%$ in 2019-20 (Figure 10.2). Over the same period, the percentage of children who have received no vaccinations dropped from $12 \%$ in 2007 to a low of $2 \%$ in 2013 before rising to $6 \%$ in 2019-20.

Patterns by background characteristics

- Among children age 12-23 months, basic vaccination coverage is modestly higher among boys than among girls (52\% versus 49\%) (Table

Figure 10.2 Trends in childhood vaccinations

Percentage of children age 12-23 months who received all basic vaccinations at any time before the survey 10.4).

- Basic vaccination coverage is higher among children whose vaccination card was seen than among those whose card was not seen ( $73 \%$ versus $10 \%$ ). None of the children whose vaccination card was seen were reported to have not received any vaccinations.
- By county, basic vaccination coverage is highest in Lofa (66\%) and lowest in Sinoe (27\%) (Figure 10.3).
- Coverage rates do not exhibit a strong relationship with either mother's education or household wealth other than being lowest among children in the poorest households.

Figure 10.3 Vaccination coverage by county
Percentage of children age 12-23 months who received all
basic vaccinations at any time before the survey


### 10.3 Symptoms of Acute Respiratory Infection

Acute respiratory infection (predominantly pneumonia) is a common cause of death in young children. Caregivers are advised that a young child with a cough and/or difficult breathing should be taken to a health facility promptly.

## Treatment of 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

Four percent of children under age 5 had ARI symptoms in the 2 weeks before the survey. Advice or treatment was sought for $78 \%$ of children with ARI symptoms, and $33 \%$ of these children were taken for advice or treatment the same day or the day after their symptoms appeared (Table 10.5). The most common places from which advice or treatment was sought were government health clinics, government hospitals, pharmacies, and private hospitals, centers, or clinics (Table 10.6).

### 10.4 Fever

Fever is a symptom of malaria but is also associated with other childhood illnesses that may contribute to high levels of malnutrition, morbidity, and mortality in young children. Information about malaria is discussed in detail in Chapter 12.

## Treatment of fever

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

Among children under age 5, $25 \%$ were reported to have a fever in the 2 weeks before the survey. Advice or treatment was sought for $81 \%$ of children with fever, and $35 \%$ of children with fever took antibiotic drugs (Table 10.7).

Trends: The percentage of children with a fever for whom advice or treatment was sought has increased slightly over time, rising from $75 \%$ in 2007 to $78 \%$ in 2013 and 81\% in 2019-20.

### 10.5 Diarrheal Disease

In Liberia, diarrhea is a leading cause of child illness; in 2017, diarrhea was estimated to be responsible for 8\% of deaths among children in the country under age 5 (UNICEF 2020). Oral rehydration therapy (ORT) and supplemental zinc, combined with continued feeding, are the recommended interventions for treating diarrhea.

### 10.5.1 Prevalence of Diarrhea and Treatment-seeking Behavior

Sixteen percent of children under age 5 had diarrhea in the 2 weeks before the survey. Treatment or advice was sought for $66 \%$ of children who had diarrhea (Table 10.8).

## Patterns by background characteristics

- The prevalence of diarrhea peaks among children age 6-23 months ( $23 \%-25 \%$ ). This corresponds to the time when children start losing protection from maternal antibodies through breastfeeding, begin to crawl and walk, and are at increased risk of contamination from the food, water, and the environment.
- By county, diarrhea prevalence ranges from $7 \%$ in Lofa to $25 \%$ in Grand Bassa.
- Advice or treatment was more likely to be sought for male children with diarrhea than female children ( $69 \%$ and $63 \%$, respectively).


### 10.5.2 Feeding Practices

## Appropriate feeding practices

Children with diarrhea are given more liquids than usual and as much food or more than usual.
Sample: Children under age 5 with diarrhea in the 2 weeks before the survey

To reduce dehydration and minimize the effects of diarrhea on nutritional status, mothers are encouraged to continue normal feeding of children with diarrhea and to increase the amount of fluids given.

Only $33 \%$ of children under age 5 with diarrhea in the 2 weeks before the survey were given more liquids than usual, as recommended. Twenty-nine percent received the same amount of liquids. It is of concern that $31 \%$ of children were given somewhat less or much less fluid than usual, and $6 \%$ were given no fluid at all (Figure 10.4 and Table 10.9).

Forty-five percent of children with diarrhea were fed according to the recommended practice of giving the

Figure 10.4 Feeding practices during diarrhea
Percentage of children under age 5 with diarrhea in the 2 weeks before the survey

(compared to usual)

usual) same amount of food ( $31 \%$ ) or more food than usual ( $14 \%$ ). Forty-six percent of children were given somewhat less or much less food than usual, and $3 \%$ were given no food.

### 10.5.3 Oral Rehydration Therapy and Other Treatments

## Oral rehydration therapy

Children with diarrhea 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 diarrhea in the 2 weeks before the survey

As noted, all children with diarrhea should receive increased fluids, continued feeding, and oral zinc. Sixtysix percent of children received ORT, with $33 \%$ receiving increased fluids, $54 \%$ receiving ORS packets, and $9 \%$ receiving recommended home fluids (Figure 10.5). Forty-four percent of children received ORT and continued feeding, and $23 \%$ of children received zinc. Twelve percent of children received no treatment.

Trends: The percentage of children under age 5 with diarrhea in the 2 weeks before the survey who received ORT decreased from $76 \%$ in 2013 to $66 \%$ in 2019-20; however, during the same period, the percentage of children with diarrhea who received zinc supplements increased from $3 \%$ to $23 \%$.

## Patterns by background characteristics

- Children in Greater Monrovia (36\%) were more likely to receive zinc than children in other urban areas ( $20 \%$ ) or children in rural areas (19\%) (Table 10.10).
- By region, the percentage of children who were given the recommended treatment of ORS and zinc was highest in North Western (29\%) and lowest in North Central (10\%).

Among children with diarrhea for whom advice or treatment was sought, the most common source of advice or treatment was a pharmacy or a government health clinic (29\% each) (Table 10.11).

### 10.5.4 Knowledge of ORS Packets

Almost all women (98\%) in Liberia know of ORS packets (Table 10.12). Knowledge is uniformly high across all background characteristics.

### 10.6 Treatment of Childhood Illness

Fever ( $25 \%$ ) was the most common illness reported among children under age 5 during the 2 weeks before the survey, followed by diarrhea ( $16 \%$ ) and symptoms of ARI (4\%). Advice or treatment was sought for $81 \%$ of children with a fever, $78 \%$ of children with ARI symptoms, and $66 \%$ of children with diarrhea (Figure 10.6).

Figure 10.6 Prevalence and treatment of childhood illness

Among those with illness, percentage for whom advice or treatment was sought


### 10.7 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 buried, 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 the spread of diseases. Only $24 \%$ of children under age 2 living with their mother had their last stool disposed of appropriately (Table 10.13). The two most common methods of disposing of children's stools are to throw them into the garbage (35\%) and to put/rinse them into a drain or ditch ( $21 \%$ ); neither of these disposal methods is appropriate.

For more information on low birth weight, vaccinations, childhood illness, and disposal of children's stools, see the following tables:

- Table 10.1 Child's size and weight at birth
- Table 10.2 Vaccinations by source of information
- Table 10.3 Possession and observation of vaccination cards, according to background characteristics
- Table 10.4 Vaccinations by background characteristics
- Table 10.5 Prevalence and treatment of symptoms of ARI
- Table 10.6 Source of advice or treatment for children with symptoms of ARI
- Table 10.7 Prevalence and treatment of fever
- Table 10.8 Prevalence and treatment of diarrhea
- Table 10.9 Feeding practices during diarrhea
- Table 10.10 Oral rehydration therapy, zinc, and other treatments for diarrhea
- Table 10.11 Source of advice or treatment for children with diarrhea
- Table 10.12 Knowledge of ORS packets
- Table 10.13 Disposal of children's stools

Table 10.1 Child's size and weight at birth
Percent distribution of live births in the 5 years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the 5 years preceding the survey that have a reported birth weight, and among live births in the 5 years preceding the survey with a reported birth weight, percentage less than 2.5 kg , according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percent distribution of births by size of baby at birth |  |  |  |  | Percentage of births that have a reported birth weight ${ }^{1}$ | Number of births | Among births with a reported birth weight ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very small | Smaller than average | Average or larger | Don't know | Total |  |  | Percentage less than 2.5 kg | Number of births |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |
| <20 | 8.1 | 10.0 | 81.1 | 0.8 | 100.0 | 25.1 | 1,129 | 19.0 | 283 |
| 20-34 | 5.2 | 8.1 | 85.8 | 0.9 | 100.0 | 31.7 | 3,320 | 7.6 | 1,052 |
| 35-49 | 5.9 | 8.4 | 85.3 | 0.5 | 100.0 | 31.3 | 815 | 9.4 | 255 |
| Birth order |  |  |  |  |  |  |  |  |  |
| 1 | 7.9 | 9.6 | 81.2 | 1.3 | 100.0 | 31.6 | 1,423 | 13.3 | 449 |
| 2-3 | 5.4 | 7.8 | 86.0 | 0.7 | 100.0 | 29.6 | 1,866 | 8.5 | 552 |
| 4-5 | 4.7 | 8.4 | 86.3 | 0.6 | 100.0 | 32.1 | 1,134 | 7.9 | 365 |
| 6+ | 5.5 | 8.6 | 85.4 | 0.5 | 100.0 | 26.8 | 839 | 10.2 | 225 |

Mother's smoking
status
tobacco
Does not smoke

Residence
Urban
Greater Monrovia
Other urban


Other urban

Region
North Western South Central South Eastern A South Eastern B North Central

County
County
Bomi
Bong
Gbarpolu
Grand Bassa
Grand Cape Mount
Grand Gedeh
Grand Kru
Lofa
Margibi
Maryland
Montserrado
Nimba
River Cess
River Gee
Sinoe

Mother's education
No education
Elementary
Senior high
Higher
Wealth quintile

| Wealth quintile |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\quad$ Lowest | 5.7 | 9.0 | 85.0 | 0.4 | 100.0 | 23.6 | 1,258 | 7.9 |
| Second | 5.0 | 7.4 | 86.8 | 0.8 | 100.0 | 27.7 | 1,159 | 10.2 |
| Middle | 5.0 | 8.7 | 85.1 | 1.3 | 100.0 | 30.1 | 989 | 9.6 |
| Fourth | 8.3 | 10.8 | 79.8 | 1.1 | 100.0 | 31.2 | 1,004 | 11.5 |
| Highest | 6.0 | 6.8 | 86.6 | 0.6 | 100.0 | 42.4 | 821 |  |
| Total | 5.9 | 8.6 | 84.7 | 0.8 | 100.0 | 30.2 | 5,263 | 313 |

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.
${ }^{1}$ Based on either a written record or the mother's recall

Table 10.2 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, Liberia DHS 2019-20

| Vaccine | Children age 12-23 months |  |  |  | Children age 24-35 months |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vaccinated at any time before the survey according to: |  |  | Vaccinated by appropriate age ${ }^{2,3}$ | Vaccinated at any time before the survey according to: |  |  | Vaccinated by appropriate age ${ }^{2,3}$ |
|  | Vaccination card ${ }^{1}$ | Mother's report | Either source |  | Vaccination card ${ }^{1}$ | Mother's report | Either source |  |
| BCG | 62.6 | 28.0 | 90.6 | 89.3 | 50.1 | 41.3 | 91.3 | 90.7 |
| DPT-HepB-Hib |  |  |  |  |  |  |  |  |
| 1 | 63.7 | 27.8 | 91.4 | 90.9 | 50.4 | 38.8 | 89.2 | 88.8 |
| 2 | 61.7 | 21.7 | 83.4 | 82.5 | 47.1 | 28.6 | 75.7 | 75.0 |
| 3 | 56.5 | 12.7 | 69.2 | 67.8 | 44.6 | 19.0 | 63.6 | 60.2 |
| OPV |  |  |  |  |  |  |  |  |
| 0 (birth dose) | 60.1 | 26.0 | 86.1 | 85.9 | 46.8 | 35.6 | 82.4 | 82.0 |
| 1 | 63.7 | 22.8 | 86.6 | 86.0 | 50.4 | 31.5 | 81.9 | 81.6 |
| 2 | 61.6 | 16.0 | 77.6 | 76.7 | 47.5 | 21.5 | 69.0 | 68.5 |
| 3 | 57.6 | 5.6 | 63.2 | 62.0 | 45.0 | 9.3 | 54.3 | 51.9 |
| IPV | 49.6 | 25.3 | 74.9 | 72.5 | 32.5 | 38.4 | 70.9 | 67.5 |
| Pneumococcal |  |  |  |  |  |  |  |  |
| 1 | 62.7 | 25.5 | 88.3 | 87.7 | 49.3 | 38.1 | 87.4 | 87.1 |
| 2 | 60.8 | 17.8 | 78.6 | 77.7 | 46.2 | 26.1 | 72.3 | 71.6 |
| 3 | 55.7 | 12.9 | 68.5 | 66.8 | 43.5 | 18.4 | 61.9 | 59.0 |
| Rotavirus |  |  |  |  |  |  |  |  |
| 1 | 63.2 | 25.6 | 88.8 | 88.2 | 49.2 | 38.1 | 87.3 | 87.0 |
| 2 | 59.9 | 17.0 | 76.9 | 76.1 | 45.7 | 25.5 | 71.2 | 70.5 |
| Measles | 49.8 | 24.0 | 73.8 | 68.2 | 39.6 | 35.7 | 75.3 | 68.3 |
| Yellow fever ${ }^{4}$ | 47.9 | 22.3 | 70.3 | 65.3 | 38.6 | 33.2 | 71.8 | 64.4 |
| All basic vaccinations ${ }^{5}$ <br> All age-appropriate vaccinations ${ }^{6}$ | 47.2 | 3.6 | 50.8 | 45.7 | 38.1 | 5.7 | 43.8 | 39.1 |
|  | 37.3 | 2.1 | 39.4 | 34.6 | 28.1 | 3.4 | 31.4 | 27.0 |
| No vaccinations | 0.0 | 5.8 | 5.8 | na | 0.0 | 7.0 | 7.0 | na |
| Number of children | 605 | 332 | 937 | 937 | 445 | 428 | 873 | 873 |

na $=$ Not applicable
$\mathrm{BCG}=$ Bacille Calmette-Guérin
DPT = Diphtheria-pertussis-tetanus
HepB $=$ Hepatitis $B$
Hib = Haemophilus influenzae type b
IPV = Inactivated polio vaccine
OPV = Oral polio vaccine
${ }^{1}$ Vaccination card, booklet, or other home-based record
${ }^{2}$ Received by age 12 months
${ }^{3}$ For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.
${ }^{4}$ Because of a skip error that affected data collection for the yellow fever vaccination indicator, the "all age-appropriate vaccinations" indicator is missing some yellow fever vaccination data based on mothers' recall.
${ }^{5}$ BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of measles
${ }^{6}$ BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, one dose of inactivated polio vaccine, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of measles and yellow fever. Because of the skip error that affected data collection for the yellow fever vaccination indicator, the "vaccinated by appropriate age" indicator excludes some yellow fever vaccination data based on mothers' recall.

Table 10.3 Possession and observation of vaccination cards, according to background characteristics
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, Liberia DHS 2019-20

| Background characteristic | Children age 12-23 months |  |  | Children age 24-35 months |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who ever had a vaccination card ${ }^{1}$ | Percentage with a vaccination card seen ${ }^{1}$ | Number of children | Percentage who ever had a vaccination card ${ }^{1}$ | Percentage with a vaccination card seen ${ }^{1}$ | Number of children |
| Sex |  |  |  |  |  |  |
| Male | 92.5 | 66.8 | 461 | 91.7 | 52.7 | 416 |
| Female | 92.0 | 62.4 | 476 | 90.8 | 49.4 | 457 |
| Birth order |  |  |  |  |  |  |
| 1 | 95.0 | 61.6 | 239 | 91.1 | 45.7 | 219 |
| 2-3 | 91.8 | 62.2 | 360 | 90.2 | 46.9 | 298 |
| 4-5 | 92.7 | 73.3 | 170 | 94.3 | 56.2 | 217 |
| $6+$ | 89.0 | 64.9 | 169 | 88.9 | 59.6 | 140 |
| Residence |  |  |  |  |  |  |
| Urban | 93.1 | 63.7 | 484 | 93.5 | 49.5 | 450 |
| Greater Monrovia | 95.0 | 61.9 | 241 | 92.7 | 44.7 | 226 |
| Other urban | 91.3 | 65.5 | 243 | 94.3 | 54.5 | 223 |
| Rural | 91.3 | 65.4 | 453 | 88.8 | 52.5 | 423 |
| Region |  |  |  |  |  |  |
| North Western | 97.1 | 71.4 | 89 | 95.6 | 62.1 | 75 |
| South Central | 89.8 | 57.9 | 383 | 89.8 | 42.0 | 367 |
| South Eastern A | 92.3 | 65.3 | 71 | 90.7 | 46.3 | 53 |
| South Eastern B | 93.1 | 68.5 | 50 | 92.1 | 59.1 | 53 |
| North Central | 93.6 | 69.4 | 343 | 91.8 | 57.9 | 325 |
| County |  |  |  |  |  |  |
| Bomi | (97.5) | (62.9) | 30 | (95.9) | (59.0) | 26 |
| Bong | 94.7 | 68.4 | 102 | 94.7 | 52.4 | 98 |
| Gbarpolu | 100.0 | 69.7 | 18 | 100.0 | 69.9 | 17 |
| Grand Bassa | 90.5 | 67.9 | 64 | 80.9 | 36.3 | 81 |
| Grand Cape Mount | 95.5 | 78.3 | 42 | 93.0 | 60.6 | 32 |
| Grand Gedeh | 94.2 | 73.0 | 29 | (90.6) | (46.9) | 19 |
| Grand Kru | 89.5 | 63.6 | 21 | 84.7 | 44.3 | 17 |
| Lofa | 98.4 | 83.0 | 80 | 93.1 | 66.8 | 66 |
| Margibi | 75.2 | 33.3 | 50 | (85.7) | (44.2) | 31 |
| Maryland | 94.2 | 76.8 | 18 | 95.0 | 71.8 | 28 |
| Montserrado | 92.4 | 60.0 | 269 | 93.1 | 43.6 | 255 |
| Nimba | 90.4 | 63.3 | 161 | 89.5 | 57.6 | 160 |
| River Cess | 100.0 | 72.8 | 15 | (94.1) | (58.0) | 14 |
| River Gee | 98.3 | 64.5 | 11 | (97.9) | (45.4) | 8 |
| Sinoe | 85.9 | 52.8 | 27 | (88.4) | (37.3) | 20 |
| Mother's education |  |  |  |  |  |  |
| No education | 88.6 | 72.4 | 313 | 87.0 | 51.1 | 313 |
| Elementary | 94.8 | 67.4 | 276 | 92.4 | 58.8 | 236 |
| Junior high | 93.3 | 54.2 | 174 | 94.4 | 43.7 | 178 |
| Senior high | 92.6 | 50.5 | 147 | 94.0 | 50.0 | 125 |
| Higher | * | * | 28 | * | * | 21 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 90.9 | 62.5 | 258 | 87.9 | 54.1 | 198 |
| Second | 93.4 | 69.7 | 191 | 88.3 | 59.3 | 201 |
| Middle | 92.3 | 64.9 | 172 | 93.7 | 45.5 | 159 |
| Fourth | 89.3 | 60.0 | 192 | 97.2 | 47.1 | 152 |
| Highest | 97.8 | 67.2 | 123 | 90.9 | 45.8 | 162 |
| Total | 92.2 | 64.5 | 937 | 91.2 | 51.0 | 873 |

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.
${ }^{1}$ Vaccination card, booklet, road to health card, or other home-based record
Table 10.4-Continued

| Background characteristic | BCG | DPT-HepB-Hib |  |  | OPV |  |  |  | Pneumococcal |  |  |  | Rotavirus |  | Measles | Yellow fever ${ }^{2}$ | Children age 12-23 months: |  |  |  | Children age 24-35 months: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 0 (birth dose) ${ }^{1}$ | 1 | 2 | 3 | IPV | 1 | 2 | 3 | 1 | 2 |  |  | All basic vaccinations ${ }^{3}$ | All age-appropriate vaccinations ${ }^{4}$ | No vaccinations |  | All age-appropriate vaccinations ${ }^{4}$ |  |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 86.9 | 87.6 | 79.6 | 66.6 | 82.7 | 85.1 | 76.3 | 63.5 | 67.9 | 86.0 | 76.8 | 66.2 | 86.7 | 75.0 | 68.2 | 63.3 | 52.4 | 40.7 | 8.7 | 313 | 27.6 | 313 |
| Elementary | 91.8 | 91.3 | 86.0 | 69.9 | 84.7 | 90.1 | 79.9 | 66.8 | 75.0 | 85.5 | 80.1 | 68.8 | 87.6 | 78.2 | 67.6 | 63.6 | 50.6 | 36.7 | 4.9 | 276 | 35.9 | 236 |
| Junior high | 93.3 | 94.3 | 83.7 | 69.9 | 89.5 | 85.0 | 76.4 | 56.1 | 78.0 | 90.9 | 81.3 | 69.6 | 90.3 | 79.7 | 77.8 | 76.6 | 43.6 | 35.6 | 3.5 | 174 | 26.7 | 178 |
| Senior high | 91.2 | 94.9 | 85.4 | 69.5 | 89.5 | 85.0 | 75.9 | 59.8 | 81.3 | 93.0 | 74.8 | 68.3 | 91.3 | 75.7 | 87.6 | 84.6 | 49.7 | 39.3 | 4.9 | 147 | 38.3 | 125 |
| Higher | * | * | * | * | * | * | * |  | * | * | * | * | * | * | * | * | * | * | * | 28 | * | 21 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 86.7 | 88.6 | 77.3 | 59.8 | 80.7 | 84.6 | 70.7 | 54.7 | 67.0 | 85.0 | 73.2 | 60.3 | 86.2 | 69.1 | 64.0 | 59.4 | 41.9 | 30.4 | 6.5 | 258 | 27.5 | 198 |
| Second | 92.6 | 92.3 | 88.5 | 74.7 | 83.3 | 91.0 | 82.4 | 67.8 | 75.4 | 90.1 | 80.3 | 73.3 | 90.5 | 81.4 | 73.8 | 69.9 | 53.6 | 40.7 | 5.4 | 191 | 31.7 | 201 |
| Middle | 91.1 | 91.3 | 87.4 | 72.2 | 87.3 | 88.2 | 84.8 | 65.6 | 79.2 | 89.8 | 81.3 | 66.1 | 90.0 | 80.7 | 73.9 | 69.3 | 51.7 | 38.2 | 7.5 | 172 | 27.8 | 159 |
| Fourth | 89.3 | 89.3 | 82.0 | 69.7 | 86.9 | 82.5 | 73.5 | 64.0 | 72.0 | 86.7 | 81.0 | 72.0 | 83.8 | 77.6 | 78.1 | 77.6 | 55.5 | 42.6 | 7.3 | 192 | 34.3 | 152 |
| Highest | 96.9 | 99.8 | 84.6 | 75.7 | 99.0 | 87.8 | 81.0 | 69.3 | 89.4 | 92.6 | 79.6 | 76.2 | 97.5 | 80.1 | 87.2 | 83.5 | 56.5 | 52.8 | 0.0 | 123 | 36.8 | 162 |
| Total | 90.6 | 91.4 | 83.4 | 69.2 | 86.1 | 86.6 | 77.6 | 63.2 | 74.9 | 88.3 | 78.6 | 68.5 | 88.8 | 76.9 | 73.8 | 70.3 | 50.8 | 39.4 | 5.8 | 937 | 31.4 | 873 |


 $\mathrm{BCG}=$ Bacille Calmette-Guérin
HepB = Hepatitis B
Hib = Haemophilus influenzae type b
OPV = Oral polio vaccine
$1_{1}$ Polio 0 is the polio vaccination given at birth.
${ }^{1}$ Polio 0 is the polio vaccination given at birth.
${ }^{2}$ Following data collection, a skip error was identified that impacted yellow fever vaccination rates according to mothers' recall.
${ }^{3}$ BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of measles
${ }^{4}$ BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, one dose of inactivated polio vaccine, three doses of pneumococcal
 ${ }^{5}$ Vaccination card, booklet, or other home-based record

Table 10.5 Prevalence and treatment of 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, Liberia DHS 2019-20

| Background characteristic | Among children under age 5: |  | Among children under age 5 with symptoms of ARI: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with symptoms of $A R I^{1}$ | Number of children | Percentage for whom advice or treatment was sought ${ }^{2}$ | Percentage for whom advice or treatment was sought same or next day ${ }^{2}$ | Number of children |
| Age in months |  |  |  |  |  |
| <6 | 5.2 | 569 | (81.8) | (28.6) | 30 |
| 6-11 | 8.8 | 529 | (64.9) | (20.9) | 46 |
| 12-23 | 5.7 | 937 | 78.3 | 36.4 | 53 |
| 24-35 | 4.0 | 873 | (84.4) | (39.0) | 35 |
| 36-47 | 3.5 | 978 | (85.5) | (51.2) | 35 |
| 48-59 | 1.7 | 980 | (83.1) | (14.4) | 16 |
| Sex |  |  |  |  |  |
| Male | 4.1 | 2,431 | 81.4 | 39.2 | 100 |
| Female | 4.7 | 2,434 | 75.8 | 27.8 | 115 |
| Cooking fuel |  |  |  |  |  |
| Electricity or gas | (0.4) | 61 | * | * | 0 |
| Kerosene | * | 5 | * | nc | 0 |
| Fire coal/charcoal | 4.7 | 2,132 | 80.1 | 38.5 | 100 |
| Wood/straw ${ }^{3}$ | 4.3 | 2,668 | 76.9 | 28.5 | 115 |
| Residence |  |  |  |  |  |
| Urban | 3.8 | 2,615 | 76.3 | 35.0 | 101 |
| Greater Monrovia | 4.7 | 1,326 | * |  | 63 |
| Other urban | 2.9 | 1,289 | (87.7) | (41.1) | 38 |
| Rural | 5.1 | 2,251 | 80.3 | 31.5 | 115 |
| Region |  |  |  |  |  |
| North Western | 3.7 | 419 | (71.9) | (37.6) | 16 |
| South Central | 4.8 | 2,123 | 75.8 | 25.2 | 102 |
| South Eastern A | 4.7 | 302 | (89.2) | (48.1) | 14 |
| South Eastern B | 6.9 | 268 | 82.9 | 47.1 | 18 |
| North Central | 3.7 | 1,755 | 80.3 | 37.0 | 66 |
| County |  |  |  |  |  |
| Bomi | 1.4 | 143 | * | * | 2 |
| Bong | 6.1 | 540 | (83.6) | (45.0) | 33 |
| Gbarpolu | 8.8 | 86 | * | * | 8 |
| Grand Bassa | 4.2 | 341 | * | * | 14 |
| Grand Cape Mount | 3.2 | 190 | * | * | 6 |
| Grand Gedeh | 5.3 | 111 | * | * | 6 |
| Grand Kru | 7.3 | 96 | * | * | 7 |
| Lofa | 4.3 | 375 | * | * | 16 |
| Margibi | 1.9 | 256 | * | * | 5 |
| Maryland | 5.5 | 123 | * | * | 7 |
| Montserrado | 5.4 | 1,526 | (72.2) | (27.5) | 82 |
| Nimba | 1.9 | 839 | * | * | 16 |
| River Cess | 7.4 | 74 | * | * | 5 |
| River Gee | 9.4 | 48 | * | * | 5 |
| Sinoe | 2.5 | 117 | * | * | 3 |
| Mother's education |  |  |  |  |  |
| No education | 4.2 | 1,723 | 70.6 | 27.8 | 73 |
| Elementary | 4.3 | 1,236 | 87.5 | 33.8 | 53 |
| Junior high | 3.5 | 852 | (66.0) | (21.6) | 30 |
| Senior high | 4.9 | 866 | (80.6) | (36.2) | 42 |
| Higher | 8.9 | 189 | * | * | 17 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 5.3 | 1,169 | 70.7 | 23.1 | 62 |
| Second | 3.8 | 1,061 | 84.3 | 34.6 | 40 |
| Middle | 3.7 | 912 | 71.6 | 33.9 | 33 |
| Fourth | 4.3 | 913 | (74.6) | (33.7) | 39 |
| Highest | 5.0 | 811 |  |  | 40 |
| Total | 4.4 | 4,866 | 78.4 | 33.1 | 216 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
$\mathrm{nc}=$ No unweighted cases
${ }^{1}$ 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, shop, market, or
black baggers/drug peddlers. Excludes advice or treatment from a traditional practitioner.
${ }^{3}$ Includes grass, shrubs, and crop residues

Table 10.6 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, Liberia DHS 201920

|  | Percentage for whom advice or treatment was <br> sought from each source: |  |
| :--- | :---: | :---: |
|  |  | Among children with <br> symptoms of ARI for <br> whom advice or |
| Source | Among children with <br> symptoms of ARI |  |
| Public sector | 42.0 | 53.2 |
| Government hospital | 14.8 | 18.8 |
| Government health center | 2.7 | 3.4 |
| Government health clinic | 23.9 | 30.3 |
| Mobile clinic | 0.6 | 0.8 |
| Private medical sector | 33.0 | 41.9 |
| Private hospital/center/clinic | 13.9 | 17.6 |
| Pharmacy | 19.7 | 25.1 |
| Private doctor | 0.8 | 1.0 |
| Mobile clinic | 1.2 | 1.5 |
| Other private sector | 4.3 | 5.4 |
| Shop | 1.5 | 1.8 |
| Traditional practitioner | 0.4 | 0.5 |
| Black bagger/drug peddler | 2.4 | 3.1 |
| Other | 1.3 | 1.6 |
| Number of children | 216 | 170 |

${ }^{1}$ Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

Table 10.7 Prevalence and treatment of 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 and percentage who received antibiotics as treatment, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among children under age 5: |  | Among children under age 5 with fever: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with fever | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage for whom advice or treatment was sought same or next day ${ }^{1}$ | Percentage who took antibiotic drugs | Number of children with fever |
| Age in months |  |  |  |  |  |  |
| <6 | 22.1 | 569 | 80.9 | 47.9 | 44.8 | 126 |
| 6-11 | 31.8 | 529 | 80.3 | 43.7 | 41.6 | 168 |
| 12-23 | 28.4 | 937 | 79.6 | 45.3 | 33.0 | 267 |
| 24-35 | 25.8 | 873 | 78.2 | 49.9 | 34.1 | 225 |
| 36-47 | 23.2 | 978 | 86.2 | 48.7 | 34.6 | 227 |
| 48-59 | 20.9 | 980 | 80.1 | 49.8 | 26.1 | 205 |
| Sex |  |  |  |  |  |  |
| Male | 25.1 | 2,431 | 82.1 | 47.7 | 32.2 | 611 |
| Female | 24.9 | 2,434 | 79.7 | 47.5 | 37.2 | 606 |
| Residence |  |  |  |  |  |  |
| Urban | 23.7 | 2,615 | 87.1 | 55.3 | 37.2 | 620 |
| Greater Monrovia | 23.8 | 1,326 | 90.3 | 57.8 | 33.7 | 316 |
| Other urban | 23.6 | 1,289 | 83.8 | 52.6 | 40.8 | 304 |
| Rural | 26.5 | 2,251 | 74.4 | 39.7 | 32.2 | 597 |
| Region |  |  |  |  |  |  |
| North Western | 35.4 | 419 | 80.4 | 52.5 | 34.2 | 148 |
| South Central | 26.5 | 2,123 | 84.4 | 47.6 | 35.9 | 562 |
| South Eastern A | 33.7 | 302 | 85.5 | 43.2 | 43.6 | 102 |
| South Eastern B | 33.4 | 268 | 77.7 | 45.9 | 32.7 | 89 |
| North Central | 18.0 | 1,755 | 74.3 | 47.1 | 30.6 | 315 |
| County |  |  |  |  |  |  |
| Bomi | 42.7 | 143 | 91.6 | 58.8 | 36.0 | 61 |
| Bong | 25.5 | 540 | 73.9 | 42.9 | 37.1 | 138 |
| Gbarpolu | 35.4 | 86 | 64.8 | 38.6 | 33.6 | 30 |
| Grand Bassa | 29.5 | 341 | 74.5 | 37.5 | 34.3 | 101 |
| Grand Cape Mount | 29.8 | 190 | 76.6 | 53.0 | 32.4 | 57 |
| Grand Gedeh | 30.0 | 111 | 85.8 | 43.9 | 34.4 | 33 |
| Grand Kru | 21.4 | 96 | 74.3 | 50.9 | 15.4 | 21 |
| Lofa | 11.4 | 375 | (77.9) | (45.4) | (12.4) | 43 |
| Margibi | 34.1 | 256 | 89.2 | 35.6 | 52.5 | 87 |
| Maryland | 40.6 | 123 | 77.2 | 39.3 | 37.8 | 50 |
| Montserrado | 24.6 | 1,526 | 85.9 | 53.2 | 32.5 | 375 |
| Nimba | 16.1 | 839 | 73.6 | 52.0 | 29.6 | 135 |
| River Cess | 36.3 | 74 | 90.0 | 37.1 | 62.6 | 27 |
| River Gee | 39.4 | 48 | 82.5 | 57.8 | 38.3 | 19 |
| Sinoe | 35.4 | 117 | 82.4 | 46.7 | 38.6 | 41 |
| Mother's education |  |  |  |  |  |  |
| No education | 23.4 | 1,723 | 75.9 | 43.8 | 31.4 | 403 |
| Elementary | 25.6 | 1,236 | 78.8 | 42.0 | 33.9 | 317 |
| Junior high | 25.9 | 852 | 82.8 | 53.5 | 34.1 | 220 |
| Senior high | 27.7 | 866 | 88.3 | 54.0 | 38.4 | 240 |
| Higher | 19.3 | 189 | * | * | * | 36 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 23.2 | 1,169 | 70.5 | 33.5 | 30.5 | 271 |
| Second | 25.4 | 1,061 | 76.5 | 47.7 | 31.6 | 270 |
| Middle | 22.8 | 912 | 75.4 | 39.9 | 35.4 | 208 |
| Fourth | 27.6 | 913 | 89.1 | 57.3 | 35.0 | 252 |
| Highest | 26.7 | 811 | 95.1 | 61.2 | 43.0 | 216 |
| Total | 25.0 | 4,866 | 80.9 | 47.6 | 34.7 | 1,217 |

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 advice or treatment from the following sources: public sector, private medical sector, shop, market, or black baggers/drug peddlers. Excludes advice or treatment from a traditional practitioner.

| Table 10.8 Prevalence and treatment of diarrhea |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Percentage of children under age 5 who had diarrhea in the 2 weeks preceding the survey, and among children with diarrhea in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |
|  |  |  | Among children under age 5 with diarrhea: |  |
| Background characteristic | Percentage with diarrhea | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Number of children with diarrhea |
| Age in months |  |  |  |  |
| <6 | 11.6 | 569 | 57.1 | 66 |
| 6-11 | 23.1 | 529 | 67.9 | 122 |
| 12-23 | 25.3 | 937 | 69.1 | 237 |
| 24-35 | 16.0 | 873 | 63.3 | 139 |
| 36-47 | 13.8 | 978 | 68.0 | 135 |
| 48-59 | 6.5 | 980 | 65.2 | 63 |
| Sex |  |  |  |  |
| Male | 15.9 | 2,431 | 69.1 | 386 |
| Female | 15.5 | 2,434 | 63.4 | 377 |
| Source of drinking water ${ }^{2}$ |  |  |  |  |
| Improved | 15.4 | 4,006 | 69.4 | 616 |
| Unimproved | 17.2 | 860 | 53.3 | 148 |
| Type of toilet facility ${ }^{3}$ |  |  |  |  |
| Improved sanitation facility | 15.1 | 2,252 | 69.8 | 340 |
| Unimproved facility | 13.6 | 756 | 78.5 | 103 |
| Open defecation | 17.3 | 1,858 | 58.7 | 321 |
| Residence |  |  |  |  |
| Urban | 14.3 | 2,615 | 71.1 | 373 |
| Greater Monrovia | 14.4 | 1,326 | 67.1 | 191 |
| Other urban | 14.1 | 1,289 | 75.4 | 182 |
| Rural | 17.4 | 2,251 | 61.6 | 391 |
| Region |  |  |  |  |
| North Western | 17.1 | 419 | 72.8 | 72 |
| South Central | 16.8 | 2,123 | 65.4 | 357 |
| South Eastern A | 21.3 | 302 | 71.3 | 64 |
| South Eastern B | 18.5 | 268 | 73.9 | 49 |
| North Central | 12.6 | 1,755 | 62.3 | 220 |
| County |  |  |  |  |
| Bomi | 14.6 | 143 | (67.2) | 21 |
| Bong | 17.8 | 540 | 59.6 | 96 |
| Gbarpolu | 16.7 | 86 | (63.6) | 14 |
| Grand Bassa | 24.8 | 341 | 62.3 | 84 |
| Grand Cape Mount | 19.2 | 190 | (79.6) | 37 |
| Grand Gedeh | 19.0 | 111 | (64.2) | 21 |
| Grand Kru | 11.2 | 96 | (71.4) | 11 |
| Lofa | 6.8 | 375 | (67.6) | 26 |
| Margibi | 16.6 | 256 | 74.4 | 42 |
| Maryland | 23.0 | 123 | 79.1 | 28 |
| Montserrado | 15.1 | 1,526 | 64.9 | 231 |
| Nimba | 11.8 | 839 | 63.7 | 99 |
| River Cess | 19.9 | 74 | 77.9 | 15 |
| River Gee | 21.4 | 48 | 62.0 | 10 |
| Sinoe | 24.3 | 117 | 73.2 | 28 |
| Mother's education |  |  |  |  |
| No education | 14.5 | 1,723 | 58.4 | 250 |
| Elementary | 17.9 | 1,236 | 67.5 | 222 |
| Junior high | 17.7 | 852 | 75.2 | 151 |
| Senior high | 12.1 | 866 | 67.4 | 105 |
| Higher | 18.6 | 189 | * | 35 |
| Wealth quintile |  |  |  |  |
| Lowest | 16.7 | 1,169 | 57.6 | 195 |
| Second | 15.4 | 1,061 | 60.9 | 163 |
| Middle | 16.0 | 912 | 70.0 | 146 |
| Fourth | 16.1 | 913 | 79.4 | 147 |
| Highest | 13.8 | 811 | 67.0 | 112 |
| Total | 15.7 | 4,866 | 66.3 | 763 |
| 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. <br> ${ }^{1}$ Includes advice or treatment from the following sources: public sector, private medical sector, shop market, or black baggers/drug peddlers. Excludes advice or treatment from a traditional practitioner. <br> ${ }^{2}$ See Table 2.1.1 for definition of categories. <br> ${ }^{3}$ See Table 2.3.1 for definition of categories. |  |  |  |  |

Table 10.9 Feeding practices during diarrhea



[^14]
## Table 10.11 Source of advice or treatment for children with diarrhea

Percentage of children under age 5 with diarrhea in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources; among children under age 5 with diarrhea 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; and among children with diarrhea who received ORS, percentage for whom advice or treatment was sought from specific sources, Liberia DHS 2019-20

| Source | Percentage for whom advice or treatment was sought from each source: |  |  |
| :---: | :---: | :---: | :---: |
|  | Among children with diarrhea | Among children with diarrhea for whom advice or treatment was sought | Among children with diarrhea who received ORS ${ }^{1}$ |
| Public sector | 31.7 | 46.0 | 42.2 |
| Government hospital | 8.9 | 13.0 | 12.8 |
| Government health center | 2.3 | 3.4 | 3.8 |
| Government health clinic | 19.6 | 28.5 | 24.2 |
| Mobile clinic | 0.8 | 1.2 | 1.3 |
| Private medical sector | 32.2 | 46.7 | 34.0 |
| Private hospital/center/clinic | 7.5 | 10.9 | 7.6 |
| Pharmacy | 20.2 | 29.3 | 21.5 |
| Private doctor | 1.3 | 1.9 | 2.4 |
| Mobile clinic | 3.1 | 4.5 | 2.5 |
| Other private sector | 7.0 | 10.2 | 6.4 |
| Shop | 0.5 | 0.8 | 0.3 |
| Traditional practitioner | 2.9 | 4.3 | 1.5 |
| Black bagger/drug peddler | 3.6 | 5.2 | 4.6 |
| Other | 1.0 | 1.4 | 1.0 |
| Number of children | 763 | 526 | 413 |

ORS = Oral rehydration salts
${ }^{1}$ Fluids from ORS packet

| Table 10.12 Knowledge of ORS packets |  |  |
| :---: | :---: | :---: |
| Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who know about ORS packets for treatment of diarrhea, by background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Percentage of women who know about ORS packets | Number of women |
| Age |  |  |
| 15-19 | 98.2 | 414 |
| 20-24 | 98.0 | 983 |
| 25-34 | 97.8 | 1,661 |
| 35-49 | 97.4 | 968 |
| Residence |  |  |
| Urban | 98.5 | 2,269 |
| Greater Monrovia | 99.1 | 1,184 |
| Other urban | 97.8 | 1,084 |
| Rural | 97.0 | 1,757 |
| Region |  |  |
| North Western | 97.8 | 331 |
| South Central | 98.7 | 1,825 |
| South Eastern A | 99.4 | 248 |
| South Eastern B | 97.8 | 222 |
| North Central | 96.3 | 1,400 |
| County |  |  |
| Bomi | 99.6 | 119 |
| Bong | 98.7 | 443 |
| Gbarpolu | 97.6 | 67 |
| Grand Bassa | 96.9 | 264 |
| Grand Cape Mount | 96.3 | 145 |
| Grand Gedeh | 99.4 | 90 |
| Grand Kru | 95.9 | 80 |
| Lofa | 99.1 | 317 |
| Margibi | 99.3 | 217 |
| Maryland | 98.6 | 100 |
| Montserrado | 99.0 | 1,343 |
| Nimba | 93.4 | 640 |
| River Cess | 99.2 | 58 |
| River Gee | 99.8 | 42 |
| Sinoe | 99.5 | 100 |
| Education |  |  |
| No education | 96.3 | 1,366 |
| Elementary | 98.3 | 984 |
| Junior high | 98.4 | 725 |
| Senior high | 99.6 | 782 |
| Higher | 97.0 | 170 |
| Wealth quintile |  |  |
| Lowest | 97.1 | 855 |
| Second | 95.8 | 849 |
| Middle | 98.1 | 785 |
| Fourth | 99.6 | 816 |
| Highest | 98.8 | 721 |
| Total | 97.8 | 4,026 |
| ORS = Oral rehydration salts |  |  |

Table 10.13 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 fecal matter, and percentage of children whose stools are disposed of appropriately, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Manner of disposal of children's stools |  |  |  |  |  |  |  | Percentage of children whose stools are disposed of appropriately ${ }^{1}$ | Number of children |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Child used toilet or latrine | Put/rinsed into toilet or latrine | Buried | Put/rinsed into drain or ditch | Thrown into garbage | Left in the open | Other | Total |  |  |
| Age of child in months |  |  |  |  |  |  |  |  |  |  |
| 0-1 | 0.2 | 23.4 | 1.1 | 25.1 | 31.9 | 16.6 | 1.8 | 100.0 | 24.7 | 161 |
| 2-3 | 0.0 | 23.0 | 0.3 | 24.9 | 37.0 | 13.7 | 1.1 | 100.0 | 23.2 | 201 |
| 4-5 | 0.2 | 14.0 | 0.7 | 26.0 | 32.5 | 25.0 | 1.6 | 100.0 | 14.9 | 194 |
| 6-8 | 1.0 | 14.4 | 4.9 | 24.9 | 38.6 | 15.5 | 0.7 | 100.0 | 20.3 | 290 |
| 9-11 | 0.0 | 14.2 | 4.0 | 22.8 | 40.8 | 16.9 | 1.4 | 100.0 | 18.1 | 233 |
| 12-17 | 0.8 | 18.5 | 6.8 | 20.6 | 33.1 | 19.3 | 0.9 | 100.0 | 26.1 | 440 |
| 18-23 | 0.1 | 21.2 | 10.2 | 11.9 | 33.4 | 22.2 | 0.9 | 100.0 | 31.6 | 404 |
| 6-23 | 0.5 | 17.7 | 6.9 | 19.3 | 35.7 | 18.9 | 0.9 | 100.0 | 25.2 | 1,366 |
| Type of toilet facility ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Improved sanitation facility | 0.8 | 23.3 | 2.5 | 12.9 | 48.7 | 10.7 | 1.1 | 100.0 | 26.6 | 874 |
| Unimproved facility | 0.2 | 24.7 | 6.4 | 21.4 | 32.5 | 12.8 | 2.0 | 100.0 | 31.3 | 291 |
| Open defecation | 0.0 | 10.2 | 7.6 | 30.4 | 20.6 | 30.4 | 0.7 | 100.0 | 17.8 | 756 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 0.6 | 22.0 | 3.0 | 12.8 | 48.2 | 12.3 | 1.1 | 100.0 | 25.6 | 1,040 |
| Greater Monrovia | 0.5 | 12.7 | 2.3 | 8.9 | 67.4 | 7.4 | 0.7 | 100.0 | 15.6 | 521 |
| Other urban | 0.6 | 31.4 | 3.7 | 16.7 | 29.0 | 17.2 | 1.5 | 100.0 | 35.6 | 519 |
| Rural | 0.2 | 14.0 | 7.6 | 30.8 | 19.8 | 26.5 | 1.1 | 100.0 | 21.9 | 881 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 0.0 | 24.2 | 4.8 | 33.3 | 21.1 | 13.8 | 2.9 | 100.0 | 28.9 | 163 |
| South Central | 0.4 | 14.3 | 3.3 | 14.6 | 50.9 | 14.9 | 1.6 | 100.0 | 18.0 | 837 |
| South Eastern A | 0.0 | 22.9 | 8.2 | 24.4 | 28.5 | 15.9 | 0.0 | 100.0 | 31.2 | 130 |
| South Eastern B | 1.2 | 19.1 | 3.1 | 23.6 | 26.7 | 24.3 | 2.0 | 100.0 | 23.5 | 100 |
| North Central | 0.4 | 20.9 | 7.2 | 25.0 | 21.9 | 24.5 | 0.2 | 100.0 | 28.5 | 691 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 0.0 | 28.8 | 6.6 | 41.5 | 12.9 | 10.3 | 0.0 | 100.0 | 35.3 | 51 |
| Bong | 0.0 | 13.2 | 4.2 | 37.8 | 10.4 | 34.1 | 0.2 | 100.0 | 17.4 | 217 |
| Gbarpolu | 0.0 | 19.9 | 1.8 | 42.9 | 24.5 | 11.0 | 0.0 | 100.0 | 21.7 | 33 |
| Grand Bassa | 0.0 | 18.0 | 5.8 | 29.7 | 17.3 | 28.3 | 0.9 | 100.0 | 23.8 | 134 |
| Grand Cape Mount | 0.0 | 23.0 | 4.9 | 24.0 | 24.9 | 17.3 | 6.0 | 100.0 | 27.9 | 79 |
| Grand Gedeh | 0.0 | 19.6 | 3.9 | 12.2 | 44.1 | 20.1 | 0.0 | 100.0 | 23.5 | 51 |
| Grand Kru | 0.0 | 23.7 | 0.9 | 25.3 | 15.6 | 33.3 | 1.1 | 100.0 | 24.6 | 38 |
| Lofa | 0.0 | 13.7 | 2.2 | 30.7 | 35.5 | 17.9 | 0.0 | 100.0 | 15.9 | 158 |
| Margibi | 0.2 | 25.5 | 7.1 | 7.2 | 30.6 | 22.2 | 7.1 | 100.0 | 32.9 | 108 |
| Maryland | 3.0 | 14.2 | 6.4 | 22.3 | 35.3 | 15.0 | 3.7 | 100.0 | 23.6 | 42 |
| Montserrado | 0.6 | 11.5 | 2.0 | 12.5 | 62.1 | 10.6 | 0.7 | 100.0 | 14.1 | 596 |
| Nimba | 0.9 | 29.8 | 11.6 | 13.4 | 23.0 | 21.1 | 0.2 | 100.0 | 42.3 | 316 |
| River Cess | 0.0 | 25.9 | 7.6 | 29.8 | 13.7 | 23.0 | 0.0 | 100.0 | 33.5 | 29 |
| River Gee | 0.0 | 20.5 | 0.5 | 23.1 | 29.6 | 26.3 | 0.0 | 100.0 | 21.0 | 20 |
| Sinoe | 0.0 | 24.6 | 13.1 | 33.8 | 21.1 | 7.4 | 0.0 | 100.0 | 37.7 | 50 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 0.5 | 16.9 | 5.4 | 26.0 | 24.8 | 25.3 | 1.0 | 100.0 | 22.8 | 640 |
| Elementary | 0.1 | 17.5 | 8.0 | 26.3 | 27.5 | 19.8 | 0.8 | 100.0 | 25.6 | 518 |
| Junior high | 0.8 | 22.1 | 2.7 | 17.7 | 38.8 | 16.5 | 1.3 | 100.0 | 25.7 | 345 |
| Senior high | 0.3 | 16.5 | 2.7 | 11.0 | 58.2 | 9.8 | 1.6 | 100.0 | 19.4 | 344 |
| Higher | (0.0) | (27.9) | (5.3) | (3.9) | (54.8) | (8.1) | (0.0) | 100.0 | (33.3) | 75 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.0 | 10.1 | 6.3 | 30.4 | 18.3 | 34.3 | 0.6 | 100.0 | 16.4 | 462 |
| Second | 0.2 | 18.0 | 8.2 | 29.0 | 20.4 | 22.8 | 1.4 | 100.0 | 26.4 | 411 |
| Middle | 0.8 | 26.1 | 5.5 | 21.2 | 29.4 | 15.3 | 1.6 | 100.0 | 32.4 | 369 |
| Fourth | 0.8 | 23.1 | 2.4 | 13.4 | 49.2 | 9.2 | 1.8 | 100.0 | 26.4 | 370 |
| Highest | 0.2 | 16.4 | 2.0 | 5.5 | 70.0 | 5.9 | 0.0 | 100.0 | 18.6 | 310 |
| Total | 0.4 | 18.4 | 5.1 | 21.1 | 35.2 | 18.8 | 1.1 | 100.0 | 23.9 | 1,921 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
Children's stools are considered to be disposed of appropriately if the child used a toilet or latrine, if the fecal matter was put/rinsed into a toilet or latrine, or if it was buried.
${ }^{2}$ See Table 2.3.1 for definition of categories.

## Key Findings

- Nutritional status of children: 30\% of children under age 5 are stunted (short for their age), $3 \%$ are wasted (thin for their height), $11 \%$ are underweight (thin for their age), and $4 \%$ are overweight (heavy for their height).
- Breastfeeding: Almost all children (97\%) born in the 2 years before the survey were breastfed at some point; $55 \%$ of children age 0-5 months are exclusively breastfed.
- Minimum acceptable diet: Overall, 3\% of children age 6-23 months were fed a minimum acceptable diet in the 24 hours before the survey.
- Anemia: The prevalence of anemia in children age 6-59 months is $71 \%$. Almost half ( $45 \%$ ) of women age 15-49 are anemic.
- Salt iodization: Almost all (99\%) households with tested salt have iodized salt.
- Nutritional status of women: $5 \%$ of women age 15-49 are thin (a body mass index [BMI] below 18.5), while 37\% are overweight or obese.

This chapter reports on nutritional status and anemia among children and women. It also reports on infant and young child feeding practices, including breastfeeding and complementary feeding, as well as micronutrient supplementation and deworming for children and pregnant women and the presence of iodine in household cooking salt.

### 11.1 Nutritional Status of Children

The distribution of height and weight for children under age 5 was compared against the WHO Child Growth Standards reference population (WHO 2006). A well-nourished population will be similar to the reference population, while a poorly nourished population will differ from the reference population. Three 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, with values greater than two standard deviations from the median of the WHO Child Growth Standards used to define malnutrition.

Stunting, or low height-for-age, is a sign of chronic undernutrition that reflects failure to receive adequate nutrition over a long period of time. The most direct causes of stunting are inadequate nutrition (not eating enough or eating foods that lack growth-promoting nutrients) and recurrent infections or chronic diseases that lead to poor nutrient intake, absorption, and utilization.

Wasting, or low weight-for-height, is a measure of acute undernutrition and 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.

Overweight, or high weight-for-height, is a measure of overnutrition and results from an imbalance between energy consumed (too much) and energy expended (too little).

Underweight, or low weight-for-age, is a composite index of weight-for-height and height-for-age reflecting both acute (wasting) and chronic (stunting) undernutrition.

## Stunting (assessed via height-for-age)

Height-for-age is a measure of linear growth retardation and cumulative growth deficits. 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), or chronically undernourished. Children whose Zscore 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 nutritional status. Children whose Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted), or acutely undernourished. 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. It takes into account both acute and chronic undernutrition. Children whose weight-for-age 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 representing the nutritional status of children in a population. These 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 (i.e., 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 Zscores are from 0 , the higher the prevalence of malnutrition.

### 11.1.1 Anthropometry Training and Data Collection

Health technicians were trained to measure the height and weight of children and women. Training on child height measurement included a standardization exercise (and re-standardization exercise for those who did not pass the standardization exercise). Results of these exercises are provided in Appendix Table C.7.

Children younger than age 24 months were measured lying down (recumbent length); older children and women were measured standing up (height). Weight measurements were taken using SECA scales with a digital display (model number SECA 878U). Length and height were measured with a ShorrBoard® measuring board.

The survey identified a total of 3,138 children under age 5 who were eligible for height and weight measurements. Valid height-for-age measurements were obtained for $94 \%$ of eligible children. Similarly, valid weight-for-height measurements were obtained for $94 \%$ of eligible children. Valid weight-for-age measurements were obtained for $95 \%$ of eligible children. Appendix Table C. 8 provides additional information on the completeness and quality of anthropometry data for children.

A difference of less than 1 centimeter between the two height/length measurements was defined as an acceptable level of precision. To assess the precision of measurements, in each cluster, two children were randomly selected to be measured a second time. Additionally, any 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 also flagged and measured a second time. The re-measurement of flagged cases was performed to ensure accurate reporting of height and weight measurements.

Calculation of Z-scores was based on the first measurement among children randomly selected for remeasurement and on the second measurement among children flagged for re-measurement. The remeasurement completion rate was $99 \%$ for both children randomly selected for re-measurement and those flagged for re-measurement. Appendix Table C. 9 provides additional information on re-measurement data.

### 11.1.2 Levels of Child Malnutrition

Table 11.1 shows that $30 \%$ of children under age 5 are stunted (too short for their age) and $10 \%$ are severely stunted. Three percent are wasted (too thin for their height), with $1 \%$ being severely wasted. Eleven percent of children are underweight (too thin for their age), and $3 \%$ are severely underweight. Four percent of children are overweight.

Trends: Stunting, wasting, and underweight among children under age 5 decreased between 2007 and 201920 , from $39 \%$ to $30 \%$, from $8 \%$ to $3 \%$, and from $19 \%$ to $11 \%$, respectively. There was almost no change in overweight during that period (Figure 11.1).

Figure 11.1 Trends in nutritional status of children
Percentage of children under age 5 who are malnourished


## Patterns by background characteristics

- The prevalence of stunting generally increases from $21 \%$ among children less than age 6 months to a peak of $41 \%$ among children age $24-35$ months. Wasting, on the other hand, is more prevalent $(8 \%)$ among children age 9-11 months and 12-17 months (Table 11.1).
- The prevalence of stunting is higher among children in rural areas ( $35 \%$ ) than among children in urban areas ( $25 \%$ ). Conversely, the prevalence of overweight is higher among urban children (5\%) than rural children (4\%).
- Stunting is more common among boys (32\%) than girls (28\%).
- At the county level, stunting ranges from a low of $21 \%$ in Montserrado to a high of $41 \%$ in River Cess (Figure 11.2).
- Wasting ranges from a low of $1 \%$ in Grand Kru and Lofa to a high of $8 \%$ in Maryland.
- Children who are born small or very small have a higher prevalence of stunting, wasting, and underweight than children average or larger at birth. Conversely, children who are born average or larger are more likely to be overweight than children small or very small at birth.
- Children whose mothers are thin (a body mass index
[BMI] below 18.5) are more likely to be wasted or

Children whose mothers are thin (a body mass index
[BMI] below 18.5) are more likely to be wasted or underweight than children whose mothers have a normal BMI and children whose mothers are overweight or obese. The prevalence of wasting among children whose mothers are thin is more than twice that of children whose mothers are overweight or obese ( $8 \%$ versus $3 \%$ ).

- Stunting declines with increasing household wealth. The prevalence of stunting is $38 \%$ among children from households in the lowest wealth quintile, as compared with $14 \%$ among children from households in the highest wealth quintile (Figure 11.3).

Figure 11.2 Stunting in children by county
Percentage of children under age 5 who are stunted


Figure 11.3 Stunting in children by wealth quintile
Percentage of children under age 5 who are stunted


### 11.2 Infant and Young Child Feeding Practices

Appropriate infant and young child feeding (IYCF) practices include early initiation of breastfeeding (within the first hour of life), exclusive breastfeeding in 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 (WHO 2008).

### 11.2.1 Early Initiation of Breastfeeding

Initiation of breastfeeding within the first hour of life 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 diseases. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, facilitating the production of regular breast milk.

## Early initiation of breastfeeding

Initiation of breastfeeding within 1 hour of birth.
Sample: Last-born children who were born in the 2 years before the survey

Table 11.2 shows that $97 \%$ of last-born children who were born in the 2 years preceding the survey were breastfed at some point. Sixty-seven percent were breastfed within 1 hour after birth, while $91 \%$ were breastfed within 24 hours after delivery. Ten percent of infants received a prelacteal feed.

Trends: The percentage of children ever breastfed increased slightly from $96 \%$ in 2007 to $97 \%$ in 2019-20. The percentage of children who started breastfeeding within 1 hour of birth has also increased slightly since 2007 , from $66 \%$ to $67 \%$, while the percentage who started breastfeeding within 1 day has increased from $85 \%$ to $91 \%$. Over the same period, the percentage of children receiving a prelacteal feed has decreased from $23 \%$ to $10 \%$.

## Patterns by background characteristics

- Early initiation of breastfeeding is higher among children whose deliveries were assisted by health personnel (67\%) than among those whose deliveries were assisted by traditional midwives (64\%).
- At the county level, the percentage of infants breastfed within 1 hour of birth ranges from $52 \%$ in Sinoe to $82 \%$ in River Gee.
- The percentage of children given a prelacteal feed is twice as high in urban areas (13\%) as in rural areas ( $6 \%$ ) and higher among children born at home ( $11 \%$ ) than among those born in health facilities ( $9 \%$ ).
- Early initiation of breastfeeding decreases with increasing wealth, from $69 \%$ among children in the lowest quintile to $64 \%$ among those in the highest quintile. Conversely, prelacteal feeding generally increases with increasing wealth, from $5 \%$ among children in the lowest quintile to $13 \%$ among those in the highest quintile.


### 11.2.2 Exclusive Breastfeeding

Breast milk contains all of the nutrients needed by children during their first 6 months of life. It is recommended that children be exclusively breastfed in the first 6 months of their life; that is, they should be given nothing but breast milk. Exclusive breastfeeding for 6 months prevents infections such as diarrhea and respiratory illnesses and provides all of the nutrients and liquid an infant requires for optimal growth and
development. Providing complementary foods within the first 6 months will have the adverse effect of reducing breast milk output because the production and release of breast milk are modulated by the frequency and intensity of suckling.

## Exclusive breastfeeding

Proportion of children age 0-5 months who are fed exclusively with breast milk.
Sample: Last-born children who were born in the 2 years before the survey

Breastfeeding status was ascertained for last-born children under age 2 who are currently living with their mother. Fifty-five percent of children under age 6 months are exclusively breastfed. Exclusive breastfeeding declines with age, from $73 \%$ among children age $0-1$ months to $59 \%$ among those age 2-3 months and $37 \%$ among those age $4-5$ months. Twenty-two percent of children age $0-5$ months are breastfeeding and consuming plain water only; this practice tends to decrease the exclusive breastfeeding rate. The percentage of children who are breastfeeding and consuming complementary foods first increases with age (peaking at $78 \%$ among children age 12-17 months) and then falls among children age 18-23 months (as older children stop breastfeeding). Ninety-two percent of children are breastfeeding at 1 year, and $37 \%$ are breastfeeding at 2 years. The percentage of children who are not breastfeeding generally increases with age, from $2 \%$ among those age $0-1$ months to $52 \%$ among those age 18-23 months (Table 11.3, Table 11.4, and Figure 11.4).

Figure 11.4 Breastfeeding practices by age


Trends: Exclusive breastfeeding among children age 0-5 months increased from 13\% in 1986 to 55\% in 2013 and 2019-20.

## Median Duration of Breastfeeding

Table 11.5 shows that the median duration of any breastfeeding among children born in the 3 years before the survey is 19.4 months. Overall, the median duration of exclusive breastfeeding is 3.1 months, and the median duration of predominant breastfeeding (either exclusively breastfed or breastfed and receiving plain water and/or non-milk liquids) is 6.5 months.

Trends: The median duration of any breastfeeding increased from 16.8 months in 1986 to 19.4 months in 2019-20, while the median duration of predominant breastfeeding increased from 2.5 months to 6.5 months. Over the same period, the median duration of exclusive breastfeeding increased from 0.5 months to 3.1 months.

## Patterns by background characteristics

- The median duration of any breastfeeding is 20.6 months among children in rural areas, as compared with 18.1 months among children in urban areas.
- By county, the median duration of predominant breastfeeding ranges from a low of 3.6 months in Montserrado to a high of 10.0 months in Gbarpolu. However, these figures should be interpreted with caution due to the small number of cases.
- The median duration of any breastfeeding decreases with increasing mother's education, from 21.4 months among mothers with no education to 16.6 months among mothers with a senior high education.


### 11.2.3 Bottle Feeding

The nipple on a feeding bottle is susceptible to contamination and increases the risk of disease among children. Thus, bottle feeding is not recommended for children under age 2 (WHO 2005a).

## Bottle feeding

Proportion of children age 0-23 months who are fed from a bottle with a nipple.
Sample: Last-born children who were born in the 2 years before the survey

Sixteen percent of children age $0-1$ months are fed using a bottle with a nipple. The proportion of children under age 2 using a bottle with a nipple peaks at age $4-5$ months ( $29 \%$ ). Overall, $14 \%$ of children age $0-23$ months are fed from a bottle with a nipple (Tables 11.3 and 11.4).

### 11.2.4 Introduction of Complementary Foods

After the first 6 months, breast milk alone is no longer enough to meet 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, and during this time it is important that they receive solid, semisolid, or soft foods.

Appropriate complementary feeding should include feeding children a variety of foods to ensure that nutrient requirements are met. Fruits and vegetables rich in vitamin A should be consumed daily. Eating a range of fruits and vegetables, in addition to those rich in vitamin A, is also important. Studies have shown that plantbased complementary foods by themselves are insufficient to meet the needs for certain micronutrients. Therefore, it has been recommended that meat, poultry, fish, or eggs be part of the daily diet or eaten as often as possible (WHO 2003).

Table 11.6 shows the types of foods and liquids consumed by children under age 2 living with their mother during the day and night preceding the interview, according to breastfeeding status and age. Generally, among children age 6-23 months, consumption of all types of foods is higher among nonbreastfeeding children than among breastfeeding children. The most common foods given to children age 6-23 months are foods made from grains ( $65 \%$ among breastfeeding children and $74 \%$ among nonbreastfeeding children), followed by meat, fish, and poultry ( $43 \%$ among breastfeeding children and $61 \%$ among nonbreastfeeding children) and fruits and vegetables rich in vitamin A ( $37 \%$ among breastfeeding children and $50 \%$ among nonbreastfeeding children). Eggs are less commonly given to children age 6-23 months ( $8 \%$ among breastfeeding children and $10 \%$ among nonbreastfeeding children). Consumption of infant formula is low among both breastfeeding (6\%) and nonbreastfeeding (8\%) children.

### 11.2.5 Minimum Dietary Diversity, Minimum Meal Frequency, and Minimum Acceptable Diet

Infants and young children should be fed a minimum acceptable diet to ensure appropriate growth and development. Without adequate diversity and meal frequency, infants and young children are vulnerable to
undernutrition, especially stunting and micronutrient deficiencies, and to increased morbidity and mortality. The WHO minimum acceptable diet recommendation is a combination of minimum dietary diversity and minimum meal frequency. The three indicators are defined in the box below.

Minimum dietary diversity is a proxy for adequate micronutrient density of foods. Consumption of food from at least five food groups means that the child has a high 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 (WHO 2008). The five groups 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 liver/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 dietary diversity

Proportion of children age 6-23 months who received a minimum of five out of eight food groups during the previous day.
Minimum meal frequency
Proportion of children age 6-23 months who received solid, semisolid, or soft food (including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day.
Minimum acceptable diet
Proportion of children age 6-23 months who receive a minimum acceptable diet. This indicator is a composite of children fed with a minimum dietary diversity and a minimum meal frequency.
Sample: Youngest children age 6-23 months living with their mother

Minimum dietary diversity, minimum meal frequency, and appropriate milk feeds together constitute a child's minimum acceptable diet. Three percent of children age 6-23 months living with their mother were fed a minimum acceptable diet in the 24 hours preceding the interview. Nine percent of children had an adequately diverse diet in which they had been given foods from at least five food groups, and $22 \%$ had been fed the minimum number of times appropriate for their age (Table 11.7 and Figure 11.5).

Figure 11.5 IYCF indicators on minimum acceptable diet

Percentage of children age 6-23 months
■ Breastfed $■$ Nonbreastfed $■$ All children 6-23 months

## Patterns by background characteristics

- The percentage of children age 6-23 months who are fed a minimum acceptable diet is higher among breastfed children (4\%) than among nonbreastfed children (2\%).
- Children in urban areas (5\%) are more likely to be fed a minimum acceptable diet than those in rural areas (2\%).
- At the county level, the percentage of children fed a minimum acceptable diet is highest in Bomi (7\%) and lowest in Gbarpolu, Grand Kru, Lofa, and Maryland (1\% each).
- The percentage of children who are fed a minimum acceptable diet rises with increasing mother's education, from $1 \%$ among children whose mothers have no education to $6 \%$ among those whose mothers have a senior high education.


### 11.3 Anemia Prevalence in Children

## Anemia in children

| Anemia status | Hemoglobin level in grams/deciliter* ${ }^{*}$ |
| :--- | :--- |
| Anemic | $<11.0$ |
| Mildly anemic | $10.0-10.9$ |
| Moderately anemic | $7.0-9.9$ |
| Severely anemic | $<7.0$ |
| Not anemic | 11.0 or higher |
| *Hemoglobin levels are adjusted for altitude in enumeration areas that are <br> above 1,000 meters. |  |

Sample: Children age 6-59 months

Anemia is a condition that is marked by low levels of hemoglobin in the blood. Iron deficiency is a common cause of anemia and is estimated to be responsible for half of all anemia cases in women and children globally. Other causes of anemia include malaria, hookworm and other helminths, other nutritional deficiencies, chronic infections, and genetic conditions such as thalassemia. Anemia is a serious concern for children because it can impair cognitive development and is associated with long-term health and economic consequences (Balarajan et al. 2011). Severe anemia leads to increased mortality. The HemoCue® ${ }^{\circledR} \mathrm{Hb} 201+$ device was used to measure hemoglobin levels from a finger-/heel-stick blood sample, which was then used to determine anemia levels in the population.

In the 2019-20 LDHS, hemoglobin testing was performed for children age 6-59 months using the methodology described in Chapter 1. The testing was successfully completed for $93 \%$ of eligible children. Seventy-one percent of children had anemia, with $29 \%$ having mild anemia, $38 \%$ having moderate anemia, and $3 \%$ having severe anemia (Table 11.8).

Trends: The prevalence of any anemia increased from $63 \%$ in 2009 to $77 \%$ in 2016 before declining to $71 \%$ in 2019-20 (Figure 11.6).

Patterns by background characteristics

- In general, the prevalence of anemia is higher among younger (age 6-35 months) than older (age 36-59 months) children, with a peak prevalence of $79 \%$ among children age 9-11 months.
- Anemia prevalence is higher in rural areas (72\%) than in urban areas (70\%).
- By county, the prevalence of any anemia is highest in Bomi ( $81 \%$ ) and lowest in Gbarpolu ( $57 \%$ ), while the prevalence of severe anemia is highest in Grand Bassa (8\%) (Figure 11.7).


### 11.4 Presence of lodized Salt in Households

Iodine is a micronutrient that plays an important role in thyroid function. In line with food and drug regulations, household salt should be fortified with iodine. Sufficient iodine prevents goiter, brain damage, and other thyroid-related health problems.

The 2019-20 LDHS tested for the presence of iodine in household salt in the form of potassium iodate. Salt was tested for the presence or absence of iodine only; the iodine content of the salt was not measured. All households were asked if they had salt and, if so, if that salt could be tested. In total, $12 \%$ of households had no salt and less than $1 \%$ had salt that was not tested. Salt was tested in $88 \%$ of households, and among households in which salt was tested $99 \%$ had iodized salt (Table 11.9). By county, the percentage of households without salt was highest in Montserrado (18\%) and Nimba (12\%).

### 11.5 Micronutrient Intake and Supplementation among Children

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Micronutrients are available in foods and can also be provided through direct supplementation.

The information collected on food consumption among children age 6-23 months is useful in assessing the extent to which children are consuming food groups rich in two key micronutrients in their daily diet: iron and vitamin A. Iron plays an important role in numerous biological systems and iron deficiency is one of the
primary causes of anemia, which has serious health consequences for children. Vitamin A supports the immune system and plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage and is the leading cause of childhood blindness. VAD also increases the severity of infections such as measles and diarrheal disease and slows recovery from illness.

Table $\mathbf{1 1 . 1 0}$ presents information on consumption of foods rich in vitamin A and iron in the 24 hours preceding the survey among last-born children age 6-23 months who are living with their mother. It also provides information on receipt of multiple micronutrient powders among children age 6-23 months and information on micronutrient supplementation and deworming among children age 6-59 months.

Overall, $61 \%$ of last-born children age 6-23 months consumed foods rich in vitamin A in the 24 hours before the survey, and half ( $50 \%$ ) consumed foods rich in iron. Eight percent of children age 6-23 months received multiple micronutrient powders in the 7 days preceding the survey. Twenty-eight percent of children age 6-59 months were given iron supplements in the past 7 days, and $46 \%$ were given vitamin A supplements in the past 6 months, and $52 \%$ were given deworming medication in the past 6 months.

Clinical treatment for severely wasted children (with no medical complications) involves ready-to-use therapeutic foods alongside other interventions (WHO 2013). In Liberia, 5\% of children age 6-35 months received Plumpy'Nut (a ready-to-use therapeutic food) in the 7 days prior to the survey (Table 11.11).

Trends: The percentage of children age 6-23 months who consumed foods rich in vitamin A increased from $58 \%$ in 2013 to $61 \%$ in 2019-20. Over the same period, the percentage of children consuming foods rich in iron increased from $45 \%$ to $50 \%$. There were decreases from 2013 to 2019-20 in the percentages of children age 6-59 months who received vitamin A supplements (from $60 \%$ to $46 \%$ ) and deworming medication (from $56 \%$ to $52 \%$ ). The percentage of children receiving iron supplements increased slightly from $27 \%$ in 2013 to $28 \%$ in 2019-20.

Patterns by background characteristics

- Consumption of foods rich in vitamin A and iron is higher in rural areas ( $65 \%$ and $51 \%$, respectively) than urban areas ( $57 \%$ and $48 \%$, respectively) (Table 11.10).
- The percentage of children age 6-23 months given multiple micronutrient powders is higher in urban areas ( $9 \%$ ) than in rural areas ( $6 \%$ ).
- Iron and vitamin A supplementation is higher among breastfeeding children than among nonbreastfeeding children. Thirty-three percent of breastfeeding children age 6-59 months are given iron supplements, as compared with $26 \%$ of nonbreastfeeding children. Similarly, $51 \%$ of breastfeeding children are given vitamin A supplements, compared with $45 \%$ of nonbreastfeeding children.
- The percentage of children age 6-59 months given deworming medication is higher (54\%) among those who are not breastfed than among those who are breastfed ( $46 \%$ ). The same is true for the percentage of children age 6-23 months given multiple micronutrient powders ( $12 \%$ versus $6 \%$ ).
- There are variations by county in provision of vitamin A supplements, iron supplements, and multiple micronutrient powders. The percentages of children given vitamin A supplements are highest in Grand Gedeh ( $82 \%$ ) and lowest in Sinoe ( $22 \%$ ), the percentages given iron supplements are highest in Bomi and Grand Gedeh ( $44 \%$ each) and lowest in Lofa ( $19 \%$ ), and the percentages given multiple micronutrient powders are highest in Grand Gedeh (22\%) and lowest in Sinoe, Margibi, River Gee, and Grand Kru (3\% each).
- Seven percent of children age 6-35 months in urban areas received Plumpy'Nut, as compared with $3 \%$ of children in rural areas (Table 11.11).
- By county, receipt of Plumpy'Nut is highest in Grand Gedeh (16\%) and Montserrado (8\%) and lowest in Gbarpolu (less than 1\%).
- The percentage of children given Plumpy'Nut increases with increasing household wealth (from $2 \%$ to $10 \%)$.


### 11.6 WOMEN's NuTRITIONAL Status

Chronic energy deficiency is caused by eating too little or having an unbalanced diet that lacks adequate nutrients. Women of reproductive age 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. It is well known that chronic energy deficiency leads to low productivity among adults and is related to heightened morbidity and mortality. In addition, chronic undernutrition among women is a major risk factor for adverse birth outcomes.
Overnutrition has adverse health outcomes as well. Overweight and obesity are major risk factors for a number of chronic diseases, including diabetes, cardiovascular diseases, and cancer.

## Body mass index (BMI)

BMI is calculated by dividing weight in kilograms by height in meters squared $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$.

| Status | BMI |
| :--- | :--- |
| Too thin for height | Less than 18.5 |
| Normal | Between 18.5 and 24.9 |
| Overweight | Between 25.0 and 29.9 |
| Obese | Greater than or equal to 30.0 |

Sample: Women age 15-49 who are not pregnant and who have not had a birth in the 2 months before the survey

## Short stature

Proportion of women with height under 145 cm .
Sample: Women age 15-49

The 2019-20 LDHS collected anthropometric data on height and weight among women age 15-49. These data were used to calculate measures of nutritional status such as maternal height and body mass index (BMI). The results showed that $58 \%$ of women have a normal BMI, while $5 \%$ are thin and $37 \%$ are overweight or obese; the mean BMI among women is 24.5 . Two percent of women are of short stature (Table 11.12 and Figure 11.8).

Trends: The percentage of women age 15-49 who are thin declined from $7 \%$ in 2013 to $5 \%$ in 2019-20. On the other hand, the percentage of women who are overweight or obese increased from $26 \%$ to $37 \%$.

## Patterns by background characteristics

Figure 11.8 Nutritional status of women
Percent distribution of women age 15-49


Note: Figures may not add up to $100 \%$ due to rounding

- Fifty-four percent of women in the highest wealth quintile are overweight or obese, as compared with $21 \%$ of women in the lowest quintile.
- The percentage of women who are of normal weight generally declines with age, from $80 \%$ among those age 15-19 to $45 \%$ among those age 40-49.
- The percentage of women who are overweight or obese is higher in urban than rural areas ( $43 \%$ versus $26 \%$ ), whereas the percentage of women who are thin is higher in rural areas ( $7 \%$ versus $4 \%$ ).
- By county, overweight or obesity is highest in Montserrado (48\%) and lowest in Maryland (23\%).


### 11.7 Anemia Prevalence in Women

Hemoglobin levels below which women are considered anemic

| Respondents | Hemoglobin level in <br> grams/deciliter* |
| :--- | :--- |
| Non-pregnant women age 15-49 | Less than 12.0 |
| Pregnant women age 15-49 | Less than 11.0 |
| *Hemoglobin levels are adjusted for cigarette smoking and for <br> altitude in enumeration areas that are above 1,000 meters. |  |

The procedure used to measure anemia among women age 15-49 was similar to that used for children age 6-59 months except that capillary blood was collected exclusively from a finger prick. The methodology employed for hemoglobin testing is described in detail in Chapter 1.

Anemia is a major concern among women, leading to increased maternal mortality and poor birth outcomes as well as reductions in work productivity. Table $\mathbf{1 1 . 1 3}$ shows that $45 \%$ of women age 15-49 are anemic, with $23 \%$ being mildly anemic, $21 \%$ being moderately anemic, and $1 \%$ being severely anemic.

## Patterns by background characteristics

- Anemia prevalence is higher in rural areas (47\%) than in urban areas (43\%).
- By county, the prevalence of anemia ranges from a low of $35 \%$ in Lofa and Nimba to a high of $59 \%$ in Grand Bassa.
- The prevalence of anemia is higher among pregnant women (52\%) than among breastfeeding women $(48 \%)$ and women who are neither pregnant nor breastfeeding (43\%).
- The prevalence of anemia generally decreases with increasing wealth, from $51 \%$ among women in the lowest wealth quintile to $44 \%$ among women in the highest wealth quintile.


### 11.8 Micronutrient Supplementation and Deworming during Pregnancy

During pregnancy, women are at a higher risk of anemia due to an increase in blood volume. Severe anemia can place both the mother and the baby in danger through increased risk of blood loss during labor, preterm delivery, low birth weight, and perinatal mortality. To prevent anemia, pregnant women are advised to take iron folate supplements, eat iron-rich foods, and prevent intestinal worms.

The 2019-20 LDHS asked women age 15-49 who gave birth in the 5 years before the survey whether they took iron supplements and/or deworming medication during their most recent pregnancy. The results show that, overall, only $43 \%$ of pregnant women took iron supplements for 90 days or more, while $64 \%$ took deworming medication. Six percent of women did not take any iron supplements (Table 11.14).

Trends: Both micronutrient supplementation and deworming during pregnancy have improved. The percentage of women taking iron supplements for 90 days or more increased from $14 \%$ in 2007 to $21 \%$ in 2013 and $43 \%$ in 2019-20. The percentage of women who did not take any iron supplements decreased from $12 \%$ in 2007 to $3 \%$ in 2013 before increasing slightly to $6 \%$ in 2019-20. Finally, the percentage of women taking deworming medication during pregnancy increased from $29 \%$ in 2007 to $58 \%$ in 2013 and $64 \%$ in 2019-20.

## Patterns by background characteristics

- Women in urban areas were more likely than those in rural areas to have taken deworming tablets (65\% versus $62 \%$ ).
- The percentage of women taking iron tablets for 90 days or more during the pregnancy of their last birth generally increases with rising education, from $40 \%$ among those with no education to $54 \%$ among those with a higher education.
- The percentages of women taking both iron tablets for 90 days or more and deworming medication during pregnancy also generally increase with increasing household wealth. Thirty-seven percent of women in the lowest wealth quintile and $50 \%$ in the highest quintile took iron supplements for at least 90 days, while $61 \%$ of women in the lowest quintile and $68 \%$ in the highest quintile took deworming medication.
- The percentage of women taking iron supplements for at least 90 days ranges from a low of $25 \%$ in Grand Bassa to a high of $69 \%$ in River Cess.

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

- Table 11.1 Nutritional status of children
- Table 11.2 Initial breastfeeding
- Table 11.3 Breastfeeding status by age
- Table 11.4 Infant and young child feeding (IYCF) indicators on breastfeeding status
- Table 11.5 Median duration of breastfeeding
- Table 11.6 Foods and liquids consumed by children in the day or night preceding the interview
- Table 11.7 Minimum acceptable diet
- Table 11.8 Prevalence of anemia in children
- Table 11.9 Presence of iodized salt in household
- Table 11.10 Micronutrient intake among children
- Table 11.11 Therapeutic and supplemental foods
- Table 11.12 Nutritional status of women
- Table 11.13 Prevalence of anemia in women
- Table 11.14 Micronutrient intake among mothers
Table 11.1 Nutritional status of children
Percentage of children under age 5 classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage below $-3 \mathrm{SD}$ | Percentage below $-2 S D^{2}$ | $\begin{aligned} & \text { Mean } \\ & \text { Z-score } \\ & \text { (SD) } \end{aligned}$ | Number of children | Percentage below $-3 \text { SD }$ | Percentage below -2 SD $^{2}$ | Percentage above +2 SD | Mean Z-score (SD) | Number of children | Percentage below $-3 S D$ | Percentage below $-2 S D^{2}$ | Percentage above +2 SD | (SD) <br> Mean Z-score | Number of children |
| Age in months 075 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 3.6 | 21.4 | -0.9 | 275 | 0.5 | 3.3 | 18.7 | 0.7 | 280 | 1.2 | 5.1 | 5.2 | -0.2 | 280 |
| 6-8 | 3.2 | 12.7 | -0.8 | 181 | 0.9 | 6.2 | 4.0 | -0.2 | 182 | 0.9 | 8.6 | 0.6 | -0.6 | 183 |
| 9-11 | 8.7 | 24.5 | -1.4 | 150 | 2.1 | 8.0 | 5.7 | -0.4 | 151 | 6.1 | 15.7 | 1.6 | -1.1 | 151 |
| 12-17 | 7.4 | 26.4 | -1.3 | 281 | 0.9 | 7.6 | 4.0 | -0.3 | 283 | 3.1 | 13.5 | 1.7 | -0.8 | 282 |
| 18-23 | 9.7 | 31.2 | -1.5 | 241 | 1.1 | 4.1 | 3.4 | 0.0 | 241 | 5.1 | 10.7 | 2.2 | -0.7 | 241 |
| 24-35 | 16.7 | 41.3 | -1.6 | 514 | 0.3 | 3.3 | 1.6 | 0.1 | 515 | 3.7 | 15.7 | 0.5 | -0.8 | 514 |
| 36-47 | 13.7 | 35.4 | -1.5 | 600 | 0.1 | 1.9 | 2.6 | 0.1 | 604 | 3.3 | 11.1 | 0.2 | -0.8 | 604 |
| 48-59 | 7.5 | 25.6 | -1.2 | 572 | 0.2 | 0.6 | 2.0 | 0.1 | 569 | 1.2 | 7.3 | 0.8 | -0.7 | 574 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 11.7 | 31.8 | -1.4 | 1,387 | 0.6 | 3.6 | 4.5 | 0.1 | 1,400 | 3.0 | 11.4 | 0.9 | -0.8 | 1,403 |
| Female | 8.6 | 27.9 | -1.2 | 1,427 | 0.4 | 3.2 | 4.2 | 0.0 | 1,425 | 2.7 | 10.4 | 1.7 | -0.7 | 1,428 |
| Birth interval in months ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First birth ${ }^{4}$ | 9.6 | 30.6 | -1.4 | 591 | 0.7 | 3.8 | 5.3 | -0.0 | 594 | 2.6 | 11.6 | 0.7 | -0.9 | 596 |
| <24 | 13.8 | 40.8 | -1.6 | 210 | 0.4 | 2.2 | 2.2 | 0.1 | 210 | 3.8 | 12.5 | 0.4 | -0.8 | 212 |
| 24-47 | 9.4 | 30.9 | -1.4 | 797 | 0.2 | 4.5 | 4.7 | 0.1 | 797 | 3.3 | 10.3 | 1.5 | -0.7 | 800 |
| 48+ | 6.1 | 21.7 | -1.1 | 714 | 0.7 | 3.4 | 4.2 | 0.0 | 720 | 1.8 | 8.6 | 1.2 | -0.6 | 720 |
| Size at birth ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Very small | 12.6 | 39.5 | -1.6 | 125 | 0.8 | 14.4 | 0.5 | -0.5 | 125 | 5.1 | 26.8 | 0.8 | -1.3 | 125 |
| Small | 15.7 | 37.4 | -1.7 | 182 | 0.9 | 3.6 | 3.7 | -0.2 | 182 | 3.8 | 18.3 | 0.0 | -1.2 | 184 |
| Average or larger | 8.0 | 27.3 | -1.3 | 1,992 | 0.4 | 3.1 | 4.8 | 0.1 | 2,002 | 2.4 | 8.6 | 1.2 | -0.7 | 2,007 |
| Don't know | * | * | * | 13 | * | * | * | * | 13 | * | * | * | * | 13 |
| Mother's interview status |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Interviewed | 8.8 | 28.9 | -1.3 | 2,312 | 0.5 | 3.7 | 4.5 | 0.0 | 2,322 | 2.7 | 10.3 | 1.1 | -0.7 | 2,329 |
| Not interviewed but in household | 3.8 | 19.3 | -0.7 | 58 | 0.0 | 0.7 | 9.9 | 0.3 | 58 | 0.0 | 7.2 | 9.2 | -0.2 | 58 |
| Not interviewed and not in the household ${ }^{5}$ | 17.5 | 36.0 | -1.5 | 444 | 0.7 | 2.0 | 3.0 | 0.1 | 445 | 4.3 | 14.4 | 1.3 | -0.8 | 444 |
| Mother's nutritional status ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thin (BMI <18.5) | 9.8 | 27.4 | -1.4 | 96 | 1.0 | 8.3 | 4.0 | -0.5 | 99 | 7.2 | 19.0 | 1.9 | -1.1 | 99 |
| Normal (BMI 18.5-24.9) | 10.0 | 32.4 | -1.4 | 1,258 | 0.4 | 4.1 | 3.1 | 0.0 | 1,266 | 3.4 | 11.6 | 1.2 | -0.8 | 1,269 |
| Overweight/obese ( $\mathrm{BMI} \geq 25$ ) | 6.9 | 21.8 | -1.1 | 644 | 0.6 | 2.9 | 4.4 | 0.0 | 645 | 1.1 | 7.9 | 0.8 | -0.6 | 646 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 8.8 | 25.0 | -1.2 | 1,465 | 0.2 | 3.4 | 4.7 | 0.0 | 1,470 | 2.1 | 9.2 | 1.6 | -0.7 | 1,471 |
| Greater Monrovia | 6.4 | 18.7 | -1.1 | 732 | 0.0 | 4.2 | 3.3 | -0.1 | 734 | 2.5 | 9.9 | 1.3 | -0.7 | 736 |
| Other urban | 11.2 | 31.2 | -1.4 | 733 | 0.4 | 2.5 | 6.0 | 0.2 | 735 | 1.6 | 8.5 | 2.0 | -0.6 | 735 |
| Rural | 11.5 | 35.1 | -1.5 | 1,349 | 0.9 | 3.4 | 4.0 | 0.1 | 1,355 | 3.7 | 12.7 | 0.9 | -0.8 | 1,360 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 10.4 | 32.8 | -1.4 | 254 | 1.9 | 5.0 | 3.3 | -0.1 | 254 | 3.6 | 15.9 | 0.7 | -0.9 | 257 |
| South Central | 8.4 | 24.6 | -1.2 | 1,173 | 0.3 | 3.8 | 3.5 | -0.1 | 1,178 | 2.6 | 10.7 | 1.0 | -0.8 | 1,177 |
| South Eastern A | 9.5 | 33.5 | -1.4 | 194 | 0.8 | 3.8 | 2.3 | -0.0 | 194 | 4.0 | 12.6 | 0.2 | -0.9 | 195 |
| South Eastern B | 10.7 | 34.0 | -1.5 | 157 | 0.9 | 4.7 | 3.8 | 0.1 | 158 | 2.3 | 12.2 | 1.2 | -0.8 | 158 |
| North Central | 12.0 | 33.7 | -1.4 | 1,037 | 0.3 | 2.2 | 6.1 | 0.3 | 1,041 | 2.9 | 9.3 | 1.9 | -0.6 | 1,045 |

## Table 11.2 Initial breastfeeding

Among last-born children who were born in the 2 years preceding the survey, percentage who were ever breastfed and percentages who started breastfeeding within 1 hour and within 1 day of birth, and among last-born children born in the 2 years preceding the survey who were ever breastfed, percentage who received a prelacteal feed, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among last-born children born in the past 2 years: |  |  |  | Among last-born children born in the past 2 years who were ever breastfed: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage ever breastfed | Percentage who started breastfeeding within 1 hour of birth | Percentage who started breastfeeding within 1 day of birth ${ }^{1}$ | Number of lastborn children | Percentage who received a prelacteal feed ${ }^{2}$ | Number of lastborn children ever breastfed |
| Sex |  |  |  |  |  |  |
| Male | 96.2 | 65.6 | 90.0 | 1,044 | 7.6 | 1,004 |
| Female | 97.5 | 67.4 | 91.4 | 1,052 | 11.4 | 1,025 |
| Assistance at delivery |  |  |  |  |  |  |
| Health personnel ${ }^{3}$ | 96.5 | 66.7 | 90.8 | 1,823 | 9.8 | 1,760 |
| Traditional midwife | 99.0 | 64.2 | 89.9 | 254 | 8.6 | 251 |
| Other | * | * | * | 15 | * | 15 |
| No one | * | * | * | 3 | * | 3 |
| Place of delivery |  |  |  |  |  |  |
| Health facility | 96.7 | 66.9 | 90.9 | 1,744 | 9.3 | 1,687 |
| At home | 97.6 | 65.5 | 89.7 | 333 | 11.4 | 325 |
| Other | (93.2) | (48.9) | (87.4) | 18 | (0.9) | 17 |
| Residence |  |  |  |  |  |  |
| Urban | 96.2 | 64.4 | 89.6 | 1,129 | 12.5 | 1,086 |
| Greater Monrovia | 95.3 | 67.0 | 88.7 | 574 | 15.7 | 547 |
| Other urban | 97.2 | 61.8 | 90.6 | 555 | 9.4 | 539 |
| Rural | 97.5 | 68.9 | 91.9 | 967 | 6.1 | 943 |
| Region |  |  |  |  |  |  |
| North Western | 99.0 | 72.9 | 93.9 | 184 | 6.9 | 183 |
| South Central | 96.0 | 64.9 | 88.8 | 926 | 14.3 | 889 |
| South Eastern A | 97.0 | 66.9 | 88.3 | 140 | 6.6 | 136 |
| South Eastern B | 97.0 | 75.9 | 94.2 | 112 | 6.7 | 109 |
| North Central | 97.2 | 65.4 | 92.2 | 733 | 5.3 | 713 |
| County |  |  |  |  |  |  |
| Bomi | 98.6 | 66.5 | 93.5 | 58 | 11.2 | 57 |
| Bong | 97.0 | 78.6 | 88.8 | 231 | 5.3 | 224 |
| Gbarpolu | 99.4 | 68.3 | 89.9 | 37 | 4.5 | 36 |
| Grand Bassa | 97.0 | 64.0 | 87.0 | 151 | 14.0 | 146 |
| Grand Cape Mount | 99.1 | 78.9 | 95.9 | 90 | 5.1 | 89 |
| Grand Gedeh | 99.1 | 77.9 | 93.2 | 53 | 6.2 | 53 |
| Grand Kru | 98.4 | 73.3 | 93.6 | 43 | 8.3 | 42 |
| Lofa | 96.0 | 60.0 | 92.3 | 172 | 3.3 | 165 |
| Margibi | 96.9 | 56.5 | 90.8 | 119 | 10.6 | 115 |
| Maryland | 96.3 | 75.3 | 95.2 | 48 | 5.7 | 46 |
| Montserrado | 95.7 | 66.6 | 88.8 | 656 | 15.1 | 628 |
| Nimba | 98.1 | 59.0 | 94.4 | 330 | 6.3 | 324 |
| River Cess | 97.0 | 74.7 | 89.8 | 32 | 4.4 | 31 |
| River Gee | 95.9 | 82.2 | 93.3 | 22 | 5.7 | 21 |
| Sinoe | 94.9 | 51.5 | 82.5 | 55 | 8.4 | 52 |
| Mother's education |  |  |  |  |  |  |
| No education | 97.0 | 69.2 | 92.4 | 683 | 6.0 | 662 |
| Elementary | 97.4 | 64.0 | 90.5 | 565 | 9.1 | 551 |
| Junior high | 95.5 | 68.5 | 90.0 | 381 | 9.9 | 364 |
| Senior high | 97.4 | 64.7 | 90.2 | 388 | 15.3 | 378 |
| Higher | (94.8) | (60.1) | (82.1) | 78 | (13.5) | 74 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 96.3 | 69.0 | 90.5 | 507 | 5.4 | 488 |
| Second | 98.1 | 66.9 | 93.1 | 444 | 5.0 | 436 |
| Middle | 99.0 | 66.0 | 92.3 | 394 | 13.4 | 390 |
| Fourth | 95.9 | 65.4 | 88.7 | 411 | 12.8 | 394 |
| Highest | 94.5 | 64.2 | 88.2 | 340 | 13.4 | 321 |
| Total | 96.8 | 66.5 | 90.7 | 2,096 | 9.6 | 2,029 |

[^15]
## Table 11.3 Breastfeeding status by age

Percent distribution of youngest children under age 2 who are living with their mother by breastfeeding status and percentage currently breastfeeding, and percentage of all children under age 2 using a bottle with a nipple, according to age in months, Liberia DHS 2019-20

| Age in months | Not breastfeeding | Breastfeeding status |  |  |  |  |  | Percentage currently breastfeeding | Number of youngest children under age 2 living with their mother | Percentage using a bottle with a nipple | Number of all children under age 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Exclusively breastfed | Breastfeeding and consuming plain water only | Breastfeeding and consuming non-milk liquids ${ }^{1}$ | Breastfeeding and consuming other milk | Breastfeeding and consuming complement ary foods | Total |  |  |  |  |
| 0-1 | 2.2 | 72.6 | 15.0 | 4.5 | 1.4 | 4.3 | 100.0 | 97.8 | 161 | 15.5 | 167 |
| 2-3 | 3.9 | 59.3 | 21.8 | 0.5 | 3.5 | 11.1 | 100.0 | 96.1 | 201 | 21.4 | 204 |
| 4-5 | 11.9 | 36.6 | 26.5 | 2.2 | 10.2 | 12.6 | 100.0 | 88.1 | 194 | 28.6 | 198 |
| 6-8 | 4.4 | 6.8 | 33.1 | 3.3 | 8.5 | 44.0 | 100.0 | 95.6 | 290 | 21.9 | 294 |
| 9-11 | 9.4 | 3.0 | 18.0 | 0.7 | 5.1 | 63.9 | 100.0 | 90.6 | 233 | 16.9 | 235 |
| 12-17 | 13.5 | 1.1 | 6.6 | 0.1 | 0.5 | 78.2 | 100.0 | 86.5 | 440 | 6.3 | 464 |
| 18-23 | 52.1 | 0.0 | 1.8 | 0.3 | 1.1 | 44.6 | 100.0 | 47.9 | 404 | 5.9 | 474 |
| 0-3 | 3.1 | 65.2 | 18.8 | 2.3 | 2.6 | 8.1 | 100.0 | 96.9 | 361 | 18.8 | 371 |
| 0-5 | 6.2 | 55.2 | 21.5 | 2.2 | 5.2 | 9.7 | 100.0 | 93.8 | 555 | 22.2 | 569 |
| 6-9 | 6.2 | 6.6 | 30.0 | 2.9 | 7.0 | 47.2 | 100.0 | 93.8 | 373 | 21.3 | 377 |
| 12-15 | 8.4 | 1.3 | 5.8 | 0.0 | 0.0 | 84.6 | 100.0 | 91.6 | 285 | 9.1 | 300 |
| 12-23 | 32.0 | 0.6 | 4.3 | 0.2 | 0.8 | 62.1 | 100.0 | 68.0 | 844 | 6.1 | 937 |
| 20-23 | 63.0 | 0.0 | 0.8 | 0.0 | 1.9 | 34.3 | 100.0 | 37.0 | 240 | 3.4 | 282 |

Note: Breastfeeding status refers to a "24-hour" period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfed, breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semisolids) are hierarchical and mutually exclusive, and their percentages add to $100 \%$. Thus, children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.
${ }^{1}$ Non-milk liquids include juice, juice drinks, clear broth, or other liquids.

Table 11.4 Infant and young child feeding (IYCF) indicators on breastfeeding status

Percentage of children fed according to various IYCF practices,
Liberia DHS 2019-20

| Indicator | Percentage | Number |
| :--- | :---: | :---: |
| Exclusive breastfeeding under <br> 6 months <br> Exclusive breastfeeding at | 55.2 | 555 |
| $4-5$ months <br> Continued breastfeeding at <br> 1 year | 36.6 | 194 |
| Introduction of solid, semisolid, <br> or soft foods (6-8 months) <br> Continued breastfeeding at <br> 2 years | 91.6 | 285 |
| Age-appropriate breastfeeding <br> (0-23 months) | 35.0 | 290 |
| Predominant breastfeeding <br> $(0-5$ months) | 57.0 | 240 |
| Mixed breast and non-breast <br> milk feeding (0-5 months) |  |  |
| Bottle feeding (0-23 months) | 79.0 | 1,921 |

${ }^{1}$ For children age 0-5 months: exclusively breastfed; for children age 6-23 months: received breast milk and complementary foods
${ }^{2}$ Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only
${ }^{3}$ Received breast milk and fresh, tinned, or powdered animal milk or commercial infant formula

| Table 11.5 Median duration of breastfeeding |  |  |  |
| :---: | :---: | :---: | :---: |
| Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the 3 years preceding the survey, according to background characteristics, Liberia DHS 201920 |  |  |  |
|  | Median duration (months) of breastfeeding among children born in the past 3 years ${ }^{1}$ |  |  |
| Background characteristic | Any breastfeeding | Exclusive breastfeeding | Predominant breastfeeding ${ }^{2}$ |
| Sex |  |  |  |
| Male | 19.7 | 2.7 | 6.5 |
| Female | 19.3 | 3.7 | 6.4 |
| Residence |  |  |  |
| Urban | 18.1 | 2.4 | 5.6 |
| Greater Monrovia | (16.6) | a |  |
| Other urban | 20.4 | 4.0 | 6.9 |
| Rural | 20.6 | 3.7 | 7.8 |
| Region |  |  |  |
| North Western | 19.3 | 3.9 | 7.5 |
| South Central | 17.3 | 1.8 | 4.4 |
| South Eastern A | 20.5 | * | 6.7 |
| South Eastern B | 21.4 | 3.7 | 7.5 |
| North Central | 21.3 | 4.1 | 7.8 |
| County |  |  |  |
| Bomi | (19.2) | * | * |
| Bong | 21.8 | 4.4 | 7.5 |
| Gbarpolu | (20.8) | * | (10.0) |
| Grand Bassa | (21.4) | 3.1 | 7.5 |
| Grand Cape Mount | (18.4) | (4.9) | (6.8) |
| Grand Gedeh | (20.2) | * | (8.0) |
| Grand Kru | (20.7) | * | (8.1) |
| Lofa | (20.9) | (4.4) | (6.3) |
| Margibi | (17.8) | (3.8) | (5.7) |
| Maryland | (21.4) | (5.3) | (6.7) |
| Montserrado | 16.8 | a | 3.6 |
| Nimba | 20.7 | 3.8 | 8.3 |
| River Cess | (23.7) | (3.7) | (7.2) |
| River Gee | * | * | (7.8) |
| Sinoe | (20.1) | a | (5.7) |
| Mother's education |  |  |  |
| No education | 21.4 | 3.9 | 7.4 |
| Elementary | 20.1 | 3.7 | 8.0 |
| Junior high | 17.9 | 3.4 | 7.0 |
| Senior high | 16.6 | * | 3.4 |
| Higher | a | a | a |
| Wealth quintile |  |  |  |
| Lowest | 20.7 | 3.9 | 7.8 |
| Second | 20.6 | 3.3 | 8.1 |
| Middle | 21.0 | 4.3 | 6.9 |
| Fourth | 17.2 | a | 5.6 |
| Highest | (16.5) | * | 3.0 |
| Total | 19.4 | 3.1 | 6.5 |
| Mean for all children | 19.6 | 4.5 | 7.8 |

Note: Median and mean durations are based on breastfeeding status of the child at the time of the survey (current status). Includes living and deceased 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.
$\mathrm{a}=$ Omitted because less than $50 \%$ of the children in this group were exclusively or predominantly breastfeeding
${ }^{1}$ For last-born children under age 24 months who live with their mother and are breastfeeding, information to determine exclusive and predominant breastfeeding comes from a 24 -hour dietary recall. Tabulations assume that last-born children age 24 months or older who live with their mother and are breastfeeding are neither exclusively nor predominantly breastfed. It is assumed that last-born children not currently living with their mother and all non-last-born children are not currently breastfeeding
${ }^{2}$ Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

Table 11.6 Foods and liquids consumed by children in the day or night preceding the interview
Percentage of youngest children under age 2 who are living with their mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Liberia DHS 2019-20

| Age in months | Liquids |  |  | Solid or semisolid foods |  |  |  |  |  |  |  |  | Red palm oil | Any solid or semisolid food | Number of children under age 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Infant formula | Other milk ${ }^{1}$ | Other liquids ${ }^{2}$ | Fortified baby foods | Food made from grains ${ }^{3}$ | Fruits and vegetables rich in vitamin $\mathrm{A}^{4}$ | Other fruits and vegetables | Food made from roots and tubers | Food made from legumes and nuts | Meat, fish, poultry | Eggs | Cheese, yogurt, other milk products |  |  |  |
| BREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-1 | 1.5 | 0.0 | 6.7 | 0.0 | 0.0 | 3.9 | 0.0 | 1.8 | 0.0 | 3.9 | 2.1 | 0.0 | 1.8 | 4.4 | 157 |
| 2-3 | 2.7 | 4.4 | 1.8 | 4.3 | 10.9 | 1.4 | 2.4 | 0.0 | 0.0 | 1.9 | 0.5 | 0.0 | 1.9 | 11.5 | 193 |
| 4-5 | 7.3 | 13.5 | 2.5 | 6.5 | 12.9 | 1.9 | 2.2 | 1.8 | 0.5 | 2.5 | 0.5 | 0.0 | 1.9 | 14.3 | 171 |
| 6-8 | 11.9 | 9.6 | 12.8 | 13.4 | 38.5 | 14.9 | 3.7 | 7.2 | 1.7 | 14.6 | 2.9 | 3.6 | 21.8 | 46.0 | 277 |
| 9-11 | 7.8 | 11.1 | 13.0 | 3.1 | 54.6 | 30.2 | 9.9 | 15.1 | 4.4 | 35.1 | 10.4 | 9.1 | 39.3 | 70.5 | 211 |
| 12-17 | 3.7 | 8.7 | 21.2 | 4.8 | 80.0 | 50.9 | 12.3 | 28.9 | 5.8 | 57.4 | 9.9 | 4.7 | 61.7 | 90.2 | 380 |
| 18-23 | 0.6 | 3.1 | 18.1 | 0.0 | 83.5 | 48.6 | 13.0 | 39.6 | 8.9 | 64.0 | 6.2 | 1.8 | 68.0 | 93.2 | 193 |
| 6-23 | 6.1 | 8.4 | 16.8 | 5.8 | 64.8 | 36.9 | 9.7 | 22.5 | 5.0 | 43.0 | 7.5 | 4.7 | 48.0 | 75.3 | 1,062 |
| Total | 5.3 | 7.6 | 12.4 | 5.1 | 46.2 | 25.6 | 7.0 | 15.5 | 3.4 | 29.7 | 5.4 | 3.2 | 32.8 | 53.9 | 1,582 |
| NONBREASTFEEDING CHILDREN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-1 | * | * | * | * | * |  | * |  | * | * | * | * | * | * | 3 |
| 2-3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 8 |
| 4-5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 23 |
| 6-8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 |
| 9-11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 22 |
| 12-17 | 0.9 | 14.2 | 20.4 | 12.2 | 72.7 | 51.3 | 7.9 | 28.2 | 18.8 | 71.2 | 13.9 | 6.5 | 58.3 | 95.2 | 59 |
| 18-23 | 5.8 | 10.8 | 25.4 | 0.9 | 79.7 | 54.4 | 17.1 | 29.1 | 13.1 | 65.8 | 10.5 | 5.1 | 73.2 | 95.6 | 211 |
| 6-23 | 7.7 | 13.1 | 24.0 | 5.9 | 73.9 | 50.2 | 14.6 | 27.1 | 13.0 | 61.1 | 10.1 | 7.1 | 64.2 | 91.9 | 304 |
| Total | 8.2 | 16.5 | 21.6 | 7.8 | 69.0 | 45.1 | 13.2 | 24.4 | 11.7 | 54.9 | 9.1 | 7.5 | 57.7 | 86.2 | 339 |

Note: Breastfeeding status and food consumed refer to a " 24 -hour" period (yesterday and last night). An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Other milk includes fresh, tinned, and powdered animal milk.
${ }^{2}$ Does not include plain water. Includes juice, juice drinks, clear broth, or other non-milk liquids.
${ }^{3}$ Includes fortified baby food
${ }^{4}$ Includes pumpkin, carrots, squash, yellow or orange sweet potatoes, dark green leafy vegetables, ripe mangoes, ripe papayas, and other locally grown fruits and vegetables that are rich in vitamin A
Table 11.7 Minimum acceptable diet
 preceding the survey, according to background characteristics, Liberia DHS 2019-20

|  | Among breastfed children age 6-23 months, percentage fed: |  |  |  | Among nonbreastfed children age 6-23 months, percentage fed: |  |  |  |  | Among all children age 6-23 months, percentage fed: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{2}$ | Minimum acceptable $\operatorname{diet}^{3}$ | Number of breastfed children age 6-23 months | Minimum milk feeding frequency ${ }^{4}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{5}$ | Minimum acceptable diet ${ }^{6}$ | Number of nonbreastfed children age 6-23 months | Breast milk, milk, or milk products ${ }^{7}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{8}$ | Minimum acceptable $\operatorname{diet}^{9}$ | Number of all children age 6-23 months |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6-11 | 5.1 | 23.3 | 2.4 | 488 | * | * | * | * | 34 | 95.0 | 4.8 | 23.3 | 2.2 | 522 |
| 6-8 | 2.6 | 30.0 | 2.2 | 277 | * | * | * | * | 13 | 95.9 | 2.5 | 28.9 | 2.1 | 290 |
| 9-11 | 8.3 | 14.6 | 2.7 | 211 | * | * | * | * | 22 | 93.8 | 7.6 | 16.3 | 2.5 | 233 |
| 12-17 | 14.0 | 27.5 | 5.5 | 380 | 14.2 | 3.0 | 17.7 | 0.0 | 59 | 88.4 | 12.5 | 26.1 | 4.8 | 440 |
| 18-23 | 10.6 | 18.4 | 3.6 | 193 | 11.5 | 8.1 | 13.8 | 3.1 | 211 | 53.8 | 9.3 | 16.0 | 3.3 | 404 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 9.0 | 22.1 | 3.9 | 515 | 13.1 | 4.7 | 9.9 | 0.5 | 151 | 80.3 | 8.0 | 19.3 | 3.1 | 665 |
| Female | 9.6 | 25.6 | 3.6 | 547 | 13.6 | 7.6 | 21.3 | 3.7 | 154 | 81.1 | 9.2 | 24.7 | 3.6 | 701 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 11.9 | 26.9 | 5.0 | 521 | 19.8 | 7.9 | 20.2 | 3.2 | 203 | 77.6 | 10.7 | 25.0 | 4.5 | 724 |
| Greater Monrovia | 10.9 | 34.9 | 6.5 | 220 | (25.6) | (3.6) | (24.4) | (0.8) | 132 | 72.1 | 8.2 | 30.9 | 4.4 | 352 |
| Other urban | 12.5 | 21.1 | 3.9 | 301 | 9.1 | 15.9 | 12.4 | 7.5 | 71 | 82.7 | 13.2 | 19.5 | 4.6 | 372 |
| Rural | 6.8 | 21.0 | 2.5 | 540 | 0.5 | 2.9 | 6.6 | 0.0 | 102 | 84.2 | 6.2 | 18.7 | 2.1 | 642 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 11.0 | 23.6 | 4.5 | 91 | (0.0) | (0.9) | (11.1) | (0.0) | 23 | 79.7 | 9.0 | 21.1 | 3.6 | 114 |
| South Central | 9.4 | 25.8 | 4.5 | 412 | 21.1 | 6.5 | 20.8 | 1.5 | 170 | 77.0 | 8.6 | 24.3 | 3.6 | 582 |
| South Eastern A | 12.5 | 32.4 | 3.8 | 83 | (9.8) | (8.2) | (15.5) | (3.7) | 18 | 84.0 | 11.8 | 29.4 | 3.8 | 101 |
| South Eastern B | 8.2 | 27.5 | 2.4 | 62 | (0.0) | (6.1) | (23.6) | (0.0) | 11 | 85.2 | 7.9 | 26.9 | 2.0 | 73 |
| North Central | 8.3 | 19.8 | 3.0 | 413 | 3.8 | 6.6 | 5.4 | 3.8 | 83 | 84.0 | 8.0 | 17.4 | 3.2 | 496 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | (18.3) | (30.3) | (8.2) | 28 | * | * | * | * | 6 | 82.1 | 15.7 | 27.6 | 6.7 | 34 |
| Bong | 10.8 | 20.8 | 5.0 | 135 | * | * | * | * | 18 | 88.4 | 11.0 | 19.2 | 4.4 | 153 |
| Gbarpolu | 4.4 | 15.0 | 0.8 | 21 | * | * | * | * | 4 | 84.8 | 3.7 | 13.3 | 0.7 | 25 |
| Grand Bassa | 14.0 | 14.8 | 4.9 | 84 | * | * | * | * | 11 | 88.6 | 13.6 | 14.3 | 4.3 | 95 |
| Grand Cape Mount | 9.5 | 23.7 | 3.9 | 41 | * | * | * | * | 13 | 75.8 | 7.2 | 20.6 | 2.9 | 55 |
| Grand Gedeh | 17.0 | 18.9 | 2.6 | 35 | * | * | * | * | 8 | 83.6 | 16.1 | 18.8 | 3.7 | 43 |
| Grand Kru | 2.5 | 34.5 | 0.9 | 23 | * | * | * | * | 4 | 84.5 | 2.1 | 32.7 | 0.8 | 28 |
| Lofa | 8.1 | 28.7 | 1.4 | 85 | * | * | * | * | 27 | 75.9 | 6.2 | 21.8 | 1.1 | 112 |
| Margibi | 3.4 | 15.2 | 0.0 | 62 | * | * | * | * | 20 | 77.7 | 9.0 | 13.9 | 1.8 | 82 |
| Maryland | 9.4 | 24.2 | 1.6 | 25 | * | * | * | * | 6 | 81.4 | 9.8 | 24.5 | 1.3 | 30 |
| Montserrado | 9.3 | 31.7 | 5.3 | 267 | 24.3 | 3.4 | 23.2 | 0.8 | 139 | 74.1 | 7.3 | 28.8 | 3.8 | 405 |
| Nimba | 6.7 | 15.2 | 2.4 | 193 | (8.3) | (8.3) | (8.3) | (8.3) | 38 | 84.9 | 7.0 | 14.1 | 3.4 | 231 |
| River Cess | 14.3 | 34.3 | 4.8 | 18 | * | * | * | * | 2 | 89.9 | 15.1 | 31.8 | 4.3 | 20 |
| River Gee | 15.7 | 21.7 | 6.0 | 14 | * | * | * | * | 1 | 94.5 | 14.9 | 21.1 | 5.7 | 15 |
| Sinoe | 6.4 | 47.0 | 4.7 | 30 | * | * | * | * | 8 | 81.4 | 5.1 | 40.2 | 3.7 | 38 |

Table 11.7-Continued

| Background characteristic | percentage fed: |  |  |  | Among nonbreastfed children age 6-23 months, percentage fed: |  |  |  |  | Among all children age 6-23 months, percentage fed: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{2}$ | Minimum acceptable diet $^{3}$ | Number of breastfed children age 6-23 months | Minimum milk feeding frequency ${ }^{4}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{5}$ | Minimum acceptable diet $^{6}$ | Number of nonbreastfed children age 6-23 months | Breast milk, milk, or milk products ${ }^{7}$ | Minimum dietary diversity ${ }^{1}$ | Minimum meal frequency ${ }^{8}$ | Minimum acceptable $\operatorname{diet}^{9}$ | Number of all children age 6-23 months |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 6.2 | 19.7 | 1.5 | 366 | 7.9 | 3.4 | 12.2 | 0.9 | 82 | 83.2 | 5.7 | 18.3 | 1.4 | 448 |
| Elementary | 8.9 | 24.6 | 3.2 | 298 | 9.4 | 8.5 | 5.7 | 0.0 | 71 | 82.6 | 8.8 | 21.0 | 2.6 | 370 |
| Junior high | 8.5 | 27.1 | 2.4 | 197 | 10.5 | 6.6 | 17.0 | 5.3 | 74 | 75.5 | 8.0 | 24.3 | 3.2 | 271 |
| Senior high | 15.0 | 29.0 | 7.9 | 166 | (19.1) | (6.9) | (21.2) | (1.1) | 59 | 78.7 | 12.9 | 27.0 | 6.1 | 226 |
| Higher | * | * | * | 34 | * | * | * | * | 18 | * | * | * | * | 52 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 5.1 | 17.1 | 2.0 | 275 | 0.0 | 0.7 | 2.8 | 0.0 | 62 | 81.7 | 4.3 | 14.5 | 1.7 | 336 |
| Second | 8.4 | 23.5 | 2.3 | 245 | 6.7 | 14.4 | 13.9 | 6.7 | 47 | 84.9 | 9.3 | 21.9 | 3.0 | 292 |
| Middle | 8.2 | 23.3 | 2.3 | 228 | 0.0 | 17.5 | 10.5 | 0.0 | 38 | 85.6 | 9.5 | 21.4 | 2.0 | 266 |
| Fourth | 9.7 | 25.2 | 3.1 | 187 | 6.4 | 1.8 | 8.4 | 0.0 | 90 | 69.6 | 7.1 | 19.8 | 2.1 | 277 |
| Highest | 21.6 | 38.5 | 13.5 | 127 | (47.2) | (4.8) | (41.3) | (4.8) | 67 | 81.8 | 15.8 | 39.5 | 10.5 | 194 |
| Total | 9.3 | 23.9 | 3.7 | 1,062 | 13.4 | 6.2 | 15.6 | 2.1 | 304 | 80.7 | 8.6 | 22.1 | 3.4 | 1,366 |


 ${ }_{2}^{2}$ 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.
 ${ }^{4}$ Includes two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt
 5, and receive solid, semisolid, or soft foods from at least four food groups not including the milk or milk products food group.
${ }^{7}$ Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt
${ }^{8}$ Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 5 .
 described in footnote 1 , and are fed the minimum meal frequency as described in footnotes 2 and 5 .

Table 11.8 Prevalence of anemia in children
Percentage of children age 6-59 months classified as having anemia, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Anemia status by hemoglobin level |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Any } \\ \text { anemia } \\ (<11.0 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | $\begin{gathered} \text { Mild } \\ \text { anemia } \\ (10.0-10.9 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Moderate anemia (7.0-9.9 g/dl) | $\begin{gathered} \text { Severe } \\ \text { anemia } \\ (<7.0 \mathrm{~g} / \mathrm{dl}) \end{gathered}$ | Number of children age 6-59 months |
| Age in months |  |  |  |  |  |
| 6-8 | 72.1 | 29.8 | 38.7 | 3.7 | 172 |
| 9-11 | 78.5 | 41.7 | 36.1 | 0.7 | 151 |
| 12-17 | 76.3 | 25.4 | 47.5 | 3.4 | 281 |
| 18-23 | 75.8 | 26.1 | 45.0 | 4.7 | 239 |
| 24-35 | 78.4 | 30.6 | 42.2 | 5.6 | 513 |
| 36-47 | 69.1 | 31.5 | 34.5 | 3.2 | 598 |
| 48-59 | 58.4 | 24.8 | 31.6 | 1.9 | 571 |
| Sex |  |  |  |  |  |
| Male | 70.8 | 29.3 | 38.4 | 3.0 | 1,238 |
| Female | 70.8 | 28.9 | 38.0 | 3.8 | 1,286 |
| Mother's interview status |  |  |  |  |  |
| Interviewed | 71.0 | 29.4 | 38.5 | 3.2 | 2,028 |
| Not interviewed but in household | 56.3 | 38.4 | 13.7 | 4.2 | 56 |
| Not interviewed and not in the household ${ }^{1}$ | 71.4 | 26.7 | 40.1 | 4.6 | 440 |
| Residence |  |  |  |  |  |
| Urban | 70.1 | 30.1 | 36.9 | 3.0 | 1,311 |
| Greater Monrovia | 67.9 | 30.0 | 35.5 | 2.4 | 664 |
| Other urban | 72.3 | 30.2 | 38.5 | 3.6 | 647 |
| Rural | 71.5 | 28.1 | 39.6 | 3.9 | 1,213 |
| Region |  |  |  |  |  |
| North Western | 72.2 | 24.9 | 43.7 | 3.6 | 226 |
| South Central | 71.2 | 28.7 | 38.9 | 3.7 | 1,055 |
| South Eastern A | 71.7 | 30.3 | 38.4 | 3.0 | 172 |
| South Eastern B | 76.5 | 24.8 | 47.6 | 4.1 | 144 |
| North Central | 68.8 | 31.1 | 34.6 | 3.1 | 926 |
| County |  |  |  |  |  |
| Bomi | 80.8 | 26.1 | 50.4 | 4.3 | 85 |
| Bong | 65.7 | 27.0 | 34.2 | 4.5 | 283 |
| Gbarpolu | 56.7 | 19.0 | 35.2 | 2.5 | 45 |
| Grand Bassa | 77.3 | 22.9 | 46.1 | 8.3 | 175 |
| Grand Cape Mount | 72.0 | 26.6 | 41.8 | 3.6 | 96 |
| Grand Gedeh | 72.4 | 23.6 | 44.1 | 4.7 | 60 |
| Grand Kru | 80.0 | 27.0 | 49.2 | 3.8 | 51 |
| Lofa | 61.9 | 31.6 | 29.3 | 1.0 | 190 |
| Margibi | 78.4 | 30.7 | 47.4 | 0.3 | 127 |
| Maryland | 75.6 | 23.5 | 46.7 | 5.4 | 66 |
| Montserrado | 68.6 | 29.7 | 35.8 | 3.1 | 754 |
| Nimba | 73.7 | 33.5 | 37.1 | 3.1 | 453 |
| River Cess | 69.6 | 34.5 | 35.1 | 0.0 | 46 |
| River Gee | 72.3 | 23.9 | 46.6 | 1.9 | 26 |
| Sinoe | 72.5 | 33.3 | 35.6 | 3.6 | 67 |
| Mother's education ${ }^{2}$ |  |  |  |  |  |
| No education | 70.8 | 29.0 | 38.6 | 3.2 | 1,431 |
| Elementary | 77.6 | 25.7 | 45.4 | 6.6 | 395 |
| Junior high | 68.6 | 31.2 | 35.4 | 1.9 | 376 |
| Senior high | 69.1 | 32.4 | 33.0 | 3.7 | 160 |
| Higher | 60.4 | 30.3 | 29.1 | 1.0 | 162 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 70.3 | 27.6 | 37.3 | 5.4 | 626 |
| Second | 71.8 | 27.1 | 41.5 | 3.3 | 562 |
| Middle | 76.5 | 31.7 | 41.6 | 3.2 | 506 |
| Fourth | 69.8 | 28.7 | 38.8 | 2.3 | 458 |
| Highest | 63.3 | 31.8 | 29.4 | 2.1 | 373 |
| Total | 70.8 | 29.1 | 38.2 | 3.4 | 2,524 |

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anemia. Prevalence of anemia, based on hemoglobin levels, is adjusted for altitude using formulas in CDC 1998.
Hemoglobin is in grams per deciliter ( $\mathrm{g} / \mathrm{dl}$ ).
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ 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 11.9 Presence of iodized 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 iodized salt, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among all households, percentage |  |  |  | Among households with tested salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | With salt tested | With salt, but salt not tested ${ }^{1}$ | With no salt in the household | Number of households | Percentage with iodized salt | Number of households |
| Residence |  |  |  |  |  |  |
| Urban | 85.0 | 0.3 | 14.7 | 5,195 | 98.3 | 4,416 |
| Greater Monrovia | 81.7 | 0.4 | 17.8 | 2,911 | 98.1 | 2,380 |
| Other urban | 89.1 | 0.3 | 10.6 | 2,284 | 98.5 | 2,036 |
| Rural | 91.4 | 0.0 | 8.6 | 3,873 | 98.7 | 3,540 |
| Region |  |  |  |  |  |  |
| North Western | 91.2 | 0.0 | 8.8 | 850 | 98.7 | 775 |
| South Central | 84.5 | 0.3 | 15.3 | 4,334 | 98.5 | 3,660 |
| South Eastern A | 96.7 | 0.1 | 3.2 | 628 | 99.1 | 608 |
| South Eastern B | 94.8 | 0.1 | 5.2 | 473 | 96.9 | 448 |
| North Central | 88.6 | 0.2 | 11.2 | 2,784 | 98.5 | 2,466 |
| County |  |  |  |  |  |  |
| Bomi | 88.7 | 0.0 | 11.3 | 319 | 98.5 | 283 |
| Bong | 89.6 | 0.3 | 10.1 | 868 | 98.6 | 778 |
| Gbarpolu | 93.5 | 0.0 | 6.5 | 175 | 100.0 | 164 |
| Grand Bassa | 91.5 | 0.0 | 8.5 | 517 | 99.0 | 473 |
| Grand Cape Mount | 92.4 | 0.0 | 7.6 | 355 | 98.2 | 328 |
| Grand Gedeh | 97.3 | 0.1 | 2.6 | 246 | 99.1 | 239 |
| Grand Kru | 91.1 | 0.2 | 8.7 | 147 | 97.0 | 134 |
| Lofa | 88.9 | 0.0 | 11.1 | 734 | 98.6 | 653 |
| Margibi | 93.8 | 0.0 | 6.2 | 560 | 99.1 | 525 |
| Maryland | 98.1 | 0.0 | 1.9 | 229 | 95.9 | 224 |
| Montserrado | 81.7 | 0.4 | 17.9 | 3,257 | 98.3 | 2,662 |
| Nimba | 87.6 | 0.3 | 12.1 | 1,181 | 98.3 | 1,035 |
| River Cess | 97.5 | 0.0 | 2.5 | 157 | 99.7 | 153 |
| River Gee | 92.5 | 0.0 | 7.5 | 97 | 99.1 | 90 |
| Sinoe | 95.7 | 0.0 | 4.3 | 225 | 98.7 | 215 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 90.7 | 0.0 | 9.3 | 1,965 | 98.3 | 1,783 |
| Second | 90.4 | 0.0 | 9.6 | 1,723 | 98.9 | 1,557 |
| Middle | 90.4 | 0.0 | 9.6 | 1,748 | 98.2 | 1,580 |
| Fourth | 80.7 | 0.3 | 19.0 | 1,892 | 98.8 | 1,527 |
| Highest | 86.8 | 0.7 | 12.6 | 1,740 | 98.1 | 1,510 |
| Total | 87.7 | 0.2 | 12.1 | 9,068 | 98.5 | 7,956 |

${ }^{1}$ Includes households in which salt could not be tested for technical or logistical reasons, including availability of test kits

## Table 11.10 Micronutrient intake among children

Among youngest children age 6-23 months who are living with their mother, percentages who consumed vitamin A-rich and iron-rich foods in the 24 hours preceding the survey among all children age $6-23$ months, percentage given multiple micronutrient powders in the 7 days preceding the survey; among all children age 6 - 59 months, percentages who were given vitamin A supplements in the 6 months preceding the survey, who were given iron supplements in the 7 days preceding the survey, and who were given deworming medication in the 6 months preceding the survey; and among all children age 6-59 months who live in households in which salt was tested for iodine, percentage who live in households with iodized salt, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Among youngest children age 6-23 months living with their mother: |  |  | Among all children age 6-23 months: |  | Among all children age 6-59 months: |  |  |  | Among children age 6-59 months living in households tested for iodized salt: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who consumed foods rich in vitamin $A$ in last 24 hours ${ }^{1}$ | Percentage who consumed foods rich in iron in last 24 hours $^{2}$ | Number of children | Percentage given multiple micronutrient powders in past 7 days | Number of children | Percentage given iron supplements in past 7 days $^{3}$ | Percentage given vitamin A supplements in past 6 months ${ }^{4}$ | Percentage given deworming medication in past 6 months ${ }^{3,5}$ | Number of children | Percentage living in households with iodized salt ${ }^{6}$ | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |
| 6-8 | 21.2 | 14.2 | 290 | 2.8 | 294 | 26.9 | 34.6 | 19.5 | 294 | 99.1 | 281 |
| 9-11 | 48.0 | 39.9 | 233 | 9.8 | 235 | 34.6 | 53.3 | 40.2 | 235 | 97.7 | 217 |
| 12-17 | 75.6 | 61.9 | 440 | 8.8 | 464 | 33.3 | 56.1 | 56.5 | 464 | 98.7 | 441 |
| 18-23 | 80.3 | 67.2 | 404 | 8.7 | 474 | 32.8 | 51.1 | 60.4 | 474 | 98.4 | 438 |
| 24-35 | na | na | na | na | na | 28.6 | 47.9 | 55.3 | 873 | 98.9 | 784 |
| 36-47 | na | na | na | na | na | 25.0 | 44.3 | 53.8 | 978 | 99.5 | 893 |
| 48-59 | na | na | na | na | na | 23.8 | 42.1 | 52.0 | 980 | 99.2 | 885 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |
| Male | 60.3 | 48.9 | 665 | 6.7 | 717 | 29.1 | 46.3 | 51.0 | 2,137 | 98.9 | 1,954 |
| Female | 61.2 | 50.3 | 701 | 8.7 | 749 | 26.7 | 46.5 | 52.2 | 2,160 | 99.1 | 1,985 |
| Breastfeeding status |  |  |  |  |  |  |  |  |  |  |  |
| Breastfeeding | 55.9 | 45.4 | 1,062 | 6.3 | 1,081 | 32.9 | 51.3 | 45.7 | 1,188 | 98.9 | 1,125 |
| Not breastfeeding | 77.6 | 64.1 | 304 | 11.8 | 384 | 25.9 | 44.5 | 53.9 | 3,109 | 99.0 | 2,814 |
| Mother's age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 62.2 | 50.2 | 182 | 8.5 | 202 | 24.5 | 37.5 | 39.4 | 321 | 99.5 | 294 |
| 20-29 | 57.7 | 48.0 | 699 | 8.5 | 756 | 26.7 | 45.4 | 51.0 | 2,195 | 98.6 | 1,985 |
| 30-39 | 64.2 | 51.7 | 381 | 7.0 | 400 | 30.9 | 48.2 | 55.4 | 1,363 | 99.3 | 1,276 |
| 40-49 | 65.9 | 51.8 | 104 | 3.0 | 108 | 26.9 | 52.7 | 51.9 | 418 | 99.4 | 384 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 57.1 | 48.1 | 724 | 9.0 | 780 | 30.6 | 46.9 | 51.6 | 2,290 | 98.9 | 2,045 |
| Greater Monrovia | 49.7 | 38.5 | 352 | 12.0 | 387 | 28.2 | 41.3 | 51.8 | 1,150 | 99.5 | 979 |
| Other urban | 64.2 | 57.3 | 372 | 6.1 | 393 | 33.1 | 52.5 | 51.4 | 1,140 | 98.4 | 1,066 |
| Rural | 64.9 | 51.2 | 642 | 6.2 | 686 | 24.7 | 45.8 | 51.7 | 2,007 | 99.1 | 1,894 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 64.5 | 53.1 | 114 | 9.7 | 128 | 30.8 | 45.7 | 57.4 | 370 | 99.1 | 350 |
| South Central | 53.1 | 43.4 | 582 | 10.4 | 632 | 29.0 | 42.0 | 53.4 | 1,856 | 99.6 | 1,643 |
| South Eastern A | 66.5 | 61.2 | 101 | 11.1 | 107 | 33.4 | 48.9 | 59.4 | 274 | 98.5 | 271 |
| South Eastern B | 56.0 | 49.9 | 73 | 4.1 | 79 | 26.5 | 48.2 | 56.9 | 240 | 97.4 | 233 |
| North Central | 68.4 | 53.6 | 496 | 3.9 | 520 | 25.1 | 51.1 | 46.0 | 1,557 | 98.6 | 1,441 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 66.5 | 58.4 | 34 | 16.0 | 41 | 44.0 | 57.5 | 60.1 | 127 | 99.3 | 116 |
| Bong | 64.2 | 46.8 | 153 | 4.3 | 159 | 26.8 | 52.1 | 52.8 | 475 | 99.5 | 447 |
| Gbarpolu | 61.8 | 51.9 | 25 | 7.8 | 27 | 30.7 | 48.2 | 56.6 | 77 | 100.0 | 76 |
| Grand Bassa | 58.1 | 50.8 | 95 | 11.6 | 102 | 31.8 | 43.1 | 45.8 | 299 | 99.7 | 286 |
| Grand Cape Mount | 64.6 | 50.4 | 55 | 6.4 | 60 | 20.8 | 35.7 | 55.8 | 166 | 98.6 | 158 |
| Grand Gedeh | 75.2 | 70.9 | 43 | 22.0 | 43 | 44.1 | 81.8 | 79.3 | 103 | 98.1 | 103 |
| Grand Kru | 49.3 | 44.8 | 28 | 3.4 | 31 | 30.3 | 42.8 | 50.9 | 86 | 98.6 | 80 |
| Lofa | 74.7 | 62.5 | 112 | 3.9 | 119 | 19.1 | 50.2 | 47.8 | 328 | 98.5 | 314 |
| Margibi | 66.9 | 57.9 | 82 | 3.0 | 86 | 29.7 | 38.9 | 62.2 | 229 | 99.5 | 223 |
| Maryland | 55.6 | 51.3 | 30 | 5.1 | 32 | 21.4 | 48.2 | 59.7 | 112 | 95.5 | 111 |
| Montserrado | 49.1 | 38.8 | 405 | 11.5 | 444 | 28.2 | 42.3 | 53.5 | 1,328 | 99.5 | 1,134 |
| Nimba | 68.2 | 53.8 | 231 | 3.6 | 242 | 26.6 | 50.8 | 40.9 | 754 | 98.1 | 681 |
| River Cess | 74.6 | 71.0 | 20 | 4.8 | 21 | 25.0 | 39.7 | 38.8 | 65 | 100.0 | 64 |
| River Gee | 69.1 | 56.6 | 15 | 3.1 | 16 | 32.2 | 58.9 | 61.6 | 43 | 100.0 | 42 |
| Sinoe | 52.5 | 45.3 | 38 | 3.0 | 43 | 28.1 | 22.3 | 52.7 | 106 | 98.0 | 105 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 62.0 | 48.7 | 448 | 5.8 | 471 | 23.7 | 45.7 | 48.0 | 1,527 | 99.0 | 1,422 |
| Elementary | 66.2 | 53.4 | 370 | 5.8 | 399 | 28.1 | 46.0 | 50.9 | 1,085 | 98.6 | 1,007 |
| Junior high | 60.9 | 53.5 | 271 | 5.4 | 289 | 29.6 | 48.2 | 53.2 | 778 | 99.3 | 709 |
| Senior high | 53.4 | 43.9 | 226 | 16.2 | 255 | 31.8 | 46.8 | 56.0 | 742 | 98.9 | 659 |
| Higher |  | * | 52 | * | 53 | 39.4 | 44.9 | 62.5 | 165 | 100.0 | 142 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 63.1 | 51.4 | 336 | 4.8 | 371 | 22.5 | 45.0 | 46.2 | 1,042 | 98.5 | 977 |
| Second | 65.0 | 51.7 | 292 | 6.8 | 305 | 27.7 | 49.4 | 53.3 | 938 | 99.2 | 877 |
| Middle | 67.3 | 55.2 | 266 | 3.7 | 277 | 25.0 | 44.4 | 47.6 | 809 | 98.7 | 762 |
| Fourth | 57.5 | 50.2 | 277 | 10.7 | 299 | 33.6 | 46.6 | 55.0 | 816 | 99.7 | 713 |
| Highest | 45.9 | 34.9 | 194 | 15.1 | 214 | 32.6 | 46.6 | 58.2 | 692 | 98.9 | 609 |
| Total | 60.8 | 49.6 | 1,366 | 7.7 | 1,466 | 27.9 | 46.4 | 51.6 | 4,297 | 99.0 | 3,939 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable
${ }^{1}$ Includes meat (and organ meat), fish, poultry, eggs, pumpkin, carrots, squash, yellow or orange sweet potatoes, dark green leafy vegetables, ripe mango, ripe papaya, other locally grown fruits and vegetables that are rich in vitamin A, and red palm oil.
${ }^{2}$ Includes meat (and organ meat), fish, poultry, and eggs
${ }^{3}$ Based on mother's recall
${ }^{4}$ Based on both mother's recall and the vaccination card (where available)
${ }^{5}$ Deworming for intestinal parasites is commonly done for helminths and for schistosomiasis.
${ }^{6}$ Excludes children in households in which salt was not tested

| Table 11.11 Therapeutic and supplemental foods |  |  |
| :---: | :---: | :---: |
| Among children age 6-35 months, percentage who received Plumpy'Nut in the 7 days preceding the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Percentage who received Plumpy'Nut in the past 7 days | Number of children |
| Age in months |  |  |
| 6-8 | 3.7 | 294 |
| 9-11 | 7.5 | 235 |
| 12-17 | 7.2 | 464 |
| 18-23 | 5.0 | 474 |
| 24-35 | 3.6 | 873 |
| Sex |  |  |
| Male | 3.6 | 1,133 |
| Female | 6.3 | 1,206 |
| Breastfeeding status |  |  |
| Breastfeeding | 4.9 | 1,160 |
| Not breastfeeding | 5.1 | 1,178 |
| Wasting status ${ }^{1}$ |  |  |
| Sever acute malnutrition ${ }^{2}$ | * | 8 |
| Moderate acute malnutrition ${ }^{3}$ | 14.7 | 52 |
| Not wasted ${ }^{4}$ | 4.1 | 1,058 |
| Mother's age |  |  |
| 15-19 | 2.2 | 264 |
| 20-29 | 5.8 | 1,228 |
| 30-39 | 5.1 | 639 |
| 40-49 | 3.3 | 207 |
| Residence |  |  |
| Urban | 6.7 | 1,230 |
| Greater Monrovia | 8.6 | 614 |
| Other urban | 4.8 | 616 |
| Rural | 3.1 | 1,109 |
| Region |  |  |
| North Western | 2.9 | 202 |
| South Central | 7.6 | 999 |
| South Eastern A | 8.5 | 160 |
| South Eastern B | 4.2 | 132 |
| North Central | 1.9 | 845 |
| County |  |  |
| Bomi | 6.4 | 67 |
| Bong | 2.3 | 257 |
| Gbarpolu | 0.1 | 44 |
| Grand Bassa | 5.5 | 183 |
| Grand Cape Mount | 1.7 | 92 |
| Grand Gedeh | 15.5 | 63 |
| Grand Kru | 5.7 | 48 |
| Lofa | 3.5 | 185 |
| Margibi | 6.1 | 116 |
| Maryland | 3.8 | 61 |
| Montserrado | 8.4 | 699 |
| Nimba | 0.9 | 402 |
| River Cess | 2.3 | 35 |
| River Gee | 2.3 | 23 |
| Sinoe | 5.0 | 62 |
| Mother's education |  |  |
| No education | 4.6 | 783 |
| Elementary | 3.2 | 634 |
| Junior high | 4.9 | 467 |
| Senior high | 6.6 | 380 |
| Higher | (16.9) | 74 |


| Table 11.11-Continued |  |  |
| :--- | :---: | :---: |
| Background | Percentage who <br> received Plumpy'Nut in <br> the past 7 days | Number of <br> children |
| characteristic |  |  |
| Wealth quintile | 1.7 | 569 |
| Lowest | 3.5 | 506 |
| Second | 4.0 | 436 |
| Middle | 7.8 | 451 |
| Fourth | 9.9 | 377 |
| Highest | 5.0 | 2,338 |
| Total |  |  |

Note: In the questionnaire, respondents were asked about consumption of Plumpy'Nut/peanut butter, as peanut butter is the local name for Plumpy'Nut. 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.
${ }^{1}$ Restricted to children with valid data for weight and height
${ }^{2}$ Children with severe acute malnutrition (SAM) are those whose weight-forheight Z-score is below -3 standard deviations (SD) from the WHO Child Growth Standards population median.
${ }^{3}$ Children with moderate acute malnutrition (MAM) are those whose weight-forheight $Z$-score is between -3 standard deviations and -2 standard deviations (SD) from the WHO Growth Standards population median.
${ }^{4}$ Children whose weight-for-height Z-score is $\geq-2$ standard deviations (SD) from the WHO Child Growth Standards population median

Table 11.12 Nutritional status of women
Among women age 15-49, percentage with height under 145 cm , mean body mass index (BMI), and percentage with specific BMI levels, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Height |  | Body mass index ${ }^{1}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Percentage } \\ \text { below } \\ 145 \mathrm{~cm} \\ \hline \end{gathered}$ | Number of women | Mean body mass index (BMI) | Normal <br> 18.5-24.9 <br> (total <br> normal) | Thin |  |  | Overweight/obese |  |  | Number of women |
|  |  |  |  |  | $\begin{gathered} <18.5 \\ \text { (total thin) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 17.0-18.4 } \\ \text { (mildly thin) } \\ \hline \end{gathered}$ | $\begin{gathered} <17 \\ \text { (moderately } \\ \text { and } \\ \text { severely } \\ \text { thin) } \end{gathered}$ | $\geq 25.0$ (total overweight or obese) | $\begin{gathered} 25.0-29.9 \\ \text { (overweight) } \end{gathered}$ | $\begin{gathered} \geq 30.0 \\ \text { (obese) } \end{gathered}$ |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 1.5 | 878 | 21.7 | 80.1 | 10.4 | 8.5 | 1.9 | 9.5 | 8.5 | 0.9 | 812 |
| 20-29 | 1.6 | 1,400 | 24.0 | 63.9 | 4.8 | 4.2 | 0.5 | 31.4 | 22.0 | 9.3 | 1,219 |
| 30-39 | 1.8 | 1,061 | 26.3 | 42.1 | 3.2 | 2.9 | 0.3 | 54.7 | 36.1 | 18.6 | 960 |
| 40-49 | 1.9 | 743 | 26.2 | 45.2 | 2.9 | 2.2 | 0.7 | 51.9 | 30.2 | 21.7 | 732 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.4 | 2,545 | 25.3 | 52.7 | 4.4 | 3.8 | 0.7 | 42.9 | 27.4 | 15.5 | 2,354 |
| Greater Monrovia | 1.4 | 1,457 | 26.1 | 46.6 | 4.6 | 4.0 | 0.6 | 48.8 | 28.5 | 20.3 | 1,348 |
| Other urban | 1.4 | 1,088 | 24.2 | 60.7 | 4.2 | 3.5 | 0.8 | 35.0 | 25.9 | 9.1 | 1,005 |
| Rural | 2.2 | 1,536 | 23.2 | 67.5 | 6.6 | 5.6 | 1.0 | 25.9 | 19.1 | 6.8 | 1,369 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 1.1 | 304 | 24.4 | 57.3 | 5.8 | 5.3 | 0.5 | 36.9 | 24.7 | 12.2 | 268 |
| South Central | 1.7 | 2,068 | 25.5 | 50.1 | 5.8 | 5.0 | 0.8 | 44.1 | 26.5 | 17.6 | 1,907 |
| South Eastern A | 1.9 | 240 | 23.9 | 61.8 | 5.3 | 4.3 | 1.0 | 32.9 | 22.7 | 10.2 | 215 |
| South Eastern B | 1.4 | 224 | 23.6 | 68.1 | 4.7 | 4.4 | 0.3 | 27.2 | 20.5 | 6.7 | 200 |
| North Central | 1.8 | 1,246 | 23.3 | 69.5 | 4.1 | 3.3 | 0.9 | 26.4 | 21.6 | 4.8 | 1,131 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 0.7 | 119 | 24.2 | 50.0 | 7.2 | 6.4 | 0.8 | 42.8 | 32.4 | 10.4 | 110 |
| Bong | 2.4 | 415 | 23.4 | 70.9 | 3.4 | 2.2 | 1.2 | 25.7 | 20.0 | 5.7 | 373 |
| Gbarpolu | 1.8 | 57 | 23.7 | 68.1 | 2.8 | 1.7 | 1.1 | 29.1 | 20.6 | 8.5 | 49 |
| Grand Bassa | 2.2 | 233 | 23.2 | 61.6 | 11.0 | 8.9 | 2.1 | 27.3 | 19.7 | 7.6 | 208 |
| Grand Cape Mount | 1.3 | 127 | 24.8 | 59.7 | 5.8 | 5.8 | 0.0 | 34.5 | 18.6 | 15.8 | 109 |
| Grand Gedeh | 1.3 | 83 | 23.9 | 61.3 | 4.7 | 3.5 | 1.2 | 34.0 | 24.8 | 9.2 | 75 |
| Grand Kru | 0.9 | 69 | 23.7 | 68.2 | 4.4 | 3.7 | 0.7 | 27.4 | 20.7 | 6.7 | 60 |
| Lofa | 1.7 | 306 | 23.7 | 65.6 | 3.4 | 2.4 | 1.0 | 31.0 | 23.3 | 7.7 | 284 |
| Margibi | 2.5 | 227 | 24.4 | 55.3 | 8.4 | 7.5 | 0.9 | 36.3 | 22.4 | 13.9 | 212 |
| Maryland | 1.3 | 110 | 23.2 | 71.6 | 5.6 | 5.5 | 0.2 | 22.8 | 18.2 | 4.6 | 100 |
| Montserrado | 1.5 | 1,607 | 26.0 | 47.7 | 4.7 | 4.1 | 0.6 | 47.6 | 28.0 | 19.6 | 1,487 |
| Nimba | 1.3 | 525 | 22.9 | 70.6 | 5.2 | 4.6 | 0.6 | 24.2 | 21.9 | 2.4 | 474 |
| River Cess | 2.4 | 56 | 23.0 | 62.6 | 9.4 | 8.2 | 1.3 | 28.0 | 20.7 | 7.3 | 50 |
| River Gee | 2.7 | 44 | 24.5 | 59.3 | 2.9 | 2.9 | 0.0 | 37.8 | 26.0 | 11.8 | 40 |
| Sinoe | 2.2 | 101 | 24.3 | 61.8 | 3.6 | 2.8 | 0.8 | 34.6 | 22.0 | 12.6 | 91 |
| Education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 2.6 | 1,240 | 24.7 | 56.0 | 4.3 | 3.2 | 1.1 | 39.6 | 27.3 | 12.4 | 1,137 |
| Elementary | 1.5 | 981 | 23.3 | 67.6 | 6.7 | 5.9 | 0.8 | 25.8 | 18.4 | 7.3 | 869 |
| Junior high | 0.7 | 751 | 23.7 | 64.1 | 7.6 | 6.7 | 0.9 | 28.3 | 18.9 | 9.4 | 687 |
| Senior high | 1.4 | 862 | 25.7 | 52.4 | 2.4 | 2.4 | 0.1 | 45.1 | 28.6 | 16.5 | 799 |
| Higher | 1.9 | 248 | 26.8 | 34.9 | 6.6 | 5.0 | 1.6 | 58.5 | 33.5 | 25.0 | 230 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 3.0 | 719 | 22.7 | 72.1 | 6.5 | 5.2 | 1.3 | 21.4 | 17.2 | 4.2 | 618 |
| Second | 1.9 | 721 | 23.1 | 70.2 | 5.7 | 5.3 | 0.4 | 24.1 | 18.8 | 5.3 | 660 |
| Middle | 1.8 | 827 | 23.9 | 61.6 | 5.2 | 4.3 | 0.9 | 33.2 | 25.3 | 7.9 | 748 |
| Fourth | 0.5 | 916 | 25.2 | 49.8 | 7.3 | 6.6 | 0.7 | 42.9 | 27.4 | 15.5 | 844 |
| Highest | 1.5 | 900 | 26.9 | 43.8 | 1.9 | 1.1 | 0.7 | 54.3 | 29.9 | 24.4 | 852 |
| Total | 1.7 | 4,082 | 24.5 | 58.1 | 5.2 | 4.4 | 0.8 | 36.6 | 24.3 | 12.3 | 3,722 |

[^16]| Table 11.13 Prevalence of anemia in women |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 with anemia, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |
|  | Anemia status by hemoglobin level |  |  |  |  |
| Background characteristic | $\begin{gathered} \hline \text { Any } \\ (\mathrm{NP}<12.0 \mathrm{~g} / \mathrm{d} / / \\ \mathrm{P}<11.0 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Mild (NP 11.0-11.9 g/d// P 10.0-10.9 g/dl) | $\begin{gathered} \text { Moderate } \\ (\mathrm{NP} 8.0-10.9 \mathrm{~g} / \mathrm{dl} / \\ \mathrm{P} 7.0-9.9 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Severe } \\ (\mathrm{NP}<8.0 \mathrm{~g} / \mathrm{dl} / \\ \mathrm{P}<7.0 \mathrm{~g} / \mathrm{dl}) \\ \hline \end{gathered}$ | Number of women |
| Age |  |  |  |  |  |
| 15-19 | 55.1 | 24.8 | 29.6 | 0.7 | 872 |
| 20-29 | 39.8 | 20.9 | 18.4 | 0.6 | 1,392 |
| 30-39 | 42.4 | 25.3 | 16.9 | 0.2 | 1,037 |
| 40-49 | 43.7 | 22.1 | 19.5 | 2.1 | 726 |
| Number of children ever born |  |  |  |  |  |
| 0 | 51.0 | 24.3 | 26.3 | 0.4 | 934 |
| 1 | 45.4 | 23.6 | 21.5 | 0.4 | 770 |
| 2-3 | 37.1 | 17.2 | 18.7 | 1.2 | 1,073 |
| 4-5 | 44.2 | 26.6 | 16.9 | 0.7 | 669 |
| 6+ | 46.8 | 27.3 | 18.4 | 1.1 | 581 |
| Maternity status |  |  |  |  |  |
| Pregnant | 51.7 | 25.7 | 25.8 | 0.1 | 281 |
| Breastfeeding | 47.6 | 26.1 | 20.2 | 1.2 | 873 |
| Neither | 42.9 | 21.9 | 20.3 | 0.7 | 2,872 |
| Using IUD |  |  |  |  |  |
| Yes | * | * | * | * | 6 |
| No | 44.4 | 23.1 | 20.5 | 0.8 | 4,021 |
| Cigarette use ${ }^{1}$ |  |  |  |  |  |
| Smokes cigarettes | * | * | * | * | 28 |
| Does not smoke cigarettes | 44.5 | 23.2 | 20.5 | 0.8 | 3,999 |
| Residence |  |  |  |  |  |
| Urban | 43.2 | 21.7 | 20.7 | 0.9 | 2,515 |
| Greater Monrovia | 43.7 | 20.9 | 22.1 | 0.7 | 1,446 |
| Other urban | 42.6 | 22.8 | 18.7 | 1.1 | 1,069 |
| Rural | 46.7 | 25.4 | 20.6 | 0.6 | 1,512 |
| Region |  |  |  |  |  |
| North Western | 52.4 | 29.6 | 22.4 | 0.4 | 297 |
| South Central | 46.9 | 21.9 | 24.1 | 0.9 | 2,042 |
| South Eastern A | 47.7 | 26.0 | 20.8 | 0.8 | 236 |
| South Eastern B | 48.7 | 25.1 | 23.5 | 0.1 | 222 |
| North Central | 37.3 | 22.6 | 13.9 | 0.7 | 1,231 |
| County |  |  |  |  |  |
| Bomi | 57.4 | 31.8 | 25.6 | 0.0 | 120 |
| Bong | 41.5 | 25.2 | 15.1 | 1.3 | 408 |
| Gbarpolu | 40.8 | 27.1 | 13.7 | 0.0 | 57 |
| Grand Bassa | 59.1 | 22.7 | 33.8 | 2.6 | 228 |
| Grand Cape Mount | 52.8 | 28.7 | 23.2 | 0.9 | 120 |
| Grand Gedeh | 40.4 | 20.3 | 19.3 | 0.8 | 83 |
| Grand Kru | 51.6 | 26.1 | 25.5 | 0.0 | 69 |
| Lofa | 35.2 | 22.5 | 12.5 | 0.3 | 300 |
| Margibi | 52.9 | 19.7 | 31.6 | 1.5 | 220 |
| Maryland | 45.1 | 23.8 | 21.2 | 0.2 | 108 |
| Montserrado | 44.3 | 22.0 | 21.7 | 0.6 | 1,593 |
| Nimba | 35.2 | 20.8 | 13.8 | 0.5 | 523 |
| River Cess | 50.2 | 32.9 | 17.3 | 0.0 | 55 |
| River Gee | 52.8 | 26.9 | 25.9 | 0.0 | 44 |
| Sinoe | 52.3 | 26.9 | 24.1 | 1.3 | 98 |
| Education |  |  |  |  |  |
| No education | 43.0 | 25.7 | 16.3 | 1.0 | 1,211 |
| Elementary | 48.8 | 24.9 | 23.4 | 0.5 | 969 |
| Junior high | 48.7 | 21.4 | 26.5 | 0.8 | 754 |
| Senior high | 38.6 | 19.9 | 18.3 | 0.4 | 858 |
| Higher | 42.4 | 19.4 | 21.1 | 2.0 | 235 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 50.8 | 28.1 | 21.9 | 0.8 | 708 |
| Second | 41.5 | 22.6 | 18.3 | 0.6 | 714 |
| Middle | 43.8 | 23.4 | 19.7 | 0.7 | 812 |
| Fourth | 42.8 | 19.5 | 21.9 | 1.4 | 899 |
| Highest | 44.3 | 22.9 | 21.0 | 0.4 | 895 |
| Total | 44.5 | 23.1 | 20.6 | 0.8 | 4,027 |

Note: Prevalence is adjusted for altitude and for smoking status if known using formulas in CDC 1998. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes manufactured cigarettes and hand-rolled cigarettes

## Table 11.14 Micronutrient intake among mothers

Among women age 15-49 with a child born in the 5 years preceding the survey, percent distribution by number of days they took iron tablets or syrup during the pregnancy of the last child and percentage who took deworming medication during the pregnancy of the last child, and among women age 15-49 with a child born in the 5 years preceding the survey who live in households that were tested for iodized salt, percentage who live in households with iodized salt, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Number of days women took iron tablets or syrup during pregnancy of last birth |  |  |  |  |  | Among women with a child born in the past 5 years: |  | Among women with a child born in the past <br> 5 years who live in households in which salt was tested: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | <60 | 60-89 | 90+ | $\begin{gathered} \text { Don't know/ } \\ \text { missing } \\ \hline \end{gathered}$ | Total | Percentage of women who took deworming medication during pregnancy of last birth | Number of women | Percentage living in households with iodized salt ${ }^{1}$ | Number of women |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 4.4 | 33.8 | 9.6 | 39.1 | 13.1 | 100.0 | 58.5 | 414 | 99.1 | 383 |
| 20-29 | 6.0 | 28.6 | 9.7 | 43.9 | 11.8 | 100.0 | 62.2 | 1,975 | 98.5 | 1,784 |
| 30-39 | 6.5 | 26.6 | 10.1 | 42.4 | 14.4 | 100.0 | 67.0 | 1,234 | 98.9 | 1,144 |
| 40-49 | 6.7 | 24.6 | 11.1 | 44.1 | 13.6 | 100.0 | 66.8 | 403 | 99.1 | 370 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 6.1 | 27.2 | 9.2 | 43.1 | 14.5 | 100.0 | 65.3 | 2,269 | 98.6 | 2,024 |
| Greater Monrovia | 3.6 | 30.0 | 7.2 | 46.8 | 12.5 | 100.0 | 65.7 | 1,184 | 98.9 | 1,013 |
| Other urban | 8.8 | 24.1 | 11.4 | 39.1 | 16.6 | 100.0 | 64.8 | 1,084 | 98.3 | 1,010 |
| Rural | 6.0 | 29.4 | 10.9 | 42.8 | 10.9 | 100.0 | 61.8 | 1,757 | 98.9 | 1,657 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 3.0 | 28.8 | 11.1 | 47.3 | 9.7 | 100.0 | 64.7 | 331 | 98.8 | 311 |
| South Central | 3.7 | 27.9 | 9.8 | 46.7 | 11.9 | 100.0 | 64.7 | 1,825 | 99.1 | 1,612 |
| South Eastern A | 2.7 | 21.3 | 9.3 | 49.9 | 16.7 | 100.0 | 59.2 | 248 | 98.9 | 246 |
| South Eastern B | 5.2 | 28.4 | 6.8 | 47.3 | 12.4 | 100.0 | 73.0 | 222 | 97.4 | 216 |
| North Central | 10.5 | 29.5 | 10.4 | 35.2 | 14.3 | 100.0 | 61.7 | 1,400 | 98.5 | 1,295 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 1.6 | 29.7 | 12.0 | 46.5 | 10.2 | 100.0 | 63.6 | 119 | 99.2 | 108 |
| Bong | 3.0 | 41.7 | 13.3 | 28.3 | 13.7 | 100.0 | 66.3 | 443 | 99.4 | 417 |
| Gbarpolu | 6.4 | 37.8 | 11.6 | 33.9 | 10.3 | 100.0 | 56.1 | 67 | 100.0 | 65 |
| Grand Bassa | 2.0 | 38.0 | 24.5 | 25.4 | 10.1 | 100.0 | 50.7 | 264 | 99.0 | 250 |
| Grand Cape Mount | 2.7 | 23.9 | 10.2 | 54.2 | 9.1 | 100.0 | 69.6 | 145 | 97.9 | 138 |
| Grand Gedeh | 3.1 | 23.3 | 9.8 | 57.0 | 6.7 | 100.0 | 69.7 | 90 | 98.5 | 90 |
| Grand Kru | 10.1 | 32.8 | 3.1 | 36.1 | 17.9 | 100.0 | 76.9 | 80 | 98.1 | 75 |
| Lofa | 12.1 | 20.3 | 6.7 | 51.0 | 9.9 | 100.0 | 51.2 | 317 | 98.5 | 301 |
| Margibi | 6.0 | 13.7 | 8.5 | 59.4 | 12.3 | 100.0 | 60.3 | 217 | 99.5 | 211 |
| Maryland | 2.6 | 30.5 | 7.2 | 56.8 | 2.9 | 100.0 | 72.9 | 100 | 95.9 | 100 |
| Montserrado | 3.6 | 28.2 | 7.2 | 48.8 | 12.2 | 100.0 | 68.2 | 1,343 | 99.1 | 1,151 |
| Nimba | 14.9 | 25.7 | 10.2 | 32.2 | 16.9 | 100.0 | 63.6 | 640 | 97.9 | 577 |
| River Cess | 1.6 | 12.2 | 9.5 | 69.0 | 7.7 | 100.0 | 39.7 | 58 | 100.0 | 57 |
| River Gee | 2.1 | 14.9 | 12.8 | 45.7 | 24.6 | 100.0 | 65.7 | 42 | 99.3 | 42 |
| Sinoe | 3.0 | 24.8 | 8.6 | 32.5 | 31.0 | 100.0 | 61.2 | 100 | 98.5 | 99 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 7.8 | 29.6 | 10.0 | 39.9 | 12.7 | 100.0 | 62.6 | 1,366 | 98.9 | 1,274 |
| Elementary | 5.5 | 27.1 | 11.0 | 42.9 | 13.4 | 100.0 | 62.0 | 984 | 98.4 | 907 |
| Junior high | 6.6 | 27.1 | 10.5 | 40.8 | 15.0 | 100.0 | 65.6 | 725 | 99.3 | 658 |
| Senior high | 3.2 | 28.5 | 9.0 | 48.0 | 11.2 | 100.0 | 67.4 | 782 | 98.2 | 693 |
| Higher | 5.6 | 25.1 | 4.7 | 53.9 | 10.6 | 100.0 | 58.8 | 170 | 100.0 | 149 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 7.4 | 33.1 | 10.3 | 37.4 | 11.8 | 100.0 | 61.4 | 855 | 98.2 | 809 |
| Second | 10.6 | 24.9 | 9.9 | 42.0 | 12.6 | 100.0 | 63.0 | 849 | 99.1 | 781 |
| Middle | 5.9 | 27.2 | 9.9 | 45.2 | 11.9 | 100.0 | 61.0 | 785 | 98.7 | 739 |
| Fourth | 2.8 | 29.6 | 12.4 | 41.4 | 13.8 | 100.0 | 66.1 | 816 | 99.5 | 717 |
| Highest | 2.9 | 25.4 | 6.9 | 50.1 | 14.7 | 100.0 | 67.9 | 721 | 98.1 | 635 |
| Total | 6.0 | 28.1 | 9.9 | 43.0 | 12.9 | 100.0 | 63.8 | 4,026 | 98.8 | 3,681 |

${ }^{1}$ Excludes women in households where salt was not tested

## Key Findings

- Ownership of insecticide-treated nets: $55 \%$ of households own at least one insecticide-treated net (ITN).
- Source of ITNs: The vast majority ( $83 \%$ ) of ITNs were obtained through mass distribution campaigns.
" Use of ITNs: 47\% of pregnant women age 15-49 and $44 \%$ of children under age 5 slept under an ITN the night before the survey.
- Intermittent preventive treatment (IPTp) during pregnancy: $40 \%$ of women age 15-49 with a live birth in the 2 years preceding the survey reported taking three or more doses of SP/Fansidar during their last pregnancy.
- Prevalence of low hemoglobin: 9\% of children age 6-59 months have a hemoglobin level below $8.0 \mathrm{~g} / \mathrm{dl}$.

Malaria, a preventable, treatable, and curable disease, is endemic in Liberia and remains one of the foremost public health problems in the country, taking its greatest toll on children under age 5 and pregnant women. This chapter presents data that are useful for assessing how well malaria control strategies are being implemented, including the availability and use of mosquito nets, the prophylactic and therapeutic use of antimalarial drugs, diagnostic testing of children with fever, and prevalence of anemia 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 defined as 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

Household ownership and use of mosquito nets (in particular ITNs) is a central strategy in malaria prevention, and in Liberia it is a core intervention. All households in the 2019-20 LDHS were asked if they owned mosquito nets, and, if so, they were asked a series of follow-up questions about each net: what type it was, where it was obtained, and who slept under it the night before the survey.

Fifty-six percent of households in Liberia have at least one mosquito net, while $55 \%$ have at least one ITN. Thus, nearly all mosquito nets in Liberian households are ITNs. The average number of ITNs per household is 1.0. Twenty-five percent of households have achieved full household ITN coverage, meaning that there is at least one ITN for every two persons who slept in the household the night before the survey. The remaining households either have no ITNs (45\%) or do not have enough ITNs for all household members (30\%) (Table 12.1 and Figure 12.1).

Trends: After increasing from $47 \%$ in 2009 to $62 \%$ in 2016, ownership of ITNs dropped to $55 \%$ in 2019-20 (Figure 12.2).

Patterns by background characteristics

- A higher percentage of households in rural areas ( $63 \%$ ) than urban areas ( $49 \%$ ) have at least one ITN; however, this difference is entirely due to much lower ownership of at least one ITN in Greater Monrovia (38\%) than in other urban areas (63\%)
(Table 12.1).
- Household ownership of ITNs is highest in Nimba (71\%) and lowest in Montserrado (39\%) (Figure 12.3).

Figure 12.3 ITN ownership by county


Figure 12.1 Household ownership of ITNs
Percent distribution of households


Figure 12.2 Trends in household ownership of ITNs
Percentage of households owning at least one insecticide-treated net (ITN)


Note: The definition of an ITN in surveys conducted prior to the 2019-20 LDHS included nets that had been soaked with insecticides within the past 12 months.

- Full household ITN coverage generally decreases with increasing wealth, from $33 \%$ in the second wealth quintile to $17 \%$ in the highest quintile.


## Source of Nets

Eighty-three percent of ITNs were obtained through mass distribution campaigns, while $5 \%$ were obtained during prenatal care visits, $2 \%$ were obtained during immunization visits, $6 \%$ were obtained from a shop/market, $3 \%$ were obtained on a street corner, and $2 \%$ were obtained from a neighbor/friend/relative or other sources (Table 12.2 and Figure 12.4). By contrast, $70 \%$ of non-ITNs were obtained from a shop/market, $11 \%$ on a street corner, and $11 \%$ from a neighbor/friend/relative.

Figure 12.4 Source of ITNs


Note: Figures may not add up to $100 \%$ due to rounding.

## 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
Access to an ITN is measured as 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 programs identify if there is a behavioral gap in which available ITNs are not being used. If the difference between these indicators is substantial, the ITN program may need to focus on behavior change and identify the main barriers to ITN use. This analysis helps ITN programs determine whether they need to achieve higher ITN coverage, promote ITN use, or both.

Nationally, $40 \%$ of de facto household members in Liberia who stayed in the household the night before the survey could sleep inside an ITN if each ITN were used by up to two people (Tables 12.3 and 12.4), and $39 \%$ of household members slept under an ITN the night before the survey (Table 12.5). Comparing these two population-level indicators, it is evident that the proportion of the population with access to an ITN is similar to the proportion of the population using an ITN. Thus, there is no major gap between ITN access and ITN use at the population level (Figure 12.5). Overall, 75\% of ITNs were used the night before the survey (Table 12.6).

Patterns by background characteristics

- ITN access is highest in Grand Gedeh (53\%) and lowest in Montserrado (26\%) (Figure 12.6).
- The percentage of the household population that slept under a ITN decreases from $51 \%$ in the second wealth quintile to $27 \%$ in the highest quintile (Table 12.5).
- Use of existing ITNs varies from a low of $61 \%$ in Grand Bassa to a high of $82 \%$ in River Cess (Table 12.6).

Figure 12.5 Access to and use of ITNs
Percentage of the household population with access to an ITN and who slept under an ITN the night before the survey
$■$ Access to an ITN $\quad$ Slept under an ITN


Figure 12.6 ITN access by county

### 12.3 Use of ITNs by Children and Pregnant Women

Children and pregnant women are particularly vulnerable to malaria. Just over 4 in $10(44 \%)$ children under age 5 slept under an ITN the night before the survey, and $72 \%$ of children in households with at least one ITN slept under an ITN the night preceding the survey (Table 12.7 and Figure 12.7). Similarly, $47 \%$ of pregnant women age 15-49 slept under an ITN the night before the survey, and $78 \%$ of pregnant women in households with at least one ITN slept under an ITN the night preceding the survey (Table 12.8 and Figure 12.7).

Trends: Use of ITNs among children under age 5 increased from $26 \%$ in 2009 to $44 \%$ in 2016 and 2019-

Figure 12.7 ITN use
Percentage who slept under an ITN the night before the survey

20. Over this same time period, use of ITNs by pregnant women increased from $33 \%$ to $47 \%$.

## Patterns by background characteristics

- The percentage of children under age 5 who slept under an ITN the night preceding the survey ranges from a high of $53 \%$ among those less than age 12 months to a low of $40 \%$ among those age $36-47$ months and age 48-59 months (Table 12.7).
- By county, the proportion of children under age 5 who slept under an ITN the night before the survey ranges from $33 \%$ in Montserrado to $57 \%$ in Grand Gedeh.
- The proportion of pregnant women age 15-49 who slept under an ITN the night before the survey is markedly lower in Greater Monrovia (34\%) than in other urban areas (57\%) and rural areas (48\%) (Table 12.8).
- By region, the proportion of pregnant women age 15-49 who slept under an ITN the night before the survey ranges from $35 \%$ in South Central to $59 \%$ in North Central.


### 12.4 Malaria in Pregnancy

Intermittent preventive treatment (IPTp) during pregnancy
Percentage of women who took at least three doses of SP/Fansidar during their last pregnancy.
Sample: Women age 15-49 with a live birth in the 2 years before the survey

Malaria infection during pregnancy is a major public health problem in Liberia, with substantial risks for the mother, her fetus, 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 prenatal care visits to prevent malaria. IPTp helps prevent maternal malaria episodes, maternal and fetal anemia, placental parasitemia, low birth weight, and neonatal mortality.

The WHO recommends a three-pronged approach for reducing the negative health effects associated with malaria in pregnancy: prompt diagnosis and treatment of confirmed infections, use of long-lasting insecticidal nets (LLINs), and IPTp (WHO 2004).

Sulfadoxine-pyrimethamine (SP), also known as Fansidar, is the recommended drug for IPTp in Liberia. The household survey indicator used to measure coverage of this intervention is the percentage of women with a live birth in the 2 years preceding the survey who received three or more doses of SP/Fansidar to prevent malaria during their most recent pregnancy (IPTp3+).

In Liberia, $90 \%$ of women with a live birth in the 2 years before the survey reported taking one or more doses of SP/Fansidar during their last pregnancy; 70\% reported taking two or more doses, and $40 \%$ reported taking three or more doses (Table 12.9).

Figure 12.8 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 of SP/Fansidar
Trends: The percentage of women receiving one or more doses of IPTp increased from $58 \%$ in 2009 to $90 \%$ in 2019-20, while the percentage receiving two or more doses increased from $47 \%$ to $70 \%$. Over the same period, the percentage of women receiving three or more doses of IPTp increased from $11 \%$ to $40 \%$ (Figure 12.8).
LMIS LMIS LDHS LMIS LDHS

Patterns by background characteristics

- The percentage of pregnant women who received three or more doses of SP/Fansidar is slightly higher in rural areas ( $43 \%$ ) than in urban areas ( $38 \%$ ); however, this difference is a reflection of women in Greater Monrovia being much less likely to have received three or more doses than women in other urban areas (30\% versus 46\%) (Table 12.9).
- By county, IPTp coverage of three or more doses is lowest in Bong (27\%) and highest in Nimba (62\%).
- The percentage of women who received three or more doses of SP/Fansidar during pregnancy generally decreases with increasing wealth, from $46 \%$ among those in the lowest wealth quintile to $29 \%$ among those in the highest wealth quintile.


### 12.5 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

Among children under age 5 with a fever in the 2 weeks before the survey who took any antimalarial drugs, the percentage who received artemisinin-based combination therapy (ACT).
Sample: Children under age 5 with a fever in the 2 weeks before the survey

One in four ( $25 \%$ ) children under age 5 had a fever in the 2 weeks preceding the survey. Eighty-one percent of children who had a fever were taken for advice or treatment, and $48 \%$ were taken for advice or treatment the same or next day. Forty-nine percent of children with a fever had blood taken from a finger or heel for testing
(Table 12.10).

## Source of Advice or Treatment for Children with Fever

Among children who received advice or treatment for fever in the 2 weeks preceding the survey, $48 \%$ each went to public sector providers and private institutions (Table 12.11). The most common providers were government health clinics (28\%), government hospitals (15\%), pharmacies (32\%), and private hospitals/clinics (13\%).

## Types of Antimalarial Drugs Used

WHO recommends artemisinin-based combination therapy (ACT) for the treatment of uncomplicated malaria caused by the Plasmodium falciparum parasite. In sub-Saharan Africa, the two most frequently recommended types of ACT are the drug combinations artesunate/amodiaquine (ASAQ) and artemether/lumefantrine (AL) (WHO 2015c). In 2003, Liberia adopted ASAQ as the first-line treatment of uncomplicated malaria, with AL as the alternative treatment (PMI 2018).

As part of the 2019-20 LDHS, women who recently sought care for their child's fever were asked "What drugs did [NAME] take?" The purpose of this question is to assess if the antimalarial treatment received by children under age 5 is in accordance with national malaria treatment policy. However, it is not always possible to accurately distinguish types of antimalarial drugs from respondents' recall during fieldwork. To ensure the highest possible data quality during fieldwork, interviewers were given images of common antimalarial drugs to show to respondents or interviewers asked respondents to see the drug packaging to ensure that the correct drug was documented in the questionnaire.

The 2019-20 LDHS results showed that among children with a fever who were given antimalarial medications, only $41 \%$ received ACT (Table 12.12); 44\% received amodiaquine, $6 \%$ received SP/Fansidar, and another $6 \%$ received quinine pills. These findings suggest that many children did not receive the first-line antimalarial medication (ASAQ) but instead received amodiaquine. However, in Liberia, ASAQ is colloquially referred to as amodiaquine, making it difficult to distinguish use of the single drug and the combination therapy. Thus, it is possible that many of the children who were reportedly given amodiaquine actually received ASAQ. If so, this would affect the estimate of children with fever who received ACT. Indeed, if all of the children who were reported to have received amodiaquine actually received ASAQ, the proportion who took ACT (among those who took an antimalarial) would double from $41 \%$ to $85 \%$.

The possibility of respondents mistakenly stating that their child received amodiaquine rather than ASAQ was also noted in the 2013 Liberia DHS (LISGIS, MOH, NACP, and ICF International 2014). With this in mind, interviewers in the 2016 LMIS were instructed to probe carefully when respondents said their child received amodiaquine in response to the question on the medications the child took when she or he had a fever. They
also had images of common antimalarial drugs to show to respondents to ensure that the correct drug was documented in the questionnaire. The results of the 2016 LMIS showed that $81 \%$ of children with a fever who were given antimalarials received ACT.

A similar training approach to the 2016 LMIS was taken in the 2019-20 LDHS. The conjecture that misclassification nevertheless occurred in the 2019-20 LDHS may be a reflection of the much greater questionnaire burden placed on interviewers and respondents in a DHS relative to an MIS.

Trends: The percentage of children with a fever given ACT appears to vary widely between surveys conducted in Liberia from 2009 to 2019-20. However, if the assumption is made that when respondents indicated their child received amodiaquine the child actually received ASAQ, the trend line is more credible, rising from 45\% in 2009 to $85 \%$ in 2013 and 2019-20 (Figure 12.9).

Figure 12.9 Trends in ACT use by children with fever
Among children with recent fever who took an antimalarial, percentage who received ACT and the percentage who received ACT or reported receiving amodiaquine


### 12.6 Prevalence of Low Hemoglobin in Children

## Prevalence of low hemoglobin in children

Percentage of children age 6-59 months who had a hemoglobin measurement of less than 8 grams per deciliter ( $\mathrm{g} / \mathrm{dl}$ ) of blood. The cutoff of $8 \mathrm{~g} / \mathrm{dl}$ is often used to classify malaria-related anemia. This is a different cutoff than was used to classify severe anemia in the nutrition chapter ( $7 \mathrm{~g} / \mathrm{dl}$ ).
Sample: Children age 6-59 months

Anemia, defined as a reduced level of hemoglobin in the blood, decreases the amount of oxygen reaching the tissues and organs of the body and reduces their capacity to function. Anemia is associated with impaired motor and cognitive development in children. The main causes of anemia in children are malaria and inadequate intake of iron, folate, vitamin B12, or other nutrients. Other causes of anemia include intestinal worms, hemoglobinopathy, and sickle cell disease. Although anemia is not specific to malaria, trends in anemia prevalence can reflect malaria morbidity, and they respond to changes in the coverage of malaria interventions (Korenromp et al. 2004). Malaria interventions have been associated with a $60 \%$ reduction in the risk of anemia using a cutoff of $8 \mathrm{~g} / \mathrm{dl}$ (RBM 2003).

Hemoglobin testing was carried out for $93 \%$ of eligible children age 6-59 months (Table 12.13), and 9\% had hemoglobin levels lower than $8.0 \mathrm{~g} / \mathrm{dl}$ (Table 12.14).

Trends: The percentage of children age 6-59 months with hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$ increased by 1 percentage point between 2016 and 2019-20, from $8 \%$ to $9 \%$.

## Patterns by background characteristics

- By age, the percentage of children with low hemoglobin is highest among those age 18-23 months (16\%)
(Table 12.14).
- By county, the percentage of children with low hemoglobin is lowest in Lofa and River Cess (2\% each) and highest in Bomi and Grand Bassa ( $15 \%$ each).
- By wealth quintile, the proportion of children with hemoglobin levels below $8.0 \mathrm{~g} / \mathrm{dl}$ ranges from a high of $11 \%$ among those in the lowest quintile to a low of $3 \%$ among those in the highest quintile.


## LIST OF TABLES

For more information on malaria, see the following tables:

- Table 12.1 Household possession of mosquito nets
- Table 12.2 Source of mosquito nets
- Table 12.3 Access to an insecticide-treated net (ITN)
- Table 12.4 Access to an ITN according to background characteristics
- Table 12.5 Use of mosquito nets by persons in the household
- Table 12.6 Use of existing ITNs
- Table 12.7 Use of mosquito nets by children
- Table 12.8 Use of mosquito nets by pregnant women
- Table 12.9 Use of intermittent preventive treatment (IPTp) by women during pregnancy
- Table 12.10 Prevalence, diagnosis, and prompt treatment of children with fever
- Table 12.11 Source of advice or treatment for children with fever
- Table 12.12 Type of antimalarial drugs used
- Table 12.13 Coverage of testing for anemia in children
- Table 12.14 Hemoglobin <8.0 g/dl in children

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, Liberia DHS 2019-20

| Background characteristic | Percentage of households with at least one mosquito net |  | Average number of nets per household |  | Number of households | Percentage of households with at least one net for every two persons who stayed in the household last night |  | Number of households with at least one person who stayed in the household last night |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any mosquito net | Insecticidetreated mosquito net $(\text { ITN })^{1}$ | Any mosquito net | Insecticidetreated mosquito net $(\text { ITN })^{1}$ |  | Any mosquito net | Insecticidetreated mosquito net $(\text { ITN })^{1}$ |  |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 51.1 | 48.9 | 1.0 | 0.9 | 5,195 | 22.7 | 21.9 | 5,161 |
| Greater Monrovia | 41.0 | 37.9 | 0.7 | 0.6 | 2,911 | 16.7 | 15.7 | 2,903 |
| Other urban | 63.9 | 63.0 | 1.4 | 1.3 | 2,284 | 30.4 | 29.8 | 2,258 |
| Rural | 63.1 | 62.5 | 1.2 | 1.2 | 3,873 | 30.0 | 29.7 | 3,850 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 65.9 | 65.5 | 1.2 | 1.2 | 850 | 32.7 | 32.7 | 843 |
| South Central | 45.2 | 42.9 | 0.8 | 0.7 | 4,334 | 19.5 | 18.6 | 4,319 |
| South Eastern A | 59.6 | 59.0 | 1.2 | 1.2 | 628 | 33.2 | 32.7 | 625 |
| South Eastern B | 61.3 | 61.0 | 1.2 | 1.2 | 473 | 27.6 | 27.5 | 469 |
| North Central | 68.7 | 67.9 | 1.5 | 1.4 | 2,784 | 31.7 | 31.2 | 2,755 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 62.7 | 62.2 | 1.2 | 1.2 | 319 | 34.6 | 34.6 | 317 |
| Bong | 63.8 | 63.6 | 1.3 | 1.3 | 868 | 30.0 | 30.0 | 863 |
| Gbarpolu | 66.5 | 66.2 | 1.3 | 1.3 | 175 | 36.6 | 36.6 | 173 |
| Grand Bassa | 62.4 | 61.5 | 1.2 | 1.2 | 517 | 28.7 | 27.8 | 514 |
| Grand Cape Mount | 68.5 | 68.1 | 1.2 | 1.2 | 355 | 29.0 | 29.0 | 353 |
| Grand Gedeh | 67.0 | 65.8 | 1.2 | 1.2 | 246 | 39.9 | 39.0 | 244 |
| Grand Kru | 52.4 | 52.1 | 1.0 | 1.0 | 147 | 22.6 | 22.6 | 145 |
| Lofa | 69.0 | 68.6 | 1.4 | 1.4 | 734 | 34.3 | 33.9 | 729 |
| Margibi | 51.5 | 51.3 | 0.9 | 0.9 | 560 | 25.4 | 25.1 | 558 |
| Maryland | 64.6 | 64.4 | 1.2 | 1.2 | 229 | 27.3 | 27.3 | 227 |
| Montserrado | 41.4 | 38.5 | 0.7 | 0.6 | 3,257 | 17.1 | 16.0 | 3,246 |
| Nimba | 72.1 | 70.6 | 1.6 | 1.6 | 1,181 | 31.2 | 30.5 | 1,163 |
| River Cess | 52.8 | 52.8 | 0.9 | 0.9 | 157 | 26.4 | 26.4 | 157 |
| River Gee | 66.9 | 66.4 | 1.6 | 1.6 | 97 | 35.8 | 35.1 | 96 |
| Sinoe | 56.2 | 55.9 | 1.3 | 1.2 | 225 | 30.6 | 30.3 | 224 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 57.7 | 57.3 | 1.0 | 1.0 | 1,965 | 26.7 | 26.5 | 1,953 |
| Second | 70.7 | 70.3 | 1.4 | 1.4 | 1,723 | 33.4 | 33.0 | 1,701 |
| Middle | 58.5 | 57.0 | 1.2 | 1.2 | 1,748 | 28.3 | 27.9 | 1,736 |
| Fourth | 50.2 | 48.1 | 0.9 | 0.9 | 1,892 | 23.1 | 22.2 | 1,885 |
| Highest | 44.3 | 41.4 | 0.8 | 0.8 | 1,740 | 18.0 | 16.8 | 1,735 |
| Total | 56.2 | 54.7 | 1.1 | 1.0 | 9,068 | 25.8 | 25.2 | 9,011 |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.2 Source of mosquito nets
Percent distribution of mosquito nets by source of net, according to background characteristics, Liberia DHS 2019-20

| Background Characteristic | Mass distribution campaign | Prenatal care visit | Immunization visit | Government health facility | Private health facility | Pharmacy | Shop/ market | Community health volunteer/ assistant | Religious institution | School | Street corner | Neighbor /friend/ relative | Other | Don't know | Total | Number of mosquito nets |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of net |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITN $^{1}$ | 82.5 | 4.5 | 1.6 | 0.2 | 0.1 | 0.1 | 6.1 | 0.0 | 0.1 | 0.0 | 2.8 | 1.6 | 0.2 | 0.0 | 100.0 | 9,513 |
| Other ${ }^{2}$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 69.9 | 1.0 | 0.0 | 0.0 | 10.7 | 10.8 | 6.1 | 1.6 | 100.0 | 252 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 72.8 | 3.9 | 1.5 | 0.1 | 0.2 | 0.1 | 12.8 | 0.1 | 0.1 | 0.1 | 5.4 | 2.5 | 0.4 | 0.1 | 100.0 | 5,055 |
| Greater Monrovia | 49.5 | 4.5 | 1.5 | 0.0 | 0.5 | 0.2 | 26.7 | 0.0 | 0.1 | 0.0 | 12.5 | 3.9 | 0.2 | 0.2 | 100.0 | 1,945 |
| Other urban | 87.3 | 3.5 | 1.5 | 0.2 | 0.0 | 0.0 | 4.2 | 0.1 | 0.0 | 0.1 | 1.0 | 1.5 | 0.5 | 0.0 | 100.0 | 3,111 |
| Rural | 88.6 | 5.0 | 1.7 | 0.2 | 0.1 | 0.0 | 2.2 | 0.1 | 0.1 | 0.0 | 0.4 | 1.2 | 0.4 | 0.0 | 100.0 | 4,709 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 86.5 | 5.3 | 1.0 | 0.3 | 0.1 | 0.0 | 3.6 | 0.0 | 0.4 | 0.0 | 0.6 | 1.6 | 0.5 | 0.0 | 100.0 | 1,025 |
| South Central | 63.7 | 5.2 | 1.6 | 0.2 | 0.3 | 0.2 | 17.0 | 0.1 | 0.1 | 0.1 | 8.0 | 3.0 | 0.4 | 0.1 | 100.0 | 3,353 |
| South Eastern A | 86.4 | 6.6 | 0.9 | 0.3 | 0.0 | 0.0 | 2.8 | 0.1 | 0.0 | 0.0 | 0.9 | 1.7 | 0.2 | 0.0 | 100.0 | 731 |
| South Eastern B | 87.1 | 6.6 | 1.6 | 0.1 | 0.1 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.8 | 0.1 | 0.0 | 100.0 | 579 |
| North Central | 90.6 | 2.9 | 1.9 | 0.1 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.4 | 0.1 | 100.0 | 4,077 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 90.9 | 2.8 | 0.3 | 0.0 | 0.0 | 0.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 0.4 | 0.0 | 100.0 | 389 |
| Bong | 90.0 | 2.9 | 1.9 | 0.2 | 0.1 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.7 | 0.1 | 100.0 | 1,123 |
| Gbarpolu | 88.2 | 3.8 | 1.1 | 0.2 | 0.5 | 0.0 | 2.2 | 0.0 | 0.5 | 0.0 | 0.5 | 1.3 | 1.7 | 0.0 | 100.0 | 220 |
| Grand Bassa | 85.6 | 5.8 | 3.1 | 0.0 | 0.0 | 0.0 | 1.3 | 0.4 | 0.0 | 0.0 | 1.6 | 0.9 | 1.2 | 0.0 | 100.0 | 636 |
| Grand Cape Mount | 81.6 | 8.3 | 1.7 | 0.6 | 0.0 | 0.0 | 3.9 | 0.0 | 0.8 | 0.0 | 0.7 | 2.3 | 0.0 | 0.0 | 100.0 | 416 |
| Grand Gedeh | 80.0 | 8.4 | 1.6 | 0.6 | 0.0 | 0.0 | 4.8 | 0.2 | 0.0 | 0.0 | 2.2 | 1.7 | 0.5 | 0.0 | 100.0 | 303 |
| Grand Kru | 86.2 | 6.6 | 2.5 | 0.3 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 1.6 | 1.1 | 0.3 | 0.0 | 100.0 | 147 |
| Lofa | 93.4 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.0 | 0.0 | 100.0 | 1,034 |
| Margibi | 84.5 | 4.2 | 0.8 | 1.6 | 0.2 | 0.0 | 5.8 | 0.0 | 0.0 | 0.6 | 0.8 | 1.3 | 0.3 | 0.0 | 100.0 | 512 |
| Maryland | 85.2 | 8.0 | 1.5 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.6 | 2.0 | 0.1 | 0.0 | 100.0 | 275 |
| Montserrado | 52.5 | 5.2 | 1.3 | 0.0 | 0.5 | 0.2 | 24.2 | 0.1 | 0.1 | 0.0 | 11.5 | 4.0 | 0.2 | 0.2 | 100.0 | 2,204 |
| Nimba | 89.5 | 2.8 | 2.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.6 | 0.1 | 100.0 | 1,921 |
| River Cess | 90.3 | 7.5 | 0.0 | 0.3 | 0.1 | 0.0 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 1.0 | 0.1 | 0.0 | 100.0 | 146 |
| River Gee | 91.4 | 4.2 | 0.9 | 0.1 | 0.2 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.0 | 0.0 | 0.0 | 100.0 | 157 |
| Sinoe | 91.2 | 4.1 | 0.6 | 0.1 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.1 | 2.0 | 0.0 | 0.0 | 100.0 | 282 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 87.2 | 5.4 | 2.2 | 0.3 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9 | 0.5 | 0.1 | 100.0 | 2,011 |
| Second | 90.7 | 4.8 | 1.5 | 0.2 | 0.0 | 0.1 | 1.3 | 0.2 | 0.0 | 0.0 | 0.2 | 1.0 | 0.0 | 0.1 | 100.0 | 2,477 |
| Middle | 86.7 | 4.1 | 1.5 | 0.1 | 0.1 | 0.0 | 4.2 | 0.0 | 0.2 | 0.0 | 1.3 | 1.9 | 0.1 | 0.0 | 100.0 | 2,104 |
| Fourth | 74.5 | 3.6 | 1.6 | 0.1 | 0.1 | 0.2 | 11.7 | 0.0 | 0.0 | 0.2 | 4.5 | 2.5 | 0.9 | 0.0 | 100.0 | 1,745 |
| Highest | 51.0 | 3.9 | 1.2 | 0.2 | 0.7 | 0.0 | 25.9 | 0.0 | 0.2 | 0.0 | 12.3 | 3.7 | 0.6 | 0.3 | 100.0 | 1,427 |
| Total | 80.4 | 4.4 | 1.6 | 0.2 | 0.1 | 0.1 | 7.7 | 0.1 | 0.1 | 0.0 | 3.0 | 1.8 | 0.4 | 0.1 | 100.0 | 9,764 |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).
${ }^{2}$ Any net that is not an ITN

Table 12.3 Access to an insecticide-treated net (ITN)
Percent distribution of the de facto household population by number of ITNs the household owns, and percentage with access to an ITN, according to number of persons who stayed in the household the night before the survey, Liberia DHS 2019-20

|  | Number of persons who stayed in the household the night before the survey |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Number of ITNs ${ }^{1}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | $8+$ | Total |
| 0 | 58.6 | 51.4 | 46.4 | 44.3 | 40.6 | 37.0 | 41.4 | 39.7 | 42.1 |
| 1 | 33.5 | 33.5 | 32.3 | 28.0 | 21.7 | 17.3 | 18.8 | 12.7 | 21.2 |
| 2 | 5.6 | 10.7 | 14.3 | 18.7 | 22.6 | 22.5 | 18.3 | 13.6 | 17.2 |
| 3 | 1.5 | 3.0 | 5.5 | 6.0 | 10.9 | 16.2 | 11.8 | 16.8 | 11.4 |
| 4 | 0.6 | 0.8 | 1.0 | 2.0 | 2.2 | 4.9 | 6.7 | 11.3 | 5.2 |
| 5 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.5 | 1.0 | 3.2 | 1.4 |
| 6 | 0.0 | 0.3 | 0.0 | 0.4 | 0.8 | 0.4 | 2.1 | 1.1 | 0.8 |
| 7 | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.0 | 1.7 | 0.5 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 1,236 | 2,255 | 3,875 | 5,442 | 6,221 | 5,887 | 4,811 | 10,475 | 40,202 |
| Percentage of the de |  |  |  |  |  |  |  |  |  |
| facto population with |  |  |  |  |  |  |  |  |  |
| access to an ITN ${ }^{1,2}$ |  |  |  |  |  |  |  |  |  |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).
${ }^{2}$ Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.4 Access to an ITN according to background characteristics

Percentage of the de facto population with access to an ITN in the household, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of the de facto population with access to an ITN ${ }^{1}$ | Number of persons |
| :---: | :---: | :---: |
| Residence |  |  |
| Urban | 35.8 | 23,089 |
| Greater Monrovia | 25.7 | 12,159 |
| Other urban | 47.1 | 10,931 |
| Rural | 44.9 | 17,113 |
| Region |  |  |
| North Western | 47.7 | 3,386 |
| South Central | 29.7 | 18,318 |
| South Eastern A | 46.2 | 2,544 |
| South Eastern B | 42.2 | 2,335 |
| North Central | 49.5 | 13,620 |
| County |  |  |
| Bomi | 44.0 | 1,312 |
| Bong | 47.8 | 3,964 |
| Gbarpolu | 52.4 | 649 |
| Grand Bassa | 44.5 | 2,317 |
| Grand Cape Mount | 48.9 | 1,425 |
| Grand Gedeh | 52.7 | 887 |
| Grand Kru | 35.1 | 733 |
| Lofa | 48.7 | 3,473 |
| Margibi | 38.1 | 2,242 |
| Maryland | 42.9 | 1,122 |
| Montserrado | 25.9 | 13,759 |
| Nimba | 51.0 | 6,183 |
| River Cess | 38.9 | 635 |
| River Gee | 51.6 | 480 |
| Sinoe | 45.2 | 1,022 |
| Wealth quintile |  |  |
| Lowest | 41.6 | 7,994 |
| Second | 50.5 | 8,008 |
| Middle | 42.3 | 8,030 |
| Fourth | 35.6 | 8,060 |
| Highest | 28.6 | 8,110 |
| Total | 39.7 | 40,202 |

${ }^{1}$ Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.5 Use of mosquito nets by persons in the household
Percentage of the de facto household population who slept the night before the survey under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among the de facto household population in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Liberia DHS 2019-20

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  | Household population in households |  |
| with at least one ITN |  |  |  |  |  |  |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).

| Table 12.6 Use of existing ITNs |  |  |
| :---: | :---: | :---: |
| Percentage of insecticide-treated nets (ITNs) that were used by anyone the night before the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Percentage of existing ITNs ${ }^{1}$ used last night | Number of ITNs ${ }^{1}$ |
| Residence |  |  |
| Urban | 76.8 | 4,840 |
| Greater Monrovia | 79.6 | 1,769 |
| Other urban | 75.1 | 3,070 |
| Rural | 72.6 | 4,673 |
| Region |  |  |
| North Western | 70.6 | 1,020 |
| South Central | 75.3 | 3,159 |
| South Eastern A | 72.3 | 724 |
| South Eastern B | 70.9 | 577 |
| North Central | 76.3 | 4,033 |
| County |  |  |
| Bomi | 68.4 | 387 |
| Bong | 77.4 | 1,117 |
| Gbarpolu | 68.7 | 219 |
| Grand Bassa | 60.6 | 629 |
| Grand Cape Mount | 73.7 | 414 |
| Grand Gedeh | 74.2 | 297 |
| Grand Kru | 78.7 | 146 |
| Lofa | 79.9 | 1,028 |
| Margibi | 79.7 | 511 |
| Maryland | 66.3 | 274 |
| Montserrado | 78.8 | 2,019 |
| Nimba | 73.6 | 1,889 |
| River Cess | 81.5 | 146 |
| River Gee | 71.6 | 157 |
| Sinoe | 65.5 | 281 |
| Wealth quintile |  |  |
| Lowest | 72.1 | 1,999 |
| Second | 74.0 | 2,461 |
| Middle | 74.7 | 2,070 |
| Fourth | 77.1 | 1,674 |
| Highest | 77.1 | 1,309 |
| Total | 74.7 | 9,513 |

[^17]Table 12.7 Use of mosquito nets by children
Percentage of children under age 5 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), 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, Liberia DHS 2019-20

| Background characteristic | Children under age 5 in all households |  |  | Children under age 5 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children |
| Age in months |  |  |  |  |  |
| <12 | 54.5 | 52.8 | 1,198 | 78.8 | 803 |
| 12-23 | 46.1 | 45.2 | 1,081 | 72.9 | 670 |
| 24-35 | 44.1 | 43.7 | 1,094 | 71.7 | 667 |
| 36-47 | 41.2 | 40.1 | 1,279 | 66.2 | 775 |
| 48-59 | 40.6 | 40.0 | 1,251 | 68.7 | 729 |
| Sex |  |  |  |  |  |
| Male | 44.8 | 43.5 | 2,934 | 70.3 | 1,816 |
| Female | 45.6 | 45.0 | 2,969 | 73.1 | 1,828 |
| Residence |  |  |  |  |  |
| Urban | 43.8 | 42.3 | 3,144 | 72.3 | 1,839 |
| Greater Monrovia | 35.0 | 32.5 | 1,548 | 67.3 | 748 |
| Other urban | 52.3 | 51.7 | 1,597 | 75.7 | 1,091 |
| Rural | 46.9 | 46.5 | 2,759 | 71.1 | 1,805 |
| Region |  |  |  |  |  |
| North Western | 51.3 | 51.0 | 510 | 72.4 | 359 |
| South Central | 36.8 | 35.2 | 2,459 | 68.1 | 1,272 |
| South Eastern A | 47.5 | 47.1 | 367 | 76.1 | 227 |
| South Eastern B | 43.1 | 43.0 | 333 | 68.1 | 210 |
| North Central | 53.0 | 52.4 | 2,234 | 74.3 | 1,576 |
| County |  |  |  |  |  |
| Bomi | 50.6 | 50.6 | 177 | 76.0 | 118 |
| Bong | 49.7 | 49.4 | 631 | 72.9 | 427 |
| Gbarpolu | 54.2 | 53.4 | 103 | 72.4 | 76 |
| Grand Bassa | 39.5 | 39.3 | 367 | 60.1 | 240 |
| Grand Cape Mount | 50.6 | 50.2 | 231 | 69.9 | 166 |
| Grand Gedeh | 58.0 | 57.0 | 131 | 80.8 | 92 |
| Grand Kru | 41.8 | 41.7 | 117 | 73.8 | 66 |
| Lofa | 53.8 | 53.8 | 503 | 77.1 | 351 |
| Margibi | 44.8 | 44.8 | 306 | 79.0 | 174 |
| Maryland | 38.8 | 38.6 | 153 | 59.6 | 99 |
| Montserrado | 34.9 | 32.8 | 1,786 | 68.2 | 858 |
| Nimba | 54.5 | 53.5 | 1,100 | 73.8 | 797 |
| River Cess | 41.5 | 41.5 | 96 | 79.2 | 50 |
| River Gee | 55.8 | 55.8 | 63 | 78.6 | 45 |
| Sinoe | 41.7 | 41.5 | 141 | 69.2 | 84 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 41.7 | 41.2 | 1,410 | 66.8 | 870 |
| Second | 55.6 | 55.2 | 1,317 | 75.5 | 964 |
| Middle | 47.0 | 46.6 | 1,148 | 75.5 | 709 |
| Fourth | 41.4 | 40.2 | 1,043 | 69.7 | 601 |
| Highest | 38.2 | 35.6 | 985 | 70.1 | 501 |
| Total | 45.2 | 44.3 | 5,903 | 71.7 | 3,644 |

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 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.8 Use of mosquito nets by pregnant women
Percentage of pregnant women age 15-49 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), 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, Liberia DHS 2019-20

| Background characteristic | Among pregnant women age 15-49 in all households |  |  | Among pregnant women age 15-49 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under any mosquito net last night | Percentage who slept under an ITN ${ }^{1}$ last night | Number of pregnant women | Percentage who slept under an ITN ${ }^{1}$ last night | Number of pregnant women |
| Residence |  |  |  |  |  |
| Urban | 47.7 | 45.3 | 333 | 79.1 | 191 |
| Greater Monrovia | 36.9 | 34.2 | 172 | * | 70 |
| Other urban | 59.2 | 57.1 | 161 | 76.2 | 121 |
| Rural | 48.2 | 48.1 | 267 | 77.2 | 166 |
| Region |  |  |  |  |  |
| North Western | 57.5 | 57.5 | 54 | 86.6 | 36 |
| South Central | 37.2 | 35.4 | 258 | 76.8 | 119 |
| South Eastern A | 44.5 | 42.5 | 39 | 75.5 | 22 |
| South Eastern B | 42.0 | 42.0 | 42 | 75.2 | 23 |
| North Central | 60.6 | 59.1 | 208 | 78.2 | 157 |
| County |  |  |  |  |  |
| Bomi | (59.4) | (59.4) | 17 | * | 11 |
| Bong | 49.8 | 49.8 | 72 | (71.0) | 51 |
| Gbarpolu | (49.3) | (49.3) | 12 | (82.2) | 7 |
| Grand Bassa | (37.4) | (37.4) | 33 | (54.1) | 23 |
| Grand Cape Mount | (60.3) | (60.3) | 25 | (85.9) | 18 |
| Grand Gedeh | (56.5) | (50.1) | 12 | * | 9 |
| Grand Kru | (31.4) | (31.4) | 15 | * | 7 |
| Lofa | (60.2) | (60.2) | 43 | (84.4) | 31 |
| Margibi | (45.3) | (45.3) | 34 | (82.6) | 19 |
| Maryland | (50.4) | (50.4) | 18 | (76.0) | 12 |
| Montserrado | 35.7 | 33.3 | 191 | (82.0) | 77 |
| Nimba | (69.2) | (66.0) | 92 | (80.5) | 76 |
| River Cess | (48.3) | (48.3) | 13 | * | 8 |
| River Gee | (43.2) | (43.2) | 8 | * | 4 |
| Sinoe | (28.8) | (28.8) | 13 | * | 5 |
| Education |  |  |  |  |  |
| No education | 43.6 | 43.4 | 160 | 75.1 | 92 |
| Elementary | 57.7 | 55.0 | 183 | 80.6 | 125 |
| Junior high | 52.9 | 52.9 | 130 | 85.1 | 81 |
| Senior high | 37.3 | 34.3 | 104 | (65.8) | 54 |
| Higher | * | * | 23 | * | 5 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 44.8 | 44.8 | 147 | 73.3 | 90 |
| Second | 63.1 | 62.4 | 122 | 82.1 | 93 |
| Middle | 52.6 | 52.6 | 123 | 81.3 | 79 |
| Fourth | 39.2 | 35.1 | 111 | (69.4) | 56 |
| Highest | (37.8) | (34.7) | 98 | * | 39 |
| Total | 47.9 | 46.5 | 600 | 78.2 | 357 |

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. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).

## Table 12.9 Use of intermittent preventive treatment (IPTp) by women during pregnancy

Percentage of women age 15-49 with a live birth in the 2 years preceding the survey who, during the pregnancy that resulted in the last live birth, 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, Liberia DHS 2019-20

| 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 in the 2 years preceding the survey |
| :---: | :---: | :---: | :---: | :---: |
| Residence |  |  |  |  |
| Urban | 90.1 | 69.2 | 37.7 | 1,129 |
| Greater Monrovia | 87.8 | 64.1 | 29.9 | 574 |
| Other urban | 92.4 | 74.5 | 45.8 | 555 |
| Rural | 90.6 | 71.2 | 43.4 | 967 |
| Region |  |  |  |  |
| North Western | 88.3 | 70.7 | 45.8 | 184 |
| South Central | 88.2 | 64.4 | 34.3 | 926 |
| South Eastern A | 92.4 | 70.4 | 40.9 | 140 |
| South Eastern B | 90.7 | 73.2 | 38.5 | 112 |
| North Central | 93.0 | 76.8 | 46.8 | 733 |
| County |  |  |  |  |
| Bomi | 94.8 | 81.1 | 60.2 | 58 |
| Bong | 89.8 | 69.9 | 26.5 | 231 |
| Gbarpolu | 80.3 | 65.0 | 32.2 | 37 |
| Grand Bassa | 88.9 | 56.8 | 38.1 | 151 |
| Grand Cape Mount | 87.4 | 66.3 | 42.0 | 90 |
| Grand Gedeh | 90.9 | 63.5 | 35.8 | 53 |
| Grand Kru | 85.7 | 61.6 | 31.8 | 43 |
| Lofa | 95.1 | 78.6 | 45.4 | 172 |
| Margibi | 89.0 | 70.4 | 44.2 | 119 |
| Maryland | 93.6 | 81.6 | 44.4 | 48 |
| Montserrado | 87.9 | 65.0 | 31.6 | 656 |
| Nimba | 94.2 | 80.7 | 61.6 | 330 |
| River Cess | 97.4 | 88.1 | 46.0 | 32 |
| River Gee | 94.0 | 77.4 | 38.9 | 22 |
| Sinoe | 91.0 | 66.8 | 42.8 | 55 |
| Education |  |  |  |  |
| No education | 90.6 | 72.9 | 44.1 | 683 |
| Elementary | 89.7 | 69.9 | 40.7 | 565 |
| Junior high | 91.5 | 69.1 | 43.0 | 381 |
| Senior high | 87.4 | 66.3 | 34.2 | 388 |
| Higher | (100.0) | (72.1) | (22.3) | 78 |
| Wealth quintile |  |  |  |  |
| Lowest | 88.4 | 69.8 | 45.7 | 507 |
| Second | 94.0 | 77.2 | 47.5 | 444 |
| Middle | 91.3 | 69.5 | 40.8 | 394 |
| Fourth | 88.6 | 70.6 | 34.6 | 411 |
| Highest | 89.2 | 61.8 | 29.4 | 340 |
| Total | 90.3 | 70.1 | 40.3 | 2,096 |

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

Table 12.10 Prevalence, diagnosis, and prompt treatment of children with fever
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey, and among children under age 5 with a 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, and percentage who had blood taken from a finger or heel for testing, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Children under age 5 |  | Children under age 5 with fever |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with a fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage for whom advice or treatment was sought the same or next day ${ }^{1}$ | Percentage who had blood taken from a finger or heel for testing | Number of children |
| Age in months |  |  |  |  |  |  |
| <12 | 26.7 | 1,098 | 80.6 | 45.5 | 46.1 | 293 |
| 12-23 | 28.4 | 937 | 79.6 | 45.3 | 54.9 | 267 |
| 24-35 | 25.8 | 873 | 78.2 | 49.9 | 44.7 | 225 |
| 36-47 | 23.2 | 978 | 86.2 | 48.7 | 54.3 | 227 |
| 48-59 | 20.9 | 980 | 80.1 | 49.8 | 44.5 | 205 |
| Sex |  |  |  |  |  |  |
| Male | 25.1 | 2,431 | 82.1 | 47.7 | 50.0 | 611 |
| Female | 24.9 | 2,434 | 79.7 | 47.5 | 48.1 | 606 |
| Residence |  |  |  |  |  |  |
| Urban | 23.7 | 2,615 | 87.1 | 55.3 | 46.8 | 620 |
| Greater Monrovia | 23.8 | 1,326 | 90.3 | 57.8 | 40.4 | 316 |
| Other urban | 23.6 | 1,289 | 83.8 | 52.6 | 53.4 | 304 |
| Rural | 26.5 | 2,251 | 74.4 | 39.7 | 51.3 | 597 |
| Region |  |  |  |  |  |  |
| North Western | 35.4 | 419 | 80.4 | 52.5 | 58.6 | 148 |
| South Central | 26.5 | 2,123 | 84.4 | 47.6 | 42.5 | 562 |
| South Eastern A | 33.7 | 302 | 85.5 | 43.2 | 59.6 | 102 |
| South Eastern B | 33.4 | 268 | 77.7 | 45.9 | 54.0 | 89 |
| North Central | 18.0 | 1,755 | 74.3 | 47.1 | 51.4 | 315 |
| County |  |  |  |  |  |  |
| Bomi | 42.7 | 143 | 91.6 | 58.8 | 72.8 | 61 |
| Bong | 25.5 | 540 | 73.9 | 42.9 | 42.4 | 138 |
| Gbarpolu | 35.4 | 86 | 64.8 | 38.6 | 39.9 | 30 |
| Grand Bassa | 29.5 | 341 | 74.5 | 37.5 | 39.9 | 101 |
| Grand Cape Mount | 29.8 | 190 | 76.6 | 53.0 | 53.3 | 57 |
| Grand Gedeh | 30.0 | 111 | 85.8 | 43.9 | 65.3 | 33 |
| Grand Kru | 21.4 | 96 | 74.3 | 50.9 | 41.8 | 21 |
| Lofa | 11.4 | 375 | (77.9) | (45.4) | (62.3) | 43 |
| Margibi | 34.1 | 256 | 89.2 | 35.6 | 55.7 | 87 |
| Maryland | 40.6 | 123 | 77.2 | 39.3 | 57.7 | 50 |
| Montserrado | 24.6 | 1,526 | 85.9 | 53.2 | 40.1 | 375 |
| Nimba | 16.1 | 839 | 73.6 | 52.0 | 57.2 | 135 |
| River Cess | 36.3 | 74 | 90.0 | 37.1 | 75.9 | 27 |
| River Gee | 39.4 | 48 | 82.5 | 57.8 | 57.5 | 19 |
| Sinoe | 35.4 | 117 | 82.4 | 46.7 | 44.3 | 41 |
| Mother's education |  |  |  |  |  |  |
| No education | 23.4 | 1,723 | 75.9 | 43.8 | 47.6 | 403 |
| Elementary | 25.6 | 1,236 | 78.8 | 42.0 | 45.4 | 317 |
| Junior high | 25.9 | 852 | 82.8 | 53.5 | 50.2 | 220 |
| Senior high | 27.7 | 866 | 88.3 | 54.0 | 52.3 | 240 |
| Higher | 19.3 | 189 | * | * | * | 36 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 23.2 | 1,169 | 70.5 | 33.5 | 45.8 | 271 |
| Second | 25.4 | 1,061 | 76.5 | 47.7 | 53.5 | 270 |
| Middle | 22.8 | 912 | 75.4 | 39.9 | 51.9 | 208 |
| Fourth | 27.6 | 913 | 89.1 | 57.3 | 41.4 | 252 |
| Highest | 26.7 | 811 | 95.1 | 61.2 | 53.5 | 216 |
| Total | 25.0 | 4,866 | 80.9 | 47.6 | 49.0 | 1,217 |

[^18]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, Liberia DHS 2019-20

| Source | Percentage for whom advice or treatment was sought from each source: |  |
| :---: | :---: | :---: |
|  | Among children with fever | Among children with fever for whom advice or treatment was sought |
| Public sector | 39.0 | 47.9 |
| Government hospital | 12.3 | 15.1 |
| Government health center | 3.4 | 4.2 |
| Government health clinic | 22.6 | 27.8 |
| Mobile clinic | 1.0 | 1.2 |
| Private medical sector | 38.7 | 47.5 |
| Private hospital/center/clinic | 10.2 | 12.5 |
| Pharmacy | 26.1 | 32.1 |
| Private doctor | 2.1 | 2.5 |
| Mobile clinic | 1.9 | 2.4 |
| Other private medical sector | 0.1 | 0.1 |
| Other private sector | 4.9 | 6.0 |
| Shop | 1.4 | 1.7 |
| Traditional practitioner | 0.5 | 0.6 |
| Black bagger/drug peddler | 3.0 | 3.7 |
| Other | 1.8 | 2.3 |
| Number of children | 1,217 | 990 |

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, Liberia DHS 2019-20

| Background characteristic | Percentage of children who took: |  |  |  |  |  |  |  |  | Number of children with fever who took antimalarial drug |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Any ACT | SP/ <br> Fansidar | Chloroquine | Amodiaquine | Quinine pills | Quinine injection/IV | Artesunate rectal | Artesunate injection/IV | Other antimalarial |  |
| Age in months |  |  |  |  |  |  |  |  |  |  |
| <6 | (43.7) | (3.4) | (14.6) | (37.9) | (7.8) | (0.5) | (8.8) | (0.0) | (0.9) | 42 |
| 6-11 | 37.1 | 8.1 | 2.7 | 34.7 | 14.8 | 0.9 | 0.4 | 4.1 | 1.6 | 69 |
| 12-23 | 43.3 | 8.9 | 1.6 | 40.9 | 4.1 | 0.1 | 1.1 | 7.2 | 1.1 | 139 |
| 24-35 | 43.7 | 3.7 | 0.4 | 39.9 | 11.4 | 2.0 | 1.4 | 4.1 | 0.5 | 127 |
| 36-47 | 36.2 | 5.5 | 1.0 | 57.7 | 1.5 | 0.5 | 3.5 | 0.3 | 0.2 | 140 |
| 48-59 | 43.4 | 7.0 | 2.4 | 45.4 | 3.3 | 0.0 | 4.6 | 2.5 | 4.9 | 117 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Male | 43.8 | 7.3 | 1.3 | 42.1 | 4.0 | 0.2 | 1.2 | 4.0 | 2.6 | 322 |
| Female | 38.4 | 5.3 | 3.5 | 46.7 | 8.6 | 1.2 | 4.4 | 2.7 | 0.4 | 312 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 44.2 | 4.7 | 1.6 | 43.7 | 8.6 | 0.2 | 3.6 | 4.5 | 2.8 | 291 |
| Greater Monrovia | (52.6) | (4.1) | (0.0) | (47.7) | (11.2) | (0.0) | (7.3) | (1.7) | (0.0) | 122 |
| Other urban | 38.1 | 5.2 | 2.8 | 40.8 | 6.7 | 0.3 | 1.0 | 6.5 | 4.8 | 168 |
| Rural | 38.6 | 7.7 | 3.0 | 44.9 | 4.3 | 1.1 | 2.0 | 2.4 | 0.4 | 343 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 44.8 | 16.2 | 0.0 | 39.4 | 4.7 | 2.0 | 0.3 | 0.8 | 0.2 | 88 |
| South Central | 49.2 | 4.8 | 3.4 | 37.9 | 8.2 | 0.3 | 4.4 | 4.0 | 1.3 | 250 |
| South Eastern A | 44.1 | 13.9 | 1.6 | 36.2 | 4.8 | 2.3 | 3.0 | 4.1 | 0.5 | 66 |
| South Eastern B | 30.8 | 0.8 | 3.1 | 56.8 | 3.5 | 0.6 | 1.6 | 4.5 | 0.3 | 50 |
| North Central | 30.0 | 2.3 | 2.2 | 55.2 | 5.6 | 0.0 | 2.0 | 3.2 | 3.2 | 181 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |
| No education | 43.5 | 8.2 | 4.2 | 40.0 | 3.9 | 1.6 | 3.0 | 2.9 | 0.2 | 226 |
| Elementary | 36.5 | 4.2 | 2.7 | 50.6 | 4.4 | 0.2 | 1.7 | 1.0 | 0.0 | 178 |
| Junior high | 32.2 | 2.5 | 0.9 | 52.1 | 10.7 | 0.0 | 1.2 | 2.3 | 0.3 | 107 |
| Senior high | 51.5 | 8.7 | 0.0 | 42.8 | 6.0 | 0.3 | 5.9 | 6.9 | 8.5 | 105 |
| Higher | * | * | * | * | * | * | * | * | * | 18 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 33.0 | 5.1 | 3.9 | 49.1 | 5.9 | 0.5 | 2.2 | 1.0 | 0.3 | 151 |
| Second | 36.2 | 9.1 | 1.1 | 50.2 | 4.2 | 0.4 | 0.9 | 2.5 | 0.6 | 167 |
| Middle | 36.7 | 6.0 | 5.9 | 41.8 | 3.5 | 0.7 | 3.8 | 3.4 | 5.0 | 115 |
| Fourth | 45.8 | 2.5 | 0.6 | 46.8 | 9.5 | 1.6 | 0.2 | 4.8 | 1.9 | 111 |
| Highest | 64.0 | 8.2 | 0.0 | 25.9 | 9.9 | 0.3 | 9.1 | 7.1 | 0.2 | 90 |
| Total | 41.2 | 6.3 | 2.4 | 44.4 | 6.2 | 0.7 | 2.8 | 3.4 | 1.5 | 634 |

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

Table 12.13 Coverage of testing for anemia in children
Percentage of eligible children age 6-59 months who were tested for anemia, according to background characteristics (unweighted), Liberia DHS 2019-20

| Background <br> characteristic | Percentage tested <br> for anemia | Number of <br> children |
| :--- | :---: | :---: |
| Age in months |  |  |
| $6-8$ | 89.5 | 200 |
| $9-11$ | 94.0 | 151 |
| $12-17$ | 96.2 | 319 |
| $18-23$ | 94.6 | 277 |
| $24-35$ | 92.6 | 592 |
| $36-47$ | 93.1 | 669 |
| 48-59 | 93.7 | 635 |
| Sex |  |  |
| Male | 93.4 | 1,404 |
| Female | 93.5 | 1,439 |
| Mother's interview status |  |  |
| Interviewed | 95.0 | 2,263 |
| Not interviewed but in |  |  |
| household | 61.9 | 84 |
| $\quad$ Not interviewed and not in |  |  |
| $\quad$ the household |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
$\mathrm{nc}=$ No unweighted cases
${ }^{1}$ Includes children whose mothers are deceased
${ }^{2}$ 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 12.14 Hemoglobin <8.0 g/dl in children |  |  |
| :---: | :---: | :---: |
| Percentage of children age 6-59 months with hemoglobin lower than $8.0 \mathrm{~g} / \mathrm{dl}$, by background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Hemoglobin $<8.0 \mathrm{~g} / \mathrm{dl}$ | Number of children |
| Age in months |  |  |
| 6-8 | 6.1 | 172 |
| 9-11 | 5.6 | 151 |
| 12-17 | 13.6 | 281 |
| 18-23 | 15.6 | 239 |
| 24-35 | 10.4 | 513 |
| 36-47 | 7.3 | 598 |
| 48-59 | 5.8 | 571 |
| Sex |  |  |
| Male | 8.6 | 1,238 |
| Female | 9.2 | 1,286 |
| Mother's interview status |  |  |
| Interviewed | 8.8 | 2,028 |
| Not interviewed but in household | 7.5 | 56 |
| Not interviewed and not in the household ${ }^{1}$ | 9.7 | 440 |
| Residence |  |  |
| Urban | 7.8 | 1,311 |
| Greater Monrovia | 6.6 | 664 |
| Other urban | 9.0 | 647 |
| Rural | 10.1 | 1,213 |
| Region |  |  |
| North Western | 11.2 | 226 |
| South Central | 9.2 | 1,055 |
| South Eastern A | 7.1 | 172 |
| South Eastern B | 10.7 | 144 |
| North Central | 8.0 | 926 |
| County |  |  |
| Bomi | 15.2 | 85 |
| Bong | 8.3 | 283 |
| Gbarpolu | 6.2 | 45 |
| Grand Bassa | 14.6 | 175 |
| Grand Cape Mount | 10.1 | 96 |
| Grand Gedeh | 10.1 | 60 |
| Grand Kru | 14.4 | 51 |
| Lofa | 1.5 | 190 |
| Margibi | 12.0 | 127 |
| Maryland | 9.4 | 66 |
| Montserrado | 7.5 | 754 |
| Nimba | 10.5 | 453 |
| River Cess | 1.9 | 46 |
| River Gee | 6.8 | 26 |
| Sinoe | 7.9 | 67 |
| Mother's education ${ }^{2}$ |  |  |
| No education | 9.3 | 775 |
| Elementary | 11.3 | 914 |
| Junior high | 1.7 | 303 |
| Senior high | (1.7) | 92 |
| Higher | nc | 0 |
| Missing | * | 1 |
| Wealth quintile |  |  |
| Lowest | 11.4 | 626 |
| Second | 9.3 | 562 |
| Middle | 9.2 | 506 |
| Fourth | 9.3 | 458 |
| Highest | 3.3 | 373 |
| Total | 8.9 | 2,524 |

Note: Table is based on children who stayed in the household the night before the interview. Prevalence of anemia is based on hemoglobin levels and is adjusted for altitude using CDC formulas (CDC 1998). Hemoglobin is measured in grams per deciliter (g/dl). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
$\mathrm{nc}=$ No unweighted cases
${ }^{1}$ Includes children whose mothers are deceased
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.

## HIVIAIDS-RELATED KNOWLEDGE, ATTITUDES, AND BEHAVIOR

## Key Findings

- Knowledge about HIV transmission and prevention: $33 \%$ of women and $35 \%$ of men age 15-49 have comprehensive knowledge about the modes of HIV transmission and prevention.
- Knowledge of mother-to-child transmission of HIV: $53 \%$ of women and $42 \%$ of men know that HIV can be transmitted during pregnancy, labor/delivery, or breastfeeding. Additionally, 54\% of women and $40 \%$ of men know that the risk of mother-to-child transmission can be reduced by the mother taking special drugs.
- Discriminatory attitudes: $53 \%$ of women and $50 \%$ of men think that children living with HIV should not be able to attend school with children who are HIV negative; 62\% of women and $54 \%$ of men would not buy fresh vegetables from a shopkeeper with HIV.
- Sexual partners: Among respondents who had sex in the past 12 months with a partner who neither was their spouse nor lived with them, $15 \%$ of women and $31 \%$ of men used a condom during their last sexual intercourse with such a partner.
- Knowledge about HIV transmission and prevention among young people: $32 \%$ of young women and $30 \%$ of young men age 15-24 have comprehensive knowledge of HIV.

Acquired immunodeficiency syndrome (AIDS) is one of the most serious public health and development challenges facing the world today. AIDS is caused by the human immunodeficiency virus (HIV). HIV weakens the immune system, making the body susceptible to secondary infections and opportunistic diseases. In Liberia, the main routes of HIV transmission are heterosexual contact and transmission from mother to child during pregnancy, childbirth, and breastfeeding.

The future course of Liberia's HIV epidemic depends on many variables: provision and uptake of HIV testing, access to care and antiretroviral therapy (ART), levels of HIV-related knowledge among the general population, social stigmatization, risk behavior modification, and access to high-quality services for sexually transmitted infections (STIs). The principal objective of this chapter is to assess the prevalence of relevant knowledge, attitudes, and behaviors at the national level as well as within geographic and socioeconomic subpopulations. This information will help the National AIDS Control Program in Liberia better target those groups of individuals most in need of information and testing and treatment services.

### 13.1 HIV Knowledge, Transmission, and Prevention Methods

The 2019-20 LDHS included a series of questions to measure respondents' knowledge and attitudes regarding HIV. Women and men age 15-49 were first asked whether they had heard of HIV. Those who reported having heard of HIV were asked additional questions regarding the various modes of prevention, including whether it is possible to reduce the chances of getting HIV by having just one faithful sex partner and using a condom during every sexual encounter.

Ninety-five percent of women and $96 \%$ of men age 15-49 have heard of HIV (data not shown). Seventy-three percent of women know that using condoms reduces the risk of HIV transmission, and $79 \%$ know that the risk of transmission can be reduced by having one uninfected sexual partner. Among men, $83 \%$ know that using condoms reduces the risk of transmission, while $85 \%$ know that the risk of HIV transmission can be reduced by having only one uninfected sexual partner. Two-thirds of women and $77 \%$ of men know both of these methods for reducing the risk of HIV (Table 13.1).

Trends: Among women, there has been little change in knowledge of prevention methods since 2013. However, knowledge among men has increased. In 2013, $68 \%$ of men knew that consistent use of condoms and limiting sexual intercourse to one uninfected partner can reduce the risk of HIV, as compared with $77 \%$ in 2019-20.

## Patterns by background characteristics

- Among both women and men, knowledge of prevention methods is lowest in the youngest age group (1519 years).
- Among women, knowledge of HIV prevention methods varies only minimally across urban and rural areas. However, among men, knowledge is lowest in rural areas ( $67 \%$ know both methods) and highest in Greater Monrovia (87\%).
- By county, knowledge of both methods ranges from $58 \%$ in Bomi to $85 \%$ in Sinoe among women and from $49 \%$ in Grand Cape Mount to $86 \%$ in Montserrado and Sinoe among men.
- The level of knowledge of HIV prevention methods generally increases with increasing education among both women and men. Among women, there is little variance in knowledge of prevention methods according to household wealth. Among men, however, knowledge of both prevention methods is lowest in the bottom two wealth quintiles ( $69 \%$ each) and highest in the fourth quintile $(88 \%)$.


## Comprehensive knowledge of HIV

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 the two most common local misconceptions about transmission or prevention of HIV.
Sample: Women and men age 15-24 and 15-49

The two most common local misconceptions about HIV transmission in Liberia are that HIV can be transmitted through mosquitoes and sharing of food. The survey results showed that $33 \%$ of women and $35 \%$ of men age 15-49 have comprehensive knowledge of HIV (Table 13.2).

Trends: Among women, after a large increase from $19 \%$ in 2007 to $37 \%$ in 2013, comprehensive knowledge decreased to $33 \%$ in 2019-20. A different pattern is observed in men, among whom comprehensive knowledge increased slightly from $32 \%$ in 2007 to $35 \%$ in 2019-20.

### 13.2 Knowledge about Mother-to-Child Transmission

Increasing the level of general knowledge about transmission of HIV from mother to child and reducing the risk of transmission using antiretroviral drugs are critical in reducing mother-to-child transmission (MTCT) of HIV. To assess MTCT knowledge, respondents were asked whether HIV can be transmitted from a mother to her child during pregnancy, during delivery, or by breastfeeding and whether a mother with HIV can reduce the risk of transmission to her baby by taking certain drugs during pregnancy.

Roughly two-thirds of women age 15-49 know that HIV can be transmitted from mother to child during pregnancy, during delivery, or through breastfeeding; $53 \%$ are familiar with all three modes of mother-to-child transmission. Knowledge of MTCT is somewhat lower among men, with slightly more than half of men age 1549 knowing each of the three modes of transmission and $42 \%$ knowing all three. Fifty-four percent of women and $40 \%$ of men know that the risk of MTCT can be prevented by the mother taking special drugs (Table

Figure 13.1 Trends in knowledge of mother-to-child transmission (MTCT)

Percentage of women and men age 15-49 who know that the risk of MTCT can be reduced by mother taking special drugs 13.3).

Trends: Knowledge of medications to prevent MTCT increased from 2007 to 2013 among both women and men. However, while continuing to increase between 2013 and 2019-20 among men (from $35 \%$ to $40 \%$ ), knowledge decreased among women (from $58 \%$ to $54 \%$ ) (Figure 13.1).

### 13.3 Discriminatory Attitudes towards People Living with HiV

Widespread stigma and discrimination in a population can adversely affect both people's willingness to be tested and their adherence to ART. Thus, reduction of stigma and discrimination in a population is an important indicator of the success of programs targeting HIV prevention and control.

## Discriminatory attitudes towards people living with HIV

Women and men are 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

Discriminatory attitudes towards people living with HIV are high in Liberia. More than half of women age 1549 who have heard of HIV do not think that children living with HIV should attend school with children who are HIV negative ( $53 \%$ ), and $62 \%$ would not buy fresh vegetables from a shopkeeper who has HIV (Table 13.4). Among men age $15-49$ who have heard of HIV, half do not think that children living with HIV should
attend school with children who are HIV negative, and $54 \%$ would not buy fresh vegetables from a shopkeeper who has HIV. More than two-thirds of women (69\%) and $64 \%$ of men have one or both of these discriminatory attitudes.

## Patterns by background characteristics

- Discriminatory attitudes towards people living with HIV are more common in rural areas than in urban areas. Two-thirds of urban women ( $67 \%$ ) have discriminatory attitudes, as compared with $73 \%$ of rural women. Among men, $58 \%$ of those in urban areas have discriminatory attitudes towards people living with HIV, compared with $73 \%$ of those in rural areas.
- There are sizable variations by county in the percentages of women and men who have discriminatory attitudes towards people living with HIV. Among women, the percentage with discriminatory attitudes ranges from $51 \%$ in Maryland to $87 \%$ in Grand Kru. Among men, the lowest percentage is found in Bomi ( $44 \%$ ) and the highest in Grand Cape Mount (85\%).
- Discriminatory attitudes tend to decrease with increasing levels of wealth and education. For example, discriminatory attitudes decrease from $84 \%$ among men with no formal education to $37 \%$ among men with a higher education (Figure 13.2).


### 13.4 Multiple Sexual Partners

Figure 13.2 Discriminatory attitudes towards people living with HIV by education

Percentage among women and men age 15-49 who have heard of HIV ■ Women ■Men


Note: Respondents have discriminatory attitudes if they do not think that children living with HIV should be able to attend school with children who are HIV negative or would not buy fresh vegetables from a shopkeeper who has HIV.

Given that most HIV infections in Liberia are acquired through heterosexual intercourse, information on number of sexual partners and use of safe sex practices is important in designing and monitoring HIV prevention programs.

Table 13.5.1 shows that $7 \%$ of women age $15-49$ had two or more sexual partners in the 12 months preceding the survey, among whom $17 \%$ reported using a condom during their last sexual intercourse. More than one-third of women ( $36 \%$ ) had sex in the past 12 months with a partner who neither was their husband nor lived with them, and among these women $15 \%$ used a condom during their last sexual intercourse with such a partner (Figure 13.3). The mean number of lifetime sexual partners among women is 5.2.

Table 13.5.2 shows that $24 \%$ of men age $15-49$ reported having two or more sexual partners in the 12 months prior to the survey, among whom $21 \%$ reported using a condom during their last sexual intercourse. Forty-nine percent of men reported having sexual intercourse in the past 12 months with a partner who neither was their wife

Figure 13.3 Sex and condom use with high-risk partners

Percentage of women and men age 15-49 ■ Women ■Men

nor lived with them, and among these men $31 \%$ reported using a condom during their last sexual intercourse with such a partner (Figure 13.3). The mean number of lifetime sexual partners among men is 14.4.

Trends: The percentage of women who used a condom during their last sexual intercourse with a partner who neither was their husband nor lived with them increased from $14 \%$ in 2007 to $20 \%$ in 2013 before decreasing to $15 \%$ in 2019-20. The percentage of men who used a condom during last sex with a partner who neither was their wife nor lived with them increased from $26 \%$ in 2007 to $42 \%$ in 2013 , but has since declined to $31 \%$ in 2019-2020. Mean numbers of lifetime sexual partners have increased since 2007 among both women (from 4.1 to 5.2) and men (from 10.6 to 14.4).

## Patterns by background characteristics

- By marital status, condom use at last sex with a nonmarital, noncohabiting partner is lowest among women and men who are divorced, separated, or widowed. Among men, condom use with nonmarital, noncohabiting partners is higher among those who have never been married than among those who are married or living together with a partner as though married ( $34 \%$ versus $28 \%$ ). Conversely, among women, condom use with nonmarital, noncohabiting partners is lower among women who have never been married than among those who are married or living together with a partner ( $16 \%$ versus $21 \%$ ).
- Condom use at last sex with a nonmarital, noncohabiting partner is higher in urban than in rural areas. Ten percent of rural women used a condom during their last sexual intercourse with a nonmarital, noncohabiting partner, as compared with $17 \%$ of their urban counterparts. Among men, $20 \%$ of those in rural areas used a condom at last sex with a nonmarital, noncohabiting partner, compared with $37 \%$ of those in urban areas.
- Condom use at last sex with a nonmarital, noncohabiting partner generally increases with increasing wealth among both women and men, but there is no specific pattern by education. Among women, condom use at last sex with a nonmarital, noncohabiting partner increases from $7 \%$ among those with no education to $24 \%$ among those with a senior high education before decreasing to $16 \%$ among those with a higher education. Among men, use of a condom at last sex with a nonmarital, noncohabiting partner drops from $29 \%$ among those with no education to $18 \%$ among those with an elementary education before rising steadily to $40 \%$ among those with a higher education.


### 13.5 Paid Sex

The act of paying for sex introduces an uneven negotiating ground for safer sexual intercourse. This type of sexual intercourse is associated with a greater risk of contracting HIV and other sexually transmitted infections (STIs) because of compromised power relations and the likelihood of having multiple partners.

Ten percent of men age 15-49 report ever having paid for sexual intercourse, and 5\% report that they paid for sexual intercourse in the 12 months preceding the survey. Two-thirds $(67 \%)$ of those who paid for sexual intercourse in the 12 months preceding the survey reported using a condom during their last paid sexual intercourse (Table 13.6).

Trends: There has been little change over time in the percentage of men who pay for sex and who report using a condom at last paid sex. In both 2013 and 2019-2020, 10\% of men reported having ever paid for sex and 5\% reported paying for sex in the past 12 months. The percentage of men who used a condom at last paid sex in the past 12 months increased from $61 \%$ in 2013 to $67 \%$ in 2019-2020.

## Patterns by background characteristics

- The percentage of men who paid for sex in the 12 months preceding the survey is higher among those age $20-29(8 \%)$ than among those in other age groups ( $4 \%$ or lower).


### 13.6 Coverage of HIV Testing Services

Identifying people living with HIV through testing is one of the most important aspects of the response to the HIV epidemic. Diagnosing people with HIV enables them to access treatment services. Use of ART reduces viral loads, which improves individuals' health and life expectancy and greatly reduces their chances of transmitting the virus to others. At a population level, comprehensive testing and treatment programs can reduce HIV incidence. In addition, knowledge of HIV status helps HIV-negative individuals make specific decisions to reduce risk and increase safer sex practices so that they can remain free of infection.

### 13.6.1 Awareness of HIV Testing Services and Experience with HIV Testing

Figure 13.4 shows that half of women age 15-49 have ever been tested for HIV and received the results of the last test, while $22 \%$ have been tested for HIV in the 12 months preceding the survey and received the results of the last test. Thirty-two percent of men age 15-49 have ever been tested for HIV and received the results of the last test, and $21 \%$ have been tested for HIV in the 12 months preceding the survey and received the results of the last test. Forty-five percent of women and $66 \%$ of men have never had an HIV test (Tables 13.7.1 and 13.7.2).

Trends: Coverage of HIV testing services increased markedly between 2007 and 2013 and then gradually from 2013 to 2019-20. Among women, the percentage who were tested for HIV in the past 12 months and received the results increased from $2 \%$ in 2007 to $19 \%$ in 2013 and $22 \%$ in 2019-20. Among men, the percentage increased from $2 \%$ in 2007 to $12 \%$ in 2013

Figure 13.4 HIV testing
Percentage of women and men age 15-49
$■$ Women ■ Men


Figure 13.5 Trends in recent HIV testing
Percentage of women and men age 15-49 who were tested for HIV in the year before the survey and received the results and $21 \%$ in 2019-20 (Figure 13.5).

## Patterns by background characteristics

- The percentage of women who have been tested for HIV in the past 12 months and received the results is highest among those age $25-29$ ( $31 \%$ ) and lowest among those age 15-19 (15\%). Among men, those age 25-49 are more likely than those age 15-24 to have been tested for HIV in the past 12 months and
 to have received the results ( $28 \%$ versus $8 \%-14 \%$ ).
- Women and men in rural areas are somewhat less likely than their counterparts in urban areas to have been tested for HIV in the past 12 months and to have received the results. Twenty percent of women and $19 \%$
of men in rural areas have been tested for HIV in the past 12 months and received the results, as compared with $23 \%$ of women and men in urban areas.
- There are variations in coverage of HIV testing by county. Among women, the percentage who have been tested for HIV in the past 12 months and received the results ranges from $15 \%$ in Sinoe to $30 \%$ in Bomi (Figure 13.6). Among men, this percentage is lowest in Grand Kru (6\%) and highest in Margibi (29\%) (Figure 13.7).

Figure 13.6 Recent HIV testing among women by county

Percentage of women age 15-49 who were tested for HIV in the year before the survey and received results

Figure 13.7 Recent HIV testing among men by county
Percentage of men age 15-49 who were tested for HIV in the year before the survey and received results


### 13.6.2 HIV Testing of Pregnant Women

Testing pregnant women for HIV is a key strategy in diagnosing the HIV status of women to provide them with access to ART and to prevent transmission of HIV to their babies. In Liberia, $56 \%$ of women who gave birth in the 2 years preceding the survey received HIV counseling during prenatal care, meaning that someone talked with them about all three of the following topics: (1) babies getting HIV from their mother, (2) preventing the virus, and (3) getting tested for HIV (Table 13.8). Thirty-five percent of women were tested for HIV during pregnancy and received the results and post-test counseling. An additional $25 \%$ were tested during prenatal care and received the results but did not receive post-test counseling. Thus, a total of $60 \%$ of women were tested during prenatal care and received the results. A few women who were not tested during prenatal care were tested during labor and received the results, and thus a total of $63 \%$ of women who gave birth in the 2 years before the survey were tested for HIV and received the results either during pregnancy or during labor.

Trends: The percentage of women who were tested for HIV and received the results during prenatal care or labor has changed only minimally over time ( $64 \%$ in 2013 versus $63 \%$ in 2019-20).

## Patterns by background characteristics

- Although there are slight variations by age in testing for HIV during prenatal care or labor, there is no clear pattern. Coverage of HIV testing during prenatal care or labor is lowest among women age 20-24 (58\%) and highest among women age 30-39 (68\%).
- By county, coverage of HIV testing during prenatal care or labor ranges from 50\% in Grand Kru to over $80 \%$ in River Cess and Grand Gedeh.
- Coverage of HIV testing during prenatal care or labor generally increases with increasing education and wealth. For example, the percentage of women who were tested for HIV and received the results during prenatal care or labor increases from $54 \%$ among those in the lowest wealth quintile to $71 \%$ among those in the highest wealth quintile.


### 13.6.3 HIV Self-testing

In order to increase uptake of HIV testing services, especially for populations with low access and those at higher risk that would otherwise not get tested, HIV self-testing has recently been introduced as an additional testing strategy. HIV self-testing is when a person collects his or her own specimen (oral fluid or blood), performs an HIV test, and interprets the result, often in a private setting, either alone or with someone he or she trusts (WHO 2016). However, if the result of the test is positive, further testing is required to confirm HIV positivity.

Table 13.9 shows the percentage of women and men age $15-49$ who have heard of HIV self-test kits and the percentage who have ever used them. Thirteen percent of men have heard of HIV self-test kits, as compared with $10 \%$ of women. Two percent of women and $1 \%$ of men reported using HIV self-test kits.

## Patterns by background characteristics

- Awareness of HIV self-testing differs between urban and rural areas among women but not men; $11 \%$ of women in urban areas have ever heard of HIV self-test kits, compared with $8 \%$ of women in rural areas.
- Knowledge of HIV self-testing kits generally increases with increasing education. Among women, knowledge increases from $6 \%$ among those with no education to $34 \%$ among those with a higher education. Among men, knowledge increases from $7 \%$ among those with no education to $22 \%$ among those with a higher education.


### 13.7 Self-reporting of Sexually Transmitted Infections

## Sexually transmitted infections (STIs) and symptoms

Respondents who have ever had sex are 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

STIs have been found to increase susceptibility to HIV infection (CDC 2014). Overall, $48 \%$ of women and $24 \%$ of men age 15-49 reported having had an STI or symptoms of an STI in the 12 months prior to the survey (Table 13.10). Fifty-six percent of women and $46 \%$ of men who had an STI or STI symptoms sought advice or treatment from a clinic, hospital, private doctor, or other health professional (Table 13.11). Roughly one-third of women and men with an STI or symptoms sought advice or medicine from a shop or pharmacy.

### 13.8 HIV/AIDS-related Knowledge and Behavior among Young People

This section addresses knowledge related to HIV or AIDS among young people age 15-24 and also assesses the extent to which young people are engaged in behaviors that may place them at risk of acquiring HIV.

### 13.8.1 Knowledge

Knowledge of how HIV is transmitted is crucial to 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 behaviors.

The percentage of young people age 15-24 with comprehensive knowledge about HIV is $32 \%$ among young women and $30 \%$ among young men (Table 13.12).

Figure 13.8 Trends in comprehensive HIV knowledge among youth
Percentage of young women and men age 15-24 who know how to prevent HIV transmission and reject local myths
Trends: Trends in comprehensive knowledge among young people age 15-24 mirror those among respondents age 15-49. The percentage of young women with comprehensive knowledge increased from $21 \%$ in 2007 to $36 \%$ in 2013 before decreasing to $32 \%$ in 2019-2020. Comprehensive knowledge among young men has changed little over time, increasing slightly from $28 \%$ in 2007 to $30 \%$ in 2019-20 (Figure 13.8).

### 13.8.2 First Sex



Young people who initiate sex at an early age are typically at higher risk of becoming pregnant or acquiring HIV or another STI than young people who initiate sex later. Consistent condom use can reduce such risks.

In Liberia, women tend to initiate sexual activity at younger ages than do men. As shown in Table 13.13, $21 \%$ of young women age $15-24$ had sexual intercourse by age 15 , as compared with $11 \%$ of their male counterparts. Eighty percent of young women and $60 \%$ of young men age 18-24 had sexual intercourse by age 18.

Trends: Among young women age 15-24, the percentage who initiated sexual intercourse before age 15 increased from $17 \%$ in 2007 to $23 \%$ in 2013 before decreasing slightly to $21 \%$ in 2019-20. Among young men age 15-24, $9 \%$ had sexual intercourse before age 15 in 2007 and 2013, as compared with $11 \%$ in 2019-20.

## Patterns by background characteristics

- Young women in rural areas are more likely than their urban counterparts to have sex before age 15 and age 18 . Conversely, young men in urban areas are more likely to have sex before age 15 and age 18 than those in rural areas.
- The percentage of young women age $15-24$ who had sexual intercourse by age 15 is $14 \%$ in Greater Monrovia, as compared with $22 \%$ in other urban areas. The trend is reversed among young men age 15-24, with $13 \%$ of those in Greater Monrovia having had sexual intercourse by age 15, compared with $10 \%$ of those in other urban areas.
- Among young women, there is a strong inverse relationship between level of education and likelihood of having had sex by age 15 or age 18 . For example, $34 \%$ of young women with no education had sexual intercourse by age 15 , as compared with just $7 \%$ of those with a higher education. Among young men, the pattern is largely reversed. Thirty-eight percent of young men with no education had sexual intercourse by age 18 , compared with $58 \%-69 \%$ of those with an elementary, junior high, or senior high education.


### 13.8.3 Premarital Sex

As shown in Table 13.14, one quarter of never-married women and $38 \%$ of never-married men age 15-24 have never had sexual intercourse. These percentages decrease markedly with age; for example, among young men who have never been married, the percentage who have never had sex decreases from $71 \%$ among those age $15-17$ to just $1 \%$ among those age 23-24.

### 13.8.4 Multiple Sexual Partners

As shown in Tables $\mathbf{1 3 . 1 5 . 1}$ and $\mathbf{1 3 . 1 5 . 2}, 8 \%$ of young women and $20 \%$ of young men age $15-24$ had two or more sexual partners in the 12 months preceding the survey. Among young people with two or more sexual partners in the past 12 months, $22 \%$ of young women and $31 \%$ of young men used a condom during their last sexual intercourse.

Just over half of young women (52\%) and 57\% of young men had sexual intercourse in the past 12 months with a partner who neither was their spouse nor lived with them. Among young people who had sex in the past 12 months with a partner who neither was their spouse nor lived with them, $17 \%$ of young women and $34 \%$ of young men used a condom the last time they had sex with such a partner.

Condom use at last sex with a nonmarital, noncohabiting partner is much higher among young people in urban areas than among those in rural areas. Among women who had sex with a nonmarital, noncohabiting partner in the past 12 months, $21 \%$ of those in urban areas used a condom the last time they had sex with such a partner, as compared with just $8 \%$ of those in rural areas. Among men, $41 \%$ of those in urban areas used a condom at last sex with a nonmarital, noncohabiting partner, compared with $17 \%$ of those in rural areas.

### 13.8.5 Coverage of HIV Testing Services

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.

Among young people age 15-24 who have had sexual intercourse in the past 12 months, $23 \%$ of young women and $12 \%$ of young men were tested for HIV in the 12 months preceding the survey and received the results of their last HIV test (Table 13.16).

Among young women, those who have ever been married are more likely than those who have never been married to have been tested for HIV in the past 12 months and to have received the results ( $29 \%$ versus $19 \%$ ). However, there are only minimal differences among young men ( $13 \%$ versus $12 \%$ ).

Trends: After large increases in the coverage of recent HIV testing among young people from 2007 to 2013, coverage has since stagnated. Among young women who had sex in the 12 months preceding the survey, the percentage who were tested for HIV in the past 12 months and received the results was $21 \%$ in 2013 and $23 \%$ in 2019-20. The corresponding percentages among young men are $10 \%$ and $12 \%$.

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

- Table 13.1 Knowledge of HIV prevention methods
- Table 13.2 Comprehensive knowledge about HIV
- Table 13.3 Knowledge of prevention of mother-to-child transmission of HIV
- Table 13.4 Discriminatory attitudes towards people living with HIV
- Table 13.5.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women
- Table 13.5.2 Multiple sexual partners and higher-risk sexual intercourse in the past $\mathbf{1 2}$ months: Men
- Table 13.6 Payment for sexual intercourse and condom use at last paid sexual intercourse
- Table 13.7.1 Coverage of prior HIV testing: Women
- Table 13.7.2 Coverage of prior HIV testing: Men
- Table 13.8 Pregnant women counseled and tested for HIV
- Table 13.9 Knowledge and coverage of self-testing for HIV
- Table 13.10 Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms
- Table 13.11 Women and men seeking treatment for STIs
- Table 13.12 Comprehensive knowledge about HIV among young people
- Table 13.13 Age at first sexual intercourse among young people
- Table 13.14 Premarital sexual intercourse among young people
- Table 13.15.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Women
- Table 13.15.2 Multiple sexual partners and higher-risk sexual intercourse in the past $\mathbf{1 2}$ months among young people: Men
- Table 13.16 Recent HIV tests among young people

Table 13.1 Knowledge of HIV prevention methods
Percentage of women and men age 15-49 who, in response to prompted questions, say that people can reduce the 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, by background characteristics, Liberia DHS 2019-20

| Background characteristic | Women |  |  |  | Men |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ | Using condoms and limiting sexual intercourse to one uninfected partner ${ }^{1,2}$ | Number of women | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ | Using condoms and limiting sexual intercourse to one uninfected partner ${ }^{1,2}$ | Number of men |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 69.9 | 73.6 | 63.0 | 3,163 | 77.0 | 78.6 | 69.9 | 1,533 |
| 15-19 | 64.2 | 68.0 | 57.0 | 1,657 | 68.0 | 69.8 | 58.8 | 876 |
| 20-24 | 76.2 | 79.8 | 69.7 | 1,506 | 88.8 | 90.4 | 84.8 | 658 |
| 25-29 | 75.6 | 81.6 | 69.6 | 1,375 | 86.9 | 89.9 | 82.0 | 558 |
| 30-39 | 76.7 | 83.5 | 70.9 | 2,132 | 86.7 | 91.0 | 82.3 | 981 |
| 40-49 | 68.8 | 81.3 | 64.0 | 1,395 | 85.6 | 88.8 | 81.1 | 748 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 73.3 | 78.4 | 67.1 | 5,023 | 87.5 | 90.7 | 83.5 | 2,313 |
| Greater Monrovia | 71.5 | 75.7 | 65.4 | 2,866 | 89.7 | 93.8 | 87.3 | 1,368 |
| Other urban | 75.6 | 82.0 | 69.4 | 2,157 | 84.3 | 86.3 | 77.9 | 944 |
| Rural | 71.2 | 79.8 | 65.2 | 3,042 | 75.0 | 77.4 | 67.2 | 1,508 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 65.9 | 77.4 | 59.0 | 621 | 73.8 | 69.9 | 63.1 | 301 |
| South Central | 72.6 | 76.3 | 66.0 | 4,105 | 86.4 | 90.6 | 83.1 | 1,932 |
| South Eastern A | 82.9 | 91.7 | 79.4 | 458 | 83.9 | 84.2 | 76.5 | 254 |
| South Eastern B | 75.5 | 83.7 | 69.1 | 441 | 82.3 | 81.8 | 75.4 | 226 |
| North Central | 71.6 | 80.4 | 66.1 | 2,439 | 78.1 | 81.6 | 70.8 | 1,107 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 66.8 | 78.2 | 57.6 | 249 | 81.5 | 79.2 | 76.1 | 118 |
| Bong | 73.5 | 81.1 | 67.7 | 796 | 77.4 | 76.0 | 66.8 | 324 |
| Gbarpolu | 66.7 | 82.1 | 61.8 | 112 | 74.5 | 82.2 | 70.0 | 53 |
| Grand Bassa | 79.2 | 77.5 | 69.3 | 467 | 78.4 | 78.5 | 69.3 | 197 |
| Grand Cape Mount | 64.8 | 74.6 | 59.2 | 260 | 66.6 | 56.5 | 48.6 | 130 |
| Grand Gedeh | 81.4 | 87.6 | 76.1 | 172 | 74.3 | 71.5 | 61.6 | 92 |
| Grand Kru | 68.1 | 74.0 | 62.1 | 136 | 80.4 | 82.3 | 74.0 | 67 |
| Lofa | 76.2 | 82.9 | 69.1 | 658 | 73.2 | 78.1 | 65.8 | 287 |
| Margibi | 69.3 | 73.0 | 62.6 | 441 | 78.3 | 85.0 | 74.6 | 209 |
| Maryland | 78.9 | 88.7 | 72.7 | 215 | 84.3 | 84.5 | 78.7 | 110 |
| Montserrado | 72.0 | 76.6 | 65.9 | 3,197 | 88.6 | 93.0 | 86.0 | 1,525 |
| Nimba | 66.9 | 78.1 | 62.7 | 985 | 81.3 | 87.2 | 76.4 | 496 |
| River Cess | 76.2 | 94.3 | 74.5 | 104 | 86.5 | 89.7 | 82.1 | 52 |
| River Gee | 78.8 | 86.3 | 71.1 | 91 | 80.6 | 75.4 | 70.1 | 50 |
| Sinoe | 88.2 | 94.1 | 85.3 | 182 | 90.6 | 92.2 | 86.4 | 110 |
| Education |  |  |  |  |  |  |  |  |
| No education | 64.7 | 74.7 | 58.5 | 2,474 | 68.9 | 74.0 | 62.1 | 498 |
| Elementary | 69.0 | 74.6 | 62.3 | 1,911 | 71.6 | 71.5 | 61.7 | 877 |
| Junior high | 76.3 | 82.0 | 68.8 | 1,445 | 82.8 | 86.9 | 77.4 | 738 |
| Senior high | 80.8 | 85.1 | 76.4 | 1,761 | 92.5 | 94.6 | 89.1 | 1,303 |
| Higher | 84.8 | 86.2 | 79.6 | 474 | 90.8 | 97.6 | 89.4 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 69.0 | 79.0 | 63.2 | 1,379 | 75.8 | 78.9 | 69.4 | 657 |
| Second | 70.2 | 78.2 | 63.8 | 1,431 | 77.3 | 78.1 | 68.9 | 663 |
| Middle | 73.9 | 81.2 | 68.9 | 1,517 | 78.1 | 82.8 | 70.8 | 743 |
| Fourth | 73.2 | 78.6 | 65.9 | 1,829 | 90.2 | 93.9 | 87.6 | 838 |
| Highest | 74.9 | 77.8 | 69.2 | 1,910 | 88.0 | 89.8 | 83.8 | 920 |
| Total 15-49 | 72.5 | 78.9 | 66.4 | 8,065 | 82.6 | 85.4 | 77.1 | 3,821 |
| 50-59 | na | na | na | na | 83.8 | 86.2 | 78.3 | 428 |
| Total 15-59 | na | na | na | na | 82.7 | 85.5 | 77.2 | 4,249 |

[^19]Table 13.2 Comprehensive knowledge about HIV
Percentage of women and men age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and percentage with comprehensive knowledge about HIV, according to age, Liberia DHS 2019-20

|  |  | Percentage of respondents who say that: |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |

${ }^{1}$ Two most common local misconceptions: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.
${ }^{2}$ Comprehensive knowledge 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 the two most common local misconceptions about transmission or prevention of HIV.

Table 13.3 Knowledge of prevention of mother-to-child transmission of HIV
Percentage of women and men age 15-49 who know that HIV can be transmitted from mother to child during pregnancy, during delivery, by breastfeeding, and by all three means, and percentage who know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs, according to age, Liberia DHS 2019-20

|  |  |  |  |  |  | Percentage who <br> know that the <br> risk of MTCT can <br> be reduced by <br> mother taking |
| :--- | :---: | :---: | :---: | :---: | :---: | ---: |

Table 13.4 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, Liberia DHS 2019-20

| Background characteristic | Women |  |  |  | Men |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with $\mathrm{HIV}^{1}$ | Number of respondents who have heard of HIV or AIDS | Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative | Percentage who would not buy fresh vegetables from a shopkeeper who has HIV | Percentage with discriminatory attitudes towards people living with $\mathrm{HIV}^{1}$ | Number of respondents who have heard of HIV or AIDS |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 54.3 | 63.4 | 70.5 | 2,932 | 57.1 | 61.3 | 73.3 | 1,424 |
| 15-19 | 55.0 | 66.6 | 73.8 | 1,497 | 60.1 | 68.3 | 77.7 | 784 |
| 20-24 | 53.6 | 60.1 | 67.1 | 1,435 | 53.5 | 52.7 | 67.8 | 640 |
| 25-29 | 54.5 | 62.3 | 69.9 | 1,312 | 48.1 | 54.5 | 61.8 | 545 |
| 30-39 | 50.7 | 60.3 | 68.0 | 2,046 | 44.0 | 45.2 | 55.0 | 966 |
| 40-49 | 51.0 | 58.9 | 67.2 | 1,332 | 43.7 | 51.5 | 60.3 | 737 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 49.8 | 60.8 | 67.2 | 2,946 | 54.9 | 59.4 | 70.1 | 1,574 |
| Ever had sex | 49.7 | 60.6 | 67.1 | 2,491 | 52.8 | 55.9 | 67.0 | 1,138 |
| Never had sex | 50.4 | 61.7 | 67.9 | 455 | 60.5 | 68.6 | 78.4 | 436 |
| Married or living together | 55.8 | 62.2 | 70.6 | 3,973 | 46.3 | 49.9 | 59.7 | 1,870 |
| Divorced/separated/ widowed | 48.5 | 61.8 | 69.1 | 702 | 40.9 | 51.6 | 59.3 | 228 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 48.5 | 59.9 | 66.6 | 4,776 | 42.4 | 49.2 | 58.4 | 2,264 |
| Greater Monrovia | 48.1 | 62.2 | 67.5 | 2,738 | 35.6 | 45.7 | 53.5 | 1,353 |
| Other urban | 48.9 | 56.7 | 65.5 | 2,038 | 52.3 | 54.2 | 65.8 | 911 |
| Rural | 60.1 | 64.5 | 73.4 | 2,846 | 61.4 | 62.0 | 73.4 | 1,408 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 55.0 | 53.4 | 64.9 | 573 | 51.4 | 53.6 | 65.2 | 265 |
| South Central | 48.5 | 61.2 | 67.3 | 3,898 | 40.2 | 46.3 | 56.3 | 1,897 |
| South Eastern A | 49.7 | 57.8 | 64.0 | 456 | 55.0 | 56.9 | 68.0 | 250 |
| South Eastern B | 51.9 | 59.5 | 66.2 | 430 | 60.3 | 58.4 | 70.8 | 212 |
| North Central | 60.4 | 65.6 | 75.1 | 2,266 | 62.8 | 66.6 | 75.9 | 1,048 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 58.0 | 52.4 | 65.9 | 239 | 29.3 | 36.1 | 44.0 | 104 |
| Bong | 60.9 | 70.1 | 76.0 | 758 | 58.9 | 58.0 | 72.5 | 299 |
| Gbarpolu | 68.5 | 71.1 | 78.4 | 108 | 52.8 | 58.5 | 64.9 | 47 |
| Grand Bassa | 61.4 | 65.4 | 73.1 | 444 | 58.7 | 57.1 | 70.1 | 192 |
| Grand Cape Mount | 45.2 | 45.9 | 57.2 | 226 | 70.9 | 67.7 | 84.6 | 114 |
| Grand Gedeh | 36.8 | 50.3 | 54.7 | 170 | 48.0 | 53.7 | 61.8 | 88 |
| Grand Kru | 71.7 | 83.0 | 87.4 | 128 | 65.5 | 61.6 | 73.7 | 62 |
| Lofa | 58.1 | 57.5 | 72.0 | 637 | 61.2 | 62.7 | 73.8 | 271 |
| Margibi | 48.3 | 54.5 | 65.8 | 395 | 51.8 | 53.1 | 69.3 | 202 |
| Maryland | 39.6 | 42.6 | 51.2 | 212 | 57.9 | 55.1 | 69.0 | 102 |
| Montserrado | 46.7 | 61.5 | 66.6 | 3,059 | 36.3 | 44.1 | 52.8 | 1,503 |
| Nimba | 61.8 | 67.6 | 76.5 | 870 | 66.1 | 74.3 | 79.3 | 478 |
| River Cess | 49.7 | 52.6 | 62.5 | 103 | 57.4 | 64.0 | 70.7 | 52 |
| River Gee | 52.6 | 65.8 | 71.3 | 90 | 58.3 | 61.3 | 70.6 | 47 |
| Sinoe | 61.9 | 67.6 | 73.5 | 182 | 59.6 | 56.2 | 71.7 | 109 |
| Education |  |  |  |  |  |  |  |  |
| No education | 60.1 | 66.2 | 74.8 | 2,236 | 69.7 | 72.0 | 83.6 | 443 |
| Elementary | 59.0 | 67.5 | 75.2 | 1,780 | 66.1 | 69.6 | 78.4 | 801 |
| Junior high | 57.6 | 63.7 | 72.1 | 1,403 | 58.5 | 61.5 | 74.0 | 723 |
| Senior high | 40.0 | 52.3 | 58.7 | 1,732 | 37.8 | 41.9 | 51.7 | 1,300 |
| Higher | 27.9 | 45.4 | 48.8 | 470 | 17.4 | 29.7 | 37.0 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 63.8 | 68.6 | 77.0 | 1,273 | 68.0 | 68.9 | 79.9 | 616 |
| Second | 63.0 | 67.9 | 76.8 | 1,320 | 58.9 | 63.1 | 73.9 | 616 |
| Middle | 54.9 | 58.0 | 67.5 | 1,422 | 57.6 | 58.0 | 71.3 | 707 |
| Fourth | 48.9 | 60.7 | 67.7 | 1,764 | 42.5 | 43.7 | 53.4 | 829 |
| Highest | 40.0 | 55.9 | 60.8 | 1,843 | 31.1 | 44.3 | 51.0 | 903 |
| Total 15-49 | 52.8 | 61.6 | 69.1 | 7,622 | 49.6 | 54.1 | 64.2 | 3,672 |
| 50-59 | na | na | na | na | 48.2 | 56.3 | 64.5 | 416 |
| Total 15-59 | na | na | na | na | 49.5 | 54.3 | 64.2 | 4,088 |

[^20]${ }^{1}$ 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 13.5.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women
Among all women age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among women who had sexual intercourse in the past 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; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | All women |  |  | Women who had 2+ partners in the past 12 months |  | Women who had intercourse in the past 12 months with a person who neither was their husband nor lived with them |  | Women who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 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 | Mean number of sexual partners in lifetime | Number of women |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 8.3 | 52.4 | 3,163 | 22.2 | 261 | 16.7 | 1,657 | 3.4 | 2,578 |
| 15-19 | 5.6 | 51.2 | 1,657 | 25.1 | 93 | 14.7 | 849 | 2.3 | 1,137 |
| 20-24 | 11.2 | 53.7 | 1,506 | 20.6 | 169 | 18.8 | 808 | 4.2 | 1,441 |
| 25-29 | 9.0 | 39.8 | 1,375 | 16.8 | 124 | 16.0 | 547 | 5.3 | 1,317 |
| 30-39 | 5.4 | 22.4 | 2,132 | 8.6 | 114 | 11.2 | 478 | 6.3 | 2,030 |
| 40-49 | 3.6 | 17.4 | 1,395 | 7.5 | 51 | 9.5 | 242 | 6.8 | 1,289 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 9.4 | 69.9 | 3,129 | 23.9 | 296 | 15.9 | 2,188 | 5.2 | 2,497 |
| Married or living together | 4.3 | 6.5 | 4,216 | 7.7 | 181 | 20.9 | 274 | 5.0 | 4,044 |
| Divorced/separated/ widowed | 10.2 | 64.1 | 721 | 10.7 | 74 | 7.6 | 462 | 6.1 | 672 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 8.1 | 41.8 | 5,023 | 20.1 | 405 | 17.2 | 2,099 | 5.7 | 4,420 |
| Greater Monrovia | 9.2 | 46.7 | 2,866 | 22.8 | 264 | 18.6 | 1,338 | 5.9 | 2,563 |
| Other urban | 6.5 | 35.3 | 2,157 | 15.1 | 141 | 14.8 | 762 | 5.3 | 1,857 |
| Rural | 4.8 | 27.1 | 3,042 | 7.5 | 145 | 9.6 | 825 | 4.4 | 2,793 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 6.6 | 28.1 | 621 | 8.2 | 41 | 12.9 | 175 | 3.6 | 568 |
| South Central | 8.5 | 42.8 | 4,105 | 19.0 | 351 | 16.6 | 1,756 | 5.1 | 3,646 |
| South Eastern A | 7.3 | 30.2 | 458 | 7.9 | 33 | 11.5 | 138 | 5.1 | 418 |
| South Eastern B | 6.2 | 38.0 | 441 | 19.9 | 27 | 14.0 | 168 | 4.0 | 419 |
| North Central | 4.0 | 28.2 | 2,439 | 14.8 | 97 | 12.7 | 687 | 5.9 | 2,162 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 8.5 | 32.4 | 249 | (8.7) | 21 | 14.2 | 81 | 3.1 | 225 |
| Bong | 5.9 | 31.6 | 796 | (20.6) | 47 | 16.5 | 252 | 3.3 | 732 |
| Gbarpolu | 4.0 | 23.6 | 112 |  | 5 | 7.9 | 26 | 3.9 | 106 |
| Grand Bassa | 8.7 | 31.9 | 467 | (1.8) | 41 | 8.7 | 149 | 3.8 | 416 |
| Grand Cape Mount | 5.9 | 25.9 | 260 | (9.8) | 15 | 13.3 | 67 | 3.9 | 237 |
| Grand Gedeh | 3.5 | 26.8 | 172 | * | 6 | 25.7 | 46 | 4.8 | 161 |
| Grand Kru | 2.8 | 35.1 | 136 | * | 4 | 7.7 | 48 | 4.1 | 128 |
| Lofa | 1.8 | 27.8 | 658 | * | 12 | 5.7 | 183 | 3.0 | 589 |
| Margibi | 5.7 | 36.4 | 441 | (0.0) | 25 | 5.6 | 161 | 3.0 | 381 |
| Maryland | 9.2 | 41.3 | 215 | 21.8 | 20 | 17.2 | 89 | 4.1 | 205 |
| Montserrado | 8.9 | 45.2 | 3,197 | 23.1 | 285 | 18.7 | 1,446 | 5.6 | 2,849 |
| Nimba | 3.9 | 25.7 | 985 | (12.2) | 38 | 13.9 | 253 | 10.3 | 841 |
| River Cess | 11.3 | 33.1 | 104 | (8.2) | 12 | 4.6 | 34 | 4.6 | 96 |
| River Gee | 4.3 | 34.4 | 91 | * | 4 | 14.3 | 31 | 3.6 | 86 |
| Sinoe | 8.5 | 31.7 | 182 | (3.3) | 16 | 4.3 | 58 | 5.8 | 161 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 4.1 | 19.2 | 2,474 | 7.4 | 102 | 7.0 | 476 | 4.7 | 2,310 |
| Elementary | 4.8 | 33.3 | 1,911 | 13.1 | 92 | 11.3 | 635 | 5.2 | 1,585 |
| Junior high | 7.6 | 46.5 | 1,445 | 6.9 | 110 | 12.0 | 671 | 5.0 | 1,272 |
| Senior high | 12.0 | 52.3 | 1,761 | 28.8 | 211 | 23.8 | 921 | 5.4 | 1,609 |
| Higher | 7.4 | 46.4 | 474 |  | 35 | 16.4 | 220 | 7.2 | 438 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 4.5 | 23.8 | 1,379 | 2.7 | 62 | 7.0 | 327 | 4.8 | 1,286 |
| Second | 4.7 | 28.8 | 1,431 | 5.2 | 68 | 10.2 | 412 | 5.6 | 1,302 |
| Middle | 6.2 | 35.9 | 1,517 | 15.8 | 94 | 9.7 | 545 | 4.6 | 1,317 |
| Fourth | 9.2 | 45.4 | 1,829 | 19.4 | 168 | 18.4 | 830 | 5.1 | 1,642 |
| Highest | 8.3 | 42.4 | 1,910 | 25.2 | 158 | 21.1 | 810 | 5.7 | 1,667 |
| Total | 6.8 | 36.3 | 8,065 | 16.8 | 550 | 15.1 | 2,924 | 5.2 | 7,213 |

[^21]Table 13.5.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Men
Among all men age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among men who had sexual intercourse in the past 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, Liberia DHS 2019-20

| Background characteristic | All men |  |  | Men who had 2+ partners in the past 12 months |  | Men who had intercourse in the past 12 months with a person who neither was their wife nor lived with them |  | Men who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the 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 | Mean number of sexual partners in lifetime | Number of men |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 20.2 | 56.9 | 1,533 | 31.0 | 309 | 34.3 | 872 | 7.3 | 984 |
| 15-19 | 9.4 | 40.4 | 876 | 30.1 | 82 | 33.1 | 354 | 4.9 | 387 |
| 20-24 | 34.5 | 78.7 | 658 | 31.4 | 227 | 35.1 | 518 | 8.9 | 597 |
| 25-29 | 36.3 | 69.3 | 558 | 23.5 | 203 | 29.9 | 387 | 13.4 | 489 |
| 30-39 | 23.5 | 39.1 | 981 | 14.4 | 231 | 27.8 | 384 | 18.0 | 839 |
| 40-49 | 22.6 | 30.8 | 748 | 7.0 | 169 | 26.5 | 230 | 21.3 | 642 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 19.5 | 64.5 | 1,684 | 31.9 | 329 | 33.5 | 1,086 | 8.6 | 1,120 |
| Married or living together | 26.9 | 30.8 | 1,906 | 11.1 | 512 | 28.1 | 587 | 17.8 | 1,629 |
| Divorced/separated/ widowed | 30.5 | 86.4 | 231 | 38.1 | 71 | 26.7 | 200 | 18.7 | 205 |
| Type of union |  |  |  |  |  |  |  |  |  |
| In polygynous union | 70.6 | 29.3 | 83 | 3.6 | 59 | (18.9) | 24 | 20.1 | 73 |
| In non-polygynous union | 24.9 | 30.9 | 1,823 | 12.1 | 454 | 28.5 | 563 | 17.7 | 1,556 |
| Not currently in union | 20.9 | 67.1 | 1,915 | 33.0 | 400 | 32.5 | 1,285 | 10.2 | 1,325 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 23.6 | 52.4 | 2,313 | 27.3 | 545 | 37.1 | 1,212 | 13.3 | 1,787 |
| Greater Monrovia | 21.5 | 48.6 | 1,368 | 27.0 | 295 | 39.4 | 665 | 11.9 | 1,054 |
| Other urban | 26.5 | 57.9 | 944 | 27.6 | 250 | 34.4 | 547 | 15.3 | 733 |
| Rural | 24.3 | 43.8 | 1,508 | 10.9 | 367 | 20.0 | 661 | 16.1 | 1,167 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 15.5 | 34.8 | 301 | 13.3 | 47 | 15.9 | 105 | 9.3 | 241 |
| South Central | 22.5 | 48.8 | 1,932 | 23.1 | 434 | 36.0 | 943 | 12.9 | 1,476 |
| South Eastern A | 35.3 | 56.1 | 254 | 16.9 | 90 | 26.3 | 143 | 22.4 | 198 |
| South Eastern B | 24.5 | 51.4 | 226 | 14.2 | 56 | 22.5 | 116 | 8.4 | 177 |
| North Central | 25.8 | 51.1 | 1,107 | 20.6 | 286 | 28.8 | 566 | 17.8 | 861 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 17.7 | 30.5 | 118 | (15.4) | 21 | (25.3) | 36 | 10.1 | 94 |
| Bong | 21.1 | 45.1 | 324 | 31.4 | 68 | 28.5 | 146 | 8.0 | 238 |
| Gbarpolu | 16.1 | 44.2 | 53 |  | 9 | 14.9 | 24 | 12.6 | 50 |
| Grand Bassa | 38.5 | 57.9 | 197 | 13.1 | 76 | 25.3 | 114 | 26.5 | 165 |
| Grand Cape Mount | 13.3 | 34.8 | 130 | * | 17 | 9.0 | 45 | 6.9 | 97 |
| Grand Gedeh | 42.1 | 60.6 | 92 | 21.4 | 39 | 36.7 | 56 | 18.3 | 83 |
| Grand Kru | 34.5 | 50.7 | 67 | 14.9 | 23 | 23.3 | 34 | 10.2 | 53 |
| Lofa | 17.4 | 38.2 | 287 | (6.5) | 50 | 22.8 | 110 | 14.2 | 231 |
| Margibi | 24.0 | 47.8 | 209 | 20.1 | 50 | 31.1 | 100 | 12.0 | 136 |
| Maryland | 13.9 | 50.0 | 110 | (9.8) | 15 | 21.9 | 55 | 7.4 | 91 |
| Montserrado | 20.2 | 47.8 | 1,525 | 26.1 | 308 | 38.3 | 729 | 11.0 | 1,175 |
| Nimba | 33.9 | 62.6 | 496 | 20.4 | 168 | 31.0 | 310 | 26.0 | 392 |
| River Cess | 21.6 | 48.1 | 52 | (5.0) | 11 | 12.2 | 25 | 8.4 | 39 |
| River Gee | 34.6 | 55.2 | 50 | 17.2 | 17 | 22.8 | 27 | 8.1 | 33 |
| Sinoe | 36.0 | 56.2 | 110 | 15.8 | 40 | 22.5 | 62 | 34.0 | 76 |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 17.9 | 32.5 | 498 | 15.4 | 89 | 28.7 | 162 | 15.2 | 404 |
| Elementary | 19.5 | 40.1 | 877 | 13.4 | 171 | 18.0 | 352 | 14.3 | 550 |
| Junior high | 25.4 | 54.5 | 738 | 19.5 | 188 | 26.6 | 402 | 11.7 | 549 |
| Senior high | 27.3 | 56.3 | 1,303 | 25.2 | 356 | 37.8 | 733 | 15.2 | 1,103 |
| Higher | 26.8 | 55.4 | 405 | 23.7 | 108 | 39.5 | 224 | 15.4 | 347 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 23.6 | 44.3 | 657 | 9.3 | 155 | 18.3 | 291 | 16.2 | 534 |
| Second | 26.5 | 48.2 | 663 | 14.1 | 176 | 25.2 | 319 | 19.0 | 515 |
| Middle | 26.7 | 53.7 | 743 | 24.7 | 198 | 28.8 | 399 | 12.4 | 555 |
| Fourth | 26.3 | 50.7 | 838 | 27.3 | 220 | 35.7 | 425 | 11.7 | 653 |
| Highest | 17.6 | 47.6 | 920 | 24.8 | 162 | 41.6 | 438 | 13.8 | 697 |
| Total 15-49 | 23.9 | 49.0 | 3,821 | 20.7 | 912 | 31.1 | 1,873 | 14.4 | 2,954 |
| 50-59 | 24.4 | 27.1 | 428 | 16.8 | 104 | 21.5 | 116 | 25.9 | 329 |
| Total 15-59 | 23.9 | 46.8 | 4,249 | 20.3 | 1,016 | 30.5 | 1,989 | 15.6 | 3,283 |

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 13.6 Payment for sexual intercourse and condom use at last paid sexual intercourse
Percentage of men age 15-49 who ever paid for sexual intercourse and percentage reporting payment for sexual intercourse in the past 12 months, and among them, percentage reporting that a condom was used the last time they paid for sexual intercourse, according to age, Liberia DHS 2019-20

| Age | Among all men: |  |  | Among men who paid for sex in the past 12 months: |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who ever paid for sexual intercourse | Percentage who paid for sexual intercourse in the past 12 months | Number of men | Percentage reporting condom use at last paid sexual intercourse | Number of men |
| 15-24 | 8.8 | 5.7 | 1,533 | 67.1 | 87 |
| 15-19 | 5.5 | 3.8 | 876 | (67.3) | 34 |
| 20-24 | 13.2 | 8.1 | 658 | (67.0) | 53 |
| 25-29 | 14.5 | 8.1 | 558 | (72.4) | 45 |
| 30-39 | 10.5 | 2.6 | 981 | (69.5) | 26 |
| 40-49 | 8.8 | 2.5 | 748 | * | 19 |
| Total 15-49 | 10.1 | 4.6 | 3,821 | 67.1 | 177 |
| 50-59 | 6.3 | 1.1 | 428 | * | 5 |
| Total 15-59 | 9.7 | 4.3 | 4,249 | 66.8 | 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.

Table 13.7.1 Coverage of prior HIV testing: Women
Percentage of women age 15-49 who know where to get an HIV test, percent distribution of women by 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 past 12 months and received the results of the last test, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage who know where to get an HIV test | Percent distribution of women by testing status and by whether they received the results of the last test |  |  | Total | Percentage ever tested | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 61.3 | 35.8 | 4.1 | 60.1 | 100.0 | 39.9 | 19.4 | 3,163 |
| 15-19 | 48.1 | 23.2 | 2.0 | 74.8 | 100.0 | 25.2 | 14.5 | 1,657 |
| 20-24 | 75.7 | 49.7 | 6.4 | 43.9 | 100.0 | 56.1 | 24.8 | 1,506 |
| 25-29 | 80.9 | 65.0 | 4.6 | 30.4 | 100.0 | 69.6 | 30.8 | 1,375 |
| 30-39 | 82.4 | 63.6 | 4.5 | 31.9 | 100.0 | 68.1 | 23.8 | 2,132 |
| 40-49 | 73.9 | 48.1 | 4.3 | 47.6 | 100.0 | 52.4 | 16.7 | 1,395 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 63.4 | 39.2 | 2.9 | 57.9 | 100.0 | 42.1 | 19.4 | 3,129 |
| Ever had sex | 71.0 | 46.7 | 3.5 | 49.8 | 100.0 | 50.2 | 22.9 | 2,578 |
| Never had sex | 27.9 | 4.0 | 0.0 | 96.0 | 100.0 | 4.0 | 3.1 | 551 |
| Married or living together | 77.7 | 57.2 | 5.0 | 37.8 | 100.0 | 62.2 | 23.6 | 4,216 |
| Divorced/separated/ widowed | 80.0 | 57.9 | 6.7 | 35.4 | 100.0 | 64.6 | 24.1 | 721 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 73.0 | 52.8 | 4.2 | 43.1 | 100.0 | 56.9 | 23.2 | 5,023 |
| Greater Monrovia | 70.5 | 53.0 | 3.9 | 43.1 | 100.0 | 56.9 | 21.5 | 2,866 |
| Other urban | 76.4 | 52.5 | 4.5 | 43.0 | 100.0 | 57.0 | 25.4 | 2,157 |
| Rural | 71.3 | 46.2 | 4.6 | 49.2 | 100.0 | 50.8 | 20.2 | 3,042 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 73.8 | 50.7 | 3.2 | 46.2 | 100.0 | 53.8 | 24.3 | 621 |
| South Central | 70.7 | 51.3 | 4.1 | 44.6 | 100.0 | 55.4 | 21.2 | 4,105 |
| South Eastern A | 82.5 | 56.1 | 2.4 | 41.5 | 100.0 | 58.5 | 20.4 | 458 |
| South Eastern B | 81.2 | 50.8 | 2.4 | 46.7 | 100.0 | 53.3 | 21.1 | 441 |
| North Central | 71.4 | 47.3 | 5.7 | 47.0 | 100.0 | 53.0 | 23.3 | 2,439 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 78.0 | 50.8 | 3.9 | 45.3 | 100.0 | 54.7 | 30.1 | 249 |
| Bong | 76.3 | 49.6 | 6.6 | 43.9 | 100.0 | 56.1 | 24.5 | 796 |
| Gbarpolu | 67.6 | 41.8 | 5.9 | 52.3 | 100.0 | 47.7 | 16.6 | 112 |
| Grand Bassa | 67.5 | 47.6 | 2.8 | 49.6 | 100.0 | 50.4 | 20.0 | 467 |
| Grand Cape Mount | 72.5 | 54.3 | 1.3 | 44.4 | 100.0 | 55.6 | 22.2 | 260 |
| Grand Gedeh | 82.2 | 63.1 | 2.5 | 34.3 | 100.0 | 65.7 | 26.6 | 172 |
| Grand Kru | 68.5 | 35.9 | 3.2 | 60.9 | 100.0 | 39.1 | 18.8 | 136 |
| Lofa | 69.5 | 42.3 | 5.1 | 52.5 | 100.0 | 47.5 | 18.9 | 658 |
| Margibi | 69.1 | 45.8 | 3.4 | 50.8 | 100.0 | 49.2 | 23.1 | 441 |
| Maryland | 87.6 | 58.2 | 0.6 | 41.2 | 100.0 | 58.8 | 22.4 | 215 |
| Montserrado | 71.3 | 52.5 | 4.4 | 43.1 | 100.0 | 56.9 | 21.1 | 3,197 |
| Nimba | 68.6 | 48.9 | 5.4 | 45.8 | 100.0 | 54.2 | 25.1 | 985 |
| River Cess | 88.4 | 59.1 | 2.7 | 38.2 | 100.0 | 61.8 | 20.2 | 104 |
| River Gee | 85.3 | 55.8 | 5.6 | 38.5 | 100.0 | 61.5 | 21.5 | 91 |
| Sinoe | 79.5 | 47.7 | 2.2 | 50.2 | 100.0 | 49.8 | 14.6 | 182 |
| Education |  |  |  |  |  |  |  |  |
| No education | 67.5 | 45.9 | 5.0 | 49.1 | 100.0 | 50.9 | 18.7 | 2,474 |
| Elementary | 67.7 | 44.7 | 4.0 | 51.3 | 100.0 | 48.7 | 20.5 | 1,911 |
| Junior high | 68.8 | 46.8 | 4.0 | 49.1 | 100.0 | 50.9 | 21.1 | 1,445 |
| Senior high | 81.9 | 58.7 | 4.3 | 36.9 | 100.0 | 63.1 | 24.8 | 1,761 |
| Higher | 92.5 | 74.7 | 3.2 | 22.1 | 100.0 | 77.9 | 38.2 | 474 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 68.7 | 43.4 | 4.5 | 52.1 | 100.0 | 47.9 | 20.0 | 1,379 |
| Second | 70.8 | 46.0 | 5.2 | 48.8 | 100.0 | 51.2 | 21.0 | 1,431 |
| Middle | 72.3 | 49.6 | 4.5 | 45.9 | 100.0 | 54.1 | 23.3 | 1,517 |
| Fourth | 74.4 | 55.1 | 4.1 | 40.9 | 100.0 | 59.1 | 21.3 | 1,829 |
| Highest | 74.3 | 54.4 | 3.6 | 41.9 | 100.0 | 58.1 | 24.0 | 1,910 |
| Total | 72.4 | 50.3 | 4.3 | 45.4 | 100.0 | 54.6 | 22.0 | 8,065 |

[^22]Table 13.7.2 Coverage of prior HIV testing: Men
Percentage of men age 15-49 who know where to get an HIV test, percent distribution of men by testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men age 15-49 who were tested in the past 12 months and received the results of the last test, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage who know where to get an HIV test | Percent distribution of men by testing status and by whether they received the results of the last test |  |  | Total | $\begin{gathered} \text { Percentage ever } \\ \text { tested } \end{gathered}$ | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | $\begin{gathered} \text { Number of } \\ \text { men } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 52.2 | 14.3 | 1.5 | 84.2 | 100.0 | 15.8 | 10.8 | 1,533 |
| 15-19 | 42.6 | 10.5 | 1.0 | 88.5 | 100.0 | 11.5 | 8.2 | 876 |
| 20-24 | 65.1 | 19.4 | 2.2 | 78.4 | 100.0 | 21.6 | 14.2 | 658 |
| 25-29 | 71.7 | 40.3 | 1.7 | 58.0 | 100.0 | 42.0 | 28.4 | 558 |
| 30-39 | 76.1 | 45.6 | 1.2 | 53.2 | 100.0 | 46.8 | 27.9 | 981 |
| 40-49 | 73.5 | 44.7 | 2.1 | 53.2 | 100.0 | 46.8 | 28.2 | 748 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 55.5 | 18.5 | 1.4 | 80.1 | 100.0 | 19.9 | 13.5 | 1,684 |
| Ever had sex | 64.4 | 22.9 | 1.6 | 75.5 | 100.0 | 24.5 | 16.0 | 1,164 |
| Never had sex | 35.6 | 8.8 | 0.9 | 90.3 | 100.0 | 9.7 | 8.0 | 520 |
| Married or living together | 74.0 | 43.6 | 1.9 | 54.5 | 100.0 | 45.5 | 27.4 | 1,906 |
| Divorced/separated/ widowed | 65.7 | 35.7 | 1.1 | 63.3 | 100.0 | 36.7 | 25.1 | 231 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 67.9 | 33.5 | 1.3 | 65.2 | 100.0 | 34.8 | 22.6 | 2,313 |
| Greater Monrovia | 63.7 | 34.8 | 1.0 | 64.1 | 100.0 | 35.9 | 23.4 | 1,368 |
| Other urban | 74.1 | 31.6 | 1.6 | 66.8 | 100.0 | 33.2 | 21.6 | 944 |
| Rural | 61.4 | 29.9 | 2.1 | 68.0 | 100.0 | 32.0 | 18.9 | 1,508 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 53.8 | 26.4 | 2.0 | 71.7 | 100.0 | 28.3 | 17.3 | 301 |
| South Central | 66.0 | 34.7 | 1.3 | 64.0 | 100.0 | 36.0 | 22.9 | 1,932 |
| South Eastern A | 73.0 | 34.3 | 4.8 | 60.9 | 100.0 | 39.1 | 17.0 | 254 |
| South Eastern B | 60.1 | 17.0 | 0.9 | 82.1 | 100.0 | 17.9 | 8.6 | 226 |
| North Central | 66.7 | 31.6 | 1.5 | 66.9 | 100.0 | 33.1 | 22.7 | 1,107 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 55.8 | 30.0 | 2.5 | 67.5 | 100.0 | 32.5 | 18.2 | 118 |
| Bong | 60.2 | 26.7 | 1.5 | 71.7 | 100.0 | 28.3 | 20.6 | 324 |
| Gbarpolu | 55.6 | 38.3 | 2.0 | 59.7 | 100.0 | 40.3 | 28.1 | 53 |
| Grand Bassa | 64.6 | 31.5 | 2.0 | 66.4 | 100.0 | 33.6 | 19.4 | 197 |
| Grand Cape Mount | 51.2 | 18.1 | 1.5 | 80.4 | 100.0 | 19.6 | 12.0 | 130 |
| Grand Gedeh | 66.3 | 37.7 | 4.0 | 58.3 | 100.0 | 41.7 | 25.3 | 92 |
| Grand Kru | 44.5 | 18.8 | 1.9 | 79.2 | 100.0 | 20.8 | 5.6 | 67 |
| Lofa | 57.6 | 34.1 | 0.8 | 65.1 | 100.0 | 34.9 | 25.4 | 287 |
| Margibi | 78.4 | 36.2 | 2.1 | 61.6 | 100.0 | 38.4 | 28.5 | 209 |
| Maryland | 66.2 | 11.8 | 0.0 | 88.2 | 100.0 | 11.8 | 6.5 | 110 |
| Montserrado | 64.4 | 34.9 | 1.0 | 64.0 | 100.0 | 36.0 | 22.6 | 1,525 |
| Nimba | 76.3 | 33.3 | 1.8 | 64.9 | 100.0 | 35.1 | 22.4 | 496 |
| River Cess | 82.7 | 35.2 | 0.9 | 64.0 | 100.0 | 36.0 | 11.8 | 52 |
| River Gee | 67.7 | 26.1 | 1.7 | 72.2 | 100.0 | 27.8 | 17.3 | 50 |
| Sinoe | 74.1 | 31.1 | 7.2 | 61.6 | 100.0 | 38.4 | 12.6 | 110 |
| Education |  |  |  |  |  |  |  |  |
| No education | 51.9 | 23.2 | 1.6 | 75.3 | 100.0 | 24.7 | 14.7 | 498 |
| Elementary | 46.8 | 18.7 | 1.7 | 79.6 | 100.0 | 20.4 | 13.3 | 877 |
| Junior high | 61.8 | 21.2 | 1.5 | 77.3 | 100.0 | 22.7 | 13.7 | 738 |
| Senior high | 76.6 | 42.0 | 1.6 | 56.5 | 100.0 | 43.5 | 27.5 | 1,303 |
| Higher | 92.4 | 59.9 | 1.7 | 38.4 | 100.0 | 61.6 | 39.4 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 58.9 | 24.8 | 1.8 | 73.4 | 100.0 | 26.6 | 15.9 | 657 |
| Second | 61.1 | 30.5 | 2.5 | 67.0 | 100.0 | 33.0 | 18.9 | 663 |
| Middle | 65.9 | 27.8 | 1.6 | 70.6 | 100.0 | 29.4 | 18.6 | 743 |
| Fourth | 67.7 | 34.9 | 1.3 | 63.8 | 100.0 | 36.2 | 23.5 | 838 |
| Highest | 70.5 | 39.3 | 1.0 | 59.7 | 100.0 | 40.3 | 26.5 | 920 |
| Total 15-49 | 65.3 | 32.1 | 1.6 | 66.3 | 100.0 | 33.7 | 21.2 | 3,821 |
| 50-59 | 73.1 | 39.8 | 3.1 | 57.1 | 100.0 | 42.9 | 21.5 | 428 |
| Total 15-59 | 66.1 | 32.9 | 1.7 | 65.4 | 100.0 | 34.6 | 21.2 | 4,249 |

[^23]Table 13.8 Pregnant women counseled and tested for HIV
Among all women age 15-49 who gave birth in the 2 years preceding the survey, percentage who received counseling on HIV during prenatal care, percentage who received an HIV test during prenatal care for their most recent birth by whether they received their results and post-test counseling, and percentage who received an HIV test during prenatal care or labor for their most recent birth by whether they received their test results, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage who received counseling on HIV during prenatal care ${ }^{1}$ | Percentage who were tested for HIV during prenatal care and who: |  |  | Percentage who received counseling on HIV and an HIV test during prenatal care, and the results | Percentage who had an HIV test during prenatal care or labor and who: ${ }^{2}$ |  | Number of women who gave birth in the past 2 years ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Received | results and |  |  |  |  |  |
|  |  | Received posttest counseling | Did not receive post-test counseling | Did not receive results |  | Received results | Did not receive results |  |
| Age |  |  |  |  |  |  |  |  |
| 15-24 | 50.9 | 32.2 | 23.7 | 7.4 | 40.2 | 58.7 | 7.2 | 891 |
| 15-19 | 46.5 | 33.8 | 22.2 | 5.4 | 35.9 | 59.8 | 4.5 | 316 |
| 20-24 | 53.3 | 31.4 | 24.5 | 8.5 | 42.6 | 58.1 | 8.6 | 575 |
| 25-29 | 58.3 | 37.1 | 25.0 | 8.4 | 49.1 | 66.3 | 5.3 | 506 |
| 30-39 | 60.6 | 37.9 | 28.0 | 5.9 | 49.1 | 67.5 | 5.4 | 558 |
| 40-49 | 54.4 | 31.7 | 22.3 | 12.6 | 39.8 | 61.9 | 6.4 | 141 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 54.0 | 30.9 | 34.0 | 4.6 | 44.8 | 67.5 | 3.9 | 601 |
| Married or living together | 56.7 | 36.5 | 22.0 | 8.4 | 45.4 | 61.9 | 6.5 | 1,355 |
| Divorced/separated/ widowed | 50.0 | 35.7 | 16.0 | 12.3 | 37.6 | 56.3 | 13.1 | 139 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 55.0 | 31.7 | 31.6 | 8.5 | 45.7 | 66.3 | 7.4 | 1,129 |
| Greater Monrovia | 56.4 | 17.2 | 45.5 | 10.3 | 45.7 | 66.9 | 8.1 | 574 |
| Other urban | 53.6 | 46.7 | 17.3 | 6.7 | 45.8 | 65.8 | 6.6 | 555 |
| Rural | 56.1 | 38.6 | 17.4 | 6.5 | 43.5 | 59.4 | 4.8 | 967 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 58.6 | 41.4 | 21.7 | 2.3 | 51.1 | 64.3 | 2.7 | 184 |
| South Central | 55.5 | 27.4 | 34.5 | 8.6 | 45.1 | 65.2 | 6.9 | 926 |
| South Eastern A | 69.3 | 57.9 | 18.3 | 2.0 | 62.3 | 77.0 | 1.2 | 140 |
| South Eastern B | 64.1 | 49.8 | 11.1 | 5.0 | 54.2 | 62.8 | 3.9 | 112 |
| North Central | 50.9 | 36.0 | 17.4 | 9.1 | 37.8 | 57.6 | 7.4 | 733 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 57.9 | 32.1 | 31.3 | 3.3 | 46.9 | 65.7 | 4.3 | 58 |
| Bong | 56.8 | 42.4 | 12.6 | 5.6 | 41.9 | 57.2 | 6.6 | 231 |
| Gbarpolu | 59.9 | 40.6 | 14.8 | 3.6 | 46.5 | 55.9 | 3.6 | 37 |
| Grand Bassa | 62.7 | 52.7 | 3.0 | 5.1 | 45.9 | 57.9 | 3.7 | 151 |
| Grand Cape Mount | 58.5 | 47.9 | 18.1 | 1.1 | 55.6 | 66.9 | 1.4 | 90 |
| Grand Gedeh | 69.9 | 54.8 | 28.3 | 2.7 | 61.8 | 85.2 | 0.6 | 53 |
| Grand Kru | 56.1 | 34.4 | 13.6 | 5.6 | 43.8 | 49.6 | 4.0 | 43 |
| Lofa | 58.6 | 33.4 | 27.1 | 14.2 | 45.5 | 68.6 | 7.5 | 172 |
| Margibi | 56.5 | 42.3 | 20.2 | 4.6 | 50.7 | 65.0 | 4.1 | 119 |
| Maryland | 63.4 | 60.6 | 6.7 | 1.3 | 59.6 | 68.1 | 1.3 | 48 |
| Montserrado | 53.6 | 18.9 | 44.3 | 10.1 | 43.9 | 66.9 | 8.2 | 656 |
| Nimba | 42.7 | 32.8 | 15.8 | 8.9 | 30.9 | 52.2 | 7.9 | 330 |
| River Cess | 84.3 | 71.4 | 10.4 | 1.7 | 76.1 | 81.7 | 1.7 | 32 |
| River Gee | 81.0 | 56.1 | 15.7 | 11.8 | 62.5 | 76.8 | 9.3 | 22 |
| Sinoe | 59.9 | 53.2 | 13.1 | 1.5 | 54.8 | 66.3 | 1.5 | 55 |
| Education |  |  |  |  |  |  |  |  |
| No education | 50.3 | 32.7 | 20.4 | 6.1 | 40.7 | 55.6 | 5.0 | 683 |
| Elementary | 55.5 | 39.0 | 18.1 | 7.5 | 42.9 | 59.4 | 7.5 | 565 |
| Junior high | 51.4 | 34.5 | 29.2 | 5.8 | 44.1 | 68.8 | 4.3 | 381 |
| Senior high | 68.8 | 35.1 | 33.7 | 12.4 | 55.0 | 73.3 | 8.2 | 388 |
| Higher | (54.9) | (25.0) | (53.2) | (6.6) | (44.5) | (78.2) | (6.6) | 78 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 50.5 | 36.6 | 13.6 | 6.4 | 36.9 | 53.6 | 5.6 | 507 |
| Second | 54.1 | 36.0 | 17.4 | 8.8 | 41.0 | 57.0 | 6.8 | 444 |
| Middle | 57.4 | 42.8 | 24.8 | 4.5 | 51.6 | 69.5 | 4.1 | 394 |
| Fourth | 55.6 | 29.9 | 35.6 | 8.7 | 45.6 | 68.5 | 7.7 | 411 |
| Highest | 62.4 | 27.8 | 39.7 | 10.1 | 52.2 | 71.3 | 7.0 | 340 |
| Total | 55.5 | 34.9 | 25.1 | 7.6 | 44.7 | 63.1 | 6.2 | 2,096 |

[^24]Table 13.9 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, Liberia DHS 2019-20

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of women | Ever heard of HIV self-test kits | Ever used an HIV self-test kit | Number of men |
| Residence |  |  |  |  |  |  |
| Urban | 11.4 | 1.7 | 5,023 | 12.8 | 1.1 | 2,313 |
| Greater Monrovia | 11.4 | 1.9 | 2,866 | 11.0 | 0.7 | 1,368 |
| Other urban | 11.4 | 1.5 | 2,157 | 15.4 | 1.6 | 944 |
| Rural | 7.9 | 1.1 | 3,042 | 12.7 | 1.2 | 1,508 |
| Education |  |  |  |  |  |  |
| No education | 5.7 | 0.8 | 2,474 | 7.0 | 1.1 | 498 |
| Elementary | 8.7 | 1.1 | 1,911 | 7.8 | 0.7 | 877 |
| Junior high | 8.2 | 0.9 | 1,445 | 12.7 | 0.3 | 738 |
| Senior high | 12.9 | 1.5 | 1,761 | 15.6 | 1.5 | 1,303 |
| Higher | 33.6 | 8.7 | 474 | 21.6 | 2.9 | 405 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 6.6 | 0.5 | 1,379 | 10.8 | 0.8 | 657 |
| Second | 8.2 | 1.5 | 1,431 | 10.8 | 1.0 | 663 |
| Middle | 10.2 | 1.0 | 1,517 | 12.4 | 1.5 | 743 |
| Fourth | 9.0 | 1.1 | 1,829 | 14.8 | 0.8 | 838 |
| Highest | 14.9 | 3.1 | 1,910 | 14.0 | 1.6 | 920 |
| Total 15-49 | 10.1 | 1.5 | 8,065 | 12.8 | 1.1 | 3,821 |
| 50-59 | na | na | na | 14.1 | 2.1 | 428 |
| Total 15-59 | na | na | na | 12.9 | 1.2 | 4,249 |

na $=$ Not applicable

Table 13.10 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 past 12 months, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of women who reported having in the past 12 months: |  |  |  |  | Percentage of men who reported having in the past 12 months: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STI | Badsmelling/ abnormal genital discharge | Genital sore or ulcer | STI/genital discharge/ sore or ulcer | Number of women who ever had sexual intercourse | STI | Badsmelling/ abnormal discharge from penis | Genital sore or ulcer | STI/ abnormal discharge from penis/ sore or ulcer | Number of men who ever had sexual intercourse |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 33.7 | 42.0 | 33.3 | 51.2 | 2,616 | 19.8 | 19.1 | 15.1 | 29.8 | 1,020 |
| 15-19 | 30.1 | 39.5 | 29.4 | 47.8 | 1,145 | 15.4 | 14.7 | 14.3 | 24.4 | 396 |
| 20-24 | 36.4 | 44.0 | 36.3 | 53.7 | 1,472 | 22.7 | 21.9 | 15.6 | 33.3 | 625 |
| 25-29 | 38.1 | 41.5 | 33.3 | 51.1 | 1,373 | 23.0 | 23.2 | 14.6 | 29.4 | 553 |
| 30-39 | 35.1 | 42.1 | 29.0 | 49.8 | 2,130 | 15.6 | 11.4 | 9.6 | 20.7 | 980 |
| 40-49 | 24.4 | 28.9 | 21.4 | 36.1 | 1,395 | 10.3 | 7.5 | 5.4 | 14.6 | 747 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 34.8 | 41.3 | 33.5 | 49.8 | 2,578 | 17.5 | 16.9 | 12.0 | 25.9 | 1,164 |
| Married or living together | 32.7 | 38.9 | 27.9 | 47.3 | 4,216 | 17.1 | 13.3 | 10.8 | 22.1 | 1,906 |
| Divorced/separated/ widowed | 30.1 | 36.5 | 28.2 | 45.4 | 721 | 12.8 | 18.0 | 10.4 | 23.8 | 231 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 36.9 | 42.3 | 33.3 | 51.6 | 4,637 | 19.7 | 16.8 | 12.7 | 27.3 | 1,999 |
| Greater Monrovia | 41.7 | 45.0 | 35.5 | 54.1 | 2,653 | 19.5 | 18.5 | 12.0 | 28.3 | 1,177 |
| Other urban | 30.5 | 38.7 | 30.2 | 48.4 | 1,984 | 20.0 | 14.5 | 13.6 | 25.8 | 822 |
| Rural | 27.1 | 35.0 | 24.3 | 42.0 | 2,878 | 12.7 | 11.9 | 8.9 | 17.9 | 1,302 |
| Region |  |  |  |  |  |  |  |  |  |  |
| North Western | 26.9 | 38.5 | 20.5 | 42.1 | 578 | 8.4 | 8.1 | 6.4 | 11.4 | 246 |
| South Central | 37.7 | 41.2 | 32.3 | 50.5 | 3,778 | 18.6 | 16.4 | 11.6 | 26.4 | 1,665 |
| South Eastern A | 34.5 | 39.4 | 32.0 | 46.1 | 438 | 19.9 | 16.4 | 14.2 | 25.7 | 228 |
| South Eastern B | 31.6 | 38.6 | 21.3 | 49.4 | 419 | 8.8 | 11.6 | 8.2 | 17.5 | 190 |
| North Central | 27.3 | 37.1 | 29.3 | 45.3 | 2,300 | 17.3 | 14.2 | 11.5 | 22.6 | 971 |
| County |  |  |  |  |  |  |  |  |  |  |
| Bomi | 22.9 | 30.8 | 17.7 | 35.3 | 230 | 6.1 | 3.9 | 3.3 | 6.8 | 94 |
| Bong | 30.2 | 35.9 | 30.5 | 42.4 | 747 | 19.4 | 13.6 | 11.1 | 24.5 | 285 |
| Gbarpolu | 37.5 | 42.2 | 33.3 | 45.4 | 108 | 12.3 | 13.6 | 8.4 | 16.9 | 50 |
| Grand Bassa | 29.8 | 33.4 | 30.8 | 43.6 | 432 | 15.6 | 10.4 | 13.5 | 24.3 | 176 |
| Grand Cape Mount | 26.0 | 44.2 | 17.3 | 47.0 | 241 | 8.5 | 9.4 | 8.2 | 12.9 | 102 |
| Grand Gedeh | 42.6 | 41.6 | 34.4 | 49.5 | 166 | 28.4 | 22.2 | 17.8 | 34.7 | 84 |
| Grand Kru | 45.4 | 44.3 | 20.5 | 55.3 | 128 | 7.5 | 12.8 | 11.1 | 20.8 | 57 |
| Lofa | 24.5 | 30.9 | 21.8 | 38.3 | 607 | 7.9 | 8.8 | 7.2 | 12.0 | 242 |
| Margibi | 20.8 | 27.7 | 24.6 | 39.2 | 405 | 21.3 | 13.6 | 12.7 | 25.9 | 174 |
| Maryland | 25.6 | 36.7 | 19.8 | 48.5 | 205 | 7.1 | 9.6 | 5.8 | 12.6 | 91 |
| Montserrado | 41.1 | 44.2 | 33.6 | 53.1 | 2,942 | 18.6 | 17.6 | 11.3 | 26.7 | 1,314 |
| Nimba | 26.9 | 42.0 | 33.2 | 52.0 | 946 | 21.0 | 17.6 | 14.1 | 27.1 | 444 |
| River Cess | 31.8 | 41.3 | 28.9 | 45.6 | 99 | 12.7 | 9.1 | 7.5 | 17.1 | 44 |
| River Gee | 25.2 | 34.7 | 26.0 | 42.9 | 87 | 14.4 | 14.3 | 9.4 | 23.7 | 42 |
| Sinoe | 28.2 | 36.2 | 31.4 | 43.1 | 174 | 16.0 | 14.8 | 14.3 | 21.9 | 100 |
| Education |  |  |  |  |  |  |  |  |  |  |
| No education | 27.9 | 33.8 | 24.0 | 40.1 | 2,419 | 9.8 | 9.6 | 6.3 | 13.2 | 449 |
| Elementary | 31.6 | 39.8 | 31.3 | 49.4 | 1,650 | 14.1 | 11.8 | 11.9 | 21.3 | 597 |
| Junior high | 35.6 | 42.0 | 30.2 | 52.5 | 1,306 | 18.3 | 17.2 | 13.0 | 25.1 | 609 |
| Senior high | 41.0 | 47.4 | 37.2 | 56.3 | 1,685 | 20.4 | 17.2 | 12.1 | 27.3 | 1,240 |
| Higher | 30.6 | 32.1 | 27.5 | 40.5 | 455 | 16.7 | 14.7 | 10.0 | 25.0 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 27.6 | 36.4 | 26.8 | 42.6 | 1,338 | 13.5 | 11.9 | 9.6 | 19.1 | 584 |
| Second | 26.8 | 34.5 | 25.8 | 41.9 | 1,360 | 18.3 | 16.6 | 11.3 | 24.1 | 577 |
| Middle | 32.2 | 41.3 | 29.0 | 50.0 | 1,400 | 15.6 | 11.5 | 12.0 | 19.4 | 631 |
| Fourth | 37.6 | 43.1 | 32.6 | 52.3 | 1,701 | 15.3 | 13.6 | 12.8 | 24.3 | 729 |
| Highest | 38.8 | 40.8 | 33.5 | 51.0 | 1,714 | 21.1 | 19.8 | 10.1 | 29.2 | 779 |
| Total 15-49 | 33.1 | 39.5 | 29.9 | 48.0 | 7,514 | 16.9 | 14.9 | 11.2 | 23.6 | 3,300 |
| 50-59 | na | na | na | na | na | 5.4 | 5.3 | 2.9 | 9.3 | 426 |
| Total 15-59 | na | na | na | na | na | 15.6 | 13.8 | 10.2 | 22.0 | 3,726 |

na $=$ Not applicable

| Table 13.11 Women and men seeking treatment for STIs |  |  |
| :--- | :---: | :---: |
| Percentage of women and men age 15-49 reporting an STI or <br> symptoms of an STI in the past 12 months who sought advice or <br> treatment, Liberia DHS 2019-20 |  |  |
| Source of advice or treatment | Women | Men |
| Clinic/hospital/private doctor/ <br> other health professional | 56.1 | 45.8 |
| Advice or medicine from <br> shop/pharmacy | 35.6 | 34.5 |
| Advice or treatment from any <br> other source | 1.8 | 3.9 |
| No advice or treatment <br> Number with STI or symptoms <br> of STI | 15.3 | 19.9 |

Table 13.12 Comprehensive knowledge about HIV among young people
Percentage of young women and young men age 15-24 with comprehensive knowledge about HIV, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage with comprehensive knowledge of $\mathrm{HIV}^{1}$ | Number of respondents | Percentage with comprehensive knowledge of $\mathrm{HIV}^{1}$ | Number of respondents |
| Age |  |  |  |  |
| 15-19 | 25.9 | 1,657 | 21.6 | 876 |
| 15-17 | 21.0 | 973 | 16.9 | 554 |
| 18-19 | 32.8 | 684 | 29.7 | 321 |
| 20-24 | 37.8 | 1,506 | 40.1 | 658 |
| 20-22 | 37.9 | 941 | 39.1 | 442 |
| 23-24 | 37.6 | 565 | 42.1 | 216 |
| Marital status |  |  |  |  |
| Never married | 32.6 | 2,211 | 29.1 | 1,347 |
| Ever had sex | 37.1 | 1,664 | 36.0 | 834 |
| Never had sex | 18.8 | 547 | 17.9 | 513 |
| Ever married | 29.2 | 952 | 32.9 | 187 |
| Residence |  |  |  |  |
| Urban | 34.9 | 2,079 | 36.4 | 1,009 |
| Greater Monrovia | 36.7 | 1,131 | 40.6 | 566 |
| Other urban | 32.8 | 948 | 31.0 | 443 |
| Rural | 25.1 | 1,084 | 16.3 | 524 |
| Education |  |  |  |  |
| No education | 16.3 | 395 | 12.0 | 105 |
| Elementary | 18.4 | 995 | 10.8 | 503 |
| Junior high | 36.8 | 895 | 36.6 | 409 |
| Senior high | 46.6 | 767 | 44.5 | 467 |
| Higher | 57.8 | 112 | * | 50 |
| Total | 31.6 | 3,163 | 29.5 | 1,533 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
Comprehensive knowledge 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 the two most common local misconceptions about transmission or prevention of HIV. The components of comprehensive knowledge are presented in Tables 13.1 and 13.2

Table 13.13 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, Liberia DHS 2019-20

| Background characteristic | Women |  |  |  | Men |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) | Percentage who had sexual intercourse before age 15 | Number of respondents (15-24) | Percentage who had sexual intercourse before age 18 | Number of respondents (18-24) |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 18.5 | 1,657 | na | na | 9.4 | 876 | na | na |
| 15-17 | 21.3 | 973 | na | na | 8.1 | 554 | na | na |
| 18-19 | 14.5 | 684 | 80.5 | 684 | 11.8 | 321 | 63.1 | 321 |
| 20-24 | 23.0 | 1,506 | 79.3 | 1,506 | 12.6 | 658 | 58.9 | 658 |
| 20-22 | 22.1 | 941 | 80.5 | 941 | 13.6 | 442 | 61.7 | 442 |
| 23-24 | 24.3 | 565 | 77.4 | 565 | 10.6 | 216 | 53.2 | 216 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 17.4 | 2,079 | 76.1 | 1,484 | 11.2 | 1,009 | 63.3 | 666 |
| Greater Monrovia | 13.9 | 1,131 | 72.7 | 854 | 12.6 | 566 | 60.7 | 383 |
| Other urban | 21.5 | 948 | 80.7 | 630 | 9.5 | 443 | 66.8 | 284 |
| Rural | 26.9 | 1,084 | 87.3 | 707 | 9.9 | 524 | 54.0 | 313 |
| Education |  |  |  |  |  |  |  |  |
| No education | 33.8 | 395 | 86.7 | 307 | 7.3 | 105 | 37.7 | 65 |
| Elementary | 25.7 | 995 | 90.4 | 518 | 7.8 | 503 | 58.2 | 182 |
| Junior high | 18.7 | 895 | 83.4 | 571 | 10.5 | 409 | 68.5 | 262 |
| Senior high | 11.4 | 767 | 70.7 | 683 | 16.2 | 467 | 60.0 | 421 |
| Higher | 7.4 | 112 | 46.6 | 112 | * | 50 | * | 50 |
| Total | 20.6 | 3,163 | 79.7 | 2,191 | 10.8 | 1,533 | 60.3 | 979 |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na = Not applicable

Table 13.14 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, Liberia DHS 2019-20

| Background characteristic | Women age 15-24 |  | Men age 15-24 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 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 | 35.8 | 1,431 | 55.9 | 858 |
| 15-17 | 49.4 | 910 | 70.7 | 552 |
| 18-19 | 12.0 | 521 | 29.3 | 306 |
| 20-24 | 4.4 | 780 | 6.8 | 489 |
| 20-22 | 3.1 | 553 | 9.2 | 343 |
| 23-24 | 7.6 | 227 | 1.2 | 146 |
| Residence |  |  |  |  |
| Urban | 24.8 | 1,556 | 34.3 | 912 |
| Greater Monrovia | 23.8 | 894 | 37.3 | 513 |
| Other urban | 26.0 | 662 | 30.5 | 398 |
| Rural | 24.7 | 655 | 46.0 | 435 |
| Education |  |  |  |  |
| No education | 31.3 | 175 | 55.7 | 81 |
| Elementary | 37.7 | 689 | 61.0 | 458 |
| Junior high | 21.1 | 660 | 35.3 | 360 |
| Senior high | 12.9 | 585 | 15.3 | 403 |
| Higher | (17.2) | 102 | * | 45 |
| Total | 24.7 | 2,211 | 38.1 | 1,347 |

[^25]
## Table 13.15.1 Multiple sexual partners and higher-risk sexual intercourse in the past 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 past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among young women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young women who had sexual intercourse in the past 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, Liberia DHS 2019-20

|  | Women age 15-24 |  |  | Women age 15 partners in the | who had 2+ 12 months | Women age 15-24 who had intercourse in the past 12 months with a person who neither was their husband nor lived with them |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual intercourse | Number of women | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of women |
| Age |  |  |  |  |  |  |  |
| 15-19 | 5.6 | 51.2 | 1,657 | 25.1 | 93 | 14.7 | 849 |
| 15-17 | 4.3 | 42.6 | 973 | (19.9) | 42 | 10.4 | 414 |
| 18-19 | 7.5 | 63.5 | 684 | 29.2 | 51 | 18.8 | 435 |
| 20-24 | 11.2 | 53.7 | 1,506 | 20.6 | 169 | 18.8 | 808 |
| 20-22 | 12.1 | 59.1 | 941 | 21.4 | 114 | 18.9 | 556 |
| 23-24 | 9.7 | 44.7 | 565 | (19.1) | 55 | 18.7 | 252 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 8.6 | 66.6 | 2,211 | 26.8 | 189 | 16.9 | 1,474 |
| Ever married | 7.6 | 19.3 | 952 | 10.0 | 72 | 15.5 | 183 |
| Residence |  |  |  |  |  |  |  |
| Urban | 9.6 | 55.5 | 2,079 | 25.9 | 200 | 20.6 | 1,154 |
| Greater Monrovia | 11.0 | 58.6 | 1,131 | (34.6) | 124 | 24.9 | 663 |
| Other urban | 8.0 | 51.7 | 948 | 11.7 | 76 | 14.7 | 490 |
| Rural | 5.6 | 46.4 | 1,084 | 10.1 | 61 | 7.8 | 503 |
| Education |  |  |  |  |  |  |  |
| No education | 5.2 | 31.3 | 395 | * | 21 | 5.5 | 124 |
| Elementary | 4.9 | 42.1 | 995 | 12.9 | 48 | 9.0 | 419 |
| Junior high | 7.5 | 57.1 | 895 | 9.1 | 68 | 12.6 | 511 |
| Senior high | 14.9 | 69.2 | 767 | 34.1 | 115 | 28.5 | 531 |
| Higher | 9.4 | 65.5 | 112 | * | 11 | (23.4) | 73 |
| Total | 8.3 | 52.4 | 3,163 | 22.2 | 261 | 16.7 | 1,657 |

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 13.15.2 Multiple sexual partners and higher-risk sexual intercourse in the past 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 past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among young men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young men who had sexual intercourse in the past 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, Liberia DHS 2019-20

| Background characteristic | Men age 15-24 |  |  | Men age 15-24 who had $2+$ partners in the past 12 months |  | Men age 15-24 who had intercourse in the past 12 months with a person who neither was their wife nor lived with them |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | 9.4 | 40.4 | 876 | 30.1 | 82 | 33.1 | 354 |
| 15-17 | 5.7 | 24.9 | 554 | (47.3) | 32 | 35.1 | 138 |
| 18-19 | 15.8 | 67.3 | 321 | 19.4 | 51 | 31.8 | 216 |
| 20-24 | 34.5 | 78.7 | 658 | 31.4 | 227 | 35.1 | 518 |
| 20-22 | 34.2 | 78.3 | 442 | 32.6 | 151 | 32.8 | 346 |
| 23-24 | 35.1 | 79.6 | 216 | 29.0 | 76 | 39.7 | 172 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 18.0 | 57.2 | 1,347 | 34.3 | 243 | 36.6 | 770 |
| Ever married | 35.8 | 54.7 | 187 | 19.1 | 67 | 17.2 | 102 |
| Residence |  |  |  |  |  |  |  |
| Urban | 21.6 | 61.1 | 1,009 | 36.7 | 218 | 41.3 | 616 |
| Greater Monrovia | 22.2 | 58.5 | 566 | (35.5) | 126 | 47.9 | 331 |
| Other urban | 20.9 | 64.4 | 443 | 38.4 | 93 | 33.7 | 286 |
| Rural | 17.4 | 48.8 | 524 | 17.4 | 91 | 17.4 | 256 |
| Education |  |  |  |  |  |  |  |
| No education | 9.9 | 35.5 | 105 | * | 10 | (28.1) | 37 |
| Elementary | 12.0 | 36.9 | 503 | 19.0 | 60 | 19.4 | 185 |
| Junior high | 19.9 | 60.9 | 409 | 31.0 | 81 | 31.7 | 249 |
| Senior high | 30.0 | 75.9 | 467 | 36.8 | 140 | 42.0 | 354 |
| Higher | * | * | 50 | * | 17 | * | 46 |
| Total | 20.2 | 56.9 | 1,533 | 31.0 | 309 | 34.3 | 872 |

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 13.16 Recent HIV tests among young people

Among young women and young men age 15-24 who have had sexual intercourse in the past 12 months, percentage who were tested for HIV in the past 12 months and received the results of the last test, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Women age 15-24 who have had sexual intercourse in the past 12 months: |  | Men age 15-24 who have had sexual intercourse in the past 12 months: |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of women | Percentage who have been tested for HIV in the past 12 months and received the results of the last test | Number of men |
| Age |  |  |  |  |
| 15-19 | 19.4 | 1,019 | 8.6 | 356 |
| 15-17 | 16.8 | 466 | 7.0 | 138 |
| 18-19 | 21.6 | 553 | 9.6 | 218 |
| 20-24 | 24.9 | 1,307 | 14.7 | 592 |
| 20-22 | 23.5 | 815 | 10.0 | 383 |
| 23-24 | 27.4 | 492 | 23.4 | 209 |
| Marital status |  |  |  |  |
| Never married | 18.7 | 1,474 | 12.2 | 770 |
| Ever married | 29.2 | 852 | 13.4 | 178 |
| Total | 22.5 | 2,326 | 12.4 | 948 |

## ADULT AND MATERNAL MORTALITY

## Key Findings

- Adult mortality: One hundred seventy-three of every 1,000 women and 189 of every 1,000 men age 15 are expected to die before age 50 .
- Lifetime risk of maternal death: At current fertility and mortality rates, three out of every 100 Liberian women will die from maternal causes.
- Maternal mortality ratio: The estimated maternal mortality ratio for the 7 -year period before the 201920 LDHS is 742 maternal deaths per 100,000 live births.
- Pregnancy-related mortality ratio: The estimated pregnancy-related mortality ratio for the 7 -year period preceding the 2019-20 LDHS is 913 deaths per 100,000 live births.

Adult and maternal mortality indicators can be used to assess the health status of a population. In Liberia, maternal mortality is a core indicator of national health performance. Recovering from 14 years of civil conflict and the largest Ebola virus disease outbreak recorded to date, the Liberian government placed priority on reproductive, maternal, newborn, child, and adolescent health (RMNCAH). Liberia is a signatory to the Every Woman, Every Child initiative with a commitment to spend at least $10 \%$ of the health sector allotment on RMNCAH. In addition, Liberia is a signatory to the 2030 Sustainable Development Goals (SDGs), FP 2020, the African Health Strategy, the Paris Declaration, the Maputo Call to Action, and the UN Secretary General's Global Strategy for RMNCH Accountability and Results (MOH 2016).

Estimation of mortality rates requires complete and accurate data on adult and maternal deaths. In the 2019-20 LDHS, data were collected from all female respondents on the survival of their sisters and brothers to obtain an estimate of adult mortality. Questions were included to determine if any of the sisters' deaths were maternityrelated, which permits an estimation of maternal mortality-a key indicator of maternal health and well-being.

This chapter presents information on the levels of and trends in adult mortality and maternal mortality in Liberia. It includes a summary measure ( $35 \mathrm{q}_{15}$ ) that represents the probability of dying between exact ages 15 and 50-that is, between the 15 th and 50th birthdays.

### 14.1 Data

The 2019-20 LDHS collected sibling histories by asking each female respondent to list all children born to her biological mother, starting with the first born. The respondent was then asked whether each of these siblings was still alive. For living siblings, the interviewer asked the current age of each sibling. For deceased siblings,
age at death and number of years since death were recorded. When a respondent could not provide precise information on age at death or years since death, approximate but quantitative answers were accepted.

For every sibling who had died, the respondent was asked whether the death was due to an accident or violence. Estimates of maternal mortality are refined by excluding deaths due to accidents or violence; however, other incidental deaths, such as HIV-related deaths, are not identified and are therefore not excluded. For sisters who died at age 12 or older, three questions were asked to determine whether the death was maternity-related: "Was (NAME) pregnant when she died?" and, if the response was negative, "Did (NAME) die during childbirth?" and, if not, "Did (NAME) die within 2 months after the end of a pregnancy or childbirth?"

### 14.2 Direct Estimates of Adult Mortality

## Adult mortality rate

The number of adult deaths per 1,000 population age 15-49. Adult mortality rates by 5 -year age groups are calculated as follows: the number of deaths to respondents' siblings in each age group are divided by the number of personyears of exposure to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of siblings (brothers or sisters) reported as having died within the 7 years preceding the survey. The person-years of exposure in each age group are calculated for both surviving and dead siblings based on their current age (living siblings) or age at death and years since death (dead siblings).
Sample: Siblings (both living and dead) who were age 15-49 in the 7 years preceding the survey, by sex and 5-year age groups

Evaluating the plausibility and stability of overall adult mortality is one way to assess the quality of the data used to estimate maternal mortality. If the estimated rates of overall adult mortality are implausible, rates based on a subset of deaths (maternal deaths in particular) may have serious problems.

The reported ages at death and years since death of the respondents' brothers and sisters are used to make direct estimates of adult mortality. Because of differentials in exposure to the risk of dying, this report presents age- and sex-specific death rates. To ensure a sufficiently large number of adult deaths to generate a robust estimate, rates are calculated for the 7-year period before the survey (roughly late 2012 and early 2013 to late 2019 and early 2020). Nevertheless, age-specific mortality rates obtained in this manner are subject to considerable sampling variation. The 7-year period is a compromise between the desire for the most recent data and the need to minimize sampling error.

Table 14.1 and Figure 14.1 show age-specific mortality rates among women and men age 15-49 for the 7 years before the 2019-20 LDHS. Overall, the adult mortality rate is higher among men ( 5.32 deaths per 1,000 population) than among women ( 4.76 deaths per 1,000 population). Adult mortality rates increase with increasing age. Mortality rates are higher for men than for women in all age groups except age 35-39 (Figure 14.1).

Figure 14.1 Adult mortality rates by age
Deaths per 1,000 population


### 14.3 Trends in Adult Mortality

Table $\mathbf{1 4 . 2}$ shows the probability of dying between exact ages 15 and $50\left(35 \mathrm{q}_{15}\right) ;{ }_{35} \mathrm{q}_{15}$ is the probability that a woman or man who survived to age 15 will die before age 50 , applying the age-specific death rates in the 7 years before each of the last three LDHS surveys. The 2019-20 LDHS data show that women have a lower probability of dying than men: 173 of 1,000 women age 15 and 189 of 1,000 men age 15 would be expected to die before age 50 .

Among women, the estimated probability of dying by age 50 has fluctuated slightly over time, increasing from 164 per 1,000 before the 2007 survey to 176 per 1,000 before the 2013 survey and then decreasing to 173 per 1,000 before the 2019-20 survey. Among men, the probability declined from 186 per 1,000 before the 2007 survey to 151 per 1,000 before the 2013 survey and then increased to 189 per 1,000 before the 2019-20 survey. These fluctuations are not statistically significant; there is no significant evidence of a trend (Appendix Table B.10).

### 14.4 Direct Estimates of Maternal Mortality


#### Abstract

Maternal mortality rate The number of maternal deaths per 1,000 women age 15-49. Maternal mortality rates by 5 -year age groups are calculated by dividing the number of maternal deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey either during pregnancy or delivery, or in the 42 days following the delivery or termination of a pregnancy, by their age group at the time of death; deaths due to accidents or violence are excluded. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters). Sample: Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5-year age groups

\section*{Maternal mortality ratio}

The number of maternal deaths per 100,000 live births. The maternal mortality ratio is calculated by dividing the age-standardized maternal mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.


Maternal deaths are a subset of all female deaths. They are defined as any deaths that occur during pregnancy or childbirth or within 42 days after the birth or termination of a pregnancy, not including deaths due to accidents or violence. Two methods are generally used to estimate maternal mortality in developing countries: the indirect sisterhood method (Graham et al. 1989) and a direct variant of the sisterhood method (Rutenberg and Sullivan 1991; Stanton et al. 1997).

Table $\mathbf{1 4 . 3}$ presents age-specific direct estimates of maternal mortality from the reported survivorship of sisters for the 7 -year period prior to the 2019-20 LDHS. These rates were calculated by dividing the number of maternal deaths by woman-years of exposure. To remove the effect of truncation bias (the lower boundary for
eligibility among women interviewed in the survey is 15 years, and the upper boundary is 49 years), the overall rate for women age 15-49 was standardized by the age distribution of survey respondents.

The mortality rate associated with pregnancy and childbearing in Liberia is 1.07 maternal deaths per 1,000 woman-years of exposure.

The estimated age-specific mortality rate is highest among women age 20-24 (1.63) and lowest among those age 15-19 (0.51)

Maternal deaths represent $23 \%$ of all deaths among women age 15-49 during the 7 -year period preceding the survey.

The maternal mortality ratio for the 7-year period before the 2019-20 LDHS is estimated at 742 maternal deaths per 100,000 live births. That is, for every 1,000 births in Liberia, about seven women die during pregnancy, during childbirth, or within 42 days of the end of a pregnancy from causes other than accidents or violence (Table 14.4). The confidence interval surrounding the maternal mortality estimate is 485 to 1,000 deaths per 100,000 live births.

At current fertility and mortality rates, $3 \%$ of Liberian women will die from maternal causes while in the reproductive age range (age 15-49).

### 14.5 Trends in Pregnancy-Related Mortality

## Pregnancy-related mortality rate

The number of pregnancy-related deaths per 1,000 women age 15-49 Pregnancy-related mortality rates by 5-year age groups are calculated by dividing the number of pregnancy-related deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey either during pregnancy or delivery, or in the 2 months following the delivery or termination of a pregnancy, by their age group at the time of death. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).
Sample: Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5-year age groups

## Pregnancy-related mortality ratio

The number of pregnancy-related deaths per 100,000 live births. The pregnancy-related mortality ratio is calculated by dividing the age-standardized pregnancy-related mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.

The previous LDHS surveys used a definition of maternal mortality that included deaths due to accidents or violence; therefore, the results of those surveys cannot be compared with the 2019-20 LDHS maternal mortality estimate presented in section 14.4. To allow a comparison with estimates from previous LDHS surveys, the 2019-20 LDHS defines a pregnancy-related death as the death of a woman during pregnancy or
childbirth or within 2 months of delivery or termination of a pregnancy, irrespective of the cause of death. What the current LDHS defines as a pregnancy-related death was labeled a maternal death in earlier LDHS surveys. Estimates of pregnancy-related mortality are therefore based solely on the timing of the death in relation to the pregnancy. This definition deviates slightly from the WHO definition of a pregnancy-related death, which limits the window to 42 days.

## Comparing MMR and PRMR

Maternal mortality (MMR)
Women who died when pregnant, during delivery, or within 42 days of delivery or the termination of a pregnancy, except when death was due to an accident or violence

Table 14.5 and Figure 14.2 present estimates of the pregnancy-related mortality ratio (PRMR) with confidence intervals for the 2019-20 LDHS and previous LDHS surveys. The pregnancy-related maternal mortality ratio for the 2019-20 LDHS is 913 (CI: 6381,189 ) deaths per 100,000 live births, meaning that for every 1,000 births in Liberia about nine women die during pregnancy or within 2 months of the end of a pregnancy from any cause, including accidents or violence. The PRMR in Liberia has fluctuated since 2007. However, the confidence intervals surrounding the 2013 and 2019-20 PRMR estimates overlap, meaning that the PRMR between the two surveys could have remained the same; there is no significant evidence of a trend.

Pregnancy-related mortality (PRMR)
Women who died when pregnant, during delivery, or within 2 months of delivery or the termination of a pregnancy, including deaths due to accidents or violence

Figure 14.2 Trends in the pregnancyrelated mortality ratio (PRMR) with confidence intervals

|  | Pregnancy-related deaths per 100,000 live births |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1,600 \\ & 1,400 \end{aligned}$ |  |  |  |
|  |  |  |  |
|  |  | 1,072 |  |
| 1,000 | 994 | 1,072 | 913 |
| +800 | 600 |  |  |
| 400 |  |  |  |
| 200 |  |  |  |
| 0 | 2000-2007 | 2006-2013 | 2012-2019 |
|  | (7 years | (7 years | (7 years |
|  | preceding | preceding | preceding |
|  | the 2007 | the 2013 | the 2019-20 |
|  | LDHS) | LDHS) | LDHS) |

## List of Tables

For more information on adult and maternal mortality, see the following tables:

- Table 14.1 Adult mortality rates
- Table 14.2 Adult mortality probabilities
- Table 14.3 Maternal mortality
- Table 14.4 Maternal mortality ratio
- Table 14.5 Pregnancy-related mortality trends


## Table 14.1 Adult mortality rates

Direct estimates of female and male mortality rates for the 7 years preceding the survey, by 5 -year age groups, Liberia DHS 2019-20

| Age | Deaths | Exposure <br> years | Mortality <br> rate $^{1}$ |
| :--- | ---: | ---: | :---: |
| FEMALE |  |  |  |
| $15-19$ | 38 | 15,104 | 2.53 |
| $20-24$ | 54 | 16,195 | 3.36 |
| $25-29$ | 66 | 15,581 | 4.25 |
| $30-34$ | 72 | 14,352 | 5.01 |
| $35-39$ | 68 | 11,315 | 6.00 |
| $40-44$ | 55 | 7,365 | 7.44 |
| $45-49$ | 41 | 4,382 | 9.40 |
| Total 15-49 | 395 | 84,294 | $4.76^{\mathrm{a}}$ |
| MALE |  |  |  |
| $15-19$ | 52 | 14,253 | 3.63 |
| $20-24$ | 56 | 15,457 | 3.64 |
| $25-29$ | 77 | 15,352 | 4.99 |
| $30-34$ | 73 | 13,707 | 5.32 |
| $35-39$ | 62 | 11,061 | 5.62 |
| $40-44$ | 62 | 7,448 | 8.29 |
| $45-49$ | 49 | 4,707 | 10.49 |
| Total 15-49 | 431 | 81,985 | $5.32^{\mathrm{a}}$ |

${ }^{1}$ Expressed per 1,000 population
${ }^{\text {a }}$ Age-adjusted rate

## Table 14.2 Adult mortality probabilities

The probability of dying between ages 15 and 50 for women and men during the 7 years preceding the survey, Liberia DHS 2019-20

| Survey | Female <br> ${ }_{35} \mathrm{q}_{15}{ }^{1}$ | Male <br> ${ }_{35} \mathrm{q}_{15}{ }^{1}$ |
| :--- | :---: | :---: |
| 2019-20 LDHS | 173 | 189 |
| 2013 LDHS | 176 | 151 |
| 2007 LDHS | 164 | 186 |

${ }^{1}$ The probability of dying between exact ages 15 and 50 , expressed per 1,000 persons at age 15

## Table 14.3 Maternal mortality

Direct estimates of maternal mortality rates for the 7 years preceding the survey, by 5year age groups, Liberia DHS 2019-20

|  | Percentage of <br> female deaths <br> that are maternal | Maternal deaths ${ }^{1}$ | Exposure years | Maternal <br> mortality rate ${ }^{2}$ |
| :--- | :---: | :---: | :---: | :---: |
| $15-19$ | 20.1 | 8 | 15,104 | 0.51 |
| $20-24$ | 48.7 | 26 | 16,195 | 1.63 |
| $25-29$ | 18.4 | 12 | 15,581 | 0.78 |
| $30-34$ | 21.8 | 16 | 14,352 | 1.09 |
| $35-39$ | 23.3 | 16 | 11,315 | 1.40 |
| $40-44$ | 19.8 | 11 | 7,365 | 1.47 |
| $45-49$ | 7.8 | 3 | 4,382 | 0.74 |
| Total 15-49 | 23.3 | 92 | 84,294 | $1.07^{a}$ |

[^26]Table 14.4 Maternal mortality ratio
Total fertility rate, general fertility rate, maternal mortality ratio, and lifetime risk of maternal death for the 7 years preceding the survey, Liberia DHS 2019-20

Total fertility rate (TFR)
4.5

General fertility rate (GFR) ${ }^{1}$
4.5

144
Lifetime risk of maternal death ${ }^{3} \quad 0.033$

CI: Confidence interval
${ }^{1}$ Age-adjusted rate, expressed per 1,000 women age 15-49
${ }^{2}$ Expressed per 100,000 live births; calculated as the age-adjusted maternal mortality rate (shown in Table 14.3) times 100 divided by the age-adjusted general fertility rate
${ }^{3}$ Calculated as $1-(1-M M R)^{\text {TFR }}$, where TFR represents the total fertility rate for the 7 years preceding the survey

## Table 14.5 Pregnancy-related mortality trends

Direct estimates of pregnancy-related mortality rates for the 7 years preceding each survey, by 5-year age groups, Liberia DHS 2019-20

|  | Pregnancy-related mortality rates ${ }^{1,2}$ |  |  |
| :--- | :---: | :---: | :---: |
| Age | $2012-2019$ | $2006-2013$ | $2000-2007$ |
| $15-19$ | 0.69 | 0.92 | 1.60 |
| $20-24$ | 1.98 | 1.46 | 1.10 |
| $25-29$ | 1.01 | 2.19 | 1.77 |
| $30-34$ | 1.38 | 2.14 | 2.13 |
| $35-39$ | 1.89 | 1.56 | 1.77 |
| $40-44$ | 1.52 | 3.12 | 2.51 |
| $45-49$ | 0.74 | 1.77 | 1.51 |
| Total 15-49a | 1.31 | 1.74 | 1.70 |
| Total fertility rate (TFR) | 4.5 | 5.1 | 5.5 |
| General fertility rate (GFR) $^{3}$ | 144 | 162 | 171 |
| Pregnancy-related mortality |  |  |  |
| ratio (PRMR) |  |  |  |
| Confidence interval | $(638-1,189)$ | $(776-1,368)$ | $(678-1,310)$ |
| Lifetime risk of pregnancy- <br> related death | 0.041 | 0.053 | 0.054 |

${ }^{1}$ Pregnancy-related mortality is defined as the death of a woman while pregnant or within 2 months of termination of pregnancy, from any cause including accidents or violence.
${ }^{2}$ Expressed per 1,000 woman-years of exposure
${ }^{3}$ Age-adjusted rate, expressed per 1,000 women age 15-49
${ }^{4}$ Expressed per 100,000 live births; calculated as the age-adjusted pregnancy-related mortality rate times 100 divided by the age-adjusted general fertility rate
${ }^{5}$ Calculated as $1-(1-\mathrm{PRMR}){ }^{\text {TFR }}$, where TFR represents the total fertility rate for the 7 years preceding the survey
${ }^{\text {a }}$ Age-adjusted rate

## Key Findings

- Employment and cash earnings of currently married women and men: 76\% of currently married women and $97 \%$ of currently married men were employed in the past 12 months. Sixty-five percent of employed women received cash for their work, as compared with $80 \%$ of employed men.
- Control over women's earnings: 89\% of currently married employed women with cash earnings participate in decisions about the use of their earnings alone or jointly with their husband, an increase from 76\% in 2007.
- Ownership and use of bank accounts and mobile phones: Only $12 \%$ of women and $21 \%$ of men have an account in a bank or financial institution that they use. Forty-seven percent of women and $61 \%$ of men have a mobile phone.
- Attitudes towards wife beating: 37\% of women agree that a husband is justified in beating his wife in at least one of five specified circumstances, as compared with $25 \%$ of men.
- Female genital cutting: 83\% of women age 15-49 have heard of female circumcision. Among women who have heard of female circumcision, $38 \%$ say that they have been circumcised.

Liberia is contributing to the global dialogue on women's issues, as seen by the country staging the International Women's Colloquium (CSF 2011) in 2009 and having two Nobel Laureates in 2011 (The Nobel Prize 2011) who were awarded on the basis of their contributions to women's empowerment. This chapter explores women's empowerment in terms of employment, earnings, control over earnings, magnitude of earnings relative to those of their partners, household decision making, empowering attitudes, property ownership, and female genital cutting (FGC). Wherever relevant, gender differences are also shown. These indicators provide information about the status of women and shed light on the context in which women make family and health choices. In addition, responses to specific questions are used to define two indicators of women's empowerment: their participation in household decision making and their attitudes towards wife beating.

### 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 labor 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

Seventy-six percent of currently married women and $97 \%$ of currently married men are employed. Among those employed, women are twice as likely as men to be unpaid ( $34 \%$ versus $17 \%$ ). Fifty-two percent of employed women and $69 \%$ of employed men receive only cash for their work, and another $13 \%$ of women and $10 \%$ of men are paid in cash and in-kind (Table 15.1).

Trends: The percentage of currently married women who are employed decreased from $76 \%$ in 2007 to $66 \%$ in 2013 before once again rising to $76 \%$ in 2019-20. The percentage who received cash for their work (including those paid in cash and in-kind) rose from $61 \%$ in 2007 to $68 \%$ in 2013 before declining slightly to $65 \%$ in 2019-20.

## Patterns by background characteristics

- Employment generally increases with age among currently married women (from 49\% among those age 15-19 to $89 \%$ among those age $45-49$ ) but varies little by age among men (Table 15.1 and Figure 15.1).
- The percentage of employed women who earn cash (cash only or cash and in-kind) is highest (71\%) among those age 30-34 and lowest (56\%) among those age $15-19$. Among men, by contrast, the percentage who earn cash varies little by age. Notably, in every age group, employed men are much more likely than employed women to earn cash.

Figure 15.1 Employment by age


### 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 (cash only or cash and in-kind) for employment during the 12 months before the survey

Women's access to financial resources is a key mechanism for reducing poverty (SDG 1). To be empowered, women must have a stake in decision making about the use of their own earnings. Twenty-six percent of currently married women who have earnings mainly decide alone how their earnings are used, $63 \%$ decide jointly with their husbands, and $11 \%$ report that their husbands are the main decision maker (Table

### 15.2.1 and Figure 15.2).

Among currently married women who are employed and have cash earnings, $11 \%$ earn more than their husbands, $13 \%$ earn about the same as their husbands, and $67 \%$ earn less than their husbands. Six percent of currently married women who earn cash say that their husbands do not have any cash earnings.

Figure 15.2 Control over women's earnings

Percent distribution of currently married women with cash earnings* by the person who decides how their earnings are used


* Includes women who worked in the 12 months before the survey.

Trends: The percentage of currently married women who participate alone or jointly with their husbands in decisions about the use of their earnings has risen steadily over time, from $76 \%$ in 2007 to $89 \%$ in 2019-20. Among women who have cash earnings, the percentage who earn less than their husbands increased from $59 \%$ in 2007 to $67 \%$ in 2019-20.

## Patterns by background characteristics

- By county, the percentage of women who make decisions about their own earnings alone is highest in Maryland (36\%), the percentage who make decisions jointly with their husbands is highest in Margibi and River Cess ( $80 \%$ each), and the percentage who report that their husbands mainly make these decisions is highest in Grand Kru (26\%) (Table 15.2.1).
- The percentage of currently married women with cash earnings who participate in decisions about the use of their earnings alone or jointly with their husbands varies little by education or wealth. At least 8 in 10 women in all education and wealth categories participate in decisions about their own earnings.


### 15.3 Control over Men's Earnings

Twenty-eight percent of currently married men age 15-49 with earnings report that they themselves mainly make decisions about the use of their own earnings, and $57 \%$ say that they make these decisions jointly with their wives. By contrast, $24 \%$ of currently married women whose husbands have earnings report that their
husbands make these decisions mainly alone and $63 \%$ report that these decisions are made jointly (Table 15.2.2).

For information on how women's control over their own earnings and their husbands' earnings varies according to whether they earn more or less than their husbands, see Table 15.3.

### 15.4 Women's and Men's Ownership of Assets

## Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with someone else.
Sample: Women and men age 15-49

Ownership of and control over assets are key for financial empowerment. In Liberia, ownership of assets in the form of a house and land is somewhat more common among men than women. Overall, $31 \%$ of men and $24 \%$ of women own a house, while $28 \%$ of men and $14 \%$ of women own land (Figure 15.3). Women are also less likely than men to own a house alone ( $10 \%$ versus $16 \%$ ) and land alone ( $5 \%$ versus $14 \%$ ) (Tables 15.4.1 and 15.4.2).

Trends: The percentage of women who own a house declined from $30 \%$ in 2013 to $24 \%$ in 2019-20.

Patterns by background characteristics

Figure 15.3 Ownership of assets
Percentage of women and men age 15-49 by ownership of specific items

■ Women ■Men


- House and land ownership increase sharply with age among both women and men. For example, house ownership ranges from $3 \%$ among women age 15-19 to $57 \%$ among women age 45-49 and from $8 \%$ among men age $15-19$ to $63 \%$ among men age $45-49$ (Tables 15.4.1 and 15.4.2).
- Women and men in rural areas are more likely to own a house ( $38 \%$ and $43 \%$, respectively) than those in urban areas ( $15 \%$ and $23 \%$, respectively). Similarly, rural women and men are more likely to own land ( $23 \%$ and $42 \%$, respectively) than urban women and men ( $8 \%$ and $20 \%$, respectively). Furthermore, within urban areas, women and men in Greater Monrovia are much less likely than those in other urban areas to own either a house or land.
- Home ownership (alone or jointly) among women ranges from $11 \%$ in Montserrado to $48 \%$ in River Cess, while land ownership among women is least common in Montserrado and Margibi (5\% and 6\%, respectively) and most common in Sinoe ( $28 \%$ ). Men living in Nimba have the highest percentage of both home and land ownership ( $60 \%$ and $70 \%$, respectively), while men in Montserrado are least likely to own a home or land ( $17 \%$ and $10 \%$, respectively).
- House and land ownership among women tend to have a U-shaped relationship with education and wealth, initially declining and then increasing among women at the highest levels of education and wealth. Among men, however, house and land ownership vary inconsistently with education and wealth.


### 15.5 Possession of Title or Deed for a House or Land

Women and men who said that they owned a house or land were asked if they had a title or deed for the property and whether their name was on the title or deed. Overall, $18 \%$ of women and $19 \%$ of men who own a house have a title or deed with their name on it , and $72 \%$ of women and $74 \%$ of men who own a house say that they do not have a title or deed. Similarly, $16 \%$ each of women and men who own land have a title or deed with their name on it, and $76 \%$ of women and $78 \%$ of men who own land do not have a title or deed (Tables 15.5.1, 15.5.2, 15.6.1, and 15.6.2). Notably, a higher proportion of women ( $3 \%$ for house ownership and $4 \%$ for land ownership) than men (less than $1 \%$ for house ownership and $1 \%$ for land ownership) have missing information on whether they have a title or deed to the house or land they own or know that they have a title or deed but do not know if their name is on it.

## Patterns by background characteristics

- Although women and men in urban areas are less likely to own either a house or land than their rural counterparts, they are much more likely to have a title or deed to the property with their name on it. For example, $35 \%$ of urban women and $28 \%$ of urban men who own land have a title or deed with their name on it, as compared with $4 \%$ of rural women and $7 \%$ of rural men who own land.
- Property deeds or titles for houses owned by women are common only in Montserrado (73\%), and property deeds or titles for houses owned by men are common only in Margibi (75\%) and Montserrado ( $66 \%$ ). In all other counties, women and men have titles or deeds for fewer than $40 \%$ of properties.
- For both women and men who own property, having a title or deed to the property with their name on it tends to increase sharply with increasing education and wealth. For example, $83 \%$ of women and $52 \%$ of men in the highest wealth quintile who own land have a title or deed with their name on it, compared with $2 \%$ of women and $5 \%$ of men in the lowest wealth quintile.


### 15.6 Ownership and Use of Bank Accounts and Mobile Phones

## Ownership of bank accounts

Respondents who have an account in a bank or other financial institution that they themselves use.
Sample: Women and men age 15-49
Ownership of a mobile phone
Respondents who own a mobile phone.
Sample: Women and men age 15-49

In Liberia, only $12 \%$ of women and $21 \%$ of men have an account in a bank or other financial institution that they use, and $47 \%$ of women and $61 \%$ of men own a mobile phone (Figure 15.3). Among those with a mobile phone, $52 \%$ of women and $50 \%$ of men use their phone for financial transactions (Tables 15.7.1 and 15.7.2).

Patterns by background characteristics

- Women and men in urban areas are more likely than women and men in rural areas to have an account in a bank or financial institution or to own a mobile phone. For example, $16 \%$ of urban women and $6 \%$ of rural women have a bank account, while $61 \%$ of urban women and $23 \%$ of rural women own a mobile phone
(Table 15.7.1).
- Bank account use is highest among women and men in Montserrado ( $19 \%$ and $30 \%$, respectively) and lowest among women in River Cess and Grand Kru ( $1 \%$ each) and men in Grand Cape Mount (3\%). Mobile phone ownership also varies by county, from $16 \%$ among women in Gbarpolu to $67 \%$ among women in Montserrado and from $38 \%$ among men in River Cess to $78 \%$ among men in Montserrado.
- Fifty-one percent of women and $67 \%$ of men with a higher education have an account in a bank or other financial institution, as compared with $7 \%$ or less of women and $12 \%$ or less of men with a junior high education, an elementary education, or no education. Similarly, $93 \%$ of women and $97 \%$ of men with a higher education own a mobile phone, compared with $29 \%$ of women and $32 \%-39 \%$ of men with an elementary education or no education. The percentages of women and men who own a mobile phone and use their phone for financial transactions increase sharply with increasing education.
- Although women and men who have an account in a bank or other financial institution increases with wealth, only $25 \%$ of women and $42 \%$ of men even in the highest wealth quintile have an account in a bank or other financial institution. In general, the percentages of women and men who own a mobile phone and use their phone for financial transactions increase steadily with increasing wealth.


### 15.7 Women's 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 husbands 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

About 8 in 10 women participate in each of the three specified decisions (regarding their own health care, major household purchases, and visits to their family or relatives) (Table 15.8 and Table 15.9.1). Women are much more likely to make each of these decisions jointly with their husbands than alone (Table 15.8). However, more women make decisions mainly alone about major household purchases (28\%) than about their own health care ( $20 \%$ ) and visits to their family or relatives ( $22 \%$ ). Overall, $69 \%$ of currently married women participate in all three specified household decisions either alone or jointly with their husbands, and $12 \%$ do not participate in any of the three decisions (Table 15.9.1 and Figure 15.4).

Figure 15.4 Women's participation in decision making


Currently married men were asked about decision making regarding their own health care and making major household purchases. Overall, $75 \%$ of men say that they participate alone or jointly with their wives in decisions about their own health care, and $67 \%$ say that they participate alone or jointly with their wives in decisions about major household purchases. Fifteen percent of men say that they do not participate in either decision (Table 15.9.2).

Trends: The percentage of currently married women who participate alone or jointly with their husband in all three of the specified decisions increased slightly from $66 \%$ in 2013 to $69 \%$ in 2019-20. However, there was also an increase in the percentage who do not participate in any of the three decisions, from $9 \%$ to $12 \%$.

## Patterns by background characteristics

- Women's participation in household decision making increases with age and number of living children.
- Women who are employed, whether for cash or not for cash, are more likely to participate in all three specified decisions ( $72 \%$ and $75 \%$, respectively) than women who are not employed (56\%) (Table 15.9.1).
- Women's participation in all three specified decisions varies by county, from a low of $51 \%$ in Grand Cape Mount to a high of $83 \%$ each in River Cess and River Gee.
- The percentage of women who participate in all three specified decisions is higher among those with a senior high or higher education ( $72 \%$ and $86 \%$, respectively) than among those who have no education or less education ( $65 \%-69 \%$ ). There are only minimal variations by wealth in women's participation in the three specified decisions.


### 15.8 ATtitudes toward Wife Beating


#### Abstract

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

The 2019-20 Liberia DHS collected information on women's and men's attitudes toward wife beating in five separate circumstances. Overall, $37 \%$ of women believe that a husband is justified in beating his wife in at least one of the five specified circumstances, as compared with $25 \%$ of men (Tables 15.10.1 and 15.10.2). Twenty-nine percent of women agree that wife beating is justified if a wife argues with her husband, $27 \%$ agree that it is justified if she neglects the children, $23 \%$ agree that it is justified if she goes out without telling him, and $10 \%$ each agree that it is justified if she refuses to have sexual intercourse with him and if she burns the food (Table 15.10.1 and Figure 15.5). Men are less likely than women to agree with each of the five specified reasons for wife beating.

Figure 15.5 Attitudes towards wife beating


Trends: The percentage of women who agree that wife beating is justified in at least one of the five specified circumstances has declined substantially over time, from $59 \%$ in 2007 to $37 \%$ in 2019-20. The percentage of men justifying wife beating in at least one of the specified circumstances declined from $30 \%$ in 2007 to $24 \%$ in 2013 and remained almost unchanged at 25\% in 2019-20.

## Patterns by background characteristics

- Women who are employed but are not paid in cash are more likely to agree that wife beating is justified in at least one of the five specified circumstances (48\%) than women who are not employed (33\%) and women who are employed for cash (35\%) (Table 15.10.1).
- Forty-six percent of rural women agree that wife beating is justified for at least one of the specified reasons, as compared with $32 \%$ of urban women. Within urban areas, $22 \%$ of women in Greater Monrovia and $44 \%$ of women in other urban areas agree with at least one of the specified reasons for wife beating.
- Women's agreement with wife beating for at least one of the specified reasons is highest in River Gee (62\%) and Grand Bassa (60\%) and lowest in Montserrado (23\%).
- Agreement with wife beating is much lower among women with a senior high education (23\%) or a higher education ( $12 \%$ ) than among women with no education or less education ( $41 \%-49 \%$ ).
- Agreement with at least one of the specified reasons for wife beating declines sharply with increasing wealth, from $49 \%$ among women in the lowest wealth quintile to $24 \%$ among women in the highest wealth quintile.


### 15.9 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 an STI.

Similar proportions of women and men age 15-49 agree that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sex with other women ( $73 \%$ and $72 \%$, respectively); however, a higher proportion of men ( $86 \%$ ) than women ( $76 \%$ ) agree that a woman is justified in asking her husband to use a condom if he has an STI (Table 15.11).

To assess women's ability to actually negotiate safer sexual relations with their husbands, currently married women were asked whether they can say no to their husbands if they do not want to have sexual intercourse and whether they can ask their husbands to use a condom. Eighty-two percent of women indicated that they can say no to their husbands if they do not want to have sexual intercourse, but a smaller proportion (59\%) said that they can ask their husbands to use a condom (Table 15.12).

## Patterns by background characteristics

- Eighty-two percent each of urban and rural women are able to say no to their husband if they do not want to have sexual intercourse; however, only $52 \%$ of rural women say that they can ask their husband to use a condom, as compared with $65 \%$ of urban women (Table 15.12).
- Women's ability to negotiate safer sex with their husband varies by county. The proportion of women who can say no to their husbands if they do not want to have sexual intercourse ranges from $65 \%$ in Grand

Cape Mount to $91 \%$ in Grand Gedeh. The proportion of women who can ask their husbands to use a condom ranges from $41 \%$ in River Cess to $72 \%$ in Montserrado.

- The proportion of women who can say no to their husbands if they do not want to have sexual relations does not vary consistently with education and does not vary by wealth. However, the proportion of women who can ask their husbands to use a condom tends to increase sharply with increasing education and wealth.

For more information on how indicators of women's empowerment, namely their participation in household decision making and their agreement with wife beating, relate to each other and to selected demographic and health indicators, see Tables 15.13-15.17.

### 15.10 Female Genital Cutting

FCG, also known as female genital mutilation (FGM) or female circumcision, is defined by the WHO as any procedure that involves partial or total removal of the external genitalia and/or injury to the female genital organs for any non-therapeutic reason. FGC, widely recognized as a violation of human rights, is deeply rooted in traditional beliefs and perceptions shared across generations.

In Liberia, FGC is typically implemented as part of the initiation rituals of the Sande society or other women's bush societies. The rituals involve taking girls into the bush to initiate them into adulthood by teaching them local customs, sex and sexual etiquette, female hygiene, and housekeeping skills. As part of these initiation rituals, girls are also typically circumcised. The form of circumcision practiced in Liberia involves the removal of part or all of the clitoris. Before leaving office, President Ellen Johnson Sirleaf placed a temporary ban on circumcising girls below age 18. However, this ban expired in February 2019. The Government of President George Manneh Weah suspended the activities of the bush schools that conduct the practice for an additional year (FrontPageAfrica 2019), with this suspension being involuntarily extended with the emergence of Covid19 restrictions.

The 2019-20 Liberia DHS asked women age 15-49 questions on their knowledge of and membership in the Sande society or bush societies, as was done in the 2007 and 2013 LDHS surveys. However, unlike the prior surveys, the 2019-20 LDHS also included questions that directly asked about FGC. Women were asked if they had ever heard of female circumcision and whether they had been circumcised. In addition, they were asked questions on age at circumcision and attitudes toward the continuation of the practice.

### 15.10.1 Knowledge of and Membership in Sande Secret Society

In Liberia, $83 \%$ of women age 15-49 have heard of the Sande society or women's bush societies. Among women who have heard of these societies, $35 \%$ say that they are members (Table 15.18). In general, it is assumed that women who are members of these societies are also circumcised.

Trends: The percentage of women who have heard of the Sande society or other women's bush societies fell from $89 \%$ in 2007 and 2013 to $83 \%$ in 2019-20. Membership in these societies shows a sharp decline over time, from $66 \%$ in 2007 and $50 \%$ in 2013 to $35 \%$ in 2019-20.

### 15.10.2 Knowledge and Prevalence of Female Genital Cutting

In Liberia, $83 \%$ of women age 15-49 have heard of female circumcision, and among women who have heard of female circumcision, $38 \%$ say that they have been circumcised (Table 15.19). A comparison with women's membership in the Sande society or other women's bush societies shows that the percentage of women who report being members is lower than the percentage of women who report being circumcised.

- Knowledge and prevalence of circumcision vary inversely with women's age. The percentage of women who have heard of female circumcision declines from $91 \%$ among those age $45-49$ to $73 \%$ among those age 15-19 (Table 15.19).
- Among women who have heard of circumcision, the prevalence of circumcision declines from 60\% among those age $45-49$ to $26 \%-28 \%$ among those age 15-24 (Figure 15.6).
- Christian women are less likely than women of other religions to be circumcised. Nonetheless, even among Christian women, $35 \%$ of those who have heard of female circumcision say that they are circumcised.
- Knowledge of circumcision varies only minimally by urban or rural residence; however, urban women are much less likely to be circumcised ( $30 \%$ ) than rural women (52\%).
- By county, the prevalence of female circumcision varies from a low of $2 \%$ in River Gee and 3\% each in Maryland and Grand Kru to a high of 78\% in Gbarpolu and $71 \%$ in Grand Cape Mount (Figure 15.7).
- Although there are only minimal differences in knowledge of circumcision by education or wealth, the prevalence of circumcision declines sharply with increasing education and wealth.

Women who said they were circumcised were asked the age at which they were cut. Among women who are circumcised, $25 \%$ were circumcised before age 5, 17\% at age 5-9, 33\% at age $10-14$, and $22 \%$ at age 15 or above (Table 15.20).

### 15.10.3 Opinions about the Continuation of the Practice of FGC

Women who had heard of female circumcision were asked their opinion on whether the practice of FGC should continue. The majority of women ( $64 \%$ ) said that the practice should not be continued; only $20 \%$ said that the practice should be continued, and $16 \%$ either did not know or said that it depends (Table 15.21).

## Patterns by background characteristics

- Among women who have heard of FGC, opinions regarding the continuation of the practice vary greatly by whether or not women are themselves circumcised. Forty-four percent of women who are circumcised say that the practice should not continue, as compared with $76 \%$ of women who are not circumcised.
- Christian women are more likely than women of other religions to not want the practice to continue.
- Among women who have heard of FGC, $73 \%$ of those in urban areas and $48 \%$ of those in rural areas do not want the practice to continue.
- The percentage of women who do not want the practice to continue is highest in Grand Kru (84\%) and lowest in Grand Cape Mount (25\%).
- The percentage of women who say that the practice of FGC should not continue increases sharply with increasing education and wealth. Nonetheless, almost half of women with no education (49\%) and $43 \%$ of women in the lowest wealth quintile say that the practice should not continue.


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Table 15.1 Employment and cash earnings of currently married women and men
Percentage of currently married women and men age 15-49 who were employed at any time in the past 12 months and percent distribution of currently married women and men employed in the past 12 months by type of earnings, according to age, Liberia DHS 2019-20

| Age | Among currently married respondents: |  | Percent distribution of currently married respondents employed in the past 12 months, by type of earnings |  |  |  | Total | Number of respondents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage employed in past 12 months | Number of respondents | Cash only | Cash and in-kind | In-kind only | Not paid |  |  |
| WOMEN |  |  |  |  |  |  |  |  |
| 15-19 | 48.6 | 204 | 44.9 | 11.3 | 4.9 | 38.9 | 100.0 | 99 |
| 20-24 | 64.3 | 625 | 50.4 | 10.9 | 2.7 | 36.0 | 100.0 | 402 |
| 25-29 | 71.8 | 788 | 54.6 | 9.9 | 1.7 | 33.8 | 100.0 | 565 |
| 30-34 | 77.4 | 819 | 57.7 | 12.8 | 0.6 | 28.9 | 100.0 | 634 |
| 35-39 | 83.2 | 785 | 51.7 | 13.5 | 1.7 | 33.1 | 100.0 | 653 |
| 40-44 | 82.2 | 545 | 49.4 | 14.5 | 1.4 | 34.8 | 100.0 | 448 |
| 45-49 | 89.1 | 449 | 47.3 | 14.5 | 1.4 | 36.8 | 100.0 | 400 |
| Total 15-49 | 76.0 | 4,216 | 52.1 | 12.6 | 1.6 | 33.6 | 100.0 | 3,202 |
| MEN |  |  |  |  |  |  |  |  |
| 15-19 | * | 12 | * | * | * | * | * | 12 |
| 20-24 | 94.2 | 141 | 65.0 | 14.2 | 3.8 | 17.0 | 100.0 | 132 |
| 25-29 | 96.1 | 308 | 69.8 | 10.8 | 5.7 | 13.7 | 100.0 | 296 |
| 30-34 | 97.2 | 367 | 73.1 | 10.2 | 3.3 | 13.5 | 100.0 | 357 |
| 35-39 | 98.6 | 429 | 68.5 | 9.6 | 2.8 | 19.2 | 100.0 | 423 |
| 40-44 | 95.0 | 357 | 68.4 | 9.5 | 3.5 | 18.6 | 100.0 | 339 |
| 45-49 | 98.4 | 293 | 69.2 | 9.7 | 3.8 | 17.4 | 100.0 | 288 |
| Total 15-49 | 96.9 | 1,906 | 69.3 | 10.2 | 3.8 | 16.8 | 100.0 | 1,847 |
| 50-59 | 94.7 | 358 | 60.1 | 16.0 | 4.8 | 19.2 | 100.0 | 339 |
| Total 15-59 | 96.5 | 2,264 | 67.9 | 11.1 | 3.9 | 17.2 | 100.0 | 2,186 |

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 the wife's cash earnings are used and by whether she earned more or less than her husband, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Person who decides how the wife's cash earnings are used: |  |  |  | Total | Wife's cash earnings compared with husband's cash earnings: |  |  |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other |  | More | Less | About the same | Husband has no earnings | Don't know | Missing |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 21.9 | 50.5 | 24.2 | 3.5 | 100.0 | 13.3 | 73.7 | 6.9 | 6.2 | 0.0 | 0.0 | 100.0 | 56 |
| 20-24 | 22.5 | 59.7 | 17.8 | 0.0 | 100.0 | 6.8 | 79.5 | 8.7 | 2.3 | 2.7 | 0.0 | 100.0 | 246 |
| 25-29 | 30.1 | 63.1 | 6.7 | 0.1 | 100.0 | 9.8 | 72.6 | 11.2 | 3.6 | 2.7 | 0.0 | 100.0 | 365 |
| 30-34 | 25.7 | 63.4 | 10.6 | 0.3 | 100.0 | 10.2 | 68.8 | 10.9 | 5.6 | 4.4 | 0.0 | 100.0 | 447 |
| 35-39 | 25.1 | 66.1 | 8.7 | 0.1 | 100.0 | 10.5 | 64.3 | 13.8 | 9.0 | 2.4 | 0.0 | 100.0 | 426 |
| 40-44 | 27.6 | 62.0 | 10.5 | 0.0 | 100.0 | 12.8 | 57.2 | 16.5 | 6.2 | 7.2 | 0.0 | 100.0 | 286 |
| 45-49 | 26.5 | 60.7 | 12.4 | 0.4 | 100.0 | 13.4 | 56.8 | 15.6 | 9.5 | 4.7 | 0.0 | 100.0 | 247 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 23.6 | 67.8 | 6.7 | 1.9 | 100.0 | 16.4 | 57.9 | 18.8 | 4.8 | 2.2 | 0.0 | 100.0 | 76 |
| 1-2 | 29.7 | 58.0 | 12.2 | 0.1 | 100.0 | 10.6 | 70.3 | 9.9 | 4.0 | 5.2 | 0.0 | 100.0 | 769 |
| 3-4 | 25.3 | 64.2 | 10.3 | 0.2 | 100.0 | 9.4 | 67.4 | 12.2 | 8.6 | 2.5 | 0.0 | 100.0 | 727 |
| 5+ | 22.7 | 66.5 | 10.5 | 0.3 | 100.0 | 11.5 | 62.4 | 16.1 | 6.0 | 4.0 | 0.0 | 100.0 | 502 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 27.5 | 61.3 | 11.0 | 0.2 | 100.0 | 10.2 | 70.9 | 8.6 | 7.2 | 3.2 | 0.0 | 100.0 | 1,268 |
| Greater Monrovia | 34.7 | 52.6 | 12.6 | 0.2 | 100.0 | 9.2 | 72.4 | 5.2 | 10.2 | 3.0 | 0.0 | 100.0 | 738 |
| Other urban | 17.4 | 73.4 | 8.8 | 0.3 | 100.0 | 11.6 | 68.9 | 13.2 | 3.0 | 3.4 | 0.0 | 100.0 | 530 |
| Rural | 24.3 | 64.6 | 10.8 | 0.2 | 100.0 | 11.3 | 60.7 | 18.7 | 4.5 | 4.9 | 0.0 | 100.0 | 806 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 23.7 | 58.9 | 16.7 | 0.7 | 100.0 | 14.8 | 55.0 | 14.5 | 8.3 | 7.5 | 0.0 | 100.0 | 202 |
| South Central | 30.8 | 57.5 | 11.5 | 0.1 | 100.0 | 11.1 | 69.8 | 8.2 | 7.9 | 2.9 | 0.0 | 100.0 | 1,052 |
| South Eastern A | 20.1 | 75.2 | 4.7 | 0.0 | 100.0 | 12.6 | 61.5 | 22.2 | 1.5 | 2.2 | 0.0 | 100.0 | 159 |
| South Eastern B | 29.0 | 54.9 | 15.0 | 1.1 | 100.0 | 10.0 | 67.4 | 11.9 | 5.1 | 5.6 | 0.0 | 100.0 | 95 |
| North Central | 19.8 | 71.1 | 8.9 | 0.2 | 100.0 | 7.8 | 67.2 | 17.1 | 3.4 | 4.4 | 0.0 | 100.0 | 565 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 19.3 | 62.6 | 18.1 | 0.0 | 100.0 | 20.1 | 53.6 | 15.9 | 5.1 | 5.3 | 0.0 | 100.0 | 85 |
| Bong | 22.5 | 67.8 | 9.7 | 0.0 | 100.0 | 8.6 | 68.9 | 16.5 | 3.3 | 2.7 | 0.0 | 100.0 | 153 |
| Gbarpolu | 18.7 | 64.4 | 16.9 | 0.0 | 100.0 | 6.5 | 57.9 | 20.4 | 12.7 | 2.6 | 0.0 | 100.0 | 47 |
| Grand Bassa | 30.6 | 57.8 | 11.7 | 0.0 | 100.0 | 11.9 | 58.5 | 26.0 | 0.7 | 2.9 | 0.0 | 100.0 | 99 |
| Grand Cape Mount | 32.6 | 50.6 | 14.7 | 2.1 | 100.0 | 14.0 | 54.6 | 8.9 | 9.1 | 13.4 | 0.0 | 100.0 | 70 |
| Grand Gedeh | 22.7 | 71.3 | 5.9 | 0.0 | 100.0 | 10.2 | 81.8 | 5.5 | 1.3 | 1.3 | 0.0 | 100.0 | 57 |
| Grand Kru | 19.9 | 53.9 | 26.2 | 0.0 | 100.0 | 7.9 | 64.7 | 17.4 | 3.1 | 7.0 | 0.0 | 100.0 | 34 |
| Lofa | 34.1 | 57.3 | 7.8 | 0.8 | 100.0 | 6.2 | 60.7 | 14.7 | 9.7 | 8.6 | 0.0 | 100.0 | 119 |
| Margibi | 11.2 | 79.6 | 9.2 | 0.0 | 100.0 | 19.7 | 70.3 | 7.8 | 1.8 | 0.4 | 0.0 | 100.0 | 132 |
| Maryland | 36.3 | 51.6 | 10.0 | 2.0 | 100.0 | 9.5 | 69.3 | 9.3 | 6.1 | 5.8 | 0.0 | 100.0 | 52 |
| Montserrado | 34.0 | 54.0 | 11.9 | 0.1 | 100.0 | 9.6 | 71.1 | 6.2 | 9.8 | 3.3 | 0.0 | 100.0 | 820 |
| Nimba | 12.7 | 78.3 | 9.0 | 0.0 | 100.0 | 8.0 | 69.0 | 18.4 | 1.0 | 3.6 | 0.0 | 100.0 | 293 |
| River Cess | 10.7 | 79.5 | 9.8 | 0.0 | 100.0 | 12.2 | 33.2 | 49.5 | 4.0 | 1.2 | 0.0 | 100.0 | 25 |
| River Gee | (22.1) | (76.9) | (1.0) | (0.0) | (100.0) | (20.4) | (66.5) | (5.9) | (7.2) | (0.0) | (0.0) | 100.0 | 9 |
| Sinoe | 21.2 | 76.7 | 2.1 | 0.0 | 100.0 | 14.6 | 55.7 | 25.8 | 0.8 | 3.1 | 0.0 | 100.0 | 78 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 24.6 | 63.2 | 12.1 | 0.2 | 100.0 | 10.9 | 64.8 | 15.8 | 4.4 | 4.1 | 0.0 | 100.0 | 833 |
| Elementary | 23.3 | 61.8 | 14.6 | 0.3 | 100.0 | 10.3 | 69.7 | 14.4 | 3.7 | 1.8 | 0.0 | 100.0 | 419 |
| Junior high | 21.9 | 70.1 | 7.4 | 0.5 | 100.0 | 6.9 | 68.1 | 11.2 | 10.3 | 3.5 | 0.0 | 100.0 | 280 |
| Senior high | 35.7 | 56.2 | 8.1 | 0.0 | 100.0 | 11.0 | 68.1 | 5.8 | 8.7 | 6.4 | 0.0 | 100.0 | 434 |
| Higher | 23.5 | 67.7 | 8.8 | 0.0 | 100.0 | 18.0 | 64.3 | 10.2 | 7.5 | 0.0 | 0.0 | 100.0 | 107 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 24.0 | 61.6 | 13.9 | 0.4 | 100.0 | 7.3 | 62.2 | 22.2 | 5.6 | 2.7 | 0.0 | 100.0 | 339 |
| Second | 20.4 | 68.8 | 10.3 | 0.5 | 100.0 | 8.0 | 61.4 | 20.4 | 3.8 | 6.5 | 0.0 | 100.0 | 388 |
| Middle | 22.3 | 65.6 | 11.8 | 0.3 | 100.0 | 11.6 | 69.3 | 11.5 | 3.1 | 4.5 | 0.0 | 100.0 | 349 |
| Fourth | 30.9 | 60.4 | 8.7 | 0.1 | 100.0 | 12.3 | 68.7 | 6.8 | 8.8 | 3.4 | 0.0 | 100.0 | 490 |
| Highest | 30.4 | 58.5 | 11.1 | 0.0 | 100.0 | 12.6 | 70.9 | 6.3 | 7.8 | 2.5 | 0.0 | 100.0 | 507 |
| Total | 26.2 | 62.6 | 10.9 | 0.2 | 100.0 | 10.6 | 66.9 | 12.5 | 6.1 | 3.8 | 0.0 | 100.0 | 2,073 |

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

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 the husband's cash earnings are used, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Men |  |  |  |  |  | Women |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Husband and wife jointly | Mainly husband | Other | Total | Number | Mainly wife | Husband and wife jointly | Mainly husband | Other | Total | Number |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | * | * | * | * | 100.0 | 6 | 9.9 | 55.3 | 33.7 | 1.0 | 100.0 | 190 |
| 20-24 | 18.2 | 40.0 | 41.7 | 0.0 | 100.0 | 105 | 12.7 | 59.2 | 27.7 | 0.4 | 100.0 | 596 |
| 25-29 | 16.0 | 54.4 | 29.4 | 0.2 | 100.0 | 238 | 13.0 | 62.8 | 24.1 | 0.1 | 100.0 | 758 |
| 30-34 | 15.2 | 53.7 | 30.6 | 0.6 | 100.0 | 297 | 15.2 | 61.2 | 23.6 | 0.0 | 100.0 | 779 |
| 35-39 | 13.1 | 56.0 | 30.9 | 0.0 | 100.0 | 330 | 12.2 | 66.5 | 21.3 | 0.0 | 100.0 | 734 |
| 40-44 | 15.8 | 63.5 | 20.7 | 0.0 | 100.0 | 264 | 11.1 | 66.2 | 22.7 | 0.0 | 100.0 | 523 |
| 45-49 | 12.9 | 65.0 | 22.1 | 0.0 | 100.0 | 227 | 10.6 | 68.7 | 20.7 | 0.0 | 100.0 | 415 |
| Number of living children |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 26.9 | 38.3 | 34.8 | 0.0 | 100.0 | 83 | 13.3 | 56.3 | 28.8 | 1.6 | 100.0 | 239 |
| 1-2 | 16.2 | 44.7 | 38.8 | 0.3 | 100.0 | 507 | 14.7 | 59.1 | 26.1 | 0.1 | 100.0 | 1,432 |
| 3-4 | 14.1 | 58.8 | 27.0 | 0.1 | 100.0 | 491 | 13.0 | 65.2 | 21.8 | 0.0 | 100.0 | 1,272 |
| 5+ | 11.2 | 74.0 | 14.6 | 0.3 | 100.0 | 387 | 9.1 | 68.5 | 22.5 | 0.0 | 100.0 | 1,052 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 17.5 | 47.3 | 35.2 | 0.1 | 100.0 | 844 | 13.6 | 61.4 | 24.8 | 0.1 | 100.0 | 2,143 |
| Greater Monrovia | 22.0 | 32.3 | 45.7 | 0.0 | 100.0 | 545 | 18.4 | 55.4 | 26.0 | 0.3 | 100.0 | 1,056 |
| Other urban | 9.2 | 74.6 | 16.0 | 0.2 | 100.0 | 299 | 9.0 | 67.3 | 23.7 | 0.0 | 100.0 | 1,087 |
| Rural | 11.1 | 69.7 | 18.8 | 0.4 | 100.0 | 623 | 11.4 | 65.6 | 22.9 | 0.1 | 100.0 | 1,851 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 4.3 | 70.5 | 25.2 | 0.0 | 100.0 | 132 | 9.9 | 55.7 | 34.4 | 0.0 | 100.0 | 371 |
| South Central | 18.1 | 44.4 | 37.4 | 0.1 | 100.0 | 773 | 15.9 | 60.5 | 23.4 | 0.2 | 100.0 | 1,698 |
| South Eastern A | 5.9 | 78.3 | 15.0 | 0.9 | 100.0 | 112 | 6.0 | 79.0 | 14.6 | 0.4 | 100.0 | 293 |
| South Eastern B | 25.0 | 55.2 | 19.0 | 0.8 | 100.0 | 80 | 9.3 | 53.9 | 36.6 | 0.2 | 100.0 | 238 |
| North Central | 12.0 | 71.6 | 16.2 | 0.3 | 100.0 | 370 | 11.2 | 67.2 | 21.5 | 0.1 | 100.0 | 1,395 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 5.5 | 64.1 | 30.4 | 0.0 | 100.0 | 61 | 10.0 | 69.6 | 20.4 | 0.0 | 100.0 | 142 |
| Bong | 23.1 | 60.9 | 16.0 | 0.0 | 100.0 | 111 | 16.8 | 63.8 | 19.2 | 0.2 | 100.0 | 397 |
| Gbarpolu | 2.6 | 81.4 | 16.0 | 0.0 | 100.0 | 29 | 6.3 | 57.5 | 36.2 | 0.0 | 100.0 | 74 |
| Grand Bassa | 15.1 | 56.7 | 27.4 | 0.8 | 100.0 | 69 | 12.3 | 66.9 | 20.8 | 0.0 | 100.0 | 252 |
| Grand Cape Mount | 3.6 | 72.3 | 24.0 | 0.0 | 100.0 | 42 | 11.7 | 42.1 | 46.2 | 0.0 | 100.0 | 156 |
| Grand Gedeh | 6.0 | 66.4 | 27.5 | 0.0 | 100.0 | 32 | 5.2 | 81.1 | 12.7 | 1.0 | 100.0 | 115 |
| Grand Kru | 37.3 | 42.1 | 20.6 | 0.0 | 100.0 | 31 | 7.8 | 45.9 | 46.4 | 0.0 | 100.0 | 72 |
| Lofa | 3.8 | 67.6 | 28.5 | 0.0 | 100.0 | 93 | 8.3 | 62.1 | 29.5 | 0.0 | 100.0 | 335 |
| Margibi | 10.2 | 77.2 | 12.6 | 0.0 | 100.0 | 93 | 7.2 | 72.6 | 20.2 | 0.0 | 100.0 | 236 |
| Maryland | 2.8 | 82.3 | 14.8 | 0.0 | 100.0 | 30 | 8.0 | 52.0 | 39.9 | 0.2 | 100.0 | 110 |
| Montserrado | 19.7 | 38.0 | 42.3 | 0.0 | 100.0 | 611 | 18.4 | 56.8 | 24.6 | 0.2 | 100.0 | 1,210 |
| Nimba | 9.0 | 80.9 | 9.5 | 0.6 | 100.0 | 166 | 9.3 | 71.8 | 18.9 | 0.0 | 100.0 | 664 |
| River Cess | 6.6 | 83.5 | 8.2 | 1.7 | 100.0 | 25 | 6.6 | 80.3 | 13.1 | 0.0 | 100.0 | 64 |
| River Gee | 39.3 | 35.0 | 22.6 | 3.2 | 100.0 | 19 | 13.8 | 68.0 | 17.5 | 0.7 | 100.0 | 55 |
| Sinoe | 5.4 | 82.7 | 10.9 | 1.0 | 100.0 | 55 | 6.5 | 76.1 | 17.4 | 0.0 | 100.0 | 113 |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 13.6 | 58.1 | 28.3 | 0.0 | 100.0 | 249 | 11.1 | 62.9 | 26.0 | 0.0 | 100.0 | 1,738 |
| Elementary | 11.3 | 59.5 | 28.9 | 0.2 | 100.0 | 246 | 11.0 | 64.9 | 23.9 | 0.2 | 100.0 | 899 |
| Junior high | 12.2 | 58.1 | 28.6 | 1.1 | 100.0 | 224 | 17.0 | 63.6 | 19.4 | 0.0 | 100.0 | 544 |
| Senior high | 19.9 | 50.5 | 29.5 | 0.0 | 100.0 | 546 | 15.2 | 61.7 | 22.6 | 0.5 | 100.0 | 638 |
| Higher | 9.3 | 67.4 | 23.3 | 0.0 | 100.0 | 203 | 12.0 | 65.3 | 22.7 | 0.0 | 100.0 | 175 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 12.0 | 71.5 | 16.1 | 0.4 | 100.0 | 248 | 11.0 | 65.5 | 23.4 | 0.1 | 100.0 | 888 |
| Second | 11.8 | 68.3 | 19.7 | 0.2 | 100.0 | 266 | 11.3 | 65.6 | 22.8 | 0.2 | 100.0 | 859 |
| Middle | 16.5 | 64.7 | 18.6 | 0.3 | 100.0 | 264 | 11.3 | 64.7 | 24.1 | 0.0 | 100.0 | 774 |
| Fourth | 12.6 | 47.6 | 39.7 | 0.0 | 100.0 | 323 | 14.4 | 59.6 | 26.0 | 0.0 | 100.0 | 735 |
| Highest | 19.5 | 40.9 | 39.4 | 0.2 | 100.0 | 367 | 15.5 | 60.4 | 23.8 | 0.4 | 100.0 | 739 |
| Total 15-49 | 14.8 | 56.8 | 28.2 | 0.2 | 100.0 | 1,467 | 12.6 | 63.3 | 23.9 | 0.1 | 100.0 | 3,995 |
| 50-59 | 13.5 | 64.2 | 22.3 | 0.0 | 100.0 | 258 | na | na | na | na | na | na |
| Total 15-59 | 14.6 | 57.9 | 27.3 | 0.2 | 100.0 | 1,725 | na | na | na | na | na | na |

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ Not applicable

## Table 15.3 Women's control over their own earnings and over those of their husbands

Percent distribution of currently married women age 15-49 with cash earnings in the last 12 months by person who decides how the wife's cash earnings are used and percent distribution of currently married women age 15-49 whose husbands have cash earnings by person who decides how the husband's cash earnings are used, according to the relation between wife's and husband's cash earnings, Liberia DHS 2019-20

| Woman's earnings relative to husband's earnings | Person who decides how the wife's cash earnings are used: |  |  |  | Total | Number of women | Person who decides how husband's cash earnings are used: |  |  |  | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mainly wife | Wife and husband jointly | Mainly husband | Other |  |  | Mainly wife | Wife and husband jointly | Mainly husband | Other |  |  |
| More than husband | 32.9 | 59.8 | 7.3 | 0.0 | 100.0 | 220 | 17.2 | 64.9 | 17.9 | 0.0 | 100.0 | 220 |
| Less than husband | 27.0 | 60.4 | 12.3 | 0.3 | 100.0 | 1,387 | 13.3 | 66.1 | 20.6 | 0.0 | 100.0 | 1,387 |
| Same as husband | 8.4 | 80.3 | 10.9 | 0.3 | 100.0 | 259 | 4.3 | 84.1 | 11.6 | 0.0 | 100.0 | 259 |
| Husband has no cash earnings or did not work | 24.5 | 69.1 | 6.4 | 0.0 | 100.0 | 127 | na | na | na | na | na | 0 |
| Woman worked but has no cash earnings | na | na | na | na | na | 0 | 13.8 | 65.9 | 20.3 | 0.1 | 100.0 | 1,105 |
| Woman did not work | na | na | na | na | na | 0 | 11.6 | 51.9 | 36.1 | 0.4 | 100.0 | 943 |
| Total ${ }^{1}$ | 26.2 | 62.6 | 10.9 | 0.2 | 100.0 | 2,073 | 12.6 | 63.3 | 23.9 | 0.1 | 100.0 | 3,995 |

## na $=$ Not applicable

${ }^{1}$ Includes cases where a woman does not know whether she earned more or less than her husband

| Table 15.4.1 Ownership of assets: Women |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent distribution of women age 15-49 by ownership of housing and land, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |  |  |  |  |  |
|  | Percentage who own a house: |  |  |  |  | Percentage who own land: |  |  |  | Total | Number |
| Background characteristic | Alone | Jointly | Alone and jointly | Percentage who do not own a house | Total | Alone | Jointly | Alone and jointly | Percentage who do not own land |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.6 | 2.5 | 0.2 | 96.7 | 100.0 | 0.2 | 1.4 | 0.0 | 98.3 | 100.0 | 1,657 |
| 20-24 | 2.2 | 5.2 | 1.1 | 91.5 | 100.0 | 1.4 | 4.1 | 0.4 | 94.1 | 100.0 | 1,506 |
| 25-29 | 4.6 | 10.3 | 2.1 | 83.1 | 100.0 | 2.2 | 6.6 | 1.1 | 90.1 | 100.0 | 1,375 |
| 30-34 | 8.9 | 16.7 | 5.6 | 68.7 | 100.0 | 7.0 | 10.6 | 1.1 | 81.3 | 100.0 | 1,112 |
| 35-39 | 9.2 | 25.6 | 4.8 | 60.4 | 100.0 | 6.2 | 14.4 | 2.0 | 77.4 | 100.0 | 1,020 |
| 40-44 | 16.4 | 26.0 | 6.7 | 51.0 | 100.0 | 9.2 | 13.8 | 2.3 | 74.6 | 100.0 | 769 |
| 45-49 | 17.3 | 31.7 | 8.5 | 42.6 | 100.0 | 11.1 | 20.4 | 3.2 | 65.3 | 100.0 | 626 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 4.3 | 8.2 | 2.5 | 85.1 | 100.0 | 2.9 | 4.6 | 0.8 | 91.7 | 100.0 | 5,023 |
| Greater Monrovia | 2.2 | 5.0 | 1.8 | 91.0 | 100.0 | 1.8 | 2.6 | 0.5 | 95.1 | 100.0 | 2,866 |
| Other urban | 7.0 | 12.3 | 3.4 | 77.2 | 100.0 | 4.4 | 7.4 | 1.1 | 87.2 | 100.0 | 2,157 |
| Rural | 10.5 | 22.9 | 4.6 | 62.0 | 100.0 | 6.2 | 14.5 | 1.8 | 77.5 | 100.0 | 3,042 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 9.5 | 21.1 | 6.1 | 63.4 | 100.0 | 6.6 | 12.5 | 2.7 | 78.2 | 100.0 | 621 |
| South Central | 3.6 | 8.1 | 2.4 | 85.9 | 100.0 | 2.1 | 4.3 | 0.8 | 92.7 | 100.0 | 4,105 |
| South Eastern A | 10.5 | 26.9 | 2.3 | 60.3 | 100.0 | 6.0 | 16.0 | 0.8 | 77.2 | 100.0 | 458 |
| South Eastern B | 8.7 | 24.0 | 3.1 | 64.3 | 100.0 | 4.0 | 9.1 | 1.9 | 84.9 | 100.0 | 441 |
| North Central | 10.0 | 17.0 | 4.2 | 68.8 | 100.0 | 6.7 | 12.5 | 1.2 | 79.5 | 100.0 | 2,439 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 15.5 | 17.4 | 3.7 | 63.5 | 100.0 | 9.6 | 8.1 | 2.2 | 80.1 | 100.0 | 249 |
| Bong | 9.2 | 12.5 | 7.0 | 71.2 | 100.0 | 5.6 | 10.3 | 1.6 | 82.5 | 100.0 | 796 |
| Gbarpolu | 5.6 | 15.6 | 9.9 | 68.9 | 100.0 | 4.9 | 3.9 | 4.3 | 87.0 | 100.0 | 112 |
| Grand Bassa | 9.9 | 18.3 | 6.6 | 65.3 | 100.0 | 5.5 | 12.9 | 3.4 | 78.1 | 100.0 | 467 |
| Grand Cape Mount | 5.4 | 26.9 | 6.9 | 60.9 | 100.0 | 4.4 | 20.5 | 2.5 | 72.6 | 100.0 | 260 |
| Grand Gedeh | 13.7 | 20.9 | 3.8 | 61.5 | 100.0 | 8.7 | 12.0 | 1.5 | 77.8 | 100.0 | 172 |
| Grand Kru | 11.1 | 26.0 | 2.6 | 60.3 | 100.0 | 5.7 | 5.0 | 1.8 | 87.5 | 100.0 | 136 |
| Lofa | 5.9 | 24.6 | 2.8 | 66.6 | 100.0 | 5.0 | 14.5 | 0.3 | 80.2 | 100.0 | 658 |
| Margibi | 3.6 | 11.2 | 3.1 | 82.1 | 100.0 | 1.7 | 3.8 | 0.5 | 94.0 | 100.0 | 441 |
| Maryland | 5.0 | 25.3 | 2.0 | 67.7 | 100.0 | 2.9 | 9.2 | 2.4 | 85.5 | 100.0 | 215 |
| Montserrado | 2.6 | 6.2 | 1.7 | 89.5 | 100.0 | 1.7 | 3.1 | 0.5 | 94.7 | 100.0 | 3,197 |
| Nimba | 13.3 | 15.5 | 2.8 | 68.3 | 100.0 | 8.8 | 13.1 | 1.5 | 76.7 | 100.0 | 985 |
| River Cess | 14.5 | 30.6 | 3.2 | 51.8 | 100.0 | 4.0 | 9.8 | 0.6 | 85.5 | 100.0 | 104 |
| River Gee | 13.7 | 17.9 | 6.4 | 62.0 | 100.0 | 4.0 | 15.1 | 1.1 | 79.8 | 100.0 | 91 |
| Sinoe | 5.3 | 30.4 | 0.5 | 63.8 | 100.0 | 4.5 | 23.3 | 0.2 | 72.0 | 100.0 | 182 |
| Education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 11.0 | 23.1 | 5.7 | 60.2 | 100.0 | 7.0 | 14.5 | 1.8 | 76.6 | 100.0 | 2,474 |
| Elementary | 5.8 | 13.1 | 2.9 | 78.3 | 100.0 | 4.2 | 7.5 | 1.2 | 87.1 | 100.0 | 1,911 |
| Junior high | 4.0 | 8.5 | 1.3 | 86.2 | 100.0 | 1.7 | 5.6 | 0.6 | 92.2 | 100.0 | 1,445 |
| Senior high | 4.1 | 6.3 | 1.6 | 88.0 | 100.0 | 2.4 | 3.9 | 0.5 | 93.2 | 100.0 | 1,761 |
| Higher | 5.1 | 10.8 | 4.4 | 79.7 | 100.0 | 2.8 | 5.1 | 1.6 | 90.5 | 100.0 | 474 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 14.6 | 22.8 | 4.7 | 58.0 | 100.0 | 8.5 | 14.7 | 1.7 | 75.1 | 100.0 | 1,379 |
| Second | 8.7 | 21.5 | 4.4 | 65.3 | 100.0 | 6.1 | 14.0 | 2.2 | 77.7 | 100.0 | 1,431 |
| Middle | 6.5 | 13.3 | 3.1 | 77.0 | 100.0 | 4.1 | 10.2 | 1.0 | 84.6 | 100.0 | 1,517 |
| Fourth | 3.4 | 5.8 | 1.4 | 89.5 | 100.0 | 1.6 | 2.9 | 0.7 | 94.8 | 100.0 | 1,829 |
| Highest | 2.5 | 9.2 | 3.4 | 84.9 | 100.0 | 2.1 | 3.4 | 0.5 | 94.0 | 100.0 | 1,910 |
| Total | 6.6 | 13.7 | 3.3 | 76.4 | 100.0 | 4.2 | 8.4 | 1.1 | 86.3 | 100.0 | 8,065 |

Table 15.4.2 Ownership of assets: Men
Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Liberia DHS 2019-20

|  | Percentage who own a house: |  |  |  |  | Percentage who own land: |  |  |  | Total | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Alone | Jointly | Alone and jointly | Percentage who do not own a house | Total | Alone | Jointly | Alone and jointly | Percentage who do not own land |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.2 | 5.2 | 0.6 | 92.1 | 100.0 | 3.4 | 5.0 | 0.3 | 91.3 | 100.0 | 876 |
| 20-24 | 9.1 | 9.0 | 0.1 | 81.8 | 100.0 | 9.3 | 9.3 | 0.7 | 80.6 | 100.0 | 658 |
| 25-29 | 13.2 | 11.5 | 1.8 | 73.4 | 100.0 | 15.8 | 15.3 | 1.4 | 67.5 | 100.0 | 558 |
| 30-34 | 13.9 | 14.5 | 3.7 | 67.8 | 100.0 | 16.2 | 17.1 | 1.6 | 65.1 | 100.0 | 494 |
| 35-39 | 21.9 | 24.4 | 4.6 | 49.1 | 100.0 | 19.8 | 20.7 | 1.6 | 57.9 | 100.0 | 487 |
| 40-44 | 24.9 | 25.2 | 5.6 | 44.4 | 100.0 | 15.9 | 23.6 | 2.2 | 58.2 | 100.0 | 418 |
| 45-49 | 27.1 | 31.3 | 4.8 | 36.8 | 100.0 | 18.8 | 22.4 | 3.4 | 55.4 | 100.0 | 330 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 10.6 | 10.7 | 1.8 | 76.9 | 100.0 | 10.2 | 8.7 | 0.7 | 80.4 | 100.0 | 2,313 |
| Greater Monrovia | 6.4 | 9.6 | 0.9 | 83.1 | 100.0 | 4.3 | 4.7 | 0.3 | 90.8 | 100.0 | 1,368 |
| Other urban | 16.8 | 12.1 | 3.2 | 67.9 | 100.0 | 18.8 | 14.5 | 1.4 | 65.3 | 100.0 | 944 |
| Rural | 18.3 | 21.3 | 3.6 | 56.8 | 100.0 | 16.5 | 23.0 | 2.3 | 58.2 | 100.0 | 1,508 |
| Region |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 13.8 | 18.7 | 7.4 | 60.2 | 100.0 | 14.5 | 18.5 | 3.4 | 63.6 | 100.0 | 301 |
| South Central | 7.6 | 10.5 | 0.9 | 81.0 | 100.0 | 5.6 | 7.3 | 0.3 | 86.8 | 100.0 | 1,932 |
| South Eastern A | 21.2 | 18.8 | 3.1 | 56.9 | 100.0 | 16.2 | 17.2 | 0.3 | 66.4 | 100.0 | 254 |
| South Eastern B | 13.6 | 14.2 | 5.0 | 67.1 | 100.0 | 9.2 | 11.5 | 2.8 | 76.5 | 100.0 | 226 |
| North Central | 22.3 | 20.7 | 3.4 | 53.5 | 100.0 | 24.5 | 25.5 | 2.6 | 47.5 | 100.0 | 1,107 |
| County |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 11.3 | 30.3 | 3.6 | 54.8 | 100.0 | 14.5 | 36.5 | 3.6 | 45.5 | 100.0 | 118 |
| Bong | 7.9 | 18.5 | 9.9 | 63.7 | 100.0 | 9.2 | 21.0 | 6.3 | 63.6 | 100.0 | 324 |
| Gbarpolu | 27.1 | 12.3 | 13.6 | 46.9 | 100.0 | 30.1 | 5.6 | 2.8 | 61.5 | 100.0 | 53 |
| Grand Bassa | 14.3 | 12.0 | 2.0 | 71.8 | 100.0 | 14.3 | 20.6 | 0.5 | 64.6 | 100.0 | 197 |
| Grand Cape Mount | 10.6 | 10.7 | 8.2 | 70.5 | 100.0 | 8.1 | 7.5 | 3.5 | 80.9 | 100.0 | 130 |
| Grand Gedeh | 24.5 | 15.2 | 7.3 | 53.0 | 100.0 | 18.8 | 15.6 | 0.3 | 65.3 | 100.0 | 92 |
| Grand Kru | 35.3 | 8.6 | 0.0 | 56.1 | 100.0 | 15.5 | 10.4 | 0.0 | 74.0 | 100.0 | 67 |
| Lofa | 14.6 | 20.1 | 0.4 | 64.9 | 100.0 | 19.9 | 20.0 | 0.6 | 59.6 | 100.0 | 287 |
| Margibi | 7.5 | 16.0 | 0.0 | 76.5 | 100.0 | 3.3 | 9.7 | 0.0 | 86.9 | 100.0 | 209 |
| Maryland | 4.6 | 13.9 | 7.7 | 73.8 | 100.0 | 4.1 | 7.0 | 3.0 | 85.8 | 100.0 | 110 |
| Montserrado | 6.8 | 9.6 | 0.8 | 82.8 | 100.0 | 4.8 | 5.2 | 0.3 | 89.6 | 100.0 | 1,525 |
| Nimba | 36.2 | 22.5 | 1.0 | 40.2 | 100.0 | 37.1 | 31.6 | 1.3 | 30.0 | 100.0 | 496 |
| River Cess | 2.9 | 37.5 | 2.1 | 57.4 | 100.0 | 1.2 | 37.2 | 0.8 | 60.8 | 100.0 | 52 |
| River Gee | 4.5 | 22.4 | 5.9 | 67.2 | 100.0 | 11.7 | 22.8 | 6.2 | 59.3 | 100.0 | 50 |
| Sinoe | 27.2 | 12.8 | 0.0 | 60.0 | 100.0 | 21.1 | 9.0 | 0.0 | 69.9 | 100.0 | 110 |
| Education |  |  |  |  |  |  |  |  |  |  |  |
| No education | 21.4 | 16.9 | 3.9 | 57.8 | 100.0 | 17.2 | 20.2 | 2.1 | 60.5 | 100.0 | 498 |
| Elementary | 11.2 | 14.9 | 2.6 | 71.3 | 100.0 | 10.8 | 14.5 | 2.4 | 72.4 | 100.0 | 877 |
| Junior high | 16.5 | 13.1 | 1.9 | 68.5 | 100.0 | 15.7 | 15.8 | 0.6 | 67.8 | 100.0 | 738 |
| Senior high | 10.9 | 14.6 | 2.4 | 72.1 | 100.0 | 10.5 | 12.0 | 1.1 | 76.4 | 100.0 | 1,303 |
| Higher | 13.0 | 16.7 | 2.1 | 68.2 | 100.0 | 12.7 | 11.7 | 0.4 | 75.2 | 100.0 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 24.2 | 23.8 | 5.0 | 47.0 | 100.0 | 21.0 | 24.8 | 3.3 | 50.8 | 100.0 | 657 |
| Second | 19.2 | 17.7 | 3.7 | 59.4 | 100.0 | 20.5 | 23.4 | 2.4 | 53.8 | 100.0 | 663 |
| Middle | 14.2 | 17.2 | 2.1 | 66.5 | 100.0 | 12.7 | 15.9 | 1.0 | 70.4 | 100.0 | 743 |
| Fourth | 6.9 | 8.0 | 1.7 | 83.5 | 100.0 | 5.4 | 6.9 | 0.6 | 87.0 | 100.0 | 838 |
| Highest | 7.9 | 10.8 | 0.9 | 80.3 | 100.0 | 7.7 | 5.9 | 0.1 | 86.3 | 100.0 | 920 |
| Total 15-49 | 13.6 | 14.9 | 2.5 | 69.0 | 100.0 | 12.7 | 14.4 | 1.3 | 71.6 | 100.0 | 3,821 |
| 50-59 | 36.4 | 27.6 | 5.1 | 30.8 | 100.0 | 24.7 | 26.6 | 5.3 | 43.5 | 100.0 | 428 |
| Total 15-59 | 15.9 | 16.2 | 2.8 | 65.1 | 100.0 | 13.9 | 15.6 | 1.7 | 68.8 | 100.0 | 4,249 |


| Table 15.5.1 Ownership of title or deed for house: Women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Among women age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |
| House has a title or deed and: |  |  | Does not have a title or deed | $\begin{gathered} \text { Don't know/ } \\ \text { missing }{ }^{1} \\ \hline \end{gathered}$ | Total | Number who own a house ${ }^{2}$ |
| Background characteristic | Woman's name is on title or deed | Woman's name is not on title or deed |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 8.4 | 14.7 | 72.5 | 4.4 | 100.0 | 55 |
| 20-24 | 14.3 | 10.0 | 74.1 | 1.5 | 100.0 | 129 |
| 25-29 | 13.8 | 5.9 | 76.9 | 3.5 | 100.0 | 233 |
| 30-34 | 19.0 | 7.6 | 71.6 | 1.8 | 100.0 | 348 |
| 35-39 | 18.6 | 9.4 | 70.0 | 1.9 | 100.0 | 404 |
| 40-44 | 16.0 | 7.5 | 73.9 | 2.7 | 100.0 | 377 |
| 45-49 | 22.5 | 7.0 | 67.3 | 3.1 | 100.0 | 359 |
| Residence |  |  |  |  |  |  |
| Urban | 34.0 | 15.9 | 47.1 | 2.9 | 100.0 | 750 |
| Greater Monrovia | 52.4 | 25.5 | 17.6 | 4.5 | 100.0 | 259 |
| Other urban | 24.4 | 10.9 | 62.6 | 2.1 | 100.0 | 491 |
| Rural | 7.1 | 2.9 | 87.8 | 2.2 | 100.0 | 1,155 |
| Region |  |  |  |  |  |  |
| North Western | 13.3 | 4.6 | 80.0 | 2.1 | 100.0 | 228 |
| South Central | 34.0 | 14.4 | 47.7 | 3.8 | 100.0 | 577 |
| South Eastern A | 9.9 | 1.8 | 87.1 | 1.1 | 100.0 | 182 |
| South Eastern B | 17.8 | 3.5 | 76.2 | 2.5 | 100.0 | 158 |
| North Central | 8.5 | 6.6 | 82.9 | 2.0 | 100.0 | 760 |
| County |  |  |  |  |  |  |
| Bomi | 6.3 | 0.2 | 93.5 | 0.0 | 100.0 | 91 |
| Bong | 11.5 | 8.9 | 79.2 | 0.4 | 100.0 | 229 |
| Gbarpolu | 6.3 | 2.3 | 91.4 | 0.0 | 100.0 | 35 |
| Grand Bassa | 11.2 | 4.9 | 81.5 | 2.5 | 100.0 | 162 |
| Grand Cape Mount | 22.0 | 9.4 | 64.0 | 4.6 | 100.0 | 102 |
| Grand Gedeh | 11.3 | 3.4 | 85.3 | 0.0 | 100.0 | 66 |
| Grand Kru | 1.5 | 1.6 | 93.3 | 3.6 | 100.0 | 54 |
| Lofa | 6.7 | 3.1 | 88.3 | 1.8 | 100.0 | 220 |
| Margibi | 28.2 | 2.8 | 67.3 | 1.7 | 100.0 | 79 |
| Maryland | 25.6 | 1.8 | 69.7 | 2.8 | 100.0 | 69 |
| Montserrado | 46.5 | 21.7 | 26.8 | 5.0 | 100.0 | 336 |
| Nimba | 7.6 | 7.3 | 81.8 | 3.2 | 100.0 | 312 |
| River Cess | 1.5 | 0.7 | 95.9 | 1.9 | 100.0 | 50 |
| River Gee | 27.5 | 9.8 | 62.7 | 0.0 | 100.0 | 35 |
| Sinoe | 15.0 | 1.2 | 82.3 | 1.6 | 100.0 | 66 |
| Education |  |  |  |  |  |  |
| No education | 10.4 | 4.8 | 82.5 | 2.4 | 100.0 | 984 |
| Elementary | 12.3 | 6.4 | 78.3 | 3.0 | 100.0 | 415 |
| Junior high | 14.4 | 9.8 | 71.9 | 3.9 | 100.0 | 199 |
| Senior high | 34.8 | 25.7 | 37.5 | 2.0 | 100.0 | 211 |
| Higher | 85.8 | 5.5 | 8.6 | 0.0 | 100.0 | 96 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 2.6 | 2.6 | 93.1 | 1.8 | 100.0 | 580 |
| Second | 7.3 | 5.1 | 84.8 | 2.9 | 100.0 | 496 |
| Middle | 14.0 | 4.4 | 79.9 | 1.7 | 100.0 | 348 |
| Fourth | 41.9 | 20.3 | 35.1 | 2.8 | 100.0 | 193 |
| Highest | 54.7 | 20.2 | 21.1 | 4.0 | 100.0 | 288 |
| Total | 17.7 | 8.0 | 71.8 | 2.5 | 100.0 | 1,905 |
| ${ }^{1}$ Includes women who have a house with a title or deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title or deed for the house (or this information is missing) <br> ${ }^{2}$ Includes sole, joint, or sole and joint ownership |  |  |  |  |  |  |

Table 15.5.2 Ownership of title or deed for house: Men
Among men age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | House has a title or deed and: |  | Does not have a title or deed | $\begin{gathered} \text { Don’t know/ } \\ \text { missing }{ }^{1} \\ \hline \end{gathered}$ | Total | Number who own a house ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Man's name is on title or deed | Man's name is not on title or deed |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 14.4 | 8.6 | 76.1 | 0.9 | 100.0 | 70 |
| 20-24 | 5.3 | 20.0 | 73.8 | 1.0 | 100.0 | 120 |
| 25-29 | 15.3 | 8.0 | 76.7 | 0.0 | 100.0 | 148 |
| 30-34 | 15.0 | 2.9 | 82.0 | 0.1 | 100.0 | 159 |
| 35-39 | 16.3 | 6.4 | 76.9 | 0.3 | 100.0 | 248 |
| 40-44 | 30.7 | 5.7 | 63.6 | 0.0 | 100.0 | 233 |
| 45-49 | 24.2 | 5.1 | 70.7 | 0.0 | 100.0 | 209 |
| Residence |  |  |  |  |  |  |
| Urban | 33.1 | 13.0 | 53.7 | 0.3 | 100.0 | 535 |
| Greater Monrovia | 48.0 | 21.1 | 30.9 | 0.0 | 100.0 | 231 |
| Other urban | 21.7 | 6.8 | 71.0 | 0.5 | 100.0 | 303 |
| Rural | 7.4 | 2.6 | 89.8 | 0.2 | 100.0 | 651 |
| Region |  |  |  |  |  |  |
| North Western | 4.5 | 3.4 | 90.8 | 1.2 | 100.0 | 120 |
| South Central | 42.9 | 16.7 | 40.1 | 0.3 | 100.0 | 367 |
| South Eastern A | 13.2 | 3.6 | 83.0 | 0.2 | 100.0 | 109 |
| South Eastern B | 13.7 | 3.4 | 82.9 | 0.0 | 100.0 | 74 |
| North Central | 7.3 | 2.8 | 89.9 | 0.0 | 100.0 | 515 |
| County |  |  |  |  |  |  |
| Bomi | 3.4 | 3.1 | 92.2 | 1.2 | 100.0 | 53 |
| Bong | 10.2 | 0.7 | 89.1 | 0.0 | 100.0 | 118 |
| Gbarpolu | 10.4 | 4.7 | 84.9 | 0.0 | 100.0 | 28 |
| Grand Bassa | 14.5 | 4.4 | 81.1 | 0.0 | 100.0 | 56 |
| Grand Cape Mount | (1.8) | (2.9) | (93.1) | (2.2) | 100.0 | 38 |
| Grand Gedeh | 14.3 | 1.6 | 84.2 | 0.0 | 100.0 | 43 |
| Grand Kru | 11.8 | 3.7 | 84.4 | 0.0 | 100.0 | 29 |
| Lofa | 4.2 | 3.4 | 92.4 | 0.0 | 100.0 | 101 |
| Margibi | 54.4 | 18.8 | 24.6 | 2.2 | 100.0 | 49 |
| Maryland | 14.0 | 5.0 | 81.0 | 0.0 | 100.0 | 29 |
| Montserrado | 46.8 | 18.9 | 34.3 | 0.0 | 100.0 | 262 |
| Nimba | 7.2 | 3.4 | 89.4 | 0.0 | 100.0 | 296 |
| River Cess | 7.6 | 0.5 | 90.7 | 1.2 | 100.0 | 22 |
| River Gee | 16.7 | 0.0 | 83.3 | 0.0 | 100.0 | 16 |
| Sinoe | 14.9 | 7.2 | 77.9 | 0.0 | 100.0 | 44 |
| Education |  |  |  |  |  |  |
| No education | 3.8 | 2.1 | 94.0 | 0.0 | 100.0 | 210 |
| Elementary | 11.1 | 4.2 | 84.5 | 0.2 | 100.0 | 252 |
| Junior high | 11.3 | 4.4 | 83.7 | 0.5 | 100.0 | 232 |
| Senior high | 28.2 | 10.2 | 61.3 | 0.3 | 100.0 | 363 |
| Higher | 46.8 | 18.8 | 34.3 | 0.1 | 100.0 | 129 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 3.4 | 1.5 | 95.2 | 0.0 | 100.0 | 349 |
| Second | 6.0 | 3.0 | 90.7 | 0.4 | 100.0 | 269 |
| Middle | 16.3 | 9.4 | 73.7 | 0.7 | 100.0 | 249 |
| Fourth | 50.7 | 17.4 | 31.9 | 0.0 | 100.0 | 138 |
| Highest | 47.9 | 14.3 | 37.7 | 0.1 | 100.0 | 181 |
| Total 15-49 | 19.0 | 7.3 | 73.5 | 0.2 | 100.0 | 1,186 |
| 50-59 | 22.5 | 5.8 | 71.4 | 0.3 | 100.0 | 296 |
| Total 15-59 | 19.7 | 7.0 | 73.1 | 0.2 | 100.0 | 1,482 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes men who have a house with a title or deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title or deed for the house (or this information is missing)
${ }^{2}$ Includes sole, joint, or sole and joint ownership

Table 15.6.1 Ownership of title or deed for land: Women
Among women age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Land has a title or deed and: |  | Does not have a title or deed | $\begin{gathered} \text { Don't know/ } \\ \text { missing }{ }^{1} \\ \hline \end{gathered}$ | Total | Number who own land ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Woman's name is on title or deed | Woman's name is not on title or deed |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | (9.4) | (16.3) | (74.3) | (0.0) | 100.0 | 28 |
| 20-24 | 7.0 | 1.1 | 85.8 | 6.1 | 100.0 | 89 |
| 25-29 | 16.6 | 3.9 | 77.0 | 2.5 | 100.0 | 136 |
| 30-34 | 17.2 | 4.2 | 75.0 | 3.7 | 100.0 | 208 |
| 35-39 | 20.3 | 4.0 | 72.3 | 3.4 | 100.0 | 231 |
| 40-44 | 12.0 | 6.7 | 78.1 | 3.2 | 100.0 | 195 |
| 45-49 | 15.4 | 7.0 | 74.1 | 3.5 | 100.0 | 217 |
| Residence |  |  |  |  |  |  |
| Urban | 34.6 | 7.7 | 53.3 | 4.4 | 100.0 | 418 |
| Greater Monrovia | (75.7) | (6.8) | (14.9) | (2.6) | 100.0 | 141 |
| Other urban | 13.6 | 8.1 | 73.0 | 5.4 | 100.0 | 277 |
| Rural | 3.9 | 3.7 | 89.6 | 2.9 | 100.0 | 686 |
| Region |  |  |  |  |  |  |
| North Western | 5.4 | 4.8 | 86.6 | 3.1 | 100.0 | 135 |
| South Central | 42.2 | 6.7 | 47.3 | 3.8 | 100.0 | 298 |
| South Eastern A | 7.8 | 1.3 | 90.2 | 0.8 | 100.0 | 104 |
| South Eastern B | 10.2 | 1.8 | 87.2 | 0.8 | 100.0 | 67 |
| North Central | 4.6 | 5.6 | 85.5 | 4.2 | 100.0 | 499 |
| County |  |  |  |  |  |  |
| Bomi | 11.5 | 2.0 | 83.0 | 3.5 | 100.0 | 50 |
| Bong | 6.8 | 9.9 | 82.6 | 0.6 | 100.0 | 139 |
| Gbarpolu | (5.3) | (2.6) | (92.1) | (0.0) | 100.0 | 15 |
| Grand Bassa | 3.8 | 1.4 | 92.0 | 2.8 | 100.0 | 102 |
| Grand Cape Mount | 1.1 | 7.3 | 88.1 | 3.5 | 100.0 | 71 |
| Grand Gedeh | 6.7 | 3.0 | 89.0 | 1.3 | 100.0 | 38 |
| Grand Kru | 4.4 | 2.5 | 92.6 | 0.5 | 100.0 | 17 |
| Lofa | 6.8 | 1.9 | 88.4 | 2.9 | 100.0 | 130 |
| Margibi | (40.9) | (6.2) | (52.9) | (0.0) | 100.0 | 26 |
| Maryland | 9.1 | 0.0 | 90.8 | 0.1 | 100.0 | 31 |
| Montserrado | 65.5 | 9.9 | 19.6 | 5.1 | 100.0 | 170 |
| Nimba | 2.0 | 5.2 | 85.7 | 7.2 | 100.0 | 230 |
| River Cess | (0.0) | (1.3) | (98.7) | (0.0) | 100.0 | 15 |
| River Gee | 17.3 | 4.4 | 76.1 | 2.2 | 100.0 | 18 |
| Sinoe | 10.9 | 0.0 | 88.5 | 0.6 | 100.0 | 51 |
| Education |  |  |  |  |  |  |
| No education | 5.4 | 4.7 | 86.1 | 3.9 | 100.0 | 578 |
| Elementary | 11.2 | 5.9 | 77.4 | 5.4 | 100.0 | 247 |
| Junior high | 9.3 | 8.9 | 81.8 | 0.0 | 100.0 | 113 |
| Senior high | 54.4 | 2.9 | 40.7 | 2.0 | 100.0 | 120 |
| Higher | (80.0) | (4.3) | (15.7) | (0.0) | 100.0 | 45 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 1.6 | 4.7 | 90.8 | 2.9 | 100.0 | 343 |
| Second | 4.4 | 3.3 | 88.6 | 3.7 | 100.0 | 319 |
| Middle | 8.6 | 6.7 | 80.0 | 4.7 | 100.0 | 233 |
| Fourth | 37.8 | 13.1 | 43.0 | 6.1 | 100.0 | 94 |
| Highest | 83.3 | 2.1 | 14.6 | 0.0 | 100.0 | 115 |
| Total | 15.5 | 5.2 | 75.9 | 3.5 | 100.0 | 1,104 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes women who have land with a title or deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title or deed for the land (or this information is missing)
${ }^{2}$ Includes sole, joint, or sole and joint ownership

Table 15.6.2 Ownership of title or deed for land: Men
Among men age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Land has a title or deed and: |  | Does not have a title or deed | Don't know/ missing ${ }^{1}$ | Total | Number who own land ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Man's name is on title or deed | Man's name is not on title or deed |  |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 7.4 | 1.6 | 86.8 | 4.2 | 100.0 | 76 |
| 20-24 | 7.5 | 1.7 | 90.7 | 0.1 | 100.0 | 127 |
| 25-29 | 21.8 | 6.6 | 71.6 | 0.0 | 100.0 | 181 |
| 30-34 | 14.1 | 8.3 | 74.0 | 3.6 | 100.0 | 172 |
| 35-39 | 17.2 | 7.4 | 73.9 | 1.6 | 100.0 | 205 |
| 40-44 | 17.3 | 4.3 | 78.5 | 0.0 | 100.0 | 175 |
| 45-49 | 17.2 | 5.5 | 77.3 | 0.0 | 100.0 | 147 |
| Residence |  |  |  |  |  |  |
| Urban | 27.8 | 7.6 | 63.2 | 1.5 | 100.0 | 454 |
| Greater Monrovia | (49.8) | (12.9) | (37.2) | (0.0) | 100.0 | 126 |
| Other urban | 19.3 | 5.5 | 73.2 | 2.1 | 100.0 | 328 |
| Rural | 6.9 | 4.1 | 88.0 | 1.0 | 100.0 | 630 |
| Region |  |  |  |  |  |  |
| North Western | 1.5 | 0.4 | 95.8 | 2.3 | 100.0 | 110 |
| South Central | 40.9 | 11.6 | 46.8 | 0.6 | 100.0 | 255 |
| South Eastern A | 13.6 | 2.6 | 83.8 | 0.0 | 100.0 | 85 |
| South Eastern B | 14.6 | 3.0 | 82.0 | 0.5 | 100.0 | 53 |
| North Central | 7.6 | 4.5 | 86.4 | 1.4 | 100.0 | 581 |
| County |  |  |  |  |  |  |
| Bomi | 0.0 | 0.8 | 95.3 | 3.9 | 100.0 | 64 |
| Bong | 7.3 | 7.2 | 83.7 | 1.9 | 100.0 | 118 |
| Gbarpolu | 8.0 | 0.0 | 92.0 | 0.0 | 100.0 | 20 |
| Grand Bassa | 17.4 | 9.3 | 73.3 | 0.0 | 100.0 | 70 |
| Grand Cape Mount | (0.0) | (0.0) | (100.0) | (0.0) | 100.0 | 25 |
| Grand Gedeh | 8.3 | 0.0 | 91.7 | 0.0 | 100.0 | 32 |
| Grand Kru | 31.5 | 5.8 | 62.8 | 0.0 | 100.0 | 17 |
| Lofa | 8.7 | 3.3 | 88.0 | 0.0 | 100.0 | 116 |
| Margibi | (37.8) | (16.4) | (42.8) | (2.9) | 100.0 | 27 |
| Maryland | (4.3) | (0.0) | (95.7) | (0.0) | 100.0 | 16 |
| Montserrado | 51.8 | 11.8 | 35.8 | 0.5 | 100.0 | 158 |
| Nimba | 7.4 | 4.0 | 86.8 | 1.8 | 100.0 | 347 |
| River Cess | 9.1 | 0.0 | 90.9 | 0.0 | 100.0 | 20 |
| River Gee | 8.0 | 2.8 | 88.0 | 1.2 | 100.0 | 20 |
| Sinoe | 21.6 | 6.7 | 71.7 | 0.0 | 100.0 | 33 |
| Education |  |  |  |  |  |  |
| No education | 6.0 | 5.6 | 87.7 | 0.7 | 100.0 | 197 |
| Elementary | 8.4 | 3.0 | 87.2 | 1.4 | 100.0 | 242 |
| Junior high | 8.0 | 4.8 | 85.5 | 1.8 | 100.0 | 237 |
| Senior high | 22.2 | 7.7 | 68.8 | 1.3 | 100.0 | 308 |
| Higher | 50.1 | 7.1 | 42.9 | 0.0 | 100.0 | 100 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 5.0 | 6.1 | 87.4 | 1.5 | 100.0 | 323 |
| Second | 5.3 | 4.0 | 89.2 | 1.4 | 100.0 | 306 |
| Middle | 14.5 | 2.3 | 81.7 | 1.5 | 100.0 | 220 |
| Fourth | 36.2 | 12.6 | 50.9 | 0.3 | 100.0 | 109 |
| Highest | 52.4 | 7.5 | 40.1 | 0.0 | 100.0 | 126 |
| Total 15-49 | 15.7 | 5.6 | 77.6 | 1.2 | 100.0 | 1,084 |
| 50-59 | 16.0 | 5.1 | 78.9 | 0.0 | 100.0 | 242 |
| Total 15-59 | 15.7 | 5.5 | 77.8 | 1.0 | 100.0 | 1,326 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes men who have land with a title or deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title or deed for the land (or this information is missing)
${ }^{2}$ Includes sole, joint, or sole and joint ownership

## Table 15.7.1 Ownership and use of bank accounts and mobile phones: Women

Percentage of women age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among women who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Have and use a bank account | Own a mobile phone | Number of women | Use mobile phone for financial transactions | Number of women who own a mobile phone |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |
| 15-19 | 2.2 | 29.0 | 1,657 | 35.6 | 480 |
| 20-24 | 10.0 | 50.3 | 1,506 | 57.4 | 758 |
| 25-29 | 14.5 | 56.6 | 1,375 | 56.4 | 778 |
| 30-34 | 19.2 | 58.6 | 1,112 | 52.0 | 651 |
| 35-39 | 16.2 | 47.8 | 1,020 | 54.9 | 488 |
| 40-44 | 14.6 | 45.0 | 769 | 49.3 | 346 |
| 45-49 | 14.2 | 42.7 | 626 | 45.0 | 267 |
| Residence |  |  |  |  |  |
| Urban | 15.6 | 61.3 | 5,023 | 54.9 | 3,081 |
| Greater Monrovia | 19.4 | 71.7 | 2,866 | 55.9 | 2,056 |
| Other urban | 10.7 | 47.5 | 2,157 | 53.0 | 1,026 |
| Rural | 6.0 | 22.6 | 3,042 | 36.2 | 688 |
| Region |  |  |  |  |  |
| North Western | 3.2 | 34.2 | 621 | 41.9 | 212 |
| South Central | 15.5 | 61.4 | 4,105 | 53.1 | 2,519 |
| South Eastern A | 7.3 | 39.6 | 458 | 42.5 | 181 |
| South Eastern B | 6.1 | 41.0 | 441 | 45.1 | 181 |
| North Central | 10.2 | 27.7 | 2,439 | 53.0 | 676 |
| County |  |  |  |  |  |
| Bomi | 2.9 | 37.9 | 249 | 48.3 | 95 |
| Bong | 6.4 | 36.7 | 796 | 58.7 | 292 |
| Gbarpolu | 1.9 | 15.8 | 112 | 31.4 | 18 |
| Grand Bassa | 5.1 | 35.8 | 467 | 44.7 | 167 |
| Grand Cape Mount | 3.9 | 38.4 | 260 | 37.7 | 100 |
| Grand Gedeh | 7.9 | 46.1 | 172 | 53.3 | 79 |
| Grand Kru | 1.4 | 33.4 | 136 | 26.7 | 45 |
| Lofa | 13.4 | 24.4 | 658 | 38.9 | 161 |
| Margibi | 5.5 | 44.7 | 441 | 34.3 | 197 |
| Maryland | 8.6 | 46.2 | 215 | 53.4 | 99 |
| Montserrado | 18.5 | 67.4 | 3,197 | 55.4 | 2,154 |
| Nimba | 11.2 | 22.7 | 985 | 55.7 | 223 |
| River Cess | 0.7 | 25.6 | 104 | 35.4 | 27 |
| River Gee | 7.4 | 40.0 | 91 | 45.4 | 36 |
| Sinoe | 10.5 | 41.4 | 182 | 33.6 | 75 |
| Education |  |  |  |  |  |
| No education | 6.9 | 29.2 | 2,474 | 33.4 | 721 |
| Elementary | 5.4 | 28.7 | 1,911 | 36.5 | 548 |
| Junior high | 6.2 | 48.8 | 1,445 | 41.9 | 705 |
| Senior high | 20.6 | 76.8 | 1,761 | 63.3 | 1,352 |
| Higher | 51.3 | 93.3 | 474 | 78.9 | 442 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 4.7 | 13.1 | 1,379 | 32.8 | 181 |
| Second | 6.2 | 24.1 | 1,431 | 31.9 | 345 |
| Middle | 8.3 | 42.1 | 1,517 | 42.1 | 638 |
| Fourth | 11.6 | 62.1 | 1,829 | 55.4 | 1,136 |
| Highest | 24.9 | 76.9 | 1,910 | 59.5 | 1,469 |
| Total | 12.0 | 46.7 | 8,065 | 51.5 | 3,769 |

Table 15.7.2 Ownership and use of bank accounts and mobile phones: Men
Percentage of men age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among men who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Have and use a bank account | Own a mobile phone | Number of men | Use mobile phone for financial transactions | Number of men who own a mobile phone |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |
| 15-19 | 5.0 | 28.9 | 876 | 30.7 | 253 |
| 20-24 | 14.0 | 66.8 | 658 | 50.8 | 440 |
| 25-29 | 23.4 | 69.1 | 558 | 56.3 | 386 |
| 30-34 | 31.8 | 74.4 | 494 | 57.0 | 367 |
| 35-39 | 33.1 | 73.1 | 487 | 55.0 | 356 |
| 40-44 | 32.2 | 70.8 | 418 | 48.0 | 296 |
| 45-49 | 28.7 | 65.8 | 330 | 46.0 | 217 |
| Residence |  |  |  |  |  |
| Urban | 27.4 | 73.0 | 2,313 | 54.8 | 1,689 |
| Greater Monrovia | 31.5 | 80.2 | 1,368 | 54.7 | 1,097 |
| Other urban | 21.5 | 62.7 | 944 | 54.9 | 592 |
| Rural | 11.9 | 41.5 | 1,508 | 38.3 | 626 |
| Region |  |  |  |  |  |
| North Western | 9.9 | 46.3 | 301 | 28.6 | 139 |
| South Central | 28.1 | 73.1 | 1,932 | 55.7 | 1,411 |
| South Eastern A | 16.0 | 48.8 | 254 | 51.5 | 124 |
| South Eastern B | 7.5 | 51.7 | 226 | 34.4 | 117 |
| North Central | 16.6 | 47.3 | 1,107 | 44.9 | 523 |
| County |  |  |  |  |  |
| Bomi | 15.5 | 49.7 | 118 | 28.3 | 58 |
| Bong | 4.8 | 47.6 | 324 | 37.7 | 154 |
| Gbarpolu | 14.3 | 38.7 | 53 | 30.3 | 21 |
| Grand Bassa | 19.9 | 50.8 | 197 | 44.0 | 100 |
| Grand Cape Mount | 3.0 | 46.4 | 130 | 28.2 | 60 |
| Grand Gedeh | 12.3 | 52.5 | 92 | 61.0 | 48 |
| Grand Kru | 8.5 | 47.0 | 67 | 31.8 | 31 |
| Lofa | 13.1 | 45.6 | 287 | 54.7 | 131 |
| Margibi | 23.3 | 60.2 | 209 | 57.9 | 126 |
| Maryland | 5.3 | 56.4 | 110 | 34.1 | 62 |
| Montserrado | 29.8 | 77.7 | 1,525 | 56.5 | 1,185 |
| Nimba | 26.3 | 48.0 | 496 | 44.2 | 238 |
| River Cess | 4.0 | 38.4 | 52 | 26.5 | 20 |
| River Gee | 10.9 | 47.4 | 50 | 38.7 | 24 |
| Sinoe | 24.9 | 50.7 | 110 | 52.3 | 56 |
| Education |  |  |  |  |  |
| No education | 10.4 | 38.9 | 498 | 26.6 | 193 |
| Elementary | 9.1 | 31.7 | 877 | 29.5 | 278 |
| Junior high | 12.0 | 53.9 | 738 | 36.3 | 398 |
| Senior high | 24.7 | 80.7 | 1,303 | 55.3 | 1,052 |
| Higher | 67.2 | 97.3 | 405 | 77.6 | 394 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 8.7 | 27.4 | 657 | 25.1 | 180 |
| Second | 14.4 | 45.9 | 663 | 40.4 | 304 |
| Middle | 13.0 | 57.0 | 743 | 48.2 | 423 |
| Fourth | 21.2 | 74.0 | 838 | 47.0 | 620 |
| Highest | 42.1 | 85.6 | 920 | 63.7 | 788 |
| Total 15-49 | 21.3 | 60.6 | 3,821 | 50.3 | 2,315 |
| 50-59 | 27.1 | 65.7 | 428 | 42.1 | 281 |
| Total 15-59 | 21.9 | 61.1 | 4,249 | 49.4 | 2,596 |

Table 15.8 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, Liberia DHS 2019-20

| Decision | Mainly wife | Wife and husband jointly | Mainly husband | Someone else | Other | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WOMEN |  |  |  |  |  |  |  |
| Own health care | 20.0 | 58.1 | 21.7 | 0.3 | 0.0 | 100.0 | 4,216 |
| Major household purchases | 28.1 | 51.6 | 19.7 | 0.5 | 0.1 | 100.0 | 4,216 |
| Visits to her family or relatives | 21.7 | 58.6 | 19.2 | 0.4 | 0.0 | 100.0 | 4,216 |
| MEN |  |  |  |  |  |  |  |
| Own health care | 22.2 | 37.3 | 37.2 | 2.8 | 0.4 | 100.0 | 1,906 |
| Major household purchases | 32.4 | 34.1 | 32.5 | 1.0 | 0.0 | 100.0 | 1,906 |

Table 15.9.1 Women's participation in decision making according to 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, Liberia DHS 2019-20

| Background characteristic | Specific decisions |  |  | All three decisions | None of the three decisions | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Woman's own health care | Making major household purchases | Visits to her family or relatives |  |  |  |
| Age |  |  |  |  |  |  |
| 15-19 | 63.4 | 62.9 | 67.9 | 53.0 | 24.7 | 204 |
| 20-24 | 73.3 | 73.8 | 74.9 | 64.9 | 17.3 | 625 |
| 25-29 | 77.4 | 79.2 | 81.8 | 68.3 | 10.0 | 788 |
| 30-34 | 77.9 | 79.0 | 78.8 | 68.3 | 12.7 | 819 |
| 35-39 | 78.8 | 81.1 | 80.9 | 68.6 | 9.7 | 785 |
| 40-44 | 84.2 | 86.1 | 85.9 | 75.6 | 7.2 | 545 |
| 45-49 | 83.9 | 87.2 | 86.0 | 77.1 | 7.9 | 449 |
| Employment (past 12 months) |  |  |  |  |  |  |
| Not employed | 67.5 | 66.6 | 71.0 | 56.1 | 20.0 | 1,014 |
| Employed for cash | 81.4 | 84.0 | 83.7 | 71.9 | 7.7 | 2,073 |
| Employed not for cash | 81.3 | 83.6 | 82.7 | 75.3 | 11.6 | 1,129 |
| Number of living children |  |  |  |  |  |  |
| 0 | 70.7 | 70.6 | 66.1 | 57.7 | 20.5 | 249 |
| 1-2 | 76.1 | 77.6 | 79.0 | 66.6 | 11.8 | 1,503 |
| 3-4 | 80.0 | 81.5 | 82.3 | 70.9 | 10.4 | 1,369 |
| $5+$ | 79.9 | 82.3 | 82.9 | 72.5 | 11.1 | 1,094 |
| Residence |  |  |  |  |  |  |
| Urban | 76.7 | 78.9 | 79.1 | 68.2 | 12.8 | 2,268 |
| Greater Monrovia | 76.9 | 80.6 | 79.0 | 68.8 | 12.4 | 1,150 |
| Other urban | 76.5 | 77.1 | 79.1 | 67.7 | 13.2 | 1,118 |
| Rural | 79.6 | 80.6 | 81.8 | 69.9 | 10.5 | 1,947 |
| Region |  |  |  |  |  |  |
| North Western | 77.8 | 76.9 | 73.0 | 59.8 | 10.5 | 400 |
| South Central | 78.6 | 80.8 | 81.4 | 69.8 | 11.0 | 1,801 |
| South Eastern A | 86.4 | 89.7 | 88.6 | 78.8 | 4.3 | 296 |
| South Eastern B | 75.9 | 78.6 | 81.5 | 65.8 | 11.0 | 254 |
| North Central | 76.1 | 77.2 | 79.2 | 69.1 | 14.5 | 1,464 |
| County |  |  |  |  |  |  |
| Bomi | 84.8 | 88.1 | 77.4 | 70.7 | 5.9 | 148 |
| Bong | 85.4 | 85.2 | 87.2 | 77.2 | 5.8 | 411 |
| Gbarpolu | 77.4 | 73.5 | 74.1 | 59.0 | 10.9 | 80 |
| Grand Bassa | 82.6 | 83.9 | 86.2 | 73.9 | 9.1 | 253 |
| Grand Cape Mount | 71.8 | 68.9 | 68.7 | 50.7 | 14.4 | 172 |
| Grand Gedeh | 85.7 | 87.0 | 86.0 | 74.8 | 5.2 | 116 |
| Grand Kru | 62.2 | 66.7 | 72.6 | 59.1 | 25.3 | 79 |
| Lofa | 66.8 | 70.0 | 68.7 | 60.8 | 25.0 | 380 |
| Margibi | 79.9 | 84.7 | 85.3 | 74.8 | 8.6 | 239 |
| Maryland | 77.8 | 80.3 | 82.7 | 62.1 | 6.0 | 120 |
| Montserrado | 77.6 | 79.5 | 79.8 | 68.1 | 11.9 | 1,309 |
| Nimba | 75.6 | 76.4 | 80.1 | 68.8 | 13.9 | 673 |
| River Cess | 90.3 | 91.7 | 85.0 | 83.0 | 6.1 | 66 |
| River Gee | 91.4 | 92.1 | 91.7 | 83.1 | 1.2 | 56 |
| Sinoe | 84.7 | 91.1 | 93.2 | 80.3 | 2.3 | 114 |
| Education |  |  |  |  |  |  |
| No education | 77.2 | 78.4 | 79.3 | 69.0 | 14.0 | 1,814 |
| Elementary | 74.7 | 76.1 | 79.7 | 66.0 | 13.5 | 935 |
| Junior high | 76.5 | 79.5 | 77.9 | 64.9 | 10.7 | 586 |
| Senior high | 83.2 | 84.2 | 83.2 | 72.0 | 5.7 | 697 |
| Higher | 88.6 | 93.8 | 91.1 | 85.9 | 5.8 | 184 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 77.8 | 79.5 | 82.1 | 69.0 | 11.5 | 930 |
| Second | 76.2 | 78.7 | 79.6 | 67.1 | 12.8 | 903 |
| Middle | 80.3 | 76.0 | 78.2 | 69.2 | 12.4 | 808 |
| Fourth | 79.3 | 81.6 | 81.8 | 69.6 | 9.5 | 783 |
| Highest | 76.8 | 82.6 | 79.9 | 70.3 | 12.3 | 792 |
| Total | 78.0 | 79.7 | 80.3 | 69.0 | 11.7 | 4,216 |


| Percentage of currently married men age 15-49 who usually make specific decisions either alone or jointly with their wife, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Specific decisions |  |  |  | Neither of the two decisions | Number of men |
| Background characteristic | Man's own health | Making major household purchases | Both decisions |  |  |
| Age |  |  |  |  |  |
| 15-19 | * | * | * | * | 12 |
| 20-24 | 65.3 | 68.2 | 53.8 | 20.3 | 141 |
| 25-29 | 67.8 | 68.5 | 51.7 | 15.4 | 308 |
| 30-34 | 76.1 | 66.1 | 58.0 | 15.9 | 367 |
| 35-39 | 75.1 | 67.9 | 56.1 | 13.0 | 429 |
| 40-44 | 77.1 | 70.1 | 61.7 | 14.5 | 357 |
| 45-49 | 79.6 | 57.9 | 51.2 | 13.7 | 293 |
| Employment (past 12 months) |  |  |  |  |  |
| Not employed | 77.1 | 74.9 | 70.6 | 18.6 | 59 |
| Employed for cash | 78.8 | 64.7 | 57.5 | 13.9 | 1,467 |
| Employed not for cash | 57.3 | 72.5 | 47.6 | 17.8 | 379 |
| Number of living children |  |  |  |  |  |
| 0 | 69.2 | 56.0 | 50.2 | 24.9 | 112 |
| 1-2 | 73.3 | 66.2 | 54.3 | 14.9 | 622 |
| 3-4 | 76.2 | 68.5 | 59.6 | 14.9 | 611 |
| 5+ | 74.9 | 67.2 | 54.8 | 12.8 | 560 |
| Residence |  |  |  |  |  |
| Urban | 77.5 | 66.5 | 59.0 | 14.9 | 1,004 |
| Greater Monrovia | 79.9 | 64.0 | 62.7 | 18.7 | 583 |
| Other urban | 74.2 | 70.1 | 53.8 | 9.6 | 422 |
| Rural | 71.1 | 66.6 | 52.6 | 14.8 | 901 |
| Region |  |  |  |  |  |
| North Western | 90.0 | 75.2 | 71.8 | 6.7 | 175 |
| South Central | 80.5 | 62.5 | 58.5 | 15.5 | 878 |
| South Eastern A | 77.3 | 67.7 | 55.0 | 9.9 | 148 |
| South Eastern B | 71.3 | 52.9 | 47.9 | 23.7 | 109 |
| North Central | 60.9 | 72.4 | 49.2 | 15.9 | 596 |
| County |  |  |  |  |  |
| Bomi | 89.0 | 58.2 | 57.2 | 10.0 | 63 |
| Bong | 56.1 | 51.9 | 49.6 | 41.7 | 169 |
| Gbarpolu | 93.5 | 95.7 | 93.0 | 3.8 | 37 |
| Grand Bassa | 66.1 | 72.6 | 51.8 | 13.1 | 111 |
| Grand Cape Mount | 89.1 | 79.3 | 73.6 | 5.3 | 75 |
| Grand Gedeh | 76.9 | 80.6 | 67.1 | 9.6 | 55 |
| Grand Kru | 64.8 | 51.2 | 47.8 | 31.7 | 37 |
| Lofa | 66.9 | 77.2 | 49.4 | 5.3 | 154 |
| Margibi | 88.4 | 51.8 | 48.1 | 8.0 | 106 |
| Maryland | 82.7 | 53.8 | 47.1 | 10.6 | 47 |
| Montserrado | 81.7 | 62.5 | 61.3 | 17.1 | 662 |
| Nimba | 60.5 | 82.4 | 48.8 | 6.0 | 273 |
| River Cess | 76.7 | 14.3 | 11.9 | 20.9 | 27 |
| River Gee | 59.4 | 53.8 | 49.5 | 36.3 | 25 |
| Sinoe | 78.0 | 78.8 | 62.4 | 5.6 | 66 |
| Education |  |  |  |  |  |
| No education | 66.8 | 65.1 | 50.6 | 18.7 | 343 |
| Elementary | 71.1 | 73.7 | 59.9 | 15.0 | 349 |
| Junior high | 73.4 | 65.7 | 53.0 | 14.0 | 298 |
| Senior high | 75.5 | 66.4 | 57.1 | 15.2 | 687 |
| Higher | 89.4 | 59.7 | 58.1 | 9.0 | 229 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 66.4 | 68.4 | 52.1 | 17.4 | 417 |
| Second | 67.1 | 68.0 | 49.1 | 14.0 | 397 |
| Middle | 77.4 | 67.3 | 57.9 | 13.1 | 335 |
| Fourth | 83.5 | 67.3 | 62.4 | 11.7 | 362 |
| Highest | 79.7 | 62.0 | 59.3 | 17.5 | 395 |
| Total 15-49 | 74.5 | 66.6 | 55.9 | 14.9 | 1,906 |
| 50-59 | 74.6 | 65.9 | 54.9 | 14.5 | 358 |
| Total 15-59 | 74.5 | 66.5 | 55.8 | 14.8 | 2,264 |
| Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. |  |  |  |  |  |

Table 15.10.1 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, Liberia DHS 2019-20

| Background characteristic | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Burns the food | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 13.5 | 36.5 | 29.4 | 33.8 | 11.6 | 45.3 | 1,657 |
| 20-24 | 11.7 | 30.4 | 23.4 | 27.2 | 9.0 | 37.8 | 1,506 |
| 25-29 | 5.6 | 23.9 | 17.9 | 21.3 | 8.6 | 31.6 | 1,375 |
| 30-34 | 6.5 | 24.5 | 19.5 | 23.2 | 7.3 | 32.3 | 1,112 |
| 35-39 | 10.6 | 28.9 | 25.2 | 29.8 | 12.7 | 38.5 | 1,020 |
| 40-44 | 9.2 | 24.7 | 19.6 | 21.4 | 9.4 | 33.4 | 769 |
| 45-49 | 9.3 | 27.1 | 24.7 | 25.5 | 10.4 | 35.6 | 626 |
| Employment (past 12 months) |  |  |  |  |  |  |  |
| Not employed | 9.2 | 26.4 | 20.4 | 24.1 | 8.1 | 33.3 | 2,881 |
| Employed for cash | 6.8 | 26.6 | 20.6 | 25.6 | 8.0 | 34.6 | 3,414 |
| Employed not for cash | 16.3 | 36.7 | 32.6 | 32.9 | 16.3 | 47.8 | 1,770 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 11.4 | 31.0 | 24.0 | 26.9 | 9.0 | 38.4 | 1,916 |
| 1-2 | 7.7 | 26.0 | 19.7 | 23.6 | 8.4 | 33.0 | 3,023 |
| 3-4 | 9.8 | 28.9 | 25.2 | 28.8 | 10.2 | 38.8 | 1,832 |
| 5+ | 11.8 | 31.5 | 27.1 | 30.3 | 14.1 | 41.8 | 1,294 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 9.1 | 26.4 | 20.3 | 23.5 | 7.6 | 33.3 | 3,129 |
| Married or living together | 9.9 | 30.3 | 25.2 | 28.8 | 11.4 | 39.5 | 4,216 |
| Divorced/separated/ widowed | 11.2 | 30.2 | 23.8 | 27.5 | 10.5 | 38.5 | 721 |
| Residence |  |  |  |  |  |  |  |
| Urban | 7.6 | 25.1 | 19.3 | 22.6 | 8.5 | 31.6 | 5,023 |
| Greater Monrovia | 5.0 | 18.0 | 12.9 | 16.4 | 6.3 | 22.0 | 2,866 |
| Other urban | 11.1 | 34.4 | 27.8 | 31.0 | 11.4 | 44.2 | 2,157 |
| Rural | 13.2 | 34.8 | 29.5 | 33.2 | 12.1 | 46.1 | 3,042 |
| Region |  |  |  |  |  |  |  |
| North Western | 6.6 | 24.8 | 19.3 | 23.3 | 11.8 | 38.2 | 621 |
| South Central | 6.7 | 23.0 | 16.3 | 20.9 | 7.3 | 28.1 | 4,105 |
| South Eastern A | 10.8 | 33.2 | 26.8 | 32.1 | 7.9 | 42.6 | 458 |
| South Eastern B | 8.5 | 39.4 | 33.0 | 36.1 | 12.5 | 48.9 | 441 |
| North Central | 15.6 | 36.6 | 33.2 | 34.5 | 13.5 | 48.6 | 2,439 |
| County |  |  |  |  |  |  |  |
| Bomi | 5.2 | 17.7 | 12.5 | 15.2 | 7.1 | 26.9 | 249 |
| Bong | 7.3 | 40.9 | 33.2 | 39.6 | 7.8 | 51.4 | 796 |
| Gbarpolu | 10.5 | 28.6 | 28.2 | 29.4 | 10.3 | 40.0 | 112 |
| Grand Bassa | 17.1 | 49.7 | 38.3 | 47.5 | 16.1 | 60.1 | 467 |
| Grand Cape Mount | 6.2 | 30.1 | 21.9 | 28.4 | 16.9 | 48.1 | 260 |
| Grand Gedeh | 16.6 | 36.0 | 34.2 | 34.7 | 10.2 | 46.3 | 172 |
| Grand Kru | 12.6 | 53.3 | 45.0 | 45.5 | 24.8 | 56.2 | 136 |
| Lofa | 19.8 | 29.5 | 34.0 | 31.2 | 16.7 | 45.2 | 658 |
| Margibi | 7.5 | 25.5 | 12.5 | 19.5 | 5.2 | 30.2 | 441 |
| Maryland | 3.9 | 24.3 | 19.1 | 24.3 | 8.6 | 38.8 | 215 |
| Montserrado | 5.1 | 18.8 | 13.6 | 17.2 | 6.3 | 23.1 | 3,197 |
| Nimba | 19.5 | 37.8 | 32.7 | 32.5 | 16.0 | 48.6 | 985 |
| River Cess | 3.5 | 25.6 | 15.2 | 25.0 | 3.4 | 30.9 | 104 |
| River Gee | 13.3 | 54.2 | 47.9 | 49.9 | 3.5 | 61.7 | 91 |
| Sinoe | 9.5 | 34.8 | 26.5 | 33.7 | 8.2 | 45.7 | 182 |
| Education |  |  |  |  |  |  |  |
| No education | 11.0 | 31.4 | 25.7 | 29.2 | 13.7 | 40.6 | 2,474 |
| Elementary | 15.0 | 38.6 | 32.8 | 37.0 | 12.4 | 49.3 | 1,911 |
| Junior high | 10.0 | 31.9 | 25.8 | 29.1 | 8.9 | 40.6 | 1,445 |
| Senior high | 3.6 | 17.2 | 11.7 | 15.2 | 4.3 | 22.5 | 1,761 |
| Higher | 3.5 | 8.7 | 5.1 | 6.6 | 3.1 | 12.0 | 474 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 15.6 | 38.0 | 32.7 | 37.1 | 14.3 | 49.0 | 1,379 |
| Second | 13.9 | 36.2 | 31.5 | 33.2 | 12.5 | 47.4 | 1,431 |
| Middle | 11.1 | 30.6 | 26.3 | 28.1 | 11.1 | 40.4 | 1,517 |
| Fourth | 4.4 | 23.8 | 15.4 | 21.8 | 6.7 | 30.6 | 1,829 |
| Highest | 6.3 | 19.7 | 15.0 | 17.6 | 6.7 | 24.0 | 1,910 |
| Total | 9.7 | 28.7 | 23.1 | 26.6 | 9.9 | 37.0 | 8,065 |


| Table 15.10.2 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, Liberia DHS 2019-20 |  |  |  |  |  |  |  |
|  | Husband is justified in hitting or beating his wife if she: |  |  |  |  | Percentage who agree with at least one specified reason | Number |
| Background characteristic | Burns the food | Argues with him | Goes out without telling him | Neglects the children | Refuses to have sexual intercourse with him |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 7.2 | 29.6 | 19.9 | 26.3 | 8.2 | 38.8 | 876 |
| 20-24 | 5.6 | 24.1 | 17.7 | 16.8 | 5.8 | 30.5 | 658 |
| 25-29 | 2.5 | 14.5 | 11.0 | 10.5 | 4.5 | 19.9 | 558 |
| 30-34 | 3.6 | 15.1 | 6.8 | 8.8 | 4.4 | 19.8 | 494 |
| 35-39 | 4.6 | 15.0 | 11.1 | 11.2 | 2.4 | 18.8 | 487 |
| 40-44 | 2.3 | 11.7 | 9.1 | 8.1 | 1.7 | 13.8 | 418 |
| 45-49 | 3.3 | 12.7 | 7.4 | 8.3 | 4.9 | 17.8 | 330 |
| Employment (past 12 months) |  |  |  |  |  |  |  |
| Not employed | 4.4 | 18.4 | 10.6 | 16.5 | 3.4 | 24.1 | 597 |
| Employed for cash | 3.4 | 16.6 | 11.3 | 11.5 | 5.2 | 22.0 | 2,475 |
| Employed not for cash | 8.8 | 28.7 | 21.1 | 23.6 | 5.9 | 36.0 | 749 |
| Number of living children |  |  |  |  |  |  |  |
| 0 | 6.3 | 25.5 | 17.5 | 20.7 | 7.6 | 33.0 | 1,616 |
| 1-2 | 2.3 | 13.8 | 10.5 | 9.8 | 3.7 | 18.4 | 937 |
| 3-4 | 3.2 | 14.3 | 8.3 | 10.3 | 1.4 | 18.6 | 673 |
| $5+$ | 5.1 | 16.7 | 10.9 | 10.6 | 4.2 | 21.1 | 594 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 6.0 | 25.4 | 17.8 | 20.0 | 7.8 | 32.6 | 1,684 |
| Married or living together | 3.8 | 15.3 | 9.8 | 10.6 | 3.0 | 19.7 | 1,906 |
| Divorced/separated/ widowed | 1.2 | 7.8 | 7.0 | 9.0 | 1.3 | 13.7 | 231 |
| Residence |  |  |  |  |  |  |  |
| Urban | 4.1 | 19.3 | 13.2 | 14.6 | 5.5 | 24.1 | 2,313 |
| Greater Monrovia | 2.8 | 13.8 | 8.9 | 13.3 | 2.5 | 19.2 | 1,368 |
| Other urban | 6.0 | 27.3 | 19.3 | 16.6 | 9.7 | 31.3 | 944 |
| Rural | 5.3 | 19.3 | 13.1 | 14.7 | 4.3 | 26.4 | 1,508 |
| Region |  |  |  |  |  |  |  |
| North Western | 2.6 | 5.1 | 4.7 | 5.5 | 2.5 | 9.0 | 301 |
| South Central | 3.4 | 15.9 | 9.4 | 13.4 | 2.6 | 21.6 | 1,932 |
| South Eastern A | 3.5 | 17.5 | 11.3 | 12.1 | 3.2 | 23.7 | 254 |
| South Eastern B | 4.2 | 19.3 | 14.4 | 14.6 | 2.9 | 26.9 | 226 |
| North Central | 7.5 | 29.4 | 22.2 | 19.9 | 10.8 | 35.3 | 1,107 |
| County 4.6 |  |  |  |  |  |  |  |
| Bomi | 1.6 | 4.6 | 5.1 | 4.1 | 4.1 | 7.1 | 118 |
| Bong | 0.5 | 26.7 | 18.5 | 24.0 | 2.7 | 35.0 | 324 |
| Gbarpolu | 8.2 | 7.1 | 5.8 | 7.4 | 3.8 | 11.2 | 53 |
| Grand Bassa | 5.9 | 27.0 | 14.6 | 20.7 | 2.8 | 35.6 | 197 |
| Grand Cape Mount | 1.1 | 4.8 | 4.0 | 6.0 | 0.5 | 9.9 | 130 |
| Grand Gedeh | 0.4 | 8.3 | 2.7 | 3.8 | 0.7 | 9.0 | 92 |
| Grand Kru | 6.1 | 19.3 | 13.6 | 16.9 | 3.9 | 27.6 | 67 |
| Lofa | 13.1 | 27.6 | 20.9 | 23.3 | 7.8 | 33.3 | 287 |
| Margibi | 5.1 | 20.7 | 7.6 | 11.2 | 2.7 | 26.2 | 209 |
| Maryland | 2.7 | 10.7 | 11.1 | 7.5 | 2.5 | 17.4 | 110 |
| Montserrado | 2.8 | 13.9 | 8.9 | 12.7 | 2.6 | 19.1 | 1,525 |
| Nimba | 8.9 | 32.2 | 25.4 | 15.2 | 17.8 | 36.7 | 496 |
| River Cess | 2.3 | 6.9 | 8.3 | 6.8 | 2.3 | 12.0 | 52 |
| River Gee | 5.1 | 38.3 | 22.9 | 27.4 | 2.3 | 46.9 | 50 |
| Sinoe | 6.6 | 30.2 | 20.0 | 21.6 | 5.7 | 41.6 | 110 |
| Education |  |  |  |  |  |  |  |
| No education | 7.5 | 21.6 | 17.2 | 11.9 | 8.6 | 25.8 | 498 |
| Elementary | 7.5 | 30.0 | 18.8 | 22.7 | 8.8 | 37.7 | 877 |
| Junior high | 4.0 | 23.3 | 17.9 | 18.3 | 6.4 | 31.6 | 738 |
| Senior high | 3.0 | 13.6 | 8.7 | 12.1 | 1.9 | 18.5 | 1,303 |
| Higher | 0.8 | 4.1 | 1.5 | 1.9 | 0.0 | 5.7 | 405 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 6.3 | 22.9 | 19.4 | 16.5 | 8.2 | 30.6 | 657 |
| Second | 5.2 | 21.1 | 14.1 | 15.5 | 4.2 | 28.4 | 663 |
| Middle | 6.8 | 26.7 | 17.4 | 17.3 | 8.6 | 30.2 | 743 |
| Fourth | 2.5 | 13.7 | 7.6 | 10.7 | 2.0 | 18.7 | 838 |
| Highest | 3.0 | 14.5 | 9.6 | 14.1 | 3.1 | 20.2 | 920 |
| Total 15-49 | 4.6 | 19.3 | 13.2 | 14.6 | 5.0 | 25.0 | 3,821 |
| 50-59 | 1.3 | 11.3 | 5.0 | 6.0 | 1.4 | 13.6 | 428 |
| Total 15-59 | 4.3 | 18.5 | 12.3 | 13.8 | 4.6 | 23.9 | 4,249 |

Table 15.11 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, Liberia DHS 2019-20

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of women | Refusing to have sexual intercourse with her husband if she knows he has sex with other women | Asking that they use a condom if she knows that her husband has an STI | Number of men |
| Age |  |  |  |  |  |  |
| 15-24 | 69.8 | 72.7 | 3,163 | 68.5 | 80.6 | 1,533 |
| 15-19 | 63.8 | 66.5 | 1,657 | 64.5 | 71.6 | 876 |
| 20-24 | 76.3 | 79.5 | 1,506 | 73.7 | 92.6 | 658 |
| 25-29 | 77.5 | 80.3 | 1,375 | 79.1 | 94.2 | 558 |
| 30-39 | 75.0 | 79.4 | 2,132 | 74.4 | 87.8 | 981 |
| 40-49 | 71.6 | 74.5 | 1,395 | 71.8 | 88.3 | 748 |
| Marital status |  |  |  |  |  |  |
| Never married | 71.2 | 74.0 | 3,129 | 68.7 | 81.7 | 1,684 |
| Ever had sex | 77.4 | 80.9 | 2,578 | 76.4 | 93.1 | 1,164 |
| Never had sex | 42.1 | 41.8 | 551 | 51.6 | 56.5 | 520 |
| Married or living together | 73.4 | 76.5 | 4,216 | 74.4 | 88.6 | 1,906 |
| Divorced/separated/ widowed | 75.8 | 82.8 | 721 | 79.2 | 94.3 | 231 |
| Residence |  |  |  |  |  |  |
| Urban | 74.5 | 78.0 | 5,023 | 69.7 | 88.3 | 2,313 |
| Greater Monrovia | 76.2 | 78.8 | 2,866 | 68.2 | 89.8 | 1,368 |
| Other urban | 72.4 | 76.8 | 2,157 | 71.8 | 86.1 | 944 |
| Rural | 69.9 | 73.0 | 3,042 | 76.0 | 82.4 | 1,508 |
| Region |  |  |  |  |  |  |
| North Western | 62.9 | 66.8 | 621 | 70.0 | 72.4 | 301 |
| South Central | 74.8 | 77.3 | 4,105 | 70.2 | 87.6 | 1,932 |
| South Eastern A | 73.5 | 81.1 | 458 | 77.9 | 89.0 | 254 |
| South Eastern B | 70.5 | 84.2 | 441 | 74.0 | 85.8 | 226 |
| North Central | 72.2 | 74.0 | 2,439 | 74.5 | 86.0 | 1,107 |
| County |  |  |  |  |  |  |
| Bomi | 70.0 | 68.0 | 249 | 78.0 | 79.8 | 118 |
| Bong | 76.7 | 80.4 | 796 | 84.1 | 80.9 | 324 |
| Gbarpolu | 68.8 | 70.4 | 112 | 72.1 | 75.2 | 53 |
| Grand Bassa | 63.3 | 70.5 | 467 | 76.1 | 83.1 | 197 |
| Grand Cape Mount | 53.5 | 64.0 | 260 | 62.0 | 64.6 | 130 |
| Grand Gedeh | 65.9 | 68.5 | 172 | 78.2 | 85.8 | 92 |
| Grand Kru | 68.3 | 77.3 | 136 | 78.0 | 85.5 | 67 |
| Lofa | 72.8 | 74.1 | 658 | 74.7 | 88.7 | 287 |
| Margibi | 71.0 | 70.2 | 441 | 69.2 | 86.8 | 209 |
| Maryland | 67.8 | 86.2 | 215 | 63.4 | 83.4 | 110 |
| Montserrado | 77.0 | 79.3 | 3,197 | 69.6 | 88.3 | 1,525 |
| Nimba | 68.1 | 68.7 | 985 | 68.2 | 87.7 | 496 |
| River Cess | 84.5 | 84.7 | 104 | 71.7 | 79.1 | 52 |
| River Gee | 80.1 | 89.7 | 91 | 92.1 | 91.7 | 50 |
| Sinoe | 74.5 | 90.9 | 182 | 80.6 | 96.3 | 110 |
| Education |  |  |  |  |  |  |
| No education | 66.4 | 69.4 | 2,474 | 67.9 | 80.6 | 498 |
| Elementary | 68.6 | 71.0 | 1,911 | 66.6 | 76.0 | 877 |
| Junior high | 73.0 | 76.3 | 1,445 | 73.2 | 86.2 | 738 |
| Senior high | 84.0 | 88.0 | 1,761 | 74.6 | 91.3 | 1,303 |
| Higher | 80.3 | 86.1 | 474 | 80.0 | 96.2 | 405 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 69.5 | 72.0 | 1,379 | 72.3 | 81.7 | 657 |
| Second | 69.7 | 70.9 | 1,431 | 73.7 | 85.3 | 663 |
| Middle | 69.6 | 74.1 | 1,517 | 74.5 | 84.5 | 743 |
| Fourth | 77.7 | 80.7 | 1,829 | 69.5 | 89.3 | 838 |
| Highest | 75.2 | 80.0 | 1,910 | 71.6 | 87.6 | 920 |
| Total 15-49 | 72.8 | 76.1 | 8,065 | 72.2 | 85.9 | 3,821 |
| 50-59 | na | na | na | 75.9 | 86.1 | 428 |
| Total 15-59 | na | na | na | 72.6 | 85.9 | 4,249 |

[^27]
## Table 15.12 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, Liberia DHS 2019-20

| Background characteristic | Percentage who can say no to their husband if they do not want to have sexual intercourse | Percentage who can ask their husband to use a condom | Number of women |
| :---: | :---: | :---: | :---: |
| Age |  |  |  |
| 15-24 | 82.1 | 62.8 | 830 |
| 15-19 | 82.8 | 59.5 | 204 |
| 20-24 | 81.8 | 63.9 | 625 |
| 25-29 | 83.4 | 63.2 | 788 |
| 30-39 | 82.0 | 60.5 | 1,604 |
| 40-49 | 81.5 | 49.2 | 995 |
| Residence |  |  |  |
| Urban | 82.3 | 65.0 | 2,268 |
| Greater Monrovia | 81.1 | 70.6 | 1,150 |
| Other urban | 83.4 | 59.2 | 1,118 |
| Rural | 82.1 | 51.5 | 1,947 |
| Region |  |  |  |
| North Western | 72.0 | 47.3 | 400 |
| South Central | 83.3 | 65.6 | 1,801 |
| South Eastern A | 88.4 | 51.9 | 296 |
| South Eastern B | 85.2 | 58.2 | 254 |
| North Central | 81.8 | 55.0 | 1,464 |
| County |  |  |  |
| Bomi | 77.7 | 48.8 | 148 |
| Bong | 84.1 | 47.1 | 411 |
| Gbarpolu | 77.3 | 42.7 | 80 |
| Grand Bassa | 80.5 | 53.2 | 253 |
| Grand Cape Mount | 64.7 | 48.3 | 172 |
| Grand Gedeh | 91.4 | 63.5 | 116 |
| Grand Kru | 77.9 | 64.6 | 79 |
| Lofa | 82.1 | 53.5 | 380 |
| Margibi | 88.2 | 42.8 | 239 |
| Maryland | 88.9 | 58.3 | 120 |
| Montserrado | 83.0 | 72.2 | 1,309 |
| Nimba | 80.1 | 60.6 | 673 |
| River Cess | 83.3 | 41.3 | 66 |
| River Gee | 87.4 | 49.1 | 56 |
| Sinoe | 88.3 | 46.2 | 114 |
| Education |  |  |  |
| No education | 76.5 | 44.5 | 1,814 |
| Elementary | 84.8 | 58.9 | 935 |
| Junior high | 82.4 | 67.2 | 586 |
| Senior high | 91.6 | 82.9 | 697 |
| Higher | 88.1 | 80.7 | 184 |
| Wealth quintile |  |  |  |
| Lowest | 81.8 | 48.2 | 930 |
| Second | 81.4 | 53.7 | 903 |
| Middle | 82.9 | 53.8 | 808 |
| Fourth | 81.9 | 69.3 | 783 |
| Highest | 83.0 | 71.6 | 792 |
| Total | 82.2 | 58.8 | 4,216 |

Table 15.13 Indicators of women's empowerment
Percentage of currently married women age 15-49 who participate in all decision making and percentage who disagree with all of the reasons justifying wife beating, by value on each of the indicators of women's empowerment, Liberia DHS 2019-20

|  | Percentage who <br> disagree with all of <br> Percentage who <br> participate in all <br> justifying wife <br> Eeating | Number of <br> Empowen |
| :--- | :---: | :---: | :---: |

Number of decisions in
which women
participate ${ }^{1}$
1-2

| na | 50.3 | 494 |
| :--- | ---: | ---: |
| na | 53.4 | 814 |
| na | 64.1 | 2,908 |

Number of reasons for which wife beating is justified ${ }^{2}$

| 0 | 73.2 | na | 2,548 |
| :--- | ---: | ---: | ---: |
| $1-2$ | 61.9 | na | 752 |
| $3-4$ | 60.5 | na | 738 |
| 5 | 73.7 | na | 177 |

na = Not applicable
${ }^{1}$ See Table 15.9.1 for the list of decisions.
${ }^{2}$ See Table 15.10.1 for the list of reasons.

Table 15.14 Current use of contraception by women's empowerment
Percent distribution of currently married women age 15-49 by current contraceptive method, according to selected indicators of women's status, Liberia DHS 2019-20

| Empowerment indicator | Any method | Any modern method ${ }^{1}$ | Modern methods |  |  | Any traditional method | $\begin{gathered} \text { Not currently } \\ \text { using } \\ \hline \end{gathered}$ | Total | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female sterilization | Temporary modern female methods ${ }^{2}$ | Male condom |  |  |  |  |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| 0 | 15.5 | 15.4 | 0.3 | 14.1 | 1.0 | 0.0 | 84.5 | 100.0 | 494 |
| 1-2 | 26.7 | 24.0 | 0.1 | 21.5 | 2.4 | 2.7 | 73.3 | 100.0 | 814 |
| 3 | 26.1 | 25.2 | 0.2 | 24.7 | 0.4 | 0.8 | 73.9 | 100.0 | 2,908 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |  |  |  |
| 0 | 25.5 | 24.3 | 0.2 | 23.0 | 1.1 | 1.2 | 74.5 | 100.0 | 2,548 |
| 1-2 | 27.8 | 26.2 | 0.3 | 25.3 | 0.5 | 1.6 | 72.2 | 100.0 | 752 |
| 3-4 | 22.0 | 21.6 | 0.3 | 21.0 | 0.4 | 0.4 | 78.0 | 100.0 | 738 |
| 5 | 17.4 | 17.1 | 0.1 | 16.9 | 0.0 | 0.3 | 82.6 | 100.0 | 177 |
| Total | 24.9 | 23.9 | 0.2 | 22.8 | 0.8 | 1.1 | 75.1 | 100.0 | 4,216 |

Note: If more than one method is used, only the most effective method is considered in this tabulation.
${ }^{1}$ Female sterilization, male sterilization, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and other modern methods
${ }^{2}$ Pill, IUD, injectables, implants, female condom, emergency contraception, standard days method, lactational amenorrhea method, and other modern methods
${ }^{3}$ See Table 15.9.1 for the list of decisions.
${ }^{4}$ See Table 15.10.1 for the list of reasons.

Table 15.15 Ideal number of children and unmet need for family planning by women's empowerment
Mean ideal number of children for women age 15-49 and percentage of currently married women age 15-49 with an unmet need for family planning, by indicators of women's empowerment, Liberia DHS 2019-20

| Empowerment indicator | Mean ideal number of children ${ }^{1}$ | Number of women | Percentage of currently married women with an unmet need for family planning ${ }^{2}$ |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | For spacing | For limiting | Total |  |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |  |  |
| 0 | 5.4 | 456 | 19.3 | 11.6 | 30.9 | 494 |
| 1-2 | 4.8 | 760 | 22.2 | 14.4 | 36.6 | 814 |
| 3 | 5.2 | 2,693 | 20.3 | 12.7 | 33.0 | 2,908 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |
| 0 | 4.4 | 4,832 | 19.4 | 13.2 | 32.6 | 2,548 |
| 1-2 | 4.6 | 1,274 | 23.3 | 11.1 | 34.4 | 752 |
| 3-4 | 5.1 | 1,224 | 21.5 | 13.0 | 34.5 | 738 |
| 5 | 5.6 | 279 | 21.0 | 16.2 | 37.2 | 177 |
| Total | 4.6 | 7,608 | 20.5 | 12.9 | 33.4 | 4,216 |

[^28]Table 15.16 Reproductive health care by women's empowerment
Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who received prenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, according to indicators of women's empowerment, Liberia DHS 2019-20
$\left.\begin{array}{lcccc}\hline & \begin{array}{c}\text { Percentage } \\ \text { receiving prenatal } \\ \text { care from a skilled } \\ \text { provider }^{1}\end{array} & \begin{array}{c}\text { Percentage } \\ \text { receiving delivery } \\ \text { care from a skilled } \\ \text { provider }^{1}\end{array} & \begin{array}{c}\text { Percentage with a } \\ \text { postnatal check } \\ \text { during the first 2 } \\ \text { days after birth }\end{array}\end{array} \begin{array}{c}\text { Number of women }\end{array} \begin{array}{c}\text { with a child born in } \\ \text { the last 5 years }\end{array}\right]$

1 "Skilled provider" includes doctor, nurse, midwife, and physician's assistant.
${ }^{2}$ Includes women who received a postnatal checkup from a doctor, nurse, midwife, physician's assistant, or traditional midwife in the first 2 days after birth. Includes women who gave birth in a health facility and those who did not give birth in a health facility.
${ }^{3}$ Restricted to currently married women. See Table 15.9.1 for the list of decisions.
${ }^{4}$ See Table 15.10.1 for the list of reasons

Table 15.17 Early childhood mortality rates by indicators of women's empowerment
Infant, child, and under-5 mortality rates for the 10-year period
preceding the survey, according to indicators of women's
empowerment, Liberia DHS 2019-20

Number of decisions in which women
participate ${ }^{1}$

| 72 | 32 | 102 |
| ---: | ---: | ---: |
| 85 | 31 | 114 |
| 61 | 34 | 93 |

Number of reasons for which wife beating is justified ${ }^{2}$

| justified |  |  |  |
| :--- | :---: | :---: | :---: |
| 0 | 62 | 29 | 90 |
| $1-2$ | 76 | 50 | 123 |
| $3-4$ | 66 | 35 | 99 |
| 5 | $(81)$ | $(33)$ | $(112)$ |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Restricted to currently married women. See Table 15.9.1 for the list of decisions.
${ }^{2}$ See Table 15.10.1 for the list of reasons.

Table 15.18 Knowledge of and membership in Sande or bush societies
Percentage of women age 15-49 who have heard of the Sande society, and among these women, percentage who are members of the society, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | All women |  | Among women who have heard of Sande society |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have heard of Sande society | Number of women | Percentage who are members | Number of women |
| Age |  |  |  |  |
| 15-19 | 75.2 | 1,657 | 23.9 | 1,245 |
| 20-24 | 82.3 | 1,506 | 24.2 | 1,240 |
| 25-29 | 84.1 | 1,375 | 28.1 | 1,157 |
| 30-34 | 84.7 | 1,112 | 38.5 | 942 |
| 35-39 | 85.5 | 1,020 | 46.0 | 872 |
| 40-44 | 87.9 | 769 | 46.6 | 676 |
| 45-49 | 89.0 | 626 | 55.1 | 557 |
| Residence |  |  |  |  |
| Urban | 82.1 | 5,023 | 25.0 | 4,125 |
| Greater Monrovia | 80.7 | 2,866 | 16.5 | 2,314 |
| Other urban | 84.0 | 2,157 | 35.8 | 1,811 |
| Rural | 84.3 | 3,042 | 49.8 | 2,564 |
| Region |  |  |  |  |
| North Western | 87.9 | 621 | 67.3 | 546 |
| South Central | 82.0 | 4,105 | 23.4 | 3,368 |
| South Eastern A | 74.9 | 458 | 17.9 | 343 |
| South Eastern B | 68.1 | 441 | 2.3 | 301 |
| North Central | 87.4 | 2,439 | 50.9 | 2,131 |
| County |  |  |  |  |
| Bomi | 92.9 | 249 | 66.7 | 231 |
| Bong | 81.6 | 796 | 51.8 | 650 |
| Gbarpolu | 91.9 | 112 | 81.4 | 103 |
| Grand Bassa | 78.0 | 467 | 34.4 | 364 |
| Grand Cape Mount | 81.6 | 260 | 61.0 | 212 |
| Grand Gedeh | 52.5 | 172 | 14.1 | 90 |
| Grand Kru | 73.5 | 136 | 3.8 | 100 |
| Lofa | 94.9 | 658 | 63.6 | 624 |
| Margibi | 93.8 | 441 | 35.9 | 414 |
| Maryland | 61.0 | 215 | 1.7 | 131 |
| Montserrado | 81.0 | 3,197 | 19.9 | 2,590 |
| Nimba | 86.9 | 985 | 41.0 | 856 |
| River Cess | 95.9 | 104 | 44.7 | 99 |
| River Gee | 76.9 | 91 | 1.3 | 70 |
| Sinoe | 84.3 | 182 | 2.7 | 154 |
| Religion |  |  |  |  |
| Christian | 83.2 | 6,776 | 31.1 | 5,637 |
| Muslim | 81.2 | 1,153 | 54.0 | 936 |
| Traditional religion | (86.4) | 31 | (64.6) | 27 |
| No religion | 84.4 | 100 | 41.0 | 85 |
| Wealth quintile |  |  |  |  |
| Lowest | 84.6 | 1,379 | 53.3 | 1,166 |
| Second | 85.0 | 1,431 | 49.4 | 1,217 |
| Middle | 83.6 | 1,517 | 41.8 | 1,268 |
| Fourth | 85.3 | 1,829 | 21.6 | 1,560 |
| Highest | 77.4 | 1,910 | 14.8 | 1,478 |
| Total | 82.9 | 8,065 | 34.5 | 6,689 |

Note: Total includes women from other religions. In the 2013 LDHS, membership in the Sande society was a proxy for female genital cutting. Figures in parentheses are based on 25-49 unweighted cases.

Table 15.19 Knowledge and prevalence of female circumcision
Percentage of women age 15-49 who have heard of female circumcision, and percentage of women circumcised, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | All women |  | Among women who have heard of female circumcision: |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have heard of female circumcision | Number of women | Percentage of women circumcised | Number of women |
| Age |  |  |  |  |
| 15-19 | 72.8 | 1,657 | 27.7 | 1,207 |
| 20-24 | 82.0 | 1,506 | 25.9 | 1,235 |
| 25-29 | 83.9 | 1,375 | 31.5 | 1,154 |
| 30-34 | 89.4 | 1,112 | 40.9 | 995 |
| 35-39 | 85.8 | 1,020 | 51.0 | 875 |
| 40-44 | 88.9 | 769 | 52.4 | 684 |
| 45-49 | 90.6 | 626 | 59.7 | 567 |
| Religion |  |  |  |  |
| Christian | 84.3 | 6,776 | 34.7 | 5,711 |
| Muslim | 77.1 | 1,153 | 58.6 | 889 |
| Traditional religion | (90.6) | 31 | 64.1 | 28 |
| No religion | 83.0 | 100 | 53.8 | 83 |
| Residence |  |  |  |  |
| Urban | 83.9 | 5,023 | 29.9 | 4,214 |
| Greater Monrovia | 85.1 | 2,866 | 23.1 | 2,439 |
| Other urban | 82.3 | 2,157 | 39.2 | 1,775 |
| Rural | 82.2 | 3,042 | 52.3 | 2,502 |
| Region |  |  |  |  |
| North Western | 87.2 | 621 | 68.3 | 542 |
| South Central | 83.6 | 4,105 | 29.8 | 3,430 |
| South Eastern A | 85.1 | 458 | 19.6 | 390 |
| South Eastern B | 79.1 | 441 | 2.9 | 349 |
| North Central | 82.2 | 2,439 | 54.2 | 2,005 |
| County |  |  |  |  |
| Bomi | 98.2 | 249 | 62.5 | 245 |
| Bong | 76.2 | 796 | 60.0 | 606 |
| Gbarpolu | 96.9 | 112 | 77.5 | 108 |
| Grand Bassa | 86.7 | 467 | 40.3 | 405 |
| Grand Cape Mount | 72.6 | 260 | 70.6 | 189 |
| Grand Gedeh | 77.9 | 172 | 12.2 | 134 |
| Grand Kru | 84.5 | 136 | 3.3 | 115 |
| Lofa | 80.4 | 658 | 68.2 | 529 |
| Margibi | 96.3 | 441 | 48.4 | 425 |
| Maryland | 72.3 | 215 | 3.1 | 155 |
| Montserrado | 81.3 | 3,197 | 25.2 | 2,601 |
| Nimba | 88.2 | 985 | 41.7 | 869 |
| River Cess | 99.1 | 104 | 51.6 | 103 |
| River Gee | 87.1 | 91 | 2.0 | 79 |
| Sinoe | 84.0 | 182 | 4.6 | 153 |
| Education |  |  |  |  |
| No education | 86.1 | 2,474 | 58.9 | 2,131 |
| Elementary | 79.6 | 1,911 | 41.9 | 1,521 |
| Junior high | 80.1 | 1,445 | 29.7 | 1,158 |
| Senior high | 84.2 | 1,761 | 19.3 | 1,482 |
| Higher | 89.4 | 474 | 11.0 | 424 |
| Wealth quintile |  |  |  |  |
| Lowest | 84.7 | 1,379 | 57.1 | 1,167 |
| Second | 84.5 | 1,431 | 49.4 | 1,209 |
| Middle | 81.7 | 1,517 | 46.3 | 1,239 |
| Fourth | 81.2 | 1,829 | 27.1 | 1,485 |
| Highest | 84.6 | 1,910 | 20.3 | 1,616 |
| Total | 83.3 | 8,065 | 38.2 | 6,716 |

Note: Total includes women from other religions. Figures in parentheses are based on 25-49 unweighted cases.

Table 15.20 Age at circumcision
Percent distribution of circumcised women age 15-49 by age at circumcision, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Age at circumcision |  |  |  |  | Total | Number of circumcised women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | <5 | 5-9 | 10-14 | 15+ | $\begin{gathered} \hline \text { Don't know/ } \\ \text { missing } \\ \hline \end{gathered}$ |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 21.7 | 21.5 | 39.2 | 15.5 | 2.0 | 100.0 | 334 |
| 20-24 | 28.8 | 19.3 | 32.7 | 17.6 | 1.5 | 100.0 | 320 |
| 25-29 | 25.1 | 20.0 | 29.5 | 23.0 | 2.4 | 100.0 | 363 |
| 30-34 | 23.8 | 10.3 | 33.8 | 27.3 | 4.8 | 100.0 | 407 |
| 35-39 | 29.5 | 16.8 | 27.1 | 24.1 | 2.5 | 100.0 | 447 |
| 40-44 | 17.8 | 15.2 | 36.6 | 21.5 | 8.9 | 100.0 | 358 |
| 45-49 | 25.0 | 15.3 | 33.7 | 19.8 | 6.3 | 100.0 | 338 |
| Religion |  |  |  |  |  |  |  |
| Christian | 24.1 | 16.6 | 33.6 | 21.5 | 4.2 | 100.0 | 1,984 |
| Muslim | 26.9 | 17.5 | 29.8 | 22.1 | 3.7 | 100.0 | 520 |
| Traditional religion | (10.7) | (4.8) | (53.6) | (26.9) | (4.0) | 100.0 | 18 |
| No religion | (27.7) | (19.3) | (31.2) | (19.8) | (2.0) | 100.0 | 45 |
| Residence |  |  |  |  |  |  |  |
| Urban | 30.8 | 15.2 | 29.9 | 19.7 | 4.4 | 100.0 | 1,259 |
| Greater Monrovia | 45.9 | 12.0 | 21.8 | 14.5 | 5.8 | 100.0 | 563 |
| Other urban | 18.7 | 17.7 | 36.4 | 24.0 | 3.2 | 100.0 | 697 |
| Rural | 18.7 | 18.3 | 35.9 | 23.4 | 3.8 | 100.0 | 1,308 |
| Region |  |  |  |  |  |  |  |
| North Western | 24.9 | 20.0 | 32.0 | 18.6 | 4.5 | 100.0 | 370 |
| South Central | 32.3 | 14.8 | 29.2 | 17.8 | 5.9 | 100.0 | 1,024 |
| South Eastern A | 16.1 | 19.0 | 39.9 | 15.8 | 9.2 | 100.0 | 76 |
| South Eastern B | (35.2) | (9.9) | (34.8) | (15.1) | (5.0) | 100.0 | 10 |
| North Central | 17.9 | 17.4 | 36.3 | 26.7 | 1.8 | 100.0 | 1,087 |
| County |  |  |  |  |  |  |  |
| Bomi | 24.4 | 22.6 | 31.8 | 18.4 | 2.7 | 100.0 | 153 |
| Bong | 24.0 | 16.2 | 34.8 | 22.3 | 2.7 | 100.0 | 364 |
| Gbarpolu | 16.9 | 20.2 | 40.0 | 20.2 | 2.8 | 100.0 | 84 |
| Grand Bassa | 20.0 | 9.0 | 40.4 | 29.4 | 1.2 | 100.0 | 163 |
| Grand Cape Mount | 30.4 | 17.0 | 27.3 | 17.8 | 7.5 | 100.0 | 133 |
| Grand Gedeh | (22.8) | (12.2) | (34.7) | (28.0) | (2.3) | 100.0 | 16 |
| Grand Kru | * | * | * | * | * | 100.0 | 4 |
| Lofa | 12.2 | 20.3 | 36.2 | 28.9 | 2.4 | 100.0 | 361 |
| Margibi | 10.4 | 25.3 | 41.0 | 15.3 | 8.1 | 100.0 | 206 |
| Maryland | * | * | * | * | * | 100.0 | 5 |
| Montserrado | 42.2 | 12.9 | 22.8 | 15.7 | 6.4 | 100.0 | 655 |
| Nimba | 17.4 | 15.7 | 37.8 | 28.9 | 0.2 | 100.0 | 362 |
| River Cess | 13.0 | 21.2 | 43.6 | 12.6 | 9.6 | 100.0 | 53 |
| River Gee | * | * | * | * | * | 100.0 | 2 |
| Sinoe | * | * | * | * | * | 100.0 | 7 |
| Total | 24.6 | 16.7 | 33.0 | 21.6 | 4.1 | 100.0 | 2,568 |

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. Total includes women from other religions.

Table 15.21 Opinions of women about whether the practice of circumcision should continue
Percent distribution of women age 15-49 who have heard of female circumcision by their opinion on whether the practice of circumcision should be continued, according to background characteristics, Liberia DHS 2019-20

| Background <br> characteristic | Continued | Not continued | Number of <br> women who <br> have heard of <br> female circum- <br> cision |
| :--- | :---: | :---: | :---: | :---: |

Female circumcision
status

| Circumcised | 38.6 | 43.5 | 17.8 | 100.0 | 2,568 |
| :--- | ---: | ---: | ---: | ---: | :--- |
| Not circumcised | 8.3 | 76.4 | 15.4 | 100.0 | 4,148 |
| Age |  |  |  |  |  |
| $15-19$ | 19.8 | 64.3 | 15.9 | 100.0 | 1,207 |


| $15-19$ | 19.8 | 64.3 | 15.9 | 100.0 | 1,207 |
| :--- | :--- | :--- | :--- | :--- | ---: |
| $20-24$ | 20.2 | 63.5 | 16.3 | 100.0 | 1,235 |
| $25-29$ | 16.3 | 68.6 | 15.1 | 100.0 | 1,154 |
| $30-34$ | 16.6 | 68.8 | 14.7 | 100.0 | 995 |
| $35-39$ | 24.4 | 61.2 | 14.4 | 100.0 | 875 |
| $40-44$ | 20.9 | 59.7 | 19.4 | 100.0 | 684 |
| $45-49$ | 24.4 | 53.6 | 22.1 | 1000 | 567 |

Religion
Christian
Muslim
Traditional relig No religion

Residence
Urban Greater Monrovia Other urban
Rural
Region

| Region |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| North Western | 43.3 | 34.0 | 22.7 | 100.0 | 542 |
| South Central | 12.6 | 73.8 | 13.6 | 100.0 | 3,430 |
| South Eastern A | 17.0 | 62.7 | 20.3 | 100.0 | 390 |
| South Eastern B | 7.7 | 73.5 | 18.8 | 100.0 | 349 |
| North Central | 28.6 | 53.3 | 18.1 | 100.0 | 2,005 |
| County |  |  |  |  |  |
| Bomi | 36.2 | 43.8 | 20.1 | 100.0 | 245 |
| Bong | 32.1 | 41.8 | 26.1 | 100.0 | 606 |
| Gbarpolu | 41.1 | 27.2 | 31.7 | 100.0 | 108 |
| Grand Bassa | 13.8 | 63.2 | 22.9 | 100.0 | 405 |
| Grand Cape Mount | 53.8 | 25.2 | 21.0 | 100.0 | 189 |
| Grand Gedeh | 11.4 | 65.4 | 23.2 | 100.0 | 134 |
| Grand Kru | 8.9 | 84.2 | 6.9 | 100.0 | 115 |
| Lofa | 50.6 | 34.2 | 15.1 | 100.0 | 529 |
| Margibi | 18.6 | 69.7 | 11.7 | 100.0 | 425 |
| Maryland | 9.5 | 66.4 | 24.2 | 100.0 | 155 |
| Montserrado | 11.5 | 76.1 | 12.4 | 100.0 | 2,601 |
| Nimba | 12.7 | 72.9 | 14.4 | 100.0 | 869 |
| River Cess | 32.6 | 48.1 | 19.3 | 100.0 | 103 |
| River Gee | 2.6 | 72.0 | 25.4 | 100.0 | 79 |
| Sinoe | 11.5 | 70.0 | 18.5 | 100.0 | 153 |
| Education |  |  |  |  |  |
| No education | 29.7 | 48.5 | 21.8 | 100.0 | 2,131 |
| Elementary | 22.9 | 57.2 | 19.9 | 100.0 | 1,521 |
| Junior high | 17.0 | 69.9 | 13.1 | 100.0 | 1,158 |
| Senior high | 8.8 | 81.0 | 10.2 | 100.0 | 1,482 |
| Higher | 6.0 | 87.4 | 6.6 | 100.0 | 424 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 31.8 | 42.8 | 25.4 | 100.0 | 1,167 |
| Second | 29.4 | 51.5 | 19.1 | 100.0 | 1,209 |
| Middle | 21.0 | 61.9 | 17.1 | 100.0 | 1,239 |
| Fourth | 13.2 | 75.2 | 11.5 | 100.0 | 1,485 |
| Highest | 9.4 | 79.1 | 11.5 | 100.0 | 1,616 |
| Total | 19.9 | 63.8 | 16.3 | 100.0 | 6,716 |
|  |  |  |  |  |  |

Note: Figures in parentheses are based on 25-49 unweighted cases. Total includes women from other religions.

## Key Findings

- Experience of violence: $60 \%$ of women age 15-49 have experienced physical violence and $9 \%$ have experienced sexual violence. Among women who have ever been pregnant, $7 \%$ have experienced physical violence during pregnancy.
- Spousal violence: 55\% of ever-married women have experienced spousal emotional, physical, or sexual violence. The prevalence of one or more of these forms of spousal violence is higher in 2019-20 than it was in 2007 (49\%).
- Injuries due to spousal violence: 34\% of ever-married women who experienced spousal physical or sexual violence reported injuries. Thirty percent reported cuts, bruises, or aches; $14 \%$ reported eye injuries, sprains, dislocations, or burns; and 8\% reported deep wounds and other serious injuries.
- Help seeking: 42\% of women who have experienced physical or sexual violence have ever sought help and $48 \%$ have never sought help. Women's own families are the most common source of help.

Gender-based violence, 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, has been acknowledged worldwide as a violation of basic human rights. Increasing research has highlighted the health burdens, intergenerational effects, and demographic consequences of such violence (United Nations 2006). This chapter focuses on domestic violence, mainly intimate partner violence, a significant component of gender-based violence.

In Liberia, violence against women and girls has long been recognized as a sociocultural problem entrenched in traditional social norms and behaviors. Liberia recently passed the 2019 Domestic Violence Bill, which seeks to abolish all forms of violence against women, children, and men and provides for assistance to and protection of victims of violence. In 2020, a roadmap to curb this social scourge was developed under the leadership of the Ministry of Gender, Children, and Social Protection.

The 2019-20 Liberia DHS included a module of questions designed to obtain information on the extent to which women in Liberia experience domestic violence. These questions asked women about their experience of both intimate partner violence and violence by perpetrators other than husbands or other intimate partners. The module on domestic violence was administered in the $50 \%$ subsample of households selected for the men's survey. In accordance with WHO guidelines on the ethical collection of information on domestic violence, only one eligible woman age 15-49 per household was randomly selected for the module, and the
module was not implemented if privacy could not be obtained (WHO 2001). In total, 3,120 women completed the module. Only $1.5 \%$ of women eligible for the domestic violence module could not be successfully interviewed with the module because privacy could not be obtained or for other reasons. Special weights were used to adjust for the selection of only one woman per household and to ensure that the domestic violence subsample was nationally representative.

This chapter presents findings for women age 15-49 on their experience of physical or sexual violence from any perpetrator and who the perpetrator was. It also provides detailed information for ever-married women on their experience of spousal physical, sexual, and emotional violence ever and in the past 12 months; the physical consequences of the violence; and when the violence first began in the relationship. Finally, it documents whether and from whom help was sought to stop the violence and whether or not the help was found useful. A similar set of questions on women's experience of domestic violence was included in the 2007 Liberia DHS.

### 16.1 Measurement of Violence

In the 2019-20 Liberia DHS, information was obtained from ever-married women on their experience of violence committed by their current and former husbands/partners and by others. More specifically, violence committed by the current husband/partner (for currently married women) and by the most recent husband/partner (for formerly married women) was measured by asking all ever-married women if their husband/partner ever did the following to them:

Physical spousal 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; try to choke you or burn you on purpose; or threaten or attack you with a knife, gun, or any other weapon

Sexual spousal violence: physically force you to have sexual intercourse with him even 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 spousal violence: say or do something to humiliate you in front of others, threaten to hurt or harm you or someone close to you, or insult you or make you feel bad about yourself

In addition, information was obtained from all women (married and unmarried) about physical violence committed by anyone (other than a current or most recent husband/partner) since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, information was gathered on experiences of sexual violence committed by anyone (other than a current or most recent husband/partner) by asking women 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.

In this chapter, married women include both women who said they were married and women who said they were living with a man as if married. Correspondingly, husbands include both husbands of married women and partners of women who are not married but are living with a man as if married.

### 16.2 Women’s Experience of Physical Violence

## Physical violence by anyone

Percentage of women who have experienced any physical violence (committed by a husband/partner or anyone else) since age 15 and in the 12 months before the survey.
Sample: Women age 15-49

### 16.2.1 Prevalence of Physical Violence

In Liberia, $60 \%$ of women age 15-49 have ever experienced physical violence, and $33 \%$ experienced physical violence in the 12 months preceding the survey (Table 16.1).

Seven percent of women who have ever been pregnant have experienced physical violence during pregnancy
(Table 16.2).
Trends: The percentage of women who have experienced physical violence since age 15 has increased greatly over time, from $44 \%$ in 2007 to $60 \%$ in 2019-20. The percentage who have experienced physical violence in the past 12 months has also increased but by much less, from $29 \%$ to $33 \%$.

## Patterns by background characteristics

- Sixty-four percent of urban women, including 67\% of women in Greater Monrovia, have experienced physical violence, compared with $54 \%$ of rural women (Table 16.1).
- Women who are divorced, separated, or widowed are most likely to have experienced physical violence ( $68 \%$ ), followed by currently married women ( $62 \%$ ). Never-married women are least likely ( $56 \%$ ) to report experiencing physical violence since age 15 (Figure 16.1).
- By county, violence during pregnancy was most often reported by women in Gbarpolu (15\%), Sinoe ( $14 \%$ ), and Maryland ( $13 \%$ ) and least often reported

Figure 16.1 Women's experience of violence by marital status
$\square$ Never married $\begin{aligned} & \text { Married or } \\ & \text { living together }\end{aligned} \begin{aligned} & \text { Divorced/ } \\ & \text { separated } / \\ & \text { widowed }\end{aligned}$
 by women in Margibi (2\%) (Table 16.2).

- Ten percent of women in the lowest wealth quintile report violence during pregnancy, as compared with $5 \%-6 \%$ of women in the other wealth quintiles.


### 16.2.2 Perpetrators of Physical Violence

Fifty-eight percent of ever-married women age 15-49 who have experienced physical violence since age 15 named their current husband/partner as the perpetrator of the violence. Never-married women who have experienced physical violence most often reported the perpetrator as their mother/stepmother ( $47 \%$ ) or father/stepfather ( $32 \%$ ). Notably, $7 \%$ of never-married women who have experienced physical violence mentioned a teacher as the perpetrator (Table 16.3).

### 16.3 Experience of Sexual Violence

## Sexual violence

Percentage of women who have experienced any sexual violence (committed by a husband/partner or anyone else) ever and in the 12 months before the survey.
Sample: Women age 15-49

### 16.3.1 Prevalence of Sexual Violence

Nine percent of women age 15-49 reported that they have ever experienced sexual violence, and 5\% said that they had experienced sexual violence in the past 12 months $^{1}$ (Table 16.4). Five percent of women first experienced sexual violence before age 18 (Table 16.5).

## Patterns by background characteristics

- Ten percent of Christian women have experienced sexual violence, as compared with $4 \%$ of Muslim women (Table 16.4).
- In contrast to women's experience of physical violence, women in Greater Monrovia are much less likely $(5 \%)$ to report sexual violence than women in other urban areas (13\%) or in rural areas ( $10 \%$ ).
- As was the case for physical violence, divorced, separated, or widowed women are more likely ( $15 \%$ ) to have experienced sexual violence than currently married women ( $11 \%$ ) and never-married women ( $4 \%$ ) (Figure 16.1).
- By county, the percentage of women reporting sexual violence ranges from a high of $19 \%$ in Nimba to a low of 5\% each in Grand Kru and Lofa.
- Four percent of never-married women report having experienced sexual violence before age 18, compared with $6 \%$ of ever-married women (Table 16.5).


### 16.3.2 Perpetrators of Sexual Violence

Ever-married women who reported having experienced sexual violence most often named their current or most recent husband/partner as the perpetrator ( $54 \%$ ). Among never-married women, the most commonly reported perpetrators were friends or acquaintances $(28 \%)$ and current or former boyfriends ( $25 \%$ ); however, these figures should be interpreted with caution because they are based on only 25-49 unweighted cases. Notably, $10 \%$ of all women who have experienced sexual violence reported a stranger as the perpetrator (Table 16.6).

### 16.4 Experience of Different Forms of Violence

Physical violence and sexual violence may not occur in isolation; rather, women may experience a combination of different forms of violence. Sixty-one percent of women age 15-49 in Liberia have experienced physical or sexual violence. Fifty-two percent of women have experienced only physical violence, $1 \%$ have experienced only sexual violence, and $9 \%$ have experienced both physical and sexual violence (Table 16.7).

[^29]
### 16.5 Marital Control by Husband


#### Abstract

Marital control Percentage of women whose current husband/partner (if currently married) or most recent husband/partner (if formerly married) demonstrates at least one of the following controlling behaviors: is jealous or angry if she talks to other men, frequently accuses her of being unfaithful, does not permit her to meet her female friends, tries to limit her contact with her family, and insists on knowing where she is at all times.


Sample: Ever-married women age 15-49

Marital control in the form of a husband/partner trying to control or monitor his wife's activities can be a warning sign of the potential for violence in a relationship. In Liberia, the most common marital control behavior mentioned by ever-married women is jealousy or anger if they talk to other men, reported by $66 \%$ of women. Sixty-three percent of women report that their husband/partner insists on knowing where they are at all times, $44 \%$ report that he frequently accuses them of being unfaithful, $36 \%$ report that he does not permit them to meet their female friends, and $18 \%$ report that he tries to limit their contact with their family. Overall, $46 \%$ of women report that their husband/partner displays at least three of the specified marital control behaviors, and $19 \%$ report that their husband/partner does not display any of the specified behaviors (Table 16.8).

## Patterns by background characteristics

- Forty-four percent of women in rural areas and $42 \%$ of women in Greater Monrovia report that their husband/partner displays three or more of the specified behaviors, as compared with $52 \%$ of women in other urban areas.
- By county, $71 \%$ of women in River Gee report that their husband/partner displays three or more of the specified behaviors, compared with $24 \%$ in River Cess and $33 \%-60 \%$ in other counties.
- The percentage of women whose husbands/partners display three or more specified behaviors does not vary consistently with either education or wealth.
- There is an apparent correlation between whether women are afraid of their husband/partner and whether the husband/partner displays the specified controlling behaviors. Sixty-four percent of women who say they are afraid of their husband/partner most of the time report that their husband/partner displays at least three of the specified behaviors, as compared with $46 \%$ of women who are sometimes afraid of their husband/partner and $36 \%$ of women who are never afraid of their husband/partner.


### 16.6 Forms of Spousal Violence

## Spousal violence

Percentage of women who have experienced any of the specified acts of emotional, physical, or sexual violence committed by their current husband/partner (if currently married) or most recent husband/partner (if formerly married), ever and in the 12 months preceding the survey.
Sample: Ever-married women age 15-49

### 16.6.1 Prevalence of Spousal Violence

Fifty-five percent of ever-married women have experienced emotional, sexual, or physical violence from their current or most recent husband/partner, and $46 \%$ have experienced such violence in the past 12 months (Table 16.9).

Overall, $45 \%$ of women reported one or more forms of spousal physical violence. Women experiencing spousal physical violence most commonly reported that their husband/partner slapped them (42\%). Twenty percent of women reported that their husband/partner pushed, shook, or threw something at them; 19\% reported that their husband/partner kicked, dragged, or beat them up; and 13\% each reported that their husband/partner twisted their arm or pulled their hair and that he punched them with his fist or with something else that could hurt them. Five percent of women reported that their husband/partner had tried to choke or burn them on purpose, and $3 \%$ reported that he had threatened or attacked them with a knife, gun, or other weapon (Figure 16.2).

Eight percent of ever-married women reported spousal sexual violence. Women experiencing spousal sexual violence most commonly reported that their husband/partner used physical force to have sexual intercourse with them when they did not want to (7\%). Five percent of women reported that their husband/partner physically forced them to perform other sexual acts they did not want to, and 3\% reported that he forced them with threats or in other ways to perform sexual acts that they did not want to (Figure 16.2).

Experience of emotional violence is also common. Thirty-four percent of ever-married women reported that their

Figure 16.2 Forms of spousal violence
 ever experienced specfic acts of violence by their husband/partner husband/partner insulted them or made them feel bad about themselves, and $29 \%$ reported that he said or did something to humiliate them in front of others. Eleven percent of women said that their husband/partner threatened to hurt or harm them or someone close to them. In all, $42 \%$ of women reported experiencing spousal emotional violence (Table 16.9).

Women who have been married (or cohabited as if married with a partner) more than once were also asked about their experience of physical, sexual, or emotional violence by any previous husband/partner. When violence by previous husbands/partners is included in the estimate of prevalence of spousal violence, the percentage of women who have ever experienced spousal emotional, physical, or sexual violence by any
husband/partner increases to $58 \%$, but the percentage experiencing such violence in the past 12 months does not change.

Trends: The prevalence of spousal violence is higher in 2019-20 than in 2007. Overall, the prevalence of spousal emotional, physical, or sexual violence rose from $49 \%$ in 2007 to $55 \%$ in 2019-20. In the same period, the prevalence of physical violence increased from $35 \%$ to $45 \%$, and the prevalence of emotional violence rose from $36 \%$ to $42 \%$. However, the prevalence of spousal sexual violence decreased from $11 \%$ in 2007 to $8 \%$ in 2019-20.

Patterns by background characteristics

- Women's experience of emotional, physical, or sexual violence declines with age, from 66\% among those age 15-19 to $48 \%$ among those age 40-49 (Table 16.10).
- By county, the prevalence of any spousal violence is highest in Sinoe ( $72 \%$ ) and lowest in River Cess (36\%) (Figure 16.3).
- Women's experience of violence varies inconsistently with education. The prevalence is highest among women with a junior high or senior high education (59\% each), but even $50 \%$ of women with a higher education report having experienced violence.
- Women's experience of violence also varies inconsistently with wealth. Although the prevalence of emotional, physical, or sexual violence is lowest among women in the highest wealth quintile, it is notable that, again, one out of two of even the wealthiest women have experienced some form of

Figure 16.3 Spousal violence by county
Percentage of ever-married women age 15-49 who have ever experienced physical, sexual, or emotional violence committed by their husband/partner
 spousal violence.

## Patterns by husband's characteristics and empowerment indicators

- Husbands' alcohol consumption appears correlated with women's likelihood of experiencing any form of violence. Overall, $77 \%$ of women whose husbands are often drunk have ever experienced emotional, physical, or sexual violence, as compared with $45 \%$ of women whose husbands do not drink alcohol (Table 16.11 and Figure 16.4).
- As expected, the prevalence of spousal emotional, physical, or sexual violence increases with the number of marital control behaviors displayed by husbands/partners, from $25 \%$ among women whose husband/partner does not display any of the specified behaviors to $87 \%$ among women whose husband/partner displays all five specified behaviors.

Figure 16.4 Spousal violence by husband's alcohol consumption

Percentage of ever-married women who have ever experienced spousal (physical, sexual, or emotional) violence by their husband/partner


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

- Intergenerational effects on the experience of spousal violence are evident in Liberia. Sixty-six percent of women who report that their fathers beat their mothers have themselves experienced spousal physical, sexual, or emotional violence, compared with $51 \%$ of women who report that their fathers did not beat their mothers.
- Experiences of spousal violence vary according to women's fear of their husband/partner. Women who say that they are afraid of their husband/partner most of the time are much more likely to have ever experienced spousal emotional, physical, or sexual violence $(72 \%)$ than women who are sometimes afraid of their husband/partner ( $60 \%$ ) and women who are never afraid of their husband/partner ( $37 \%$ ).
- The discussion thus far has focused largely on women's experience of spousal violence by their current or most recent husband/partner. For information on ever-married women's experience of violence by any husband/partner in the 12 months prior to the survey, see Table 16.12.


### 16.6.2 Onset of Spousal Violence

Table $\mathbf{1 6 . 1 3}$ shows when spousal violence first occurred in relation to the start of marriage among women married only once. Among currently married women age 15-49 who have been married only once, $37 \%$ first experienced spousal physical or sexual violence within the first 5 years of marriage; $24 \%$ of women first experienced such violence by 2 years of marriage, and $6 \%$ experienced violence before marriage.

### 16.7 Injuries to Women due to Spousal Violence

## Injuries due to spousal violence

Percentage of women who have the following types of injuries from spousal violence: cuts, bruises, or aches; eye injuries, sprains, dislocations, or burns; or deep wounds, broken bones, broken teeth, or any other serious injury.
Sample: Ever-married women age 15-49 who have experienced physical or sexual violence committed by their current husband/partner (if currently married) or most recent husband/partner (if formerly married)

Among ever-married women who have experienced spousal physical or sexual violence by their current or most recent husband/partner, $34 \%$ have sustained injuries (Table 16.14). Those who have experienced spousal sexual violence are more likely to report having sustained injuries (49\%) than those who have experienced spousal physical violence (34\%). Cuts, bruises, or aches are the most common type of injury (30\%) among women who have ever experienced physical or sexual violence, followed by eye injuries, sprains, dislocations, or burns $(14 \%)$. Eight percent of women report that they sustained deep wounds, broken bones, broken teeth, or any other serious injuries.

### 16.8 Violence Initiated by Women against Husbands

## Initiation of physical violence by wives

Percentage of women who have ever hit, slapped, kicked, or done anything else to physically hurt their current (if currently married) or most recent (if formerly married) husband/partner at times when he was not already beating or physically hurting them.
Sample: Ever-married women age 15-49

Either spouse can play a role in instigating domestic violence. All ever-married women were asked if they had ever initiated acts of physical violence against their husband/partner. Thirteen percent of women said that they had hit, slapped, kicked, or done anything else to physically hurt their husband/partner at times when he was not already beating or physically hurting them (Table 16.15).

Trends: The percentage of women who have ever initiated physical violence against their husband/partner has risen slightly over time, from $10 \%$ in 2007 to $13 \%$ in 2019-20. However, among women who have not experienced spousal physical violence, the percentage who have initiated physical violence against their husband/partner has not changed (4\%).

## Patterns by background characteristics

- Women's initiation of violence against their husband/partner appears correlated with their own experience of spousal violence. Twenty-three percent of women who have ever experienced spousal physical violence and $27 \%$ who experienced such violence in the past 12 months have ever initiated physical violence against their husband, as compared with $4 \%$ of women who have never experienced spousal physical violence (Table 16.15).
- More women in urban areas (14\%) than rural areas (10\%) have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them.
- The percentage of women who have committed physical violence against their current or most recent husband/partner is highest in Grand Bassa (19\%) and lowest in Grand Kru (2\%).


### 16.9 Help Seeking among Women Who Have Experienced Violence

Forty-two percent of women who have ever experienced physical or sexual violence sought help to stop the violence, while $48 \%$ never sought help or told anyone about the violence (Table 16.17).

## Patterns by background characteristics

- Women who have experienced both physical and sexual violence are more likely to have sought help ( $57 \%$ ) than women who have experienced only physical violence (39\%) (Figure 16.5).

Figure 16.5 Help seeking by type of violence experienced

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help

- Help seeking is more common among Christian (43\%) than Muslim (28\%) women who have experienced violence.
- Forty-eight percent of women who are employed for cash have sought help, as compared with $35 \%$ of women who are employed but not for cash and $37 \%$ of women who are not employed.
- Help seeking varies by county, from a high of $63 \%$ among women in Gbarpolu to a low of $30 \%$ among women in Lofa.
- Help seeking does not vary consistently by education or wealth.


### 16.9.1 Sources for Help

Among women who have experienced physical or sexual violence and who reported seeking help, the most common source for help is their own family (70\%), followed by their husband's/partner's family (30\%), a neighbor (19\%), and a friend (18\%) (Table 16.18). Six percent of women sought help from the police, $4 \%$ from a religious leader, and $1 \%$ each from doctors or medical personnel, lawyers, and social work organizations.

### 16.9.2 Usefulness and Impact of Help Sought

Women who had ever experienced physical or sexual violence and had sought help were asked additional questions regarding the usefulness of the help sought and whether the help had an impact on the frequency of violent assaults. Overall, $51 \%$ of these women said that the help was useful for the situation at that time, and $33 \%$ said that the help was useful in the longer term. Sixteen percent said that the help was not useful at all. Regarding the impact of the help on frequency of violence, $81 \%$ said that the help reduced the frequency and $15 \%$ said that it did not change the frequency. For $4 \%$ of women, the help sought resulted in an increase in frequency (Table 16.19).

## Patterns by background characteristics

- Forty-nine percent of women who had experienced only physical violence said that the help sought was useful for the situation at the time, and $36 \%$ said that it was useful in the longer term. Eighty-three percent of these women said that the help reduced the frequency of the violence, while $3 \%$ said that it resulted in an increase in violence. By contrast, $61 \%$ of women who experienced both physical and sexual violence said that the help was useful for the situation at the time, $21 \%$ said that it was useful in the longer term, and $74 \%$ said that it reduced the frequency of the violence. However, $10 \%$ of women who experienced both physical and sexual violence said that the help increased the frequency of the violence.
- Women who are divorced, separated, or widowed were much more likely to say that the help they sought was not useful (35\%) than married women (14\%) and never-married women (13\%). Also, divorced, separated, or widowed women were much less likely than married or unmarried women to say that the help reduced the frequency of assaults ( $61 \%$ versus $84 \%-85 \%$ ).
- Women who are not employed appear to have gained more from the help they sought than employed women. For example, $11 \%$ of women who were not employed said that the help they sought was not useful, as compared with $24 \%$ of women who were employed but not for cash and $17 \%$ of women who were employed for cash. Similarly, $88 \%$ of women who were not employed said that the help reduced the frequency of the violence, compared with $75 \%$ of women who were employed but not for cash and $79 \%$ of women who were employed for cash.
- The usefulness and impact of help sought do not vary consistently by education or wealth.


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| Table 16.1 Experience of physical violence |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence during the 12 months preceding the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |
|  | Percentage whohave experiencedPercentage who have experienced physical violence <br> in the past 12 months |  |  |  | Number of women |
| Background characteristic | physical violence since age 15 | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |
| Age |  |  |  |  |  |
| 15-19 | 53.7 | 2.7 | 27.4 | 30.1 | 646 |
| 20-24 | 66.8 | 7.0 | 33.3 | 40.3 | 593 |
| 25-29 | 61.3 | 7.0 | 26.4 | 33.3 | 503 |
| 30-39 | 63.4 | 6.7 | 26.5 | 33.3 | 823 |
| 40-49 | 53.8 | 6.8 | 18.9 | 26.0 | 555 |
| Religion |  |  |  |  |  |
| Christian | 61.0 | 6.1 | 25.7 | 32.0 | 2,668 |
| Muslim | 51.0 | 4.8 | 28.6 | 33.5 | 402 |
| Traditional religion |  |  |  |  | 13 |
| No religion | (78.5) | (9.5) | (53.7) | (63.3) | 36 |
| Residence |  |  |  |  |  |
| Urban | 63.6 | 5.4 | 27.2 | 32.7 | 1,957 |
| Greater Monrovia | 66.7 | 5.2 | 26.4 | 31.6 | 1,148 |
| Other urban | 59.1 | 5.8 | 28.3 | 34.2 | 809 |
| Rural | 54.0 | 6.9 | 25.6 | 32.7 | 1,163 |
| Region |  |  |  |  |  |
| North Western | 65.6 | 6.8 | 32.5 | 39.3 | 243 |
| South Central | 64.3 | 5.5 | 25.3 | 30.9 | 1,620 |
| South Eastern A | 54.0 | 6.2 | 27.0 | 34.0 | 176 |
| South Eastern B | 58.8 | 4.6 | 31.4 | 35.9 | 162 |
| North Central | 52.4 | 6.8 | 26.4 | 33.2 | 920 |
| County |  |  |  |  |  |
| Bomi | 57.8 | 4.7 | 29.8 | 34.5 | 95 |
| Bong | 51.1 | 2.5 | 25.1 | 27.7 | 305 |
| Gbarpolu | 66.3 | 11.1 | 30.7 | 41.7 | 43 |
| Grand Bassa | 63.0 | 3.9 | 24.2 | 28.0 | 181 |
| Grand Cape Mount | 72.4 | 6.8 | 35.8 | 42.6 | 104 |
| Grand Gedeh | 44.6 | 6.6 | 19.0 | 25.5 | 60 |
| Grand Kru | 49.1 | 2.0 | 26.6 | 28.7 | 47 |
| Lofa | 47.4 | 4.3 | 26.2 | 30.5 | 234 |
| Margibi | 52.3 | 7.3 | 20.5 | 28.3 | 176 |
| Maryland | 64.8 | 4.8 | 35.6 | 40.4 | 82 |
| Montserrado | 66.1 | 5.5 | 26.1 | 31.7 | 1,263 |
| Nimba | 56.5 | 11.7 | 27.6 | 39.3 | 381 |
| River Cess | 43.2 | 2.4 | 19.9 | 22.3 | 42 |
| River Gee | 58.0 | 7.6 | 27.6 | 35.2 | 33 |
| Sinoe | 68.0 | 8.0 | 37.8 | 47.6 | 74 |
| Marital status |  |  |  |  |  |
| Never married | 55.8 | 1.7 | 20.2 | 21.8 | 1,177 |
| Married or living together | 61.5 | 9.2 | 31.8 | 41.1 | 1,608 |
| Divorced/separated/widowed | 67.5 | 5.8 | 24.5 | 30.5 | 335 |
| Employment |  |  |  |  |  |
| Employed for cash | 64.5 | 5.7 | 27.7 | 33.5 | 1,399 |
| Employed not for cash | 50.1 | 7.5 | 23.0 | 30.5 | 603 |
| Not employed | 59.7 | 5.6 | 27.2 | 32.8 | 1,118 |
| Number of living children |  |  |  |  |  |
| 0 | 58.5 | 3.9 | 30.1 | 34.0 | 785 |
| 1-2 | 64.3 | 6.0 | 28.9 | 34.9 | 1,111 |
| 3-4 | 58.9 | 7.8 | 22.4 | 30.4 | 700 |
| 5+ | 54.7 | 6.7 | 22.2 | 29.1 | 524 |
| Education |  |  |  |  |  |
| No education | 56.6 | 7.4 | 26.8 | 34.4 | 957 |
| Elementary | 61.3 | 7.3 | 30.8 | 38.3 | 697 |
| Junior high | 61.7 | 7.0 | 25.0 | 32.0 | 602 |
| Senior high | 61.9 | 2.9 | 28.1 | 31.0 | 678 |
| Higher | 60.5 | 1.9 | 9.7 | 11.5 | 187 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 55.4 | 8.4 | 24.3 | 32.8 | 530 |
| Second | 53.8 | 7.0 | 29.2 | 36.3 | 546 |
| Middle | 59.8 | 5.8 | 28.0 | 33.9 | 627 |
| Fourth | 68.0 | 6.6 | 28.4 | 35.2 | 702 |
| Highest | 60.5 | 2.9 | 23.3 | 26.4 | 715 |
| Total | 60.0 | 6.0 | 26.6 | 32.7 | 3,120 |
| Notes: 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. <br> ${ }^{1}$ Includes violence in the past 12 months. For women who were married before age 15 and reported physical violence only by their husband/partner, the violence could have occurred before age 15. <br> ${ }^{2}$ Includes women who report physical violence in the past 12 months but for whom frequency is not known |  |  |  |  |  |

Table 16.2 Experience of 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, Liberia DHS 2019-20

|  | Percentage who <br> experienced <br> violence during <br> pregnancy | Number of <br> women who <br> have ever been <br> pregnant |
| :--- | :---: | :---: |
| Background <br> characteristic |  |  |

## Age

$20-24$
$25-29$
$30-39$

| 8.2 | 213 |
| :--- | :--- |
| 9.8 | 475 |
| 4.9 | 479 |
| 6.4 | 814 |
| 4.8 | 552 |

Religion

| Christian | 6.6 | 2,201 |
| :--- | :---: | ---: |
| Muslim | 6.3 |  |
| Traditional religion | $(0.0)$ |  |
| No religion |  | 32 |

Residence
Urban
Greater Monrovia
Other urban

| 6.2 | 1,507 |
| ---: | ---: |
| 6.2 | 862 |
| 6.2 | 644 |
| 7.1 | 1,026 |

844
1,026
Region

| Negrth Western | 8.2 | 219 |
| :--- | ---: | ---: |
| South Central | 6.0 | 1,237 |
| South Eastern A | 9.0 | 152 |
| South Eastern B | 9.6 | 133 |

South Eastern B
$5.9 \quad 791$

County

| Count |  |  |
| :--- | ---: | ---: |
| Bomi | 5.1 | 84 |
| Bong | 3.7 | 263 |
| Gbarpolu | 15.1 | 40 |
| Grand Bassa | 9.5 | 153 |
| Grand Cape Mount | 8.0 | 95 |
| Grand Gedeh | 5.3 | 52 |
| Grand Kru | 5.5 | 39 |
| Lofa | 6.0 | 185 |
| Margibi | 1.7 | 131 |
| Maryland | 13.2 | 68 |
| Montserrado | 6.0 | 953 |
| Nimba | 7.6 | 343 |
| River Cess | 5.2 | 37 |
| River Gee | 6.7 | 27 |
| Sinoe | 14.3 | 62 |

Sinoe
7.6

| Never married | 7.6 | 633 |
| :--- | ---: | ---: |
| Married or living together <br> Divorced/separated/ <br> widowed | 5.7 | 1,565 |


| Number of living children |  |  |
| :--- | ---: | ---: |
| 0 | 7.3 | 197 |
| $1-2$ | 6.5 | 1,111 |
| $3-4$ | 6.4 | 700 |
| 5+ | 6.6 | 524 |
| Education |  |  |
| $\quad$ No education | 6.6 | 911 |
| Elementary | 9.1 | 543 |
| Junior high | 9.5 | 407 |
| Senior high | 3.0 | 530 |
| $\quad$ Higher | 0.9 | 142 |
| Wealth quintile |  |  |
| $\quad$ Lowest | 10.2 | 477 |
| Second | 5.2 | 486 |
| Middle | 6.0 | 520 |
| Fourth | 6.4 | 542 |
| Highest | 5.1 | 508 |
| Total | 6.5 | 2,533 |

Notes: 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 16.3 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 respondent's current marital status, Liberia DHS 2019-20

|  | Marital status |  |  |
| :--- | :---: | :---: | ---: |
| Person | Ever married | Never married | Total |
| Current husband/partner | 57.9 | na | 37.6 |
| Former husband/partner | 25.9 | na | 16.8 |
| Current boyfriend | 3.3 | 8.1 | 5.0 |
| Former boyfriend | 9.4 | 11.4 | 10.1 |
| Father/stepfather | 18.2 | 31.5 | 22.8 |
| Mother/stepmother | 20.4 | 47.2 | 29.8 |
| Sister/brother | 7.4 | 14.8 | 10.0 |
| Daughter/son | 0.1 | 0.1 | 0.1 |
| Other relative | 7.0 | 12.7 | 9.0 |
| Mother-in-law | 0.1 | na | 0.1 |
| Father-in-law | 0.1 | na | 0.1 |
| Other in-law | 1.5 | na | 1.0 |
| Teacher | 1.2 | 6.8 | 3.2 |
| Employer/someone at work | 0.1 | 0.5 | 0.2 |
| Other | 2.8 | 4.5 | 3.4 |
| Number of women who have |  |  |  |
| $\quad$ experienced physical |  |  |  |
| violence since age 15 | 1,216 | 657 | 1,872 |

Note: Women can report more than one person who committed the violence. na $=$ Not applicable

| Table 16.4 Experience of sexual violence |  |  |  |
| :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 who have ever experienced sexual violence and percentage who experienced sexual violence in the 12 months preceding the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |  |
|  | Percentage who have experienced sexual violence: |  |  |
| Background characteristic | Ever ${ }^{1}$ | In the past 12 months | Number of women |
| Age |  |  |  |
| 15-19 | 6.0 | 3.4 | 646 |
| 20-24 | 11.2 | 5.9 | 593 |
| 25-29 | 9.7 | 2.5 | 503 |
| 30-39 | 10.0 | 4.7 | 823 |
| 40-49 | 8.6 | 5.8 | 555 |
| Religion |  |  |  |
| Christian | 9.8 | 4.8 | 2,668 |
| Muslim | 4.4 | 2.8 | 402 |
| Traditional religion | * | * | 13 |
| No religion | (4.7) | (2.0) | 36 |
| Residence |  |  |  |
| Urban | 8.6 | 3.8 | 1,957 |
| Greater Monrovia | 5.4 | 1.4 | 1,148 |
| Other urban | 13.1 | 7.2 | 809 |
| Rural | 10.0 | 5.7 | 1,163 |
| Region |  |  |  |
| North Western | 10.7 | 5.0 | 243 |
| South Central | 7.3 | 2.7 | 1,620 |
| South Eastern A | 9.3 | 5.2 | 176 |
| South Eastern B | 7.2 | 3.5 | 162 |
| North Central | 12.1 | 7.6 | 920 |
| County |  |  |  |
| Bomi | 12.8 | 5.5 | 95 |
| Bong | 8.7 | 3.5 | 305 |
| Gbarpolu | 6.0 | 2.0 | 43 |
| Grand Bassa | 14.0 | 3.2 | 181 |
| Grand Cape Mount | 10.7 | 5.8 | 104 |
| Grand Gedeh | 8.5 | 2.9 | 60 |
| Grand Kru | 5.0 | 2.8 | 47 |
| Lofa | 5.4 | 3.5 | 234 |
| Margibi | 12.3 | 9.9 | 176 |
| Maryland | 9.1 | 4.7 | 82 |
| Montserrado | 5.7 | 1.7 | 1,263 |
| Nimba | 19.0 | 13.3 | 381 |
| River Cess | 5.8 | 3.1 | 42 |
| River Gee | 5.5 | 1.2 | 33 |
| Sinoe | 11.9 | 8.2 | 74 |
| Marital status |  |  |  |
| Never married | 4.4 | 0.4 | 1,177 |
| Married or living together | 11.3 | 7.7 | 1,608 |
| Divorced/separated/widowed | 14.8 | 3.5 | 335 |
| Employment |  |  |  |
| Employed for cash | 10.1 | 3.5 | 1,399 |
| Employed not for cash | 8.7 | 5.7 | 603 |
| Not employed | 8.0 | 5.1 | 1,118 |
| Number of living children |  |  |  |
| 0 | 5.9 | 3.1 | 785 |
| 1-2 | 9.2 | 4.0 | 1,111 |
| 3-4 | 11.3 | 5.1 | 700 |
| 5+ | 10.7 | 7.1 | 524 |
| Education |  |  |  |
| No education | 9.4 | 5.6 | 957 |
| Elementary | 12.1 | 6.4 | 697 |
| Junior high | 5.6 | 3.2 | 602 |
| Senior high | 9.2 | 3.1 | 678 |
| Higher | 7.3 | 1.2 | 187 |
| Wealth quintile |  |  |  |
| Lowest | 9.1 | 5.5 | 530 |
| Second | 12.2 | 7.4 | 546 |
| Middle | 12.9 | 6.9 | 627 |
| Fourth | 5.9 | 1.9 | 702 |
| Highest | 6.5 | 2.1 | 715 |
| Total | 9.1 | 4.5 | 3,120 |
| 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. <br> ${ }^{1}$ Includes violence in the past 12 months |  |  |  |

Table 16.5 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 current marital status, Liberia DHS 2019-20

| Background characteristic | Percentage who first experienced sexual violence by exact age: |  |  |  |  | Percentage who have not experienced sexual violence | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | 12 | 15 | 18 | 22 |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 0.1 | 0.5 | 2.4 | na | na | 94.0 | 646 |
| 20-24 | 0.0 | 1.8 | 4.3 | 6.3 | na | 88.8 | 593 |
| 25-29 | 0.0 | 0.5 | 2.9 | 5.3 | 7.8 | 90.3 | 503 |
| 30-39 | 0.1 | 0.5 | 1.6 | 4.7 | 5.9 | 90.0 | 823 |
| 40-49 | 0.0 | 0.3 | 2.3 | 3.5 | 4.7 | 91.4 | 555 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 0.1 | 0.9 | 2.2 | 3.6 | 4.3 | 95.6 | 1,177 |
| Ever married | 0.1 | 0.6 | 2.8 | 5.8 | 7.7 | 88.1 | 1,943 |
| Total | 0.1 | 0.7 | 2.6 | 5.0 | 6.4 | 90.9 | 3,120 |

na $=$ Not applicable

Table 16.6 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 respondent's current marital status, Liberia DHS 2019-20

|  | Marital status |  |  |
| :--- | :---: | :---: | ---: |
| Person | Ever married | Never married | Total |
| Current husband/partner | 53.7 | na | 43.8 |
| Former husband/partner | 29.0 | na | 23.7 |
| Current/former boyfriend | 4.0 | $(25.0)$ | 7.9 |
| Father/stepfather | 0.2 | $(2.4)$ | 0.6 |
| Brother/stepbrother | 0.5 | $(0.0)$ | 0.4 |
| Other relative | 4.5 | $(4.9)$ | 4.6 |
| In-law | 0.5 | na | 0.6 |
| Own friend/acquaintance | 7.0 | $(27.5)$ | 10.7 |
| Family friend | 1.0 | $(5.7)$ | 1.9 |
| Teacher | 1.0 | $(0.3)$ | 0.9 |
| Employer/someone at work | 0.0 | $(0.0)$ | 0.0 |
| Police/soldier | 3.5 | $(5.9)$ | 3.9 |
| Priest/religious leader | 0.0 | $(5.6)$ | 1.0 |
| Stranger | 8.1 | $(18.9)$ | 10.1 |
| Other | 0.3 | $(2.8)$ | 0.7 |
| Number of women who have |  |  |  |
| experienced sexual |  |  |  |
| violence | 232 | 52 | 284 |

Note: Ever-married women can report up to three perpetrators: a current husband, former husband, or one other person who is not a current or former husband. Nevermarried women can report only the person who was the first to commit the violence.
Figures in parentheses are based on 25-49 unweighted cases.
na $=$ Not applicable

| Table 16.7 Experience of different forms of violence |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of women age 15-49 who have ever experienced different forms of violence, by current age, Liberia DHS 2019-20 |  |  |  |  |  |
| Age | Physical violence only | Sexual violence only | Physical and sexual violence | Physical or sexual violence | Number of women |
| 15-19 | 48.1 | 0.4 | 5.7 | 54.1 | 646 |
| 15-17 | 49.4 | 0.6 | 3.6 | 53.5 | 363 |
| 18-19 | 46.4 | 0.1 | 8.3 | 54.8 | 283 |
| 20-24 | 55.7 | 0.1 | 11.1 | 66.9 | 593 |
| 25-29 | 53.4 | 1.7 | 8.0 | 63.1 | 503 |
| 30-39 | 54.0 | 0.6 | 9.4 | 64.0 | 823 |
| 40-49 | 45.7 | 0.5 | 8.1 | 54.3 | 555 |
| Total | 51.5 | 0.6 | 8.5 | 60.6 | 3,120 |

Table 16.8 Marital control exercised by husbands
Percentage of ever-married women age 15-49 whose husbands/partners have ever demonstrated specific types of controlling behaviors, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of women whose husband/partner: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Is jealous or angry if she talks to other men | Frequently 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 | Displays 3 or more of the specific behaviors | Displays none of the specific behaviors | Number of evermarried women |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 73.0 | 52.9 | 37.5 | 16.4 | 70.2 | 55.9 | 14.3 | 87 |
| 20-24 | 72.4 | 62.7 | 45.9 | 24.1 | 71.9 | 60.6 | 12.0 | 295 |
| 25-29 | 69.5 | 33.0 | 32.4 | 14.0 | 61.6 | 41.0 | 18.6 | 334 |
| 30-39 | 67.6 | 43.1 | 34.8 | 18.3 | 64.6 | 45.1 | 18.4 | 718 |
| 40-49 | 56.5 | 38.0 | 33.8 | 18.2 | 55.5 | 39.5 | 26.4 | 508 |
| Religion |  |  |  |  |  |  |  |  |
| Christian | 66.1 | 44.4 | 35.8 | 18.7 | 63.3 | 46.6 | 19.9 | 1,656 |
| Muslim | 65.1 | 38.0 | 37.4 | 16.5 | 61.6 | 41.4 | 15.6 | 262 |
| Traditional religion |  | * | * | * | * | * |  | 8 |
| No religion | * | * | * | * | * | * | * | 16 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 65.8 | 43.7 | 37.7 | 19.1 | 65.1 | 47.1 | 18.0 | 1,067 |
| Greater Monrovia | 60.2 | 37.7 | 38.1 | 17.2 | 65.8 | 42.2 | 18.8 | 538 |
| Other urban | 71.6 | 49.9 | 37.3 | 21.0 | 64.5 | 52.2 | 17.1 | 528 |
| Rural | 66.1 | 43.1 | 33.8 | 17.4 | 60.5 | 44.1 | 21.0 | 876 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 61.9 | 38.3 | 30.6 | 13.8 | 56.3 | 40.1 | 24.9 | 196 |
| South Central | 63.0 | 40.4 | 37.0 | 17.0 | 63.2 | 44.1 | 19.5 | 841 |
| South Eastern A | 63.2 | 49.4 | 29.8 | 15.2 | 53.8 | 44.5 | 28.0 | 131 |
| South Eastern B | 72.6 | 43.3 | 30.2 | 12.3 | 62.2 | 44.8 | 16.9 | 106 |
| North Central | 70.4 | 47.6 | 38.3 | 22.9 | 66.9 | 50.0 | 16.3 | 669 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 54.9 | 45.0 | 25.5 | 15.0 | 38.8 | 35.0 | 32.0 | 75 |
| Bong | 71.2 | 45.0 | 36.1 | 15.9 | 70.6 | 52.1 | 18.1 | 208 |
| Gbarpolu | 60.5 | 34.6 | 26.8 | 13.9 | 54.2 | 33.9 | 31.0 | 36 |
| Grand Bassa | 64.4 | 45.4 | 33.2 | 16.5 | 56.3 | 48.0 | 25.5 | 118 |
| Grand Cape Mount | 68.7 | 33.9 | 36.7 | 12.6 | 72.7 | 47.2 | 15.8 | 84 |
| Grand Gedeh | 58.0 | 41.3 | 25.5 | 11.0 | 43.8 | 39.1 | 36.2 | 48 |
| Grand Kru | 79.9 | 48.7 | 29.1 | 13.9 | 58.6 | 45.2 | 17.0 | 30 |
| Lofa | 67.7 | 45.2 | 29.8 | 17.4 | 68.6 | 41.9 | 13.1 | 159 |
| Margibi | 70.8 | 43.9 | 31.7 | 19.7 | 58.4 | 48.5 | 20.5 | 113 |
| Maryland | 63.8 | 29.3 | 25.9 | 9.8 | 56.8 | 33.4 | 20.3 | 53 |
| Montserrado | 61.3 | 38.8 | 38.7 | 16.6 | 65.4 | 42.5 | 18.1 | 611 |
| Nimba | 71.2 | 50.7 | 44.3 | 30.7 | 63.3 | 52.8 | 16.6 | 301 |
| River Cess | 41.3 | 33.8 | 10.4 | 10.8 | 37.8 | 24.4 | 45.2 | 30 |
| River Gee | 83.9 | 69.7 | 41.7 | 16.3 | 79.8 | 71.4 | 8.9 | 22 |
| Sinoe | 79.7 | 65.0 | 44.3 | 21.3 | 71.5 | 60.4 | 11.2 | 54 |
| Marital status |  |  |  |  |  |  |  |  |
| Married or living together | 66.2 | 42.9 | 35.9 | 18.8 | 62.8 | 45.2 | 18.6 | 1,608 |
| Divorced/separated/ widowed | 65.1 | 45.9 | 36.3 | 16.2 | 64.3 | 48.5 | 23.0 | 335 |
|  |  |  |  |  |  |  |  |  |
| $0$ | 64.6 | 56.0 | 37.6 | 19.6 | 74.0 | 58.2 | 15.3 | 146 |
| 1-2 | 72.3 | 46.9 | 37.9 | 18.4 | 67.7 | 48.9 | 12.8 | 675 |
| 3-4 | 63.0 | 38.8 | 35.0 | 17.8 | 58.8 | 41.4 | 23.4 | 616 |
| $5+$ | 61.5 | 40.9 | 34.1 | 18.5 | 58.9 | 43.3 | 24.4 | 507 |
| Employment |  |  |  |  |  |  |  |  |
| Employed for cash | 66.8 | 42.0 | 33.2 | 14.6 | 63.0 | 43.0 | 18.5 | 992 |
| Employed not for cash | 66.7 | 45.3 | 36.6 | 25.1 | 60.1 | 47.7 | 24.1 | 470 |
| Not employed | 63.6 | 44.6 | 41.0 | 19.3 | 66.1 | 49.6 | 16.4 | 481 |
| Education |  |  |  |  |  |  |  |  |
| No education | 62.2 | 40.2 | 35.9 | 18.7 | 59.3 | 43.0 | 23.2 | 821 |
| Elementary | 68.7 | 42.7 | 36.7 | 20.7 | 60.9 | 47.3 | 19.2 | 429 |
| Junior high | 72.2 | 51.6 | 42.2 | 15.7 | 67.4 | 53.4 | 11.7 | 257 |
| Senior high | 72.1 | 50.6 | 33.1 | 16.7 | 72.9 | 49.9 | 13.7 | 356 |
| Higher | 43.4 | 23.0 | 25.2 | 17.1 | 56.1 | 23.4 | 30.3 | 81 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 65.8 | 43.6 | 37.5 | 21.8 | 60.1 | 46.0 | 20.7 | 414 |
| Second | 67.2 | 48.0 | 37.5 | 18.8 | 61.4 | 47.3 | 19.7 | 389 |
| Middle | 69.1 | 48.2 | 36.6 | 20.5 | 66.8 | 49.5 | 16.8 | 415 |
| Fourth | 63.6 | 39.3 | 33.7 | 12.2 | 64.0 | 44.0 | 20.0 | 373 |
| Highest | 63.6 | 36.9 | 34.1 | 17.6 | 62.8 | 41.3 | 19.6 | 353 |
| Woman afraid of husband/partner |  |  |  |  |  |  |  |  |
| Afraid most of the time | 75.3 | 56.7 | 52.7 | 31.8 | 77.8 | 64.3 | 11.0 | 305 |
| Sometimes afraid | 69.4 | 45.6 | 33.6 | 17.3 | 60.1 | 45.8 | 20.1 | 1,084 |
| Never afraid | 54.1 | 32.0 | 31.3 | 12.9 | 60.8 | 35.5 | 22.4 | 553 |
| Total | 66.0 | 43.5 | 36.0 | 18.3 | 63.1 | 45.8 | 19.3 | 1,943 |

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

## Table 16.9 Forms of spousal violence

Percentage of ever-married women age 15-49 who have experienced various forms of violence ever or in the 12 months preceding the survey committed by their current or most recent husband/partner, and any husband/partner, Liberia DHS 2019-20

| Type of violence experienced | Ever experienced | Experienced in the past 12 months | Frequency in the past 12 months |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Often | Sometimes |

SPOUSAL VIOLENCE COMMITTED BY CURRENT OR MOST RECENT HUSBAND/PARTNER ${ }^{1}$

| Physical violence |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Any physical violence | 44.8 | 33.8 | 7.2 | 26.6 |
| Pushed her, shook her, or threw something at her | 20.1 | 16.0 | 3.8 | 12.2 |
| Slapped her | 41.5 | 30.4 | 4.9 | 25.5 |
| Twisted her arm or pulled her hair | 13.4 | 10.2 | 1.7 | 8.5 |
| Punched her with his fist or with something that could hurt her | 12.7 | 10.0 | 2.4 | 7.5 |
| Kicked her, dragged her, or beat her up | 18.9 | 13.5 | 2.3 | 11.2 |
| Tried to choke her or burn her on purpose | 4.7 | 4.0 | 0.9 | 3.1 |
| Threatened her or attacked her with a knife, gun, or other weapon | 2.7 | 2.2 | 0.7 | 1.4 |
| Sexual violence |  |  |  |  |
| Any sexual violence | 8.1 | 6.8 | 1.7 | 5.2 |
| Physically forced her to have sexual intercourse with him when she did not want to | 7.4 | 6.3 | 1.4 | 4.8 |
| Physically forced her to perform any other sexual acts she did not want to | 4.8 | 4.2 | 1.0 | 3.2 |
| Forced her with threats or in any other way to perform sexual acts she did not want to | 2.7 | 2.2 | 0.9 | 1.4 |
| Emotional violence |  |  |  |  |
| Any emotional violence | 41.8 | 35.0 | 9.3 | 25.7 |
| Said or did something to humiliate her in front of others | 29.0 | 23.6 | 5.2 | 18.4 |
| Threatened to hurt or harm her or someone she cared about | 11.0 | 9.4 | 2.8 | 6.6 |
| Insulted her or made her feel bad about herself | 34.2 | 28.8 | 7.0 | 21.8 |
| Any form of physical and/or sexual violence | 45.6 | 34.6 | 7.9 | 26.6 |
| Any form of emotional and/or physical and/or sexual violence | 55.3 | 45.5 | 12.9 | 32.6 |
| SPOUSAL VIOLENCE COMMITTED BY ANY HUSBAND/PARTNER |  |  |  |  |
| Physical violence | 48.6 | 34.0 | na | na |
| Sexual violence | 8.9 | 6.9 | na | na |
| Emotional violence | 44.3 | 35.0 | na | na |
| Any form of physical or sexual violence | 49.3 | 34.8 | na | na |
| Any form of emotional or physical or sexual violence | 58.2 | 45.6 | na | na |
| Number of ever-married women | 1,943 | 1,943 | 1,943 | 1,943 |

[^30] separated, or widowed women

| Table 16.10 Spousal violence by background characteristics |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |  |  |
| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Emotional, physical, and sexual | Physical or sexual | Emotional, physical, or sexual | Number of evermarried women |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 45.5 | 59.1 | 20.1 | 20.1 | 16.6 | 59.1 | 66.1 | 87 |
| 20-24 | 52.0 | 56.2 | 12.5 | 12.2 | 11.7 | 56.5 | 63.6 | 295 |
| 25-29 | 42.0 | 48.5 | 4.4 | 4.3 | 4.0 | 48.6 | 60.2 | 334 |
| 30-39 | 38.1 | 42.8 | 7.2 | 6.2 | 4.8 | 43.9 | 53.2 | 718 |
| 40-49 | 40.1 | 36.1 | 7.1 | 5.9 | 5.7 | 37.3 | 48.3 | 508 |
| Religion |  |  |  |  |  |  |  |  |
| Christian | 42.3 | 45.4 | 8.6 | 7.8 | 6.8 | 46.2 | 56.0 | 1,656 |
| Muslim | 36.4 | 39.5 | 4.7 | 4.1 | 3.9 | 40.1 | 49.6 | 262 |
| Traditional religion | * | * | * | * | * | * | * | 8 |
| No religion | * | * | * | * | * | * | * | 16 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 41.1 | 46.4 | 7.3 | 6.7 | 5.6 | 47.0 | 57.3 | 1,067 |
| Greater Monrovia | 37.6 | 46.8 | 2.4 | 2.2 | 2.0 | 47.0 | 58.3 | 538 |
| Other urban | 44.7 | 45.9 | 12.2 | 11.2 | 9.2 | 46.9 | 56.2 | 528 |
| Rural | 42.5 | 42.9 | 9.1 | 8.1 | 7.5 | 43.9 | 52.9 | 876 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 42.1 | 45.9 | 9.2 | 7.7 | 6.8 | 47.4 | 54.8 | 196 |
| South Central | 39.1 | 45.5 | 5.3 | 4.9 | 4.2 | 45.8 | 56.0 | 841 |
| South Eastern A | 43.2 | 44.3 | 6.3 | 4.9 | 4.1 | 45.7 | 53.7 | 131 |
| South Eastern B | 39.2 | 53.3 | 5.6 | 4.7 | 4.3 | 54.2 | 60.9 | 106 |
| North Central | 45.1 | 42.4 | 12.0 | 11.1 | 10.0 | 43.3 | 53.9 | 669 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 31.3 | 33.9 | 10.9 | 9.3 | 8.4 | 35.5 | 41.0 | 75 |
| Bong | 44.3 | 40.5 | 8.9 | 8.0 | 7.6 | 41.4 | 51.6 | 208 |
| Gbarpolu | 49.2 | 45.0 | 3.9 | 3.9 | 2.3 | 45.0 | 58.5 | 36 |
| Grand Bassa | 47.4 | 48.0 | 6.9 | 6.2 | 5.1 | 48.7 | 58.0 | 118 |
| Grand Cape Mount | 48.7 | 57.0 | 10.1 | 7.9 | 7.4 | 59.2 | 65.5 | 84 |
| Grand Gedeh | 33.0 | 34.2 | 3.6 | 3.0 | 3.0 | 34.8 | 43.3 | 48 |
| Grand Kru | 20.6 | 46.8 | 4.4 | 4.4 | 2.9 | 46.8 | 48.4 | 30 |
| Lofa | 35.5 | 36.7 | 4.7 | 4.7 | 4.7 | 36.7 | 43.9 | 159 |
| Margibi | 35.2 | 40.8 | 16.2 | 16.2 | 13.5 | 40.8 | 47.0 | 113 |
| Maryland | 48.7 | 58.9 | 8.5 | 6.9 | 6.9 | 60.4 | 68.9 | 53 |
| Montserrado | 38.2 | 45.8 | 3.0 | 2.6 | 2.3 | 46.2 | 57.3 | 611 |
| Nimba | 50.8 | 46.7 | 18.0 | 16.6 | 14.4 | 48.1 | 60.9 | 301 |
| River Cess | 27.6 | 30.6 | 5.1 | 4.5 | 3.0 | 31.1 | 36.2 | 30 |
| River Gee | 41.4 | 48.7 | 0.5 | 0.0 | 0.0 | 49.2 | 58.5 | 22 |
| Sinoe | 60.9 | 60.7 | 9.4 | 6.8 | 5.7 | 63.3 | 72.4 | 54 |
| Marital status |  |  |  |  |  |  |  |  |
| Married or living together | 40.4 | 43.7 | 7.7 | 7.0 | 6.1 | 44.4 | 54.4 | 1,608 |
| Divorced/separated/ widowed | 48.3 | 49.9 | 10.0 | 8.6 | 8.1 | 51.3 | 59.4 | 335 |
| Number of living children |  |  |  |  |  |  |  |  |
| 0 | 51.7 | 56.2 | 13.7 | 13.6 | 12.1 | 56.3 | 70.8 | 146 |
| 1-2 | 42.1 | 48.8 | 7.1 | 7.0 | 6.4 | 49.0 | 56.1 | 675 |
| 3-4 | 41.0 | 43.5 | 7.5 | 6.2 | 5.4 | 44.7 | 55.0 | 616 |
| 5+ | 39.4 | 37.7 | 8.5 | 7.3 | 6.3 | 38.9 | 50.1 | 507 |
| Employment |  |  |  |  |  |  |  |  |
| Employed for cash | 44.5 | 44.2 | 6.2 | 5.2 | 4.3 | 45.2 | 57.9 | 992 |
| Employed not for cash | 40.4 | 40.7 | 8.1 | 7.6 | 7.4 | 41.3 | 49.8 | 470 |
| Not employed | 37.4 | 50.1 | 11.9 | 11.4 | 10.1 | 50.6 | 55.3 | 481 |
| Education |  |  |  |  |  |  |  |  |
| No education | 40.0 | 40.4 | 8.0 | 7.3 | 6.4 | 41.1 | 51.7 | 821 |
| Elementary | 44.4 | 49.0 | 11.4 | 10.3 | 9.2 | 50.1 | 57.6 | 429 |
| Junior high | 40.7 | 49.9 | 7.0 | 5.4 | 5.0 | 51.5 | 58.7 | 257 |
| Senior high | 45.1 | 47.8 | 6.3 | 6.2 | 5.2 | 47.8 | 59.3 | 356 |
| Higher | 33.9 | 38.2 | 2.7 | 2.7 | 2.7 | 38.2 | 50.3 | 81 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 45.4 | 44.3 | 9.1 | 8.4 | 7.8 | 45.0 | 55.0 | 414 |
| Second | 43.5 | 42.1 | 12.6 | 11.5 | 9.8 | 43.2 | 52.4 | 389 |
| Middle | 43.6 | 48.0 | 10.8 | 9.8 | 8.5 | 49.0 | 56.0 | 415 |
| Fourth | 40.8 | 49.5 | 3.0 | 2.4 | 2.3 | 50.2 | 62.0 | 373 |
| Highest | 34.4 | 39.6 | 4.1 | 3.7 | 3.1 | 39.9 | 50.9 | 353 |
| Total | 41.8 | 44.8 | 8.1 | 7.3 | 6.5 | 45.6 | 55.3 | 1,943 |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 16.11 Spousal violence by husband's characteristics and empowerment indicators
Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to the husband's characteristics and women's empowerment indicators, Liberia DHS 2019-20

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Emotional and physical and sexual | Physical or sexual | Emotional or physical or sexual | Number of ever-married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Husband's/partner's education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 42.3 | 42.8 | 7.9 | 7.7 | 7.5 | 43.0 | 53.5 | 392 |
| Elementary | 48.5 | 47.9 | 9.0 | 8.1 | 7.5 | 48.9 | 57.4 | 202 |
| Junior high | 37.4 | 48.8 | 9.5 | 8.1 | 5.9 | 50.2 | 61.5 | 213 |
| Senior high | 36.9 | 44.1 | 6.7 | 5.8 | 4.4 | 45.1 | 53.7 | 496 |
| Higher | 42.8 | 37.9 | 5.2 | 5.2 | 5.2 | 37.9 | 51.9 | 211 |
| Don't know | 35.3 | 38.3 | 10.7 | 10.6 | 9.2 | 38.5 | 45.6 | 93 |
| Husband's/partner's alcohol consumption |  |  |  |  |  |  |  |  |
| Does not drink alcohol | 33.3 | 35.7 | 4.9 | 4.1 | 3.1 | 36.4 | 45.2 | 1,163 |
| Drinks alcohol but is never drunk | (50.9) | (65.3) | (7.6) | (7.6) | (7.6) | (65.3) | (70.4) | 37 |
| Is sometimes drunk | 50.8 | 55.4 | 11.8 | 10.8 | 10.4 | 56.5 | 68.4 | 575 |
| Is often drunk | 68.0 | 67.4 | 17.7 | 17.6 | 16.2 | 67.5 | 77.2 | 167 |
| Spousal education difference ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Husband has more education | 41.0 | 43.9 | 7.5 | 7.0 | 5.7 | 44.4 | 55.9 | 853 |
| Wife has more education | 44.0 | 49.4 | 8.7 | 6.7 | 6.6 | 51.4 | 56.7 | 187 |
| Both have equal education | 32.4 | 44.9 | 7.0 | 6.2 | 5.3 | 45.7 | 51.3 | 168 |
| Neither has any education | 42.8 | 40.5 | 7.1 | 6.9 | 6.7 | 40.7 | 53.3 | 298 |
| Don't know | 34.8 | 39.6 | 9.8 | 9.6 | 8.4 | 39.8 | 46.3 | 102 |
| Spousal age difference ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Wife older | 41.5 | 41.8 | 9.2 | 9.1 | 9.1 | 41.9 | 52.6 | 147 |
| Wife is same age | 49.2 | 48.1 | 15.5 | 11.7 | 11.7 | 52.0 | 58.5 | 81 |
| Wife 1-4 years younger | 40.1 | 51.0 | 7.5 | 6.7 | 5.7 | 51.8 | 57.0 | 474 |
| Wife 5-9 years younger | 40.6 | 42.7 | 7.8 | 7.4 | 6.9 | 43.1 | 55.2 | 469 |
| Wife 10 or more years younger | 38.5 | 36.8 | 5.9 | 5.5 | 3.7 | 37.2 | 50.8 | 436 |
| Number of marital control behaviors displayed by husband/partner ${ }^{2}$ |  |  |  |  |  |  |  |  |
| 0 | 14.4 | 20.7 | 2.0 | 1.8 | 1.0 | 21.0 | 25.2 | 376 |
| 1-2 | 27.0 | 36.2 | 3.0 | 2.4 | 1.5 | 36.9 | 45.2 | 678 |
| 3-4 | 58.1 | 57.8 | 10.7 | 9.7 | 8.5 | 58.8 | 72.2 | 679 |
| 5 | 85.4 | 73.3 | 26.9 | 25.5 | 25.5 | 74.7 | 87.0 | 210 |
| Number of decisions in which women participate ${ }^{3}$ |  |  |  |  |  |  |  |  |
| 0 | 46.4 | 49.4 | 16.5 | 15.9 | 13.2 | 50.0 | 57.4 | 176 |
| 1-2 | 40.7 | 53.0 | 9.0 | 8.8 | 6.7 | 53.2 | 60.3 | 290 |
| 3 | 39.4 | 40.5 | 6.0 | 5.2 | 4.9 | 41.3 | 52.5 | 1,142 |
| Number of reasons for which wife beating is justified ${ }^{4}$ |  |  |  |  |  |  |  |  |
| 0 | 35.3 | 37.8 | 7.1 | 6.2 | 5.0 | 38.7 | 48.2 | 1,164 |
| 1-2 | 44.4 | 50.9 | 4.5 | 3.9 | 3.8 | 51.6 | 61.4 | 365 |
| 3-4 | 57.6 | 59.4 | 14.0 | 13.4 | 12.9 | 60.0 | 70.9 | 336 |
| 5 | 58.8 | 57.2 | 13.8 | 13.4 | 12.6 | 57.5 | 64.9 | 77 |
| Father beat mother |  |  |  |  |  |  |  |  |
| Yes | 54.3 | 53.1 | 9.5 | 8.7 | 7.9 | 53.9 | 66.2 | 478 |
| No | 37.6 | 40.3 | 8.4 | 7.6 | 6.6 | 41.1 | 50.7 | 1,252 |
| Don't know | 37.8 | 52.4 | 2.9 | 2.4 | 2.4 | 53.0 | 58.0 | 212 |
| Woman afraid of husband/partner |  |  |  |  |  |  |  |  |
| Afraid most of the time | 61.3 | 61.4 | 17.9 | 17.0 | 15.2 | 62.2 | 71.7 | 305 |
| Sometimes afraid | 43.6 | 49.0 | 7.7 | 6.7 | 5.9 | 50.0 | 60.2 | 1,084 |
| Never afraid | 27.4 | 27.4 | 3.6 | 3.3 | 2.6 | 27.7 | 36.5 | 553 |
| Total | 41.8 | 44.8 | 8.1 | 7.3 | 6.5 | 45.6 | 55.3 | 1,943 |

[^31]Table 16.12 Violence by any husband/partner in the last 12 months
Percentage of ever-married women who have experienced emotional, physical, or sexual violence by any husband/partner in the past 12 months, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Emotional violence | Physical violence | Sexual violence | Physical and sexual | Emotional and physical and sexual | Physical or sexual | Emotional or physical or sexual | Number of ever-married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 41.0 | 57.1 | 20.1 | 19.3 | 16.6 | 57.9 | 61.3 | 87 |
| 20-24 | 45.1 | 52.0 | 11.4 | 11.0 | 10.2 | 52.5 | 58.4 | 295 |
| 25-29 | 38.2 | 37.8 | 3.8 | 3.6 | 3.6 | 38.0 | 50.2 | 334 |
| 30-39 | 31.6 | 28.7 | 5.4 | 4.2 | 3.0 | 30.0 | 42.8 | 718 |
| 40-49 | 31.0 | 24.4 | 6.3 | 5.5 | 5.2 | 25.2 | 36.4 | 508 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 35.7 | 35.9 | 6.6 | 5.9 | 4.8 | 36.6 | 48.6 | 1,067 |
| Greater Monrovia | 33.0 | 34.2 | 2.4 | 2.2 | 2.0 | 34.4 | 49.0 | 538 |
| Other urban | 38.4 | 37.6 | 10.8 | 9.6 | 7.8 | 38.8 | 48.2 | 528 |
| Rural | 34.3 | 31.6 | 7.4 | 6.4 | 6.0 | 32.6 | 42.0 | 876 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 34.1 | 34.3 | 6.0 | 5.0 | 4.1 | 35.3 | 43.4 | 196 |
| South Central | 33.4 | 34.0 | 4.8 | 4.3 | 3.7 | 34.4 | 46.5 | 841 |
| South Eastern A | 37.6 | 36.3 | 6.9 | 5.1 | 4.7 | 38.1 | 46.6 | 131 |
| South Eastern B | 33.5 | 40.0 | 4.6 | 3.1 | 2.7 | 41.5 | 50.4 | 106 |
| North Central | 37.1 | 32.4 | 10.3 | 9.4 | 8.4 | 33.3 | 44.2 | 669 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 24.4 | 24.9 | 6.5 | 5.0 | 4.0 | 26.4 | 31.2 | 75 |
| Bong | 37.0 | 29.6 | 5.0 | 4.2 | 4.2 | 30.5 | 41.6 | 208 |
| Gbarpolu | 43.9 | 35.9 | 2.3 | 2.3 | 2.3 | 35.9 | 49.6 | 36 |
| Grand Bassa | 37.3 | 32.3 | 5.0 | 3.7 | 3.0 | 33.6 | 43.7 | 118 |
| Grand Cape Mount | 38.6 | 42.1 | 7.2 | 6.3 | 5.0 | 43.0 | 51.8 | 84 |
| Grand Gedeh | 25.8 | 23.9 | 3.6 | 3.0 | 3.0 | 24.4 | 35.3 | 48 |
| Grand Kru | 14.1 | 36.3 | 4.4 | 4.4 | 2.9 | 36.3 | 37.3 | 30 |
| Lofa | 28.3 | 26.1 | 4.7 | 4.7 | 4.7 | 26.1 | 33.0 | 159 |
| Margibi | 32.0 | 35.8 | 15.5 | 15.0 | 12.7 | 36.3 | 43.5 | 113 |
| Maryland | 41.3 | 41.7 | 6.0 | 3.7 | 3.7 | 44.0 | 55.3 | 53 |
| Montserrado | 32.9 | 34.0 | 2.8 | 2.5 | 2.2 | 34.2 | 47.6 | 611 |
| Nimba | 41.8 | 37.7 | 16.9 | 15.4 | 13.2 | 39.1 | 51.9 | 301 |
| River Cess | 23.3 | 22.9 | 4.4 | 2.9 | 2.4 | 24.4 | 31.0 | 30 |
| River Gee | 40.7 | 40.8 | 1.7 | 0.0 | 0.0 | 42.5 | 55.9 | 22 |
| Sinoe | 55.9 | 54.6 | 11.2 | 8.2 | 7.5 | 57.6 | 65.2 | 54 |
| Education |  |  |  |  |  |  |  |  |
| No education | 34.1 | 30.4 | 6.6 | 5.7 | 5.0 | 31.3 | 43.0 | 821 |
| Elementary | 37.6 | 39.8 | 10.3 | 9.3 | 8.2 | 40.7 | 48.9 | 429 |
| Junior high | 34.1 | 41.1 | 6.6 | 4.9 | 4.9 | 42.8 | 49.0 | 257 |
| Senior high | 37.2 | 33.4 | 4.9 | 4.9 | 3.8 | 33.4 | 47.3 | 356 |
| Higher | 25.1 | 19.3 | 2.7 | 2.7 | 2.7 | 19.3 | 36.8 | 81 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 36.4 | 33.0 | 7.1 | 6.2 | 5.9 | 33.8 | 44.0 | 414 |
| Second | 36.9 | 33.5 | 10.4 | 9.2 | 7.9 | 34.7 | 44.7 | 389 |
| Middle | 36.6 | 39.1 | 9.7 | 9.0 | 7.5 | 39.8 | 47.5 | 415 |
| Fourth | 34.8 | 37.1 | 2.8 | 2.1 | 2.0 | 37.8 | 50.9 | 373 |
| Highest | 29.8 | 26.4 | 4.1 | 3.6 | 3.2 | 26.9 | 40.7 | 353 |
| Total | 35.0 | 34.0 | 6.9 | 6.1 | 5.4 | 34.8 | 45.6 | 1,943 |

Note: Any husband/partner includes all current, most recent, and former husbands/partners.

## Table 16.13 Experience of spousal violence by duration of marriage

Among currently married women age 15-49 who have been married only once, percentage who first experienced physical or sexual violence committed by their current husband/partner by specific exact years since marriage, according to marital duration, Liberia DHS 2019-20

| Years since marriage | Percentage who first experienced spousal physical or sexual violence by exact marital duration |  |  |  | Percentage who have not experienced sexual or physical violence | Number of currently married women who have been married only once |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Before marriage | 2 years | 5 years | 10 years |  |  |
| <2 | 2.5 | na | na | na | 42.9 | 132 |
| 2-4 | 4.4 | 29.5 | na | na | 54.3 | 220 |
| 5-9 | 6.0 | 24.7 | 42.7 | na | 50.5 | 250 |
| 10+ | 6.7 | 17.3 | 31.7 | 36.8 | 60.1 | 654 |
| Total | 5.7 | 23.7 | 37.4 | 43.0 | 55.4 | 1,256 |

na $=$ Not applicable

Table 16.14 Injuries to women due to spousal violence
Among ever-married women age 15-49 who have experienced violence committed by their current or most recent husband/partner, percentage who have been injured as a result of the violence, by types of injuries, according to type of violence, Liberia DHS 2019-20

| 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 evermarried women who have experienced physical or sexual violence |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical violence ${ }^{1}$ |  |  |  |  |  |
| Ever ${ }^{2}$ | 30.1 | 13.9 | 8.6 | 34.2 | 870 |
| Past 12 months | 30.1 | 15.7 | 9.8 | 34.7 | 657 |
| Sexual violence |  |  |  |  |  |
| Ever ${ }^{2}$ | 40.3 | 20.6 | 19.4 | 48.7 | 157 |
| Past 12 months | 41.8 | 22.4 | 20.4 | 51.5 | 133 |
| Physical or sexual violence ${ }^{1}$ |  |  |  |  |  |
| Ever ${ }^{2}$ | 29.8 | 13.6 | 8.4 | 33.9 | 885 |
| Past 12 months | 29.9 | 15.4 | 9.6 | 34.5 | 672 |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women.
${ }^{1}$ Excludes women who reported violence only in response to a direct question on violence during pregnancy
${ }^{2}$ Includes in the past 12 months

| Table 16.15 Violence by women against their husband by women's background characteristics |  |  |  |
| :---: | :---: | :---: | :---: |
| Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to women's own experience of spousal violence and background characteristics, Liberia DHS 2019-20 |  |  |  |
| Background characteristic | Percen physical $\square$ | ho committed e against their partner | Number of evermarried women |
|  | Ever ${ }^{1}$ | Past 12 months |  |
| Women's experience of spousal physical violence |  |  |  |
| Ever ${ }^{1}$ | 22.8 | 19.6 | 870 |
| In the past 12 months | 26.9 | 24.6 | 657 |
| Never | 4.2 | 2.7 | 1,073 |
| Age |  |  |  |
| 15-19 | 18.8 | 18.8 | 87 |
| 20-24 | 17.5 | 17.1 | 295 |
| 25-29 | 10.5 | 5.6 | 334 |
| 30-39 | 12.7 | 11.1 | 718 |
| 40-49 | 9.5 | 6.8 | 508 |
| Religion |  |  |  |
| Christian | 13.2 | 10.6 | 1,656 |
| Muslim | 8.2 | 7.9 | 262 |
| Traditional religion |  |  | 8 |
| No religion | * | * | 16 |
| Residence |  |  |  |
| Urban | 14.4 | 11.8 | 1,067 |
| Greater Monrovia | 13.9 | 11.4 | 538 |
| Other urban | 15.0 | 12.1 | 528 |
| Rural | 10.1 | 8.4 | 876 |
| Region |  |  |  |
| North Western | 9.7 | 6.4 | 196 |
| South Central | 13.3 | 11.3 | 841 |
| South Eastern A | 12.3 | 10.5 | 131 |
| South Eastern B | 9.0 | 6.5 | 106 |
| North Central | 12.9 | 10.7 | 669 |
| County |  |  |  |
| Bomi | 3.9 | 1.6 | 75 |
| Bong | 12.1 | 10.0 | 208 |
| Gbarpolu | 6.7 | 3.7 | 36 |
| Grand Bassa | 19.3 | 18.1 | 118 |
| Grand Cape Mount | 16.3 | 11.8 | 84 |
| Grand Gedeh | 8.3 | 7.4 | 48 |
| Grand Kru | 1.6 | 0.6 | 30 |
| Lofa | 6.3 | 6.3 | 159 |
| Margibi | 6.5 | 6.5 | 113 |
| Maryland | 13.6 | 9.8 | 53 |
| Montserrado | 13.4 | 10.8 | 611 |
| Nimba | 17.0 | 13.5 | 301 |
| River Cess | 7.5 | 3.4 | 30 |
| River Gee | 8.0 | 6.4 | 22 |
| Sinoe | 18.6 | 17.3 | 54 |
| Marital status |  |  |  |
| Married or living together | 13.0 | 11.1 | 1,608 |
| Divorced/separated/widowed | 9.9 | 6.4 | 335 |
| Employment |  |  |  |
| Employed for cash | 12.7 | 9.9 | 992 |
| Employed not for cash | 10.5 | 9.0 | 470 |
| Not employed | 14.1 | 12.3 | 481 |
| Number of living children |  |  |  |
| 0 | 28.4 | 27.6 | 146 |
| 1-2 | 12.9 | 10.1 | 675 |
| 3-4 | 10.2 | 7.9 | 616 |
| 5+ | 10.2 | 8.4 | 507 |
| Education |  |  |  |
| No education | 11.5 | 10.5 | 821 |
| Elementary | 14.9 | 10.3 | 429 |
| Junior high | 18.6 | 15.0 | 257 |
| Senior high | 10.3 | 8.5 | 356 |
| Higher | 1.0 | 1.0 | 81 |


| Table 16.15-Continued |  |  |  |
| :---: | :---: | :---: | :---: |
| Background characteristic | Percentage who committed physical violence against their husband/partner |  | Number of evermarried women |
|  | Ever ${ }^{1}$ | Past 12 months |  |
| Wealth quintile |  |  |  |
| Lowest | 10.4 | 9.1 | 414 |
| Second | 11.7 | 10.5 | 389 |
| Middle | 12.0 | 9.0 | 415 |
| Fourth | 16.3 | 12.6 | 373 |
| Highest | 12.4 | 10.4 | 353 |
| Total | 12.5 | 10.3 | 1,943 |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes in the past 12 months

Table 16.16 Violence by women against their husband by husband's characteristics and empowerment indicators

Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to their husband's characteristics and women's empowerment indicators, Liberia DHS 2019-20

|  | Percentage who committed <br> physical violence against their <br> husband/partner | Number of ever- |
| :--- | :---: | :---: | :---: |
| Background <br> characteristic | Ever $^{1} \quad$ Past 12 months | married women |


| Husband's/partner's education $^{2}$ |  |  |  |
| :--- | ---: | ---: | ---: |
| No education | 13.1 | 12.7 | 392 |
| Elementary | 14.1 | 11.6 | 202 |
| Junior high | 20.4 | 15.3 | 213 |
| Senior high | 10.7 | 8.4 | 496 |
| Higher | 9.2 | 8.2 | 211 |
| Don't know | 14.7 | 13.8 | 93 |

Husband's/partner's alcohol consumption

| Does not drink alcohol | 9.4 | 7.3 | 1,163 |
| :--- | :---: | ---: | ---: |
| Drinks alcohol but is never drunk | $(31.8)$ | $(29.6)$ | 37 |
| Is sometimes drunk | 16.3 | 13.5 | 575 |
| Is often drunk | 16.6 | 15.5 | 167 |
| Spousal education difference ${ }^{2}$ |  |  |  |
| $\quad$ Husband has more education | 14.3 | 11.4 | 853 |
| Wife has more education | 13.9 | 12.4 | 187 |
| Both have equal education | 8.0 | 6.8 | 168 |
| Neither has any education | 11.5 | 11.3 | 298 |
| $\quad$ Don't know | 13.4 | 12.6 | 102 |
| Spousal age difference ${ }^{2}$ |  |  |  |
| Wife older | 17.6 | 13.7 | 147 |
| Wife is same age | 4.8 | 4.8 | 81 |
| Wife 1-4 years younger | 13.5 | 12.4 | 474 |
| Wife 5-9 years younger | 10.7 | 9.2 | 469 |
| Wife 10 or more years younger | 15.0 | 11.8 | 436 |

## Number of marital control behaviors

 displayed by husband/partner ${ }^{3}$ 0$1-2$
$3-4$

| 4.1 | 3.6 | 376 |
| ---: | ---: | ---: |
| 9.7 | 7.2 | 678 |
| 19.0 | 16.5 | 679 |
| 15.6 | 11.8 | 210 |

Number of decisions in which women participate ${ }^{4}$

| participate $^{4}$ |  |  |  |
| :--- | ---: | ---: | ---: |
| 0 | 14.8 | 14.2 | 176 |
| $1-2$ | 17.0 | 15.5 | 290 |
| 3 | 11.8 | 9.5 | 1,142 |

Number of reasons for which wife beating is justified ${ }^{5}$

|  |  |  |  |
| :--- | ---: | ---: | ---: |
| beating is justified | 9.1 | 8.0 | 364 |
| 1-2 | 16.9 | 10.4 | 336 |
| $3-4$ | 19.0 | 17.1 | 77 |
| 5 | 14.9 | 13.2 |  |
| Father beat mother |  |  | 478 |
| Yes | 18.0 | 14.9 | 1,252 |
| No | 9.5 | 8.0 | 212 |
| Don't know | 17.6 | 13.2 |  |
| Woman afraid of husband/partner |  |  | 305 |
| $\quad$ Afraid most of the time | 14.4 | 13.2 | 1,084 |
| Sometimes afraid | 14.9 | 11.8 | 553 |
| Never afraid | 6.7 | 5.6 | 1,943 |

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Includes in the past 12 months
${ }^{2}$ Includes only currently married women
${ }^{3}$ According to the wife's report. See Table 16.8 for list of behaviors.
${ }^{4}$ According to the wife's report. Includes only currently married women. See Table 15.9.1 for list of decisions.
${ }^{5}$ According to the wife's report. See Table 15.10 .1 for list of reasons.

| Table 16.17 Help seeking to stop violence |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Percent distribution of women age | $15-49$ | who | have ever experienced physical or sexual | violence by their help-seeking |
| behavior, according to type of violence and background characteristics, Liberia DHS 2019-20 |  |  |  |  |
|  |  |  |  |  |

Table 16.18 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, Liberia DHS 2019-20

|  | Type of violence experienced |  |  |  |
| :--- | :---: | ---: | :---: | ---: |
| Source |  | Sexual only | Both physical <br> and sexual | Physical or <br> sexual violence |
| Own family | 71.0 | $*$ | 66.8 | 70.3 |
| Husband/partner's family | 30.0 | $*$ | 30.2 | 29.8 |
| Husband/partner | 1.5 | $*$ | 0.9 | 1.3 |
| Boyfriend | 0.3 | $*$ | 0.7 | 0.3 |
| Friend | 18.5 | $*$ | 16.7 | 18.0 |
| Neighbor | 18.8 | $*$ | 20.8 | 19.0 |
| Religious leader | 3.2 | $*$ | 8.6 | 4.2 |
| Doctor/medical personnel | 0.8 | $*$ | 3.2 | 1.2 |
| Police | 3.8 | $*$ | 12.8 | 5.6 |
| Lawyer | 0.2 | $*$ | 1.5 | 0.5 |
| Social work organization | 0.2 | $*$ | 2.2 | 0.6 |
| Other | 3.8 |  | 3.4 | 3.7 |
| Number of women who have |  |  |  | 151 |
| sought help |  |  |  |  |

Note: Women can report more than one source from which they sought help. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 16.19 Usefulness and impact of help sought
Among women age 15-49 who have ever experienced physical or sexual violence and sought help, percent distribution of usefulness of help sought and percent distribution of impact on frequency of violent assaults, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Usefulness of help sought: |  |  |  | Impact on frequency of violent assaults: |  |  |  | Number of women who have ever experienced any physical or sexual violence and who have sought help |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Not useful at all | Useful to situation at that time | Useful in the longer term | Total | No change in assaults | Assaults reduced | Assaults increased | Total |  |
| Type of violence |  |  |  |  |  |  |  |  |  |
| Physical only | 16.0 | 48.5 | 35.5 | 100.0 | 14.3 | 82.6 | 3.1 | 100.0 | 632 |
| Sexual only | * |  |  | 100.0 | * | * | * | 100.0 | 6 |
| Both physical and sexual | 18.4 | 60.5 | 21.1 | 100.0 | 16.6 | 73.8 | 9.6 | 100.0 | 151 |
| Age |  |  |  |  |  |  |  |  |  |
| 15-19 | 9.4 | 58.0 | 32.6 | 100.0 | 12.2 | 87.8 | 0.0 | 100.0 | 136 |
| 20-24 | 7.8 | 52.0 | 40.1 | 100.0 | 8.6 | 84.5 | 6.9 | 100.0 | 152 |
| 25-29 | 16.5 | 57.6 | 25.9 | 100.0 | 15.2 | 84.0 | 0.8 | 100.0 | 132 |
| 30-34 | 21.3 | 51.3 | 27.5 | 100.0 | 15.6 | 76.1 | 8.3 | 100.0 | 151 |
| 35-39 | 19.9 | 37.5 | 42.6 | 100.0 | 14.5 | 81.8 | 3.7 | 100.0 | 110 |
| 40-44 | 26.2 | 49.3 | 24.5 | 100.0 | 31.9 | 64.8 | 3.3 | 100.0 | 64 |
| 45-49 | 27.4 | 40.5 | 32.1 | 100.0 | 14.1 | 76.9 | 9.0 | 100.0 | 45 |
| Religion |  |  |  |  |  |  |  |  |  |
| Christian | 16.6 | 50.1 | 33.3 | 100.0 | 14.7 | 80.8 | 4.4 | 100.0 | 713 |
| Muslim | 15.9 | 51.8 | 32.3 | 100.0 | 15.1 | 82.1 | 2.8 | 100.0 | 59 |
| Traditional religion | * | * | * | 100.0 | * | * | * | 100.0 | 4 |
| No religion | * | * | * | 100.0 | * | * | * | 100.0 | 14 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 16.0 | 49.7 | 34.3 | 100.0 | 14.2 | 80.9 | 4.9 | 100.0 | 501 |
| Greater Monrovia | 17.1 | 43.2 | 39.7 | 100.0 | 11.5 | 82.3 | 6.2 | 100.0 | 298 |
| Other urban | 14.5 | 59.1 | 26.4 | 100.0 | 18.2 | 78.9 | 2.9 | 100.0 | 203 |
| Rural | 17.1 | 53.2 | 29.8 | 100.0 | 15.5 | 81.1 | 3.4 | 100.0 | 288 |
| Region |  |  |  |  |  |  |  |  |  |
| North Western | 20.5 | 54.6 | 24.9 | 100.0 | 16.8 | 82.2 | 1.1 | 100.0 | 84 |
| South Central | 16.8 | 44.7 | 38.6 | 100.0 | 13.9 | 79.7 | 6.4 | 100.0 | 419 |
| South Eastern A | 14.4 | 54.8 | 30.8 | 100.0 | 14.9 | 79.7 | 5.4 | 100.0 | 51 |
| South Eastern B | 11.1 | 59.7 | 29.2 | 100.0 | 14.3 | 83.0 | 2.8 | 100.0 | 47 |
| North Central | 15.6 | 60.1 | 24.3 | 100.0 | 15.5 | 83.2 | 1.3 | 100.0 | 188 |
| County |  |  |  |  |  |  |  |  |  |
| Bomi | 14.3 | 57.3 | 28.4 | 100.0 | 12.5 | 86.7 | 0.8 | 100.0 | 33 |
| Bong | 17.6 | 64.1 | 18.3 | 100.0 | 22.3 | 75.1 | 2.6 | 100.0 | 68 |
| Gbarpolu | 21.7 | 51.3 | 26.9 | 100.0 | 19.9 | 76.6 | 3.5 | 100.0 | 18 |
| Grand Bassa | 11.6 | 42.7 | 45.7 | 100.0 | 13.6 | 78.3 | 8.1 | 100.0 | 66 |
| Grand Cape Mount | 26.1 | 53.7 | 20.2 | 100.0 | 19.3 | 80.7 | 0.0 | 100.0 | 33 |
| Grand Gedeh | (21.6) | (40.0) | (38.4) | 100.0 | (15.9) | (70.1) | (14.0) | 100.0 | 15 |
| Grand Kru | (10.9) | (51.3) | (37.8) | 100.0 | (8.7) | (85.2) | (6.1) | 100.0 | 10 |
| Lofa | (8.8) | (49.2) | (42.0) | 100.0 | (3.9) | (96.1) | (0.0) | 100.0 | 34 |
| Margibi | (34.5) | (38.2) | (27.3) | 100.0 | (34.1) | (56.7) | (9.2) | 100.0 | 32 |
| Maryland | 9.6 | 64.1 | 26.3 | 100.0 | 13.1 | 84.6 | 2.3 | 100.0 | 28 |
| Montserrado | 16.1 | 45.7 | 38.2 | 100.0 | 11.9 | 82.3 | 5.7 | 100.0 | 321 |
| Nimba | 16.7 | 61.2 | 22.1 | 100.0 | 14.7 | 84.4 | 0.9 | 100.0 | 86 |
| River Cess | (20.3) | (79.7) | (0.0) | 100.0 | (13.5) | (82.1) | (4.3) | 100.0 | 6 |
| River Gee | (16.5) | (55.8) | (27.7) | 100.0 | (25.4) | (74.6) | (0.0) | 100.0 | 8 |
| Sinoe | 9.7 | 56.7 | 33.6 | 100.0 | 14.7 | 83.9 | 1.4 | 100.0 | 30 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 12.7 | 50.0 | 37.2 | 100.0 | 10.7 | 84.8 | 4.4 | 100.0 | 224 |
| Married or living together | 13.5 | 53.1 | 33.4 | 100.0 | 12.6 | 84.1 | 3.3 | 100.0 | 453 |
| Divorced/separated/ widowed | 35.4 | 44.0 | 20.7 | 100.0 | 30.6 | 60.9 | 8.5 | 100.0 | 113 |
| Number of living children |  |  |  |  |  |  |  |  |  |
| 0 | 6.8 | 48.7 | 44.6 | 100.0 | 9.4 | 89.1 | 1.5 | 100.0 | 171 |
| 1-2 | 12.4 | 57.6 | 30.1 | 100.0 | 13.1 | 83.5 | 3.4 | 100.0 | 310 |
| 3-4 | 29.7 | 44.0 | 26.3 | 100.0 | 20.0 | 71.1 | 8.9 | 100.0 | 172 |
| 5+ | 20.9 | 47.5 | 31.6 | 100.0 | 18.3 | 77.5 | 4.3 | 100.0 | 137 |
| Employment |  |  |  |  |  |  |  |  |  |
| Employed for cash | 17.4 | 50.2 | 32.4 | 100.0 | 15.8 | 78.7 | 5.5 | 100.0 | 434 |
| Employed not for cash | 24.4 | 44.5 | 31.1 | 100.0 | 18.8 | 75.2 | 5.9 | 100.0 | 108 |
| Not employed | 11.1 | 55.0 | 33.8 | 100.0 | 10.9 | 87.5 | 1.6 | 100.0 | 247 |


| Table 16.19-Continued |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | Usefulness of help sought: |  |  |  | Impact on frequency of violent assaults: |  |  |  | Number of women who have ever experienced any physical or sexual violence and who have sought help |
|  | Not useful at all | Useful to situation at that time | Useful in the longer term | Total | No change in assaults | Assaults reduced | Assaults increased | Total |  |
| Education |  |  |  |  |  |  |  |  |  |
| No education | 24.3 | 48.6 | 27.0 | 100.0 | 19.3 | 77.6 | 3.2 | 100.0 | 229 |
| Elementary | 16.6 | 51.3 | 32.1 | 100.0 | 13.8 | 78.4 | 7.8 | 100.0 | 205 |
| Junior high | 7.0 | 66.9 | 26.1 | 100.0 | 10.9 | 87.6 | 1.5 | 100.0 | 151 |
| Senior high | 17.4 | 43.2 | 39.4 | 100.0 | 16.0 | 80.9 | 3.0 | 100.0 | 158 |
| Higher | * | * | * | 100.0 | * | * | * | 100.0 | 47 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 19.8 | 54.8 | 25.4 | 100.0 | 19.8 | 74.1 | 6.1 | 100.0 | 143 |
| Second | 9.9 | 63.1 | 27.0 | 100.0 | 13.9 | 84.6 | 1.5 | 100.0 | 125 |
| Middle | 17.3 | 54.4 | 28.3 | 100.0 | 15.4 | 80.6 | 4.0 | 100.0 | 133 |
| Fourth | 19.8 | 48.4 | 31.9 | 100.0 | 15.3 | 82.5 | 2.3 | 100.0 | 211 |
| Highest | 13.5 | 39.9 | 46.5 | 100.0 | 9.8 | 82.6 | 7.6 | 100.0 | 179 |
| Total | 16.4 | 51.0 | 32.6 | 100.0 | 14.7 | 81.0 | 4.3 | 100.0 | 789 |

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.

## CHILD DISCIPLINE AND CHILD LABOR

## Key Findings

- Child discipline: $85 \%$ of children age 1-14 experienced any violent discipline methods during the month before the survey.
- Child participation in economic activities: $11 \%$ of children age 12-14 and 3\% of children age 15-17 are considered to engage in excessive work outside the home.
- Child participation in domestic activities: Among children age 12-14, 20\% are considered to engage in excessive domestic work.
- Exposure to hazardous work: Overall, 30\% of children work in dangerous conditions.
- Overall child labor: During the week before the interview, $32 \%$ of children age 5-17 were engaged in economic activities or domestic tasks at or above the threshold defined for their age group.

Information obtained in the 2019-20 LDHS allows for an assessment of several key aspects of the welfare of Liberia's children. Specifically, questions were included on child discipline and child labor. The data about child discipline will help parents and caretakers implement effective disciplinary techniques that make for happy, healthy, and well-behaved children. The data regarding child labor will help the Liberian government, civil society, communities, and other stakeholders design and implement programs and policies that will help young children grow up safely and reach their full potential.

Liberia's Children's Law, passed in 2011, prohibits inappropriate child discipline and child labor (USDoL 2020), consistent with its intent of advancing the well-being of Liberian children and children of other nationalities who may be residing or transiting in Liberia. The Child Protection Network (LCRNC 2013) and National Child Rights Observatory Group (CRC 2004) work towards the fulfillment of the Children's Law under the leadership of the Ministry of Gender, Children and Social Protection. The Decent Work Act, passed in 2015, assures the children of Liberia freedom from the worst forms of child labor. The Government of Liberia began to lead observation of the World Day Against Child Labor in 2019, the same year the country adopted the Costed National Action Plan on the Elimination of the Worst Forms of Child Labor to cover the period 2018-2030 (Yates 2020). Advocacy on these matters is led by the inter-agency National Commission on Child Labor, hosted at the Ministry of Labor (USDoL 2020).

The Liberian Children's Representative Forum, formerly the Liberian Children's Parliament, has provided a voice for children themselves to articulate issues related to their well-being since 2002 (UNCRC 2004). Other non-state actors seeking to advance children's well-being formed the National Child Rights NGOs Coalition, which was launched in 2013 (LCRNC 2013).

### 17.1 Child Discipline

## Nonviolent disciplinary approaches

Include one or more of the following:

- taking away privileges, forbidding something the child liked, or not allowing the child to leave the house
- explaining that the child's behavior was wrong
- giving the child something else to do

Sample: De jure children age 1-14

## Psychological aggression

Includes one or both of the following:

- shouting, yelling, or screaming at the child
- calling the child dumb, lazy, or a similar term

Sample: De jure children age 1-14

## Physical punishment

Includes one or more of the following:

- shaking the child
- spanking, hitting, or slapping the child on the bottom with a bare hand
- hitting the child on the bottom or other part of the body with a belt, hairbrush, stick, or other similar hard object
- hitting or slapping the child on the face, head, or ears
- hitting the child on the hand, arm, or leg
- beating the child up, that is, hitting the child over and over as hard as one can

Sample: De jure children age 1-14

## Severe physical punishment

Includes one or both of the following:

- hitting or slapping the child on the face, head, or ears
- beating the child up, that is, hitting the child over and over as hard as one can

Sample: De jure children age 1-14

The manner in which parents and caretakers discipline children can have long-term consequences for their physical and psychological development and well-being. The 2019-20 LDHS Household Questionnaire included questions from the UNICEF Multiple Indicator Cluster Survey (MICS) module on how children in the household are usually disciplined. The questions were asked about one randomly selected de jure child age 1-14 per household. The respondent to the Household Questionnaire (the household head or other household member) was asked a series of separate questions about disciplinary practices that may have been used with the child during the month before the survey.

Seven percent of children age 1-14 experienced only nonviolent discipline, $81 \%$ experienced psychological aggression, $71 \%$ experienced physical punishment, and $20 \%$ experienced severe physical punishment. Overall, $85 \%$ of children age 1-14 experienced any violent discipline method (Table 17.1).

## Patterns by background characteristics

- Use of violent discipline methods increases with child's age. Sixty-eight percent of children age 1-2 experienced violent discipline methods, as compared with $89 \%$ of children age 5-14 (Figure 17.1).
- The percentage of children experiencing any violent discipline method ranges from a low of $76 \%$ in Nimba to a high of $98 \%$ in Sinoe.
- Differences are observed by school attendance. Eighty-nine percent of children who were attending school experienced any violent discipline methods, compared with $79 \%$ of those not attending school.

Sixty-four percent of respondents believe that a child needs physical punishment to be raised or educated properly (Table 17.2).

## Figure 17.1 Child discipline by age group

Percentage of children age 1-14 by experience of child disciplining methods
Only nonviolent

discipline $\quad$| Any violent |
| :--- |
| discipline method |



### 17.2 Child Labor

The 2019-20 Liberia DHS included a special child labor module developed by UNICEF for the MICS program. The module obtained information on the type of work a child did, if any, and the number of hours he or she was engaged in the work during the week before the survey. Data were collected on both economic activities (paid or unpaid work for someone who is not a member of the household and/or for a family farm or business) and domestic work (household chores such as cooking, cleaning, or caring for children). The module also collected information on hazardous working conditions.

The module was administered as part of the LDHS Household Questionnaire for one child age 5-17. To the extent that the person responding to the Household Questionnaire (usually the household head) was not familiar with the selected child's involvement in economic activities or household chores, some bias may exist in the child labor data.

### 17.2.1 Child Labor Outside the Home

## Participation in economic activities

To classify children according to their involvement in economic activities, UNICEF sets three thresholds based on the children's age and the number of hours they worked in the week before the survey:

- age 5-11: 1 hour or more
- age 12-14: 14 hours or more
- age 15-17: 43 hours or more

Children who participated in economic activities during the week preceding the interview for a number of hours equal to or greater than that defined for their age, as presented above, are considered to be "engaged in child labor."
Sample: De jure population

Table $\mathbf{1 7 . 3}$ shows that relatively large proportions of Liberian children are reported as engaging in some type of economic activity for an employer outside the home or in a family business. Specifically, $30 \%$ of children age $5-11,49 \%$ of children age 12-14, and $60 \%$ of percent of children age 15-17 engaged in some economic activity in the week prior to the survey.

However, only $11 \%$ of children age 12-14 and $3 \%$ of children age 15-17 were working longer in their jobs than is considered appropriate for their age.

Patterns by background characteristics

- Rural children age 5-11 are more likely than their urban counterparts to be engaged in economic activity beyond what is considered appropriate for their age ( $38 \%$ versus $24 \%$ ). The same is true among children age 12-14 ( $15 \%$ versus $9 \%$ ). This pattern is not clearly observed among children age 15-17.
" The percentage of children age 5-11 engaged in an inappropriate amount of economic activity is highest in Gbarpolu (54\%) and lowest in Montserrado (14\%). Among children age 12-14, the percentage is highest in Bong (35\%) and lowest in Nimba ( $2 \%$ ).
- The percentage of children age 5-11 and 12-14 engaged in an inappropriate amount of economic activity declines as wealth increases.


### 17.2.2 Child Labor Inside the Home

## Participation in domestic activities

To classify children according to their involvement in domestic work, UNICEF sets thresholds based on children's age and the number of hours they worked during the preceding week. For both children age 5-11 and 12-14, the threshold is 21 hours or more.
Children who participated in domestic work during the week preceding the interview for a number of hours equal to or greater than that defined for their age, as presented above, are considered to be "engaged in child labor."
Sample: De jure population

Table 17.4 presents information on the involvement of children age 5-14 in household chores during the week before the survey. Many Liberian children are responsible for performing household chores. The level of engagement varies with the child's age; however, even among children age $5-11$, nearly half ( $47 \%$ ) were responsible for at least some household chores during the week before the survey. However, only $10 \%$ of children in this age range exceeded 21 hours of household work. Among children age 12-14, $65 \%$ were engaged in some household chores, while $20 \%$ exceeded the 21 -hour threshold.

## Patterns by background characteristics

- Rural children age 5-11 are more likely to be engaged in household chores beyond the 21-hour threshold than their urban counterparts ( $11 \%$ versus $8 \%$ ). The same pattern is not so clearly observed among children age 12-14 ( $20 \%$ versus $19 \%$ ).
- The percentage of children age 5-11 engaged in excessive housework is highest in Gbarpolu (25\%) and lowest in Sinoe ( $1 \%$ ). Among children age 12-14, the percentage is highest in Grand Gedeh ( $49 \%$ ) and lowest in Sinoe ( $2 \%$ ).
- Children age 5-11 and 12-14 who are attending school are less likely to be engaged in excessive household chores ( $9 \%$ and $19 \%$, respectively) than those not attending school ( $11 \%$ and $22 \%$, respectively).


### 17.2.3 Child Labor Hazardous Work

## Exposure to hazardous work

As defined by UNICEF, children who work in hazardous conditions are those who (a) carry heavy loads; (b) work with dangerous tools or operate large machinery; (c) are exposed to dust, smoke, or gas; (d) are exposed to cold, heat, or extreme humidity; (e) are exposed to loud noises or vibrations; (f) are exposed to work at heights; (g) are exposed to chemicals (pesticides, glue) or explosives; or (h) are exposed to other things, processes, or conditions that are harmful to their health or safety.
Sample: De jure population

Table 17.5 shows the percentage of children age 5-17 working in various hazardous conditions. Overall, $30 \%$ of children work in dangerous conditions. The most frequently reported hazardous condition was carrying heavy loads ( $15 \%$ ), followed by working with dangerous tools or operating heavy machinery ( $7 \%$ ).

## Patterns by background characteristics

- The percentage of children engaged in hazardous work grows with the age of the child, from $21 \%$ among those age 5-11 to $48 \%$ among those age 15-17.
- There is little difference by sex in the percentage of children engaged in hazardous work ( $30 \%$ of boys and $29 \%$ of girls).
- As wealth quintile increases, the percentage of children engaged in hazardous work declines. Specifically, $44 \%$ of children in the lowest wealth quintile are engaged in such work, as compared with $16 \%$ of children in the highest quintile.


### 17.2.4 Overall Child Labor

Table $\mathbf{1 7 . 6}$ combines information on children involved in economic activities or performing household chores at or above and below the age-specific thresholds (as detailed in the previous tables) into a total child labor indicator. Overall, $21 \%$ of children age 5-17 are engaged in economic activities at or above the threshold for their age, while $11 \%$ are engaged in household chores at or above the age-specific limit. Therefore, one out of three $(32 \%)$ children are engaged in child labor (Figure 17.2).

Patterns by background characteristics

Figure 17.2 Child labor


- The percentage of children engaged in child labor decreases with age, declining from $37 \%$ among those age 5-11 to $16 \%$ among those age $12-14$ before falling to $3 \%$ among those age 15-17.
- Girls (34\%) are more likely than boys (29\%) to be engaged in child labor.

Figure 17.3 Child labor by wealth
Percentage of children age 5-17

- By county, Montserrado has the smallest percentage of children engaged in child labor (19\%), while Gbarpolu has the largest (70\%).
- As wealth quintile increases, the percentage of children engaged in child labor declines. Specifically, $47 \%$ of children in the lowest wealth quintile are engaged in such work, as compared with $19 \%$ of children in the highest quintile (Figure 17.3).



## List of Tables

For more information on child discipline and child labor, see the following tables:

- Table 17.1 Child discipline
- Table 17.2 Attitudes toward physical punishment
- Table 17.3 Children's involvement in economic activities
- Table 17.4 Children's involvement in household chores
- Table 17.5 Hazardous work
- Table 17.6 Child labor

| Table 17.1 Child discipline |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage of children age 1-14 by child disciplining methods experienced during the month before the survey, according to background characteristics, Liberia DHS 2019-20 |  |  |  |  |  |  |
| Background characteristic | Percentage of children age 1-14 who experienced: |  |  |  |  |  |
|  | Only nonviolent discipline | Psychological aggression | Physical punishment |  | Any violent discipline method ${ }^{2}$ | Number of children age 1-14 |
|  |  |  | Any | Severe ${ }^{1}$ |  |  |
| Age in years |  |  |  |  |  |  |
| 1-2 | 7.6 | 61.3 | 56.5 | 8.0 | 67.9 | 799 |
| 3-4 | 8.9 | 78.2 | 71.3 | 19.9 | 82.4 | 948 |
| 5-9 | 6.8 | 84.8 | 75.4 | 20.5 | 88.6 | 2,195 |
| 10-14 | 6.8 | 84.3 | 72.7 | 25.0 | 89.4 | 2,135 |
| Child's sex |  |  |  |  |  |  |
| Male | 7.4 | 80.1 | 71.8 | 20.9 | 85.2 | 3,070 |
| Female | 7.1 | 80.9 | 70.9 | 19.8 | 85.1 | 3,007 |
| Residence |  |  |  |  |  |  |
| Urban | 7.4 | 80.4 | 71.5 | 21.2 | 84.4 | 3,419 |
| Greater Monrovia | 7.5 | 78.9 | 72.4 | 24.7 | 83.1 | 1,689 |
| Other urban | 7.4 | 81.8 | 70.6 | 17.8 | 85.6 | 1,730 |
| Rural | 7.0 | 80.7 | 71.1 | 19.2 | 86.2 | 2,658 |
| Region |  |  |  |  |  |  |
| North Western | 7.5 | 81.5 | 67.6 | 17.4 | 86.6 | 529 |
| South Central | 6.9 | 80.8 | 73.0 | 23.2 | 85.0 | 2,588 |
| South Eastern A | 4.7 | 88.1 | 75.6 | 13.8 | 92.4 | 385 |
| South Eastern B | 3.8 | 91.1 | 79.9 | 23.2 | 94.3 | 371 |
| North Central | 8.6 | 76.8 | 68.0 | 18.4 | 82.3 | 2,204 |
| County |  |  |  |  |  |  |
| Bomi | 8.8 | 83.1 | 62.6 | 14.5 | 88.1 | 205 |
| Bong | 5.3 | 87.9 | 78.9 | 20.7 | 91.3 | 572 |
| Gbarpolu | 8.7 | 82.3 | 71.7 | 19.3 | 90.5 | 103 |
| Grand Bassa | 5.1 | 86.0 | 81.8 | 21.2 | 91.7 | 342 |
| Grand Cape Mount | 5.7 | 79.6 | 70.4 | 19.2 | 83.5 | 221 |
| Grand Gedeh | 7.9 | 82.1 | 70.2 | 9.6 | 88.7 | 130 |
| Grand Kru | 6.7 | 90.4 | 68.7 | 17.2 | 91.6 | 120 |
| Lofa | 7.4 | 79.2 | 75.0 | 22.0 | 85.7 | 518 |
| Margibi | 4.4 | 86.9 | 71.2 | 20.1 | 89.6 | 346 |
| Maryland | 1.6 | 92.3 | 89.2 | 27.6 | 97.0 | 178 |
| Montserrado | 7.7 | 78.8 | 71.8 | 24.1 | 83.0 | 1,900 |
| Nimba | 10.8 | 70.0 | 59.2 | 15.6 | 76.0 | 1,114 |
| River Cess | 5.0 | 85.0 | 65.7 | 22.0 | 89.1 | 102 |
| River Gee | 4.5 | 89.2 | 75.6 | 22.5 | 91.9 | 73 |
| Sinoe | 1.8 | 95.3 | 86.9 | 11.9 | 97.7 | 153 |
| School attendance |  |  |  |  |  |  |
| Attending | 6.6 | 84.8 | 74.3 | 22.2 | 89.4 | 3,520 |
| Not attending | 8.0 | 74.6 | 67.3 | 17.7 | 79.3 | 2,557 |
| Head of household's education |  |  |  |  |  |  |
| No education | 5.2 | 82.4 | 73.3 | 22.8 | 87.5 | 2,010 |
| Elementary | 11.4 | 79.6 | 68.9 | 17.6 | 83.7 | 1,098 |
| Junior high | 5.8 | 78.0 | 70.7 | 19.3 | 82.7 | 821 |
| Senior high | 7.0 | 80.2 | 71.6 | 20.0 | 85.5 | 1,427 |
| Higher | 9.0 | 80.1 | 69.2 | 19.9 | 83.3 | 654 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 5.4 | 81.2 | 70.6 | 20.1 | 86.7 | 1,259 |
| Second | 6.5 | 80.0 | 71.3 | 18.4 | 85.6 | 1,272 |
| Middle | 8.6 | 81.3 | 70.8 | 21.4 | 85.2 | 1,275 |
| Fourth | 8.0 | 81.6 | 72.7 | 20.5 | 84.5 | 1,178 |
| Highest | 7.8 | 78.2 | 71.3 | 21.5 | 83.7 | 1,092 |
| Total | 7.2 | 80.5 | 71.3 | 20.4 | 85.2 | 6,077 |

[^32]| Table 17.2 Attitudes toward physical punishment |  |  |
| :---: | :---: | :---: |
| Percentage of mothers/caretakers of children age 1-14 who believe that physical punishment is needed to bring up, raise, or educate a child properly, according to background characteristics, Liberia DHS 2019-20 |  |  |
| Background characteristic | Percentage of mothers/ caretakers who believe that a child needs to be physically punished | Number of mothers/ caretakers responding to child discipline module |
| Respondent's age |  |  |
| 15-19 | 58.7 | 209 |
| 20-29 | 63.7 | 1,201 |
| 30-39 | 64.0 | 1,954 |
| 40-49 | 64.9 | 1,307 |
| 50+ | 65.3 | 1,406 |
| Child's age in years |  |  |
| 1-2 | 51.3 | 799 |
| 3-4 | 63.6 | 948 |
| 5-9 | 65.3 | 2,195 |
| 10-14 | 68.4 | 2,135 |
| Child's sex |  |  |
| Male | 64.1 | 3,070 |
| Female | 64.4 | 3,007 |
| Residence |  |  |
| Urban | 65.4 | 3,419 |
| Greater Monrovia | 67.0 | 1,689 |
| Other urban | 63.9 | 1,730 |
| Rural | 62.8 | 2,658 |
| Region |  |  |
| North Western | 60.9 | 529 |
| South Central | 66.6 | 2,588 |
| South Eastern A | 68.3 | 385 |
| South Eastern B | 66.2 | 371 |
| North Central | 61.3 | 2,204 |
| County |  |  |
| Bomi | 57.6 | 205 |
| Bong | 56.7 | 572 |
| Gbarpolu | 55.6 | 103 |
| Grand Bassa | 73.5 | 342 |
| Grand Cape Mount | 66.5 | 221 |
| Grand Gedeh | 42.7 | 130 |
| Grand Kru | 69.7 | 120 |
| Lofa | 68.1 | 518 |
| Margibi | 64.4 | 346 |
| Maryland | 70.2 | 178 |
| Montserrado | 65.7 | 1,900 |
| Nimba | 60.5 | 1,114 |
| River Cess | 71.1 | 102 |
| River Gee | 50.8 | 73 |
| Sinoe | 88.3 | 153 |
| School attendance |  |  |
| Attending | 67.8 | 3,520 |
| Not attending | 59.4 | 2,557 |
| Head of household's education |  |  |
| No education | 65.6 | 2,010 |
| Elementary | 65.0 | 1,098 |
| Junior high | 61.9 | 821 |
| Senior high | 64.9 | 1,427 |
| Higher | 59.6 | 654 |
| Wealth quintile |  |  |
| Lowest | 64.1 | 1,259 |
| Second | 63.6 | 1,272 |
| Middle | 64.1 | 1,275 |
| Fourth | 65.8 | 1,178 |
| Highest | 63.7 | 1,092 |
| Total | 64.3 | 6,077 |

Table 17.3 Children's involvement in economic activities
Percentage of children age 5-17 by involvement in economic activities during the week before the survey, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of children age $5-11$ involved in economic activity for at least 1 hour | Number of children age 5-11 | Percentage of children age 12-14 involved in: |  | Number of children age 12-14 | Percentage of children age 15-17 involved in: |  | Number of children age 15-17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Economic activity for less than 14 hours | Economic activity for 14 hours or more |  | Economic activity for less than 43 hours | Economic activity for 43 hours or more |  |
| Child's sex |  |  |  |  |  |  |  |  |
| Male | 30.7 | 1,527 | 36.5 | 11.3 | 633 | 63.3 | 1.2 | 468 |
| Female | 30.2 | 1,504 | 38.8 | 11.0 | 665 | 49.2 | 4.3 | 357 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 24.0 | 1,664 | 31.1 | 8.8 | 827 | 49.0 | 2.7 | 488 |
| Greater Monrovia | 14.1 | 808 | 21.4 | 6.6 | 447 | 31.8 | 4.2 | 232 |
| Other urban | 33.3 | 856 | 42.4 | 11.5 | 379 | 64.5 | 1.3 | 256 |
| Rural | 38.2 | 1,367 | 49.3 | 15.3 | 472 | 69.2 | 2.4 | 336 |
| Region |  |  |  |  |  |  |  |  |
| North Western | 41.3 | 274 | 46.1 | 20.6 | 109 | 78.9 | 1.9 | 67 |
| South Central | 18.1 | 1,250 | 26.6 | 7.4 | 631 | 40.2 | 3.4 | 372 |
| South Eastern A | 33.8 | 203 | 52.9 | 14.4 | 84 | 66.7 | 2.4 | 55 |
| South Eastern B | 32.7 | 192 | 41.4 | 18.2 | 78 | 63.3 | 2.4 | 53 |
| North Central | 40.6 | 1,112 | 49.1 | 12.6 | 396 | 71.8 | 1.7 | 279 |
| County |  |  |  |  |  |  |  |  |
| Bomi | 35.7 | 104 | 44.7 | 19.2 | 49 | (78.7) | (0.2) | 25 |
| Bong | 41.1 | 272 | 28.5 | 34.8 | 117 | 64.1 | 3.4 | 95 |
| Gbarpolu | 54.2 | 52 | 39.5 | 32.1 | 22 | (65.5) | (12.4) | 9 |
| Grand Bassa | 27.0 | 180 | 53.0 | 5.3 | 51 | 57.2 | 4.2 | 48 |
| Grand Cape Mount | 40.5 | 118 | 51.8 | 15.7 | 38 | 82.7 | 0.3 | 33 |
| Grand Gedeh | 22.1 | 65 | 61.4 | 16.0 | 26 | (60.3) | (4.5) | 23 |
| Grand Kru | 44.9 | 63 | 47.8 | 19.5 | 25 | (76.9) | (0.0) | 18 |
| Lofa | 42.2 | 299 | 57.8 | 4.6 | 106 | 78.9 | 1.6 | 89 |
| Margibi | 30.7 | 174 | 38.9 | 13.3 | 77 | (66.9) | (2.1) | 37 |
| Maryland | 25.2 | 96 | 42.7 | 10.6 | 36 | 49.4 | 5.5 | 23 |
| Montserrado | 13.8 | 896 | 22.0 | 6.6 | 503 | 33.8 | 3.4 | 286 |
| Nimba | 39.5 | 541 | 57.7 | 2.4 | 173 | 72.7 | 0.0 | 95 |
| River Cess | 36.7 | 61 | 40.6 | 14.9 | 18 | (71.2) | (2.2) | 12 |
| River Gee | 31.3 | 33 | 29.2 | 32.3 | 17 | 70.6 | 0.0 | 12 |
| Sinoe | 41.3 | 78 | 52.8 | 13.1 | 40 | (71.3) | (0.0) | 20 |
| School attendance |  |  |  |  |  |  |  |  |
| Attending | 29.5 | 2,385 | 36.6 | 10.4 | 1,135 | 54.9 | 2.4 | 661 |
| Not attending | 33.7 | 646 | 45.4 | 16.5 | 163 | 66.5 | 3.0 | 164 |
| Head of household's education |  |  |  |  |  |  |  |  |
| No education | 35.3 | 1,039 | 41.7 | 9.6 | 390 | 63.0 | 3.3 | 308 |
| Elementary | 35.5 | 509 | 37.4 | 20.4 | 249 | 71.7 | 4.1 | 123 |
| Junior high | 29.9 | 390 | 38.0 | 9.6 | 162 | 64.4 | 0.1 | 78 |
| Senior high | 25.8 | 775 | 40.1 | 9.4 | 285 | 44.4 | 2.3 | 190 |
| Higher | 15.6 | 290 | 27.3 | 5.0 | 190 | 39.0 | 1.3 | 113 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 43.2 | 650 | 49.4 | 19.2 | 205 | 80.8 | 2.1 | 139 |
| Second | 41.8 | 629 | 55.3 | 14.2 | 217 | 64.5 | 2.5 | 143 |
| Middle | 30.6 | 671 | 41.2 | 9.0 | 266 | 65.0 | 1.1 | 178 |
| Fourth | 17.6 | 563 | 28.4 | 8.4 | 293 | 48.9 | 6.2 | 169 |
| Highest | 14.2 | 519 | 23.8 | 8.2 | 318 | 35.3 | 1.1 | 196 |
| Total | 30.4 | 3,031 | 37.7 | 11.2 | 1,298 | 57.2 | 2.5 | 825 |

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

Table 17.4 Children's involvement in household chores
Percentage of children age 5-14 by involvement in household chores during the week before the survey, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Percentage of children age 5-11 involved in: |  | Number of children age 5-11 | Percentage of children age 12-14 years involved in: |  | Number of children age 12-14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Household chores for less than 21 hours | Household chores for 21 hours or more |  | Household chores for less than 21 hours | Household chores for 21 hours or more |  |
| Child's sex |  |  |  |  |  |  |
| Male | 43.7 | 9.8 | 1,527 | 66.6 | 16.8 | 633 |
| Female | 50.2 | 9.3 | 1,504 | 64.3 | 22.1 | 665 |
| Residence |  |  |  |  |  |  |
| Urban | 40.8 | 8.4 | 1,664 | 62.7 | 19.3 | 827 |
| Greater Monrovia | 36.2 | 7.3 | 808 | 61.0 | 21.1 | 447 |
| Other urban | 45.1 | 9.5 | 856 | 64.7 | 17.2 | 379 |
| Rural | 54.4 | 11.0 | 1,367 | 70.3 | 20.0 | 472 |
| Region |  |  |  |  |  |  |
| North Western | 47.3 | 17.9 | 274 | 58.9 | 30.8 | 109 |
| South Central | 38.3 | 7.7 | 1,250 | 64.8 | 17.4 | 631 |
| South Eastern A | 57.8 | 5.8 | 203 | 76.9 | 17.8 | 84 |
| South Eastern B | 59.1 | 15.7 | 192 | 70.6 | 22.1 | 78 |
| North Central | 52.4 | 9.2 | 1,112 | 64.8 | 19.8 | 396 |
| County |  |  |  |  |  |  |
| Bomi | 48.9 | 13.0 | 104 | 56.5 | 30.4 | 49 |
| Bong | 45.6 | 22.4 | 272 | 41.4 | 43.1 | 117 |
| Gbarpolu | 46.6 | 25.2 | 52 | 50.1 | 40.6 | 22 |
| Grand Bassa | 55.0 | 3.1 | 180 | 71.6 | 7.8 | 51 |
| Grand Cape Mount | 46.3 | 18.9 | 118 | 67.2 | 25.6 | 38 |
| Grand Gedeh | 41.3 | 9.4 | 65 | 43.4 | 48.9 | 26 |
| Grand Kru | 61.1 | 19.1 | 63 | 62.7 | 33.4 | 25 |
| Lofa | 67.9 | 4.7 | 299 | 87.0 | 6.7 | 106 |
| Margibi | 33.8 | 15.9 | 174 | 76.5 | 14.0 | 77 |
| Maryland | 56.9 | 14.9 | 96 | 74.6 | 14.9 | 36 |
| Montserrado | 35.8 | 7.1 | 896 | 62.3 | 18.9 | 503 |
| Nimba | 47.3 | 5.1 | 541 | 67.0 | 12.0 | 173 |
| River Cess | 52.5 | 8.1 | 61 | 80.8 | 7.0 | 18 |
| River Gee | 61.7 | 11.7 | 33 | 73.6 | 20.7 | 17 |
| Sinoe | 75.8 | 1.1 | 78 | 97.0 | 2.3 | 40 |
| School attendance |  |  |  |  |  |  |
| Attending | 49.0 | 9.2 | 2,385 | 65.9 | 19.1 | 1,135 |
| Not attending | 39.3 | 11.0 | 646 | 62.3 | 22.3 | 163 |
| Head of household's education |  |  |  |  |  |  |
| No education | 51.8 | 11.2 | 1,039 | 64.5 | 21.2 | 390 |
| Elementary | 48.4 | 13.3 | 509 | 66.8 | 20.8 | 249 |
| Junior high | 44.5 | 9.5 | 390 | 73.7 | 14.0 | 162 |
| Senior high | 45.8 | 6.2 | 775 | 79.0 | 11.9 | 285 |
| Higher | 34.7 | 3.9 | 290 | 40.8 | 29.4 | 190 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 53.6 | 13.1 | 650 | 64.2 | 28.4 | 205 |
| Second | 55.4 | 8.3 | 629 | 74.7 | 16.6 | 217 |
| Middle | 46.7 | 12.8 | 671 | 68.1 | 13.0 | 266 |
| Fourth | 42.5 | 7.7 | 563 | 62.9 | 18.2 | 293 |
| Highest | 33.3 | 4.5 | 519 | 60.0 | 22.5 | 318 |
| Total | 46.9 | 9.6 | 3,031 | 65.4 | 19.5 | 1,298 |




## Table 17.6 Child labor

Percentage of children age 5-17 by involvement in economic activities or household chores during the week before the survey and percentage engaged in child labor during the week before the survey, according to background characteristics, Liberia DHS 2019-20

| Background characteristic | Children involved in economic activities for a total number of hours during last week: |  | Children involved in household chores for a total number of hours during last week: |  | Total child labor ${ }^{1}$ | Number of children age 5-17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Below the agespecific threshold | At or above the age-specific threshold | Below the agespecific threshold | At or above the age-specific threshold |  |  |
| Age in years |  |  |  |  |  |  |
| 5-11 | 69.6 | 30.4 | 25.0 | 6.3 | 36.7 | 3,031 |
| 12-14 | 37.7 | 11.2 | 19.7 | 4.9 | 16.0 | 1,298 |
| 15-17 | 57.2 | 2.5 | na | na | 2.5 | 825 |
| Child's sex |  |  |  |  |  |  |
| Male | 58.0 | 19.9 | 39.8 | 9.4 | 29.3 | 2,736 |
| Female | 61.4 | 22.4 | 48.9 | 11.9 | 34.3 | 2,419 |
| Residence |  |  |  |  |  |  |
| Urban | 59.1 | 16.3 | 40.2 | 10.0 | 26.4 | 2,979 |
| Greater Monrovia | 58.0 | 10.3 | 38.0 | 10.3 | 20.6 | 1,487 |
| Other urban | 60.1 | 22.3 | 42.3 | 9.8 | 32.1 | 1,492 |
| Rural | 60.2 | 27.7 | 49.4 | 11.2 | 38.9 | 2,175 |
| Region |  |  |  |  |  |  |
| North Western | 58.7 | 30.4 | 43.1 | 18.3 | 48.7 | 450 |
| South Central | 59.5 | 12.6 | 39.4 | 9.2 | 21.8 | 2,253 |
| South Eastern A | 63.0 | 24.0 | 53.2 | 7.8 | 31.8 | 342 |
| South Eastern B | 60.4 | 24.3 | 52.3 | 14.7 | 39.0 | 323 |
| North Central | 59.0 | 28.3 | 47.0 | 10.1 | 38.4 | 1,787 |
| County |  |  |  |  |  |  |
| Bomi | 61.0 | 26.2 | 44.0 | 15.9 | 42.1 | 178 |
| Bong | 52.5 | 32.2 | 35.6 | 23.0 | 55.2 | 484 |
| Gbarpolu | 46.3 | 43.8 | 42.5 | 26.6 | 70.4 | 82 |
| Grand Bassa | 66.6 | 19.0 | 48.5 | 3.4 | 22.4 | 279 |
| Grand Cape Mount | 62.0 | 28.6 | 42.5 | 17.0 | 45.6 | 189 |
| Grand Gedeh | 70.6 | 17.2 | 33.5 | 16.6 | 33.8 | 113 |
| Grand Kru | 57.0 | 31.5 | 51.3 | 19.3 | 50.8 | 106 |
| Lofa | 61.6 | 26.8 | 59.8 | 4.3 | 31.1 | 494 |
| Margibi | 60.8 | 22.3 | 40.9 | 13.3 | 35.7 | 288 |
| Maryland | 63.5 | 18.8 | 52.5 | 12.7 | 31.5 | 156 |
| Montserrado | 58.1 | 9.9 | 37.6 | 9.4 | 19.3 | 1,685 |
| Nimba | 61.3 | 26.9 | 46.0 | 6.0 | 32.9 | 809 |
| River Cess | 59.9 | 27.8 | 50.9 | 6.8 | 34.6 | 90 |
| River Gee | 58.2 | 25.7 | 53.3 | 11.9 | 37.6 | 62 |
| Sinoe | 58.8 | 27.1 | 70.9 | 1.3 | 28.4 | 138 |
| School attendance |  |  |  |  |  |  |
| Attending | 62.2 | 21.2 | 48.5 | 11.0 | 32.3 | 3,953 |
| Not attending | 50.9 | 20.8 | 29.6 | 8.9 | 29.7 | 1,201 |
| Head of household's education |  |  |  |  |  |  |
| No education | 59.2 | 23.8 | 45.5 | 11.5 | 35.3 | 1,737 |
| Elementary | 57.9 | 26.8 | 46.8 | 13.5 | 40.4 | 881 |
| Junior high | 61.1 | 21.0 | 46.5 | 9.5 | 30.5 | 630 |
| Senior high | 61.9 | 18.5 | 46.4 | 6.6 | 25.0 | 1,250 |
| Higher | 57.5 | 9.5 | 30.0 | 11.3 | 20.8 | 594 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 58.6 | 32.5 | 48.3 | 14.4 | 47.0 | 993 |
| Second | 58.4 | 30.1 | 51.7 | 8.9 | 39.0 | 989 |
| Middle | 62.0 | 20.7 | 44.3 | 10.8 | 31.5 | 1,115 |
| Fourth | 61.5 | 13.1 | 41.3 | 9.4 | 22.5 | 1,025 |
| Highest | 57.1 | 9.9 | 35.2 | 9.2 | 19.1 | 1,032 |
| Total | 59.6 | 21.1 | 44.1 | 10.5 | 31.7 | 5,154 |

na $=$ Not applicable
${ }^{1}$ According to the UNICEF definition, this category includes children who (1) participate in economic activities at or above the threshold defined for their age group or (2) participate in household chores at or above the threshold defined for their age group.

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## SAMPLE DESIGN

## A. 1 Introduction

TThis appendix describes the objectives of the survey, the overall sample size, survey domains, and any subsamples used.

The 2019-20 Liberia Demographic and Health Survey (2019-20 LDHS) is a nationwide survey with a nationally representative sample of residential households. All women age 15-49 who are usual members of the selected households or who spent the night before the survey in the selected households were eligible for individual interviews. In addition, in every second household, all men age 15-59 who are usual residents of the household or who slept in the household on the night before the interview were eligible for individual interviews. Biomarker collection also occurred only in this subsample. In these households, women age 15-49 and men age 15-59, were eligible for HIV and hemoglobin testing for anemia. Children age 6-59 months were also tested for anemia in each household. In addition, height and weight measurements were collected from women age 15-49 and children age 0-59 months.

Women age 15-49 and men age 15-59, were eligible for hepatitis B and C and EVD antibody testing by a CDC follow-up survey team. The follow-up team collected venous blood samples from eligible respondents who consented to hepatitis B and C and/or EVD antibody testing.

In households selected for the Man's Questionnaire, one woman age 15-49 was selected from each household to complete the domestic violence module.

The sample for the 2019-20 LDHS was designed to produce reliable estimates for key indicators at the at the national, urban (Greater Monrovia and all other urban areas), and rural levels, including each of the five regions. To create the five geographical regions, the 15 counties in Liberia were grouped together as follows:

- North Western: Bomi, Grand Cape Mount, Gbarpolu
- South Central: Montserrado, Margibi, Grand Bassa
- North Central: Bong, Nimba, Lofa
- South Eastern A: River Cess, Sinoe, Grand Gedeh
- South Eastern B: River Gee, Grand Kru, Maryland

The survey will also produce separate representative results for most key indicators of the 15 counties.

## A. 2 Sample Frame

The 2019-20 LDHS sample was selected using a stratified, two-stage cluster design. The frame used for the first stage of selection of the 2019-20 LDHS sample was based on an updated version of the 2008 Liberia National Population and Housing Census (2008 LPHC), conducted by the Liberia Institute of Statistics and Geo-Information Services (LISGIS), in which classification of localities as urban or rural was updated through the application of standardized definitions. Administratively, Liberia is divided into 15 counties; each county is subdivided into districts and each district into clans. For the 2008 LPHC, each of the clans was subdivided into smaller enumeration areas (EAs), typically including about 100 households. The small size of the EAs and the availability of sketch maps and other materials to delimit their geographic boundaries made the census EAs ideal for use as the first-stage sampling units of the LDHS sample.

Table A. 1 shows the distribution of households across counties based on the updated 2008 census frame, by type of residence (urban/rural). The table indicates that $34.7 \%$ of the households in Liberia are in Montserrado. About $56 \%$ of households are in urban areas, with the percentage of the urban household population varying from 3.5\% in River Cess to $93.6 \%$ in Montserrado. Table A. 2 presents the distribution of enumeration areas and their average size in number of households in the sample frame by county and residence. There are in total 7,012 EAs; among them, 3,655 are in urban areas and 3,357 are in rural areas. The average EA size is 96 households; urban EAs are larger in size, with an average of 103 households per EA, whereas rural EAs have an average of 88 households.

| Table A. 1 Households |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Distribution of residential households in the sampling frame, by county and by type of residence, Liberia 2019-20 |  |  |  |  |  |
|  | Residential households |  |  | Percentage |  |
| Counties | Urban | Rural | Total | Counties | Urban |
| Bomi | 3,534 | 16,974 | 20,508 | 3.06 | 17.23 |
| Gbarpolu | 2,250 | 12,283 | 14,533 | 2.17 | 15.48 |
| Grand Cape Mount | 1,533 | 22,532 | 24,065 | 3.59 | 6.37 |
| Grand Bassa | 14,810 | 32,630 | 47,440 | 7.07 | 31.22 |
| Margibi | 20,974 | 24,121 | 45,095 | 6.72 | 46.51 |
| Montserrado | 217,889 | 15,013 | 232,902 | 34.72 | 93.55 |
| Bong | 26,103 | 43,707 | 69,810 | 10.41 | 37.39 |
| Lofa | 18,033 | 31,609 | 49,642 | 7.40 | 36.33 |
| Nimba | 47,893 | 32,841 | 80,734 | 12.04 | 59.32 |
| Grand Gedeh | 8,089 | 10,054 | 18,143 | 2.70 | 44.58 |
| River Cess | 487 | 13,494 | 13,981 | 2.08 | 3.48 |
| Sinoe | 2,594 | 13,235 | 15,829 | 2.36 | 16.39 |
| Grand Kru | 507 | 8,462 | 8,969 | 1.34 | 5.65 |
| Maryland | 9,381 | 9,873 | 19,254 | 2.87 | 48.72 |
| River Gee | 2,857 | 6,965 | 9,822 | 1.46 | 29.09 |
| Liberia | 376,934 | 293,793 | 670,727 | 100.00 | 56.20 |

Source: The 2008 LPHC conducted by LISGIS.

Table A. 2 Enumeration areas and households
Number of enumeration areas and average number of households per EA in the sampling frame, by county and type of residence, Liberia 2019-20

| Counties | Number of EAs |  |  | Average EA size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Total | Urban | Rural | Total |
| Bomi | 46 | 227 | 273 | 77 | 75 | 75 |
| Gbarpolu | 21 | 127 | 148 | 107 | 97 | 98 |
| Grand Cape Mount | 17 | 261 | 278 | 90 | 86 | 87 |
| Grand Bassa | 152 | 316 | 468 | 97 | 103 | 101 |
| Margibi | 168 | 263 | 431 | 125 | 92 | 105 |
| Montserrado | 2,101 | 149 | 2,250 | 104 | 101 | 104 |
| Bong | 326 | 601 | 927 | 80 | 73 | 75 |
| Lofa | 170 | 331 | 501 | 106 | 95 | 99 |
| Nimba | 434 | 347 | 781 | 110 | 95 | 103 |
| Grand Gedeh | 83 | 93 | 176 | 97 | 108 | 103 |
| River Cess | 5 | 147 | 152 | 97 | 92 | 92 |
| Sinoe | 23 | 195 | 218 | 113 | 68 | 73 |
| Grand Kru | 7 | 123 | 130 | 72 | 69 | 69 |
| Maryland | 73 | 98 | 171 | 129 | 101 | 113 |
| River Gee | 29 | 79 | 108 | 99 | 88 | 91 |
| Liberia | 3,655 | 3,357 | 7,012 | 103 | 88 | 96 |

Source: The 2008 LPHC conducted by LISGIS.

## A. 3 Sample Design and Implementation

The sample for the 2019-20 LDHS is a stratified sample selected in two stages. In the first stage, 325 EAs were selected with a stratified probability-proportional-to-size selection from the sampling frame. EA size is the number of households residing in the EA recorded in the updated 2008 LPHC frame. Stratification is achieved by separating every county into urban and rural areas. The urban area in each county mainly consisted of the county's capital. Therefore, the 15 counties were stratified into 30 sampling strata: 15 rural strata and 15 urban strata. Samples were selected independently in each stratum, with a predetermined number of EAs to be selected. Implicit stratification was achieved at each of the lower administrative unit levels by sorting the sampling frame according to districts and clans within each sampling stratum 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 resulting lists of households served as the sampling frame for the selection of households in the second stage. In the second stage of selection, a fixed number of 30 households were selected in every sample cluster by an equal probability systematic sampling. The survey interviewers were asked to interview only the pre-selected households. To prevent bias, replacements and changes of the preselected households were not allowed.

Table A. 3 shows the sample allocation of clusters and households by counties and by type of residence. The expected number of completed interviews with women and men based on the sample design is shown by county and residence in Table A.4. The sample allocation is a power allocation with a small adjustment that took into account county populations and their urban-rural distributions. A proportional allocation was not applied because of the great disparity among the county sizes. Among the 325 clusters selected, 120 are in urban areas and 205 are in rural areas. The total number of households planned for selection in the 2019-20 LDHS was 9,750, 3,600 in urban areas and 6,150 in rural areas. The sample was expected to result in about 9,309 completed interviews with women age 15-49 (3,749 in urban areas and 5,560 in rural areas) and about 5,329 completed interviews with men age 15-59 (2,057 in urban areas and 3,272 in rural areas).

| Table A. 3 Sample allocation of EAs and households |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sample allocation of EAs and households by county and region, according to residence, Liberia 2019-20 |  |  |  |  |  |  |
| Counties/ regions | Allocation of EAs |  |  | Allocation of households |  |  |
|  | Urban | Rural | Total | Urban | Rural | Total |
| County |  |  |  |  |  |  |
| Bomi | 5 | 12 | 17 | 150 | 360 | 510 |
| Gbarpolu | 4 | 14 | 18 | 120 | 420 | 540 |
| Grand Cape Mount | 4 | 16 | 20 | 120 | 480 | 600 |
| Grand Bassa | 7 | 15 | 22 | 210 | 450 | 660 |
| Margibi | 9 | 12 | 21 | 270 | 360 | 630 |
| Montserrado | 36 | 8 | 44 | 1,080 | 240 | 1,320 |
| Bong | 9 | 16 | 25 | 270 | 480 | 750 |
| Lofa | 8 | 15 | 23 | 240 | 450 | 690 |
| Nimba | 8 | 18 | 26 | 240 | 540 | 780 |
| Grand Gedeh | 7 | 12 | 19 | 210 | 360 | 570 |
| River Cess | 2 | 15 | 17 | 60 | 450 | 510 |
| Sinoe | 5 | 14 | 19 | 150 | 420 | 570 |
| Grand Kru | 3 | 14 | 17 | 90 | 420 | 510 |
| Maryland | 8 | 12 | 20 | 240 | 360 | 600 |
| River Gee | 5 | 12 | 17 | 150 | 360 | 510 |
| Region |  |  |  |  |  |  |
| North Western | 13 | 42 | 55 | 390 | 1,260 | 1,650 |
| South Central | 52 | 35 | 87 | 1,560 | 1,050 | 2,610 |
| North Central | 25 | 49 | 74 | 750 | 1,470 | 2,220 |
| South Eastern A | 14 | 41 | 55 | 420 | 1,230 | 1,650 |
| South Eastern B | 16 | 38 | 54 | 480 | 1,140 | 1,620 |
| Liberia | 120 | 205 | 325 | 3,600 | 6,150 | 9,750 |


| Sample allocation of expected number of completed interviews with women and men, by county and region, according to residence, Liberia 2019-20 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Counties/ regions | Women age 15-49 |  |  | Men age 15-59 |  |  |
|  | Urban | Rural | Total | Urban | Rural | Total |
| County |  |  |  |  |  |  |
| Bomi | 156 | 325 | 481 | 86 | 192 | 278 |
| Gbarpolu | 125 | 380 | 505 | 69 | 223 | 292 |
| Grand Cape |  |  |  |  |  |  |
| Mount | 125 | 434 | 559 | 69 | 256 | 325 |
| Grand Bassa | 219 | 407 | 626 | 120 | 239 | 359 |
| Margibi | 281 | 325 | 606 | 154 | 192 | 346 |
| Montserrado | 1,124 | 217 | 1,341 | 617 | 127 | 744 |
| Bong | 281 | 434 | 715 | 154 | 256 | 410 |
| Lofa | 250 | 407 | 657 | 137 | 239 | 376 |
| Nimba | 250 | 489 | 739 | 137 | 287 | 424 |
| Grand Gedeh | 219 | 325 | 544 | 120 | 192 | 312 |
| River Cess | 63 | 407 | 470 | 34 | 239 | 273 |
| Sinoe | 156 | 380 | 536 | 86 | 223 | 309 |
| Grand Kru | 94 | 380 | 474 | 51 | 223 | 274 |
| Maryland | 250 | 325 | 575 | 137 | 192 | 329 |
| River Gee | 156 | 325 | 481 | 86 | 192 | 278 |
| Regions |  |  |  |  |  |  |
| North Western | 406 | 1139 | 1545 | 224 | 671 | 895 |
| South Central | 1624 | 949 | 2573 | 891 | 558 | 1,449 |
| North Central | 781 | 1330 | 2111 | 428 | 782 | 1,210 |
| South Eastern A | 438 | 1112 | 1550 | 240 | 654 | 894 |
| South Eastern B | 500 | 1030 | 1530 | 274 | 607 | 881 |
| Liberia | 3,749 | 5,560 | 9,309 | 2,057 | 3,272 | 5,329 |

The allocations presented in Table A. 4 are based on results obtained from the 2013 LDHS, in which the overall household completion rate was $96 \%$. There were 1.10 women age 15-49 per household in urban areas and 0.96 in rural areas; the overall response rate for women was about $98 \%$. There were about 1.25 men age 15-59 per household in urban areas and 1.15 in rural areas; the overall response rate for men was about $95 \%$.

Table A. 5 and Table A. 6 present response rates for women and men, respectively, by urban and rural areas and by region. The male subsample constituted one in two of the households selected for the women's sample.

Table A. 5 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), Liberia DHS 2019-20

| Result | Residence |  | Region |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | North Western | South Central | South Eastern A | South Eastern B | North Central |  |
| Selected households |  |  |  |  |  |  |  |  |
| Completed (C) | 92.1 | 93.6 | 91.9 | 92.4 | 93.4 | 92.5 | 94.7 | 93.1 |
| Household present but no competent respondent at home (HP) | 1.2 | 0.5 | 1.2 | 1.1 | 0.2 | 0.4 | 0.8 | 0.8 |
| Postponed (P) | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 |
| Refused (R) | 0.6 | 0.3 | 0.1 | 1.2 | 0.1 | 0.0 | 0.3 | 0.4 |
| Dwelling not found (DNF) | 0.2 | 0.1 | 0.0 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 |
| Household absent (HA) | 2.6 | 2.8 | 4.0 | 2.0 | 2.7 | 3.1 | 2.3 | 2.7 |
| Dwelling vacant/address not a dwelling (DV) | 2.2 | 1.4 | 1.4 | 2.1 | 1.8 | 1.9 | 1.1 | 1.7 |
| Dwelling destroyed (DD) | 0.5 | 1.0 | 0.9 | 0.7 | 1.0 | 1.5 | 0.2 | 0.8 |
| Other ( O ) | 0.4 | 0.3 | 0.5 | 0.2 | 0.5 | 0.2 | 0.4 | 0.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of sampled households | 3,605 | 6,140 | 1,650 | 2,612 | 1,648 | 1,612 | 2,223 | 9,745 |
| Household response rate (HRR) ${ }^{1}$ | 97.6 | 99.0 | 98.6 | 97.2 | 99.5 | 99.1 | 98.7 | 98.5 |
| Eligible women |  |  |  |  |  |  |  |  |
| Completed (EWC) | 96.4 | 96.4 | 97.7 | 95.7 | 97.9 | 96.2 | 95.8 | 96.4 |
| Not at home (EWNH) | 2.1 | 1.8 | 1.4 | 2.0 | 0.4 | 3.2 | 2.1 | 1.9 |
| Postponed (EWP) | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Refused (EWR) | 0.8 | 0.7 | 0.4 | 1.2 | 0.7 | 0.1 | 1.0 | 0.8 |
| Partly completed (EWPC) | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Incapacitated (EWI) | 0.3 | 0.6 | 0.3 | 0.4 | 0.6 | 0.3 | 0.6 | 0.4 |
| Other (EWO) | 0.4 | 0.4 | 0.2 | 0.6 | 0.4 | 0.2 | 0.3 | 0.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 3,463 | 4,901 | 1,185 | 2,405 | 1,221 | 1,544 | 2,009 | 8,364 |
| Eligible women response rate (EWRR) ${ }^{2}$ | 96.4 | 96.4 | 97.7 | 95.7 | 97.9 | 96.2 | 95.8 | 96.4 |
| Overall women response rate (OWRR) $^{3}$ | 94.1 | 95.5 | 96.4 | 93.0 | 97.4 | 95.4 | 94.6 | 95.0 |

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

$$
\frac{100{ }^{*} C}{C+H P+P+R+D N F}
$$

${ }^{2}$ The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC).
${ }^{3}$ The overall women response rate (OWRR) is calculated as:
OWRR $=\mathrm{HRR}$ * EWRR/ 100

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

$$
\frac{100 * C}{C+H P+P+R+D N F}
$$

${ }^{2}$ 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:

$$
\text { OMRR }=\mathrm{HRR} * \mathrm{EMRR} / 100
$$

## A. 4 Sample Probabilities and Sampling Weights

Due to the non-proportional allocation of the sample to different counties and their urban and rural areas and the possible differences in response rates, sampling weights will be required for any analysis using the 2019-20 LDHS data to ensure the actual representativeness of the survey results at the national level as well as the domain level. Since the 2019-20 LDHS sample is 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:
$P_{1 h i}$ : first-stage sampling probability of the $i^{t h}$ cluster in stratum $h$
$P_{2 h i}$ : second-stage sampling probability within the $i^{t h}$ cluster (households)
$P_{h i}$ : overall sampling probability of any households of the $i^{\text {th }}$ cluster in stratum $h$

Let $a_{h}$ be the number of EAs selected in stratum $h, M_{h i}$ the number of households according to the sampling frame in the $i^{\text {th }} \mathrm{EA}$, and $\sum M_{h i}$ the total number of households in the stratum. The probability of selecting the $i^{\text {th }}$ EA in the 2019-20 LDHS sample is calculated as follows:

$$
P_{1 h i}=\frac{a_{h} M_{h i}}{\sum M_{h i}}
$$

Let $L_{h i}$ be the number of households listed in the household listing operation in cluster $i$ in stratum $h$, and let $g_{h i}$ be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$
P_{2 h i}=\frac{g_{h i}}{L_{h i}}
$$

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

$$
P_{h i}=P_{1 h i} \times P_{2 h i}
$$

The sampling weight for each household in cluster $i$ of stratum $h$ is the inverse of its overall selection probability:

$$
W_{h i}=1 / P_{h i}
$$

The design weights were adjusted for household nonresponse and individual nonresponse to obtain the sampling weights for households and for women and men, respectively. Nonresponse is adjusted at the sampling stratum level. For the household sampling weight, the household design weight is multiplied by the inverse of the household response rate by stratum. For women's individual sampling weight, the household sampling weight is multiplied by the inverse of women's individual response rate by stratum. After adjusting for nonresponse, the sampling weights are normalized to obtain the final standard weights that appear in the data files. The normalization process is done to obtain a total number of unweighted cases equal to the total number of weighted cases at the national level for the total number of households, women, and men. Normalization is done by multiplying the sampling weight by the estimated sampling fraction obtained from the survey for the household weight and the individual woman's and man's weights. The normalized weights are relative weights that are valid for estimating means, proportions, ratios, and rates but are not valid for estimating population totals or for pooled data. A special weight for domestic violence was calculated that accounts for the selection of one woman per household and for module nonresponse.

The estimates from a sample survey are affected by two types of errors: nonsampling errors and 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 2019-20 Liberia Demographic and Health Survey (LDHS) 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 2019-20 LDHS is only one of many samples that could have been selected from the same population, using the same design and expected 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 among all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

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 2019-20 LDHS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulas. Sampling errors are computed in SAS, using programs developed by ICF. These programs use the Taylor linearization method to estimate variances for survey estimates that are means, proportions, or ratios. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearization method treats any percentage or average as a ratio estimate, $r=y / x$, where $y$ represents the total sample value for variable $y$ and $x$ represents the total number of cases in the group or subgroup under consideration. The variance of $r$ is computed using the formula given below, with the standard error being the square root of the variance:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1-f}{x^{2}} \sum_{h=1}^{H}\left\lfloor\frac{m_{h}}{m_{h}-1}\left(\sum_{i=1}^{m_{h}} z_{h i}^{2}-\frac{z_{h}^{2}}{m_{h}}\right)\right\rfloor
$$

in which

$$
z_{h i}=y_{h i}-r x_{h i}, \text { and } z_{h}=y_{h}-r x_{h}
$$

where $h \quad$ represents the stratum, which varies from 1 to $H$;
$m_{h} \quad$ is the total number of clusters selected in the $h^{\text {th }}$ stratum;
$y_{h i} \quad$ is the sum of the weighted values of variable $y$ in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum; is the sum of the weighted number of cases in the $i^{\text {th }}$ cluster in the $h^{\text {th }}$ stratum; and
$f$

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 2019-20 LDHS, there were 325 non-empty clusters. Hence, 325 replications were created. The variance of a rate $r$ is calculated as follows:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1}{k(k-1)} \sum_{i=1}^{k}\left(r_{i}-r\right)^{2}
$$

in which

$$
r_{i}=k r-(k-1) r_{(i)}
$$

where $r$ is the estimate computed from the full sample of 325 clusters,
$r_{(i)} \quad$ is the estimate computed from the reduced sample of 324 clusters ( $i^{\text {th }}$ cluster excluded), and $k \quad$ is the total number of clusters.

In addition to the standard error, the design effect (DEFT) for each estimate is also calculated. The design effect 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. Relative standard errors and confidence limits for the estimates are also calculated.

Sampling errors for the 2019-20 LDHS are calculated for selected variables considered to be of primary interest. The results are presented in this appendix for the country as a whole, for urban and rural areas, for each of the five geographical regions. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table B.1. Tables B. 2 through B. 10 present the value of the statistic (R), its standard error (SE), the number of unweighted ( N ) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the $95 \%$ confidence limits ( $\mathrm{R} \pm 2 \mathrm{SE}$ ) for each selected 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 ideal number of children) can be interpreted as follows: the overall average from the national sample is 4.606 , and its standard error is 0.056 . Therefore, to obtain the $95 \%$ confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is, $4.606 \pm 2 \times 0.056$. There is a high probability ( $95 \%$ ) that the true ideal number of children is between 4.495 and 4.717 .

For the total sample, the value of the DEFT, averaged over all indicators in the appendix, is about 1.8. This means that, due to multi-stage clustering of the sample, the average standard error is increased by a factor of 1.8 over that in an equivalent simple random sample.

| Variable | Estimate | Base population |
| :---: | :---: | :---: |
| HOUSEHOLDS AND POPULATION |  |  |
| Ownership of at least one ITN | Proportion | Households |
| Access to an ITN | Proportion | De facto household population |
| Use of an ITN | Proportion | De facto household population |
| WOMEN |  |  |
| Urban residence | Proportion | Women 15-49 |
| Literacy | Proportion | Women 15-49 |
| No education | Proportion | Women 15-49 |
| Secondary education or higher | Proportion | Women 15-49 |
| Never married/never in union | Proportion | Women 15-49 |
| Currently married/in union | Proportion | Women 15-49 |
| Married before age 18 | Proportion | Women 20-49 |
| Had sexual intercourse before age 18 | Proportion | Women 20-49 |
| Currently pregnant | Proportion | Women 15-49 |
| Know any contraceptive method | Proportion | Currently married women 15-49 |
| Know a modern method | Proportion | Currently married women 15-49 |
| Currently using any method | Proportion | Currently married women 15-49 |
| Currently using a modern method | Proportion | Currently married women 15-49 |
| Currently using pill | Proportion | Currently married women 15-49 |
| Currently using male condoms | Proportion | Currently married women 15-49 |
| Currently using injectables | Proportion | Currently married women 15-49 |
| Currently using implants | Proportion | Currently married women 15-49 |
| Currently using female sterilization | Proportion | Currently married women 15-49 |
| Currently using withdrawal | Proportion | Currently married women 15-49 |
| Currently using rhythm | Proportion | Currently married women 15-49 |
| Used public sector source | Proportion | Current users of modern method |
| Want no more children | Proportion | Currently married women 15-49 |
| Want to delay next birth at least 2 years | Proportion | Currently married women 15-49 |
| Ideal number of children | Mean | Women 15-49 |
| Mothers protected against tetanus for last birth | Proportion | Women with a live birth in last 5 years |
| Births with skilled attendant at delivery | Proportion | Births occurring 1-59 months before survey |
| Received 3+ doses of SP/Fansidar | Proportion | Last birth of women 15-49 with live births in the last 2 years |
| Treated with ORS | Proportion | Children under 5 with diarrhea in past 2 weeks |
| Sought treatment | Proportion | Children under 5 with diarrhea in past 2 weeks |
| Ever had vaccination card | Proportion | Children 12-23 months |
| Received BCG vaccination | Proportion | Children 12-23 months |
| Received DPT-HepB-Hib vaccination (3 doses) | Proportion | Children 12-23 months |
| Received birth dose polio 0 vaccination | Proportion | Children 12-23 months |
| Received polio vaccination (3 doses) | Proportion | Children 12-23 months |
| Received pneumococcal vaccination (3 doses) | Proportion | Children 12-23 months |
| Received rotavirus vaccination (2 doses) | Proportion | Children 12-23 months |
| Received measles-containing vaccination 1 | Proportion | Children 12-23 months |
| Received yellow fever vaccination | Proportion | Children 12-23 months |
| Received all basic vaccinations | Proportion | Children 12-23 months |
| Received all age appropriate vaccinations (12-23 months) | Proportion | Children 12-23 months |
| Received all age appropriate vaccinations (24-35 months) | Proportion | Children 24-35 months |
| Height-for-age (-2SD) | Proportion | Children under 5 who were measured |
| Weight-for-height (-2SD) | Proportion | Children under 5 who were measured |
| Weight-for-age (-2SD) | Proportion | Children under 5 who were measured |
| Body mass index (BMI) <18.5 | Proportion | Women 15-49 who were measured |
| Body mass index (BMI) $\geq 25$ | Proportion | Women 15-49 who were measured |
| Prevalence of anemia (children 6-59 months) | Proportion | Children 6-59 months who were tested |
| Prevalence of anemia (women 15-49) | Proportion | Women 15-49 who were tested |
| Ever experienced any physical violence since age 15 | Proportion | Women 15-49 |
| Ever experienced any sexual violence | Proportion | Women 15-49 |
| Ever experienced any physical/sexual violence by husband/partner | Proportion | Women 15-49 |
| Ever experienced any emotional/physical/sexual violence by any husband/partner | Proportion | Women 15-49 |
| Experienced any emotional/physical/sexual violence in the last 12 months by any husband/partner | Proportion | Women 15-49 |
| Had 2+ sexual partners in past 12 months | Proportion | Women 15-49 |
| Condom use at last sex | Proportion | Women 15-49 with nonmarital, noncohabiting-partner-in past 12 months |
| Abstinence among young people (never had sex) | Proportion | Never-married women 15-24 |


| Table B.1-Continued |  |  |
| :---: | :---: | :---: |
| Variable | Estimate | Base population |
| Had an HIV test and received results in past 12 months | Proportion | Women 15-49 |
| Discriminatory attitudes towards people with HIV | Proportion | Women who have heard of HIV/AIDS |
| Prevalence of female circumcision | Proportion | Women 15-49 |
| Total fertility rate (3 years) | Rate | Woman-years of exposure to childbearing |
| Neonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Postneonatal mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Infant mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Child mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| Under-5 mortality rate ${ }^{1}$ | Rate | Children exposed to the risk of mortality |
| MEN |  |  |
| Urban residence | Proportion | Men 15-49 |
| Literacy | Proportion | Men 15-49 |
| No education | Proportion | Men 15-49 |
| Secondary education or higher | Proportion | Men 15-49 |
| Never married/never in union | Proportion | Men 15-49 |
| Currently married/in union | Proportion | Men 15-49 |
| Had sexual intercourse before age 18 | Proportion | Men 20-49 |
| Know any contraceptive method | Proportion | Currently married men 15-49 |
| Know a modern method | Proportion | Currently married men 15-49 |
| Want no more children | Proportion | Currently married men 15-49 |
| Want to delay next birth at least 2 years | Proportion | Currently married men 15-49 |
| Ideal number of children | Mean | Men 15-49 |
| Had 2+ sexual partners in past 12 months | Proportion | Men 15-49 |
| Condom use at last sex | Proportion | Men 15-49 with nonmarital, noncohabiting partners in past 12 months |
| Abstinence among young people (never had sex) | Proportion | Never-married men 15-24 |
| Paid for sexual intercourse in past 12 months | Proportion | Men 15-49 |
| Had an HIV test and received results in past 12 months | Proportion | Men 15-49 |
| Discriminatory attitudes towards people with HIV | Proportion | Men who have heard of HIV/AIDS |

${ }^{1}$ Mortality rates are calculated for the 5 years before the survey for the national sample, urban, and rural samples and for the 10 years before the survey for regional samples.

| Table B.2 Sampling errors: Total sample, Liberia DHS 2019-20 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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| Table B.2-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
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| Table B.3 Sampling errors: Urban sample, Liberia DHS | 2019-20 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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| Table B.3-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
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na $=$ Not applicable

| Table B.4 Sampling errors: Rural sample, Liberia DHS | 2019-20 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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| Table B.4-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
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na $=$ Not applicable

| Table B.5 Sampling errors: North Western sample, Liberia DHS | 2019-20 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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| Table B.5-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |


| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted ( N ) | Weighted (WN) |  |  | R-2SE | R+2SE |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Ownership of at least one ITN | 0.429 | 0.019 | 2,414 | 4,334 | 1.929 | 0.045 | 0.390 | 0.468 |
| Access to an ITN | 0.297 | 0.016 | 10,347 | 18,318 | 1.877 | 0.052 | 0.266 | 0.328 |
| Use of an ITN | 0.285 | 0.018 | 10,347 | 18,318 | 2.014 | 0.064 | 0.249 | 0.321 |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.838 | 0.021 | 2,301 | 4,105 | 2.673 | 0.025 | 0.797 | 0.879 |
| Literacy | 0.623 | 0.018 | 2,301 | 4,105 | 1.783 | 0.029 | 0.587 | 0.659 |
| No education | 0.222 | 0.013 | 2,301 | 4,105 | 1.542 | 0.060 | 0.195 | 0.249 |
| Secondary education or higher | 0.606 | 0.020 | 2,301 | 4,105 | 1.921 | 0.032 | 0.567 | 0.645 |
| Never married (never in union) | 0.474 | 0.019 | 2,301 | 4,105 | 1.799 | 0.040 | 0.436 | 0.511 |
| Currently married (in union) | 0.439 | 0.018 | 2,301 | 4,105 | 1.711 | 0.040 | 0.403 | 0.474 |
| Married before age 18 | 0.231 | 0.016 | 1,810 | 3,246 | 1.618 | 0.069 | 0.199 | 0.264 |
| Had sexual intercourse before age 18 | 0.767 | 0.014 | 1,810 | 3,246 | 1.420 | 0.018 | 0.738 | 0.795 |
| Currently pregnant | 0.059 | 0.005 | 2,301 | 4,105 | 1.102 | 0.092 | 0.048 | 0.070 |
| Know any contraceptive method | 0.988 | 0.006 | 1,150 | 1,801 | 1.736 | 0.006 | 0.976 | 0.999 |
| Know a modern method | 0.988 | 0.006 | 1,150 | 1,801 | 1.736 | 0.006 | 0.976 | 0.999 |
| Currently using any method | 0.222 | 0.020 | 1,150 | 1,801 | 1.597 | 0.088 | 0.183 | 0.261 |
| Currently using a modern method | 0.207 | 0.018 | 1,150 | 1,801 | 1.540 | 0.089 | 0.170 | 0.243 |
| Currently using pill | 0.033 | 0.007 | 1,150 | 1,801 | 1.413 | 0.225 | 0.018 | 0.048 |
| Currently using male condoms | 0.012 | 0.004 | 1,150 | 1,801 | 1.302 | 0.351 | 0.004 | 0.020 |
| Currently using injectables | 0.113 | 0.014 | 1,150 | 1,801 | 1.452 | 0.120 | 0.086 | 0.141 |
| Currently using implants | 0.042 | 0.009 | 1,150 | 1,801 | 1.546 | 0.218 | 0.024 | 0.060 |
| Currently using female sterilization | 0.000 | 0.000 | 1,150 | 1,801 | na | na | 0.000 | 0.000 |
| Currently using withdrawal | 0.009 | 0.004 | 1,150 | 1,801 | 1.454 | 0.449 | 0.001 | 0.017 |
| Currently using rhythm | 0.006 | 0.003 | 1,150 | 1,801 | 1.263 | 0.468 | 0.000 | 0.012 |
| Using public sector source | 0.405 | 0.028 | 529 | 976 | 1.291 | 0.068 | 0.350 | 0.461 |
| Want no more children | 0.336 | 0.023 | 1,150 | 1,801 | 1.681 | 0.070 | 0.289 | 0.383 |
| Want to delay next birth at least 2 years | 0.211 | 0.017 | 1,150 | 1,801 | 1.431 | 0.082 | 0.177 | 0.246 |
| Ideal number of children | 4.174 | 0.067 | 2,153 | 3,920 | 1.594 | 0.016 | 4.040 | 4.309 |
| Mothers protected against tetanus for last birth | 0.821 | 0.020 | 1,121 | 1,825 | 1.701 | 0.025 | 0.780 | 0.861 |
| Births with skilled attendant at delivery | 0.802 | 0.020 | 1,484 | 2,296 | 1.625 | 0.025 | 0.761 | 0.843 |
| Received 3+ doses of SP/Fansidar | 0.343 | 0.031 | 581 | 926 | 1.492 | 0.090 | 0.281 | 0.404 |
| Treated with ORS | 0.548 | 0.039 | 274 | 357 | 1.099 | 0.071 | 0.470 | 0.626 |
| Sought medical treatment for diarrhea | 0.654 | 0.038 | 274 | 357 | 1.105 | 0.058 | 0.579 | 0.730 |
| Ever had vaccination card | 0.898 | 0.029 | 242 | 383 | 1.439 | 0.033 | 0.840 | 0.957 |
| Received BCG vaccination | 0.881 | 0.030 | 242 | 383 | 1.390 | 0.035 | 0.820 | 0.942 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.673 | 0.046 | 242 | 383 | 1.435 | 0.068 | 0.581 | 0.764 |
| Received birth dose polio 0 vaccination | 0.872 | 0.034 | 242 | 383 | 1.505 | 0.039 | 0.804 | 0.940 |
| Received polio vaccination (3 doses) | 0.609 | 0.043 | 242 | 383 | 1.302 | 0.071 | 0.523 | 0.695 |
| Received pneumococcal vaccination (3 doses) | 0.675 | 0.044 | 242 | 383 | 1.372 | 0.065 | 0.588 | 0.762 |
| Received rotavirus vaccination (2 doses) | 0.741 | 0.046 | 242 | 383 | 1.575 | 0.063 | 0.648 | 0.834 |
| Received measles-containing vaccination 1 | 0.770 | 0.036 | 242 | 383 | 1.250 | 0.046 | 0.699 | 0.841 |
| Received yellow fever vaccination | 0.732 | 0.039 | 242 | 383 | 1.300 | 0.053 | 0.654 | 0.810 |
| Received all basic vaccinations (12-23 months) | 0.489 | 0.047 | 242 | 383 | 1.370 | 0.095 | 0.396 | 0.583 |
| Received all age-appropriate vaccinations (12-23 months) | 0.393 | 0.041 | 242 | 383 | 1.246 | 0.105 | 0.311 | 0.475 |
| Received all age-appropriate vaccinations (24-35 months) | 0.277 | 0.046 | 252 | 367 | 1.449 | 0.165 | 0.186 | 0.369 |
| Height-for-age (-2SD) | 0.246 | 0.025 | 719 | 1,173 | 1.406 | 0.100 | 0.197 | 0.296 |
| Weight-for-height (-2SD) | 0.038 | 0.008 | 722 | 1,178 | 1.041 | 0.218 | 0.022 | 0.055 |
| Weight-for-age (-2SD) | 0.107 | 0.013 | 720 | 1,177 | 1.073 | 0.121 | 0.081 | 0.132 |
| Body mass index (BMI) <18.5 | 0.058 | 0.008 | 1,056 | 1,907 | 1.094 | 0.135 | 0.043 | 0.074 |
| Body mass index (BMI) $\geq 25$ | 0.441 | 0.018 | 1,056 | 1,907 | 1.203 | 0.041 | 0.405 | 0.478 |
| Prevalence of anemia (children 6-59 months) | 0.712 | 0.025 | 639 | 1,055 | 1.250 | 0.036 | 0.662 | 0.763 |
| Prevalence of anemia (women 15-49) | 0.469 | 0.019 | 1,138 | 2,042 | 1.264 | 0.040 | 0.432 | 0.506 |
| Ever experienced any physical violence since age 15 | 0.643 | 0.029 | 846 | 1,620 | 1.738 | 0.045 | 0.585 | 0.700 |
| Ever experienced any sexual violence | 0.073 | 0.012 | 846 | 1,620 | 1.392 | 0.170 | 0.048 | 0.098 |
| Ever experienced any physical/sexual violence by husband/partner | 0.458 | 0.034 | 581 | 841 | 1.649 | 0.075 | 0.390 | 0.527 |
| Ever experienced any emotional/physical/sexual violence by husband/partner | 0.592 | 0.032 | 581 | 841 | 1.562 | 0.054 | 0.528 | 0.656 |
| Experienced any emotional/physical/sexual violence in the last 12 months by husband/partner | 0.465 | 0.032 | 581 | 841 | 1.555 | 0.069 | 0.400 | 0.529 |
| Had 2+ sexual partners in past 12 months | 0.085 | 0.010 | 2,301 | 4,105 | 1.694 | 0.116 | 0.066 | 0.105 |
| Condom use at last sex | 0.190 | 0.035 | 164 | 351 | 1.132 | 0.183 | 0.120 | 0.260 |
| Abstinence among never-married youth (never had sex) | 0.256 | 0.026 | 670 | 1,265 | 1.549 | 0.102 | 0.204 | 0.308 |


| Table B.6-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
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na $=$ Not applicable

| Table B.7 Sampling errors: South Eastern A sample, Liberia DHS | 2019-20 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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| Table B.7-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |


| Variable | Value (R) | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unweighted ( N ) | Weighted (WN) |  |  | R-2SE | R+2SE |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Ownership of at least one ITN | 0.610 | 0.024 | 1,491 | 473 | 1.884 | 0.039 | 0.562 | 0.657 |
| Access to an ITN | 0.422 | 0.021 | 7,480 | 2,335 | 1.868 | 0.049 | 0.381 | 0.464 |
| Use of an ITN | 0.383 | 0.022 | 7,480 | 2,335 | 1.867 | 0.057 | 0.339 | 0.427 |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.385 | 0.028 | 1,486 | 441 | 2.190 | 0.072 | 0.330 | 0.441 |
| Literacy | 0.482 | 0.024 | 1,486 | 441 | 1.858 | 0.050 | 0.434 | 0.530 |
| No education | 0.377 | 0.018 | 1,486 | 441 | 1.430 | 0.048 | 0.341 | 0.413 |
| Secondary education or higher | 0.302 | 0.025 | 1,486 | 441 | 2.074 | 0.082 | 0.252 | 0.351 |
| Never married (never in union) | 0.352 | 0.019 | 1,486 | 441 | 1.493 | 0.053 | 0.315 | 0.389 |
| Currently married (in union) | 0.576 | 0.017 | 1,486 | 441 | 1.346 | 0.030 | 0.542 | 0.611 |
| Married before age 18 | 0.322 | 0.018 | 1,133 | 337 | 1.288 | 0.056 | 0.286 | 0.358 |
| Had sexual intercourse before age 18 | 0.827 | 0.018 | 1,133 | 337 | 1.631 | 0.022 | 0.791 | 0.864 |
| Currently pregnant | 0.088 | 0.008 | 1,486 | 441 | 1.110 | 0.093 | 0.072 | 0.105 |
| Know any contraceptive method | 0.997 | 0.002 | 858 | 254 | 1.000 | 0.002 | 0.994 | 1.001 |
| Know a modern method | 0.997 | 0.002 | 858 | 254 | 1.000 | 0.002 | 0.994 | 1.001 |
| Currently using any method | 0.433 | 0.020 | 858 | 254 | 1.181 | 0.046 | 0.393 | 0.473 |
| Currently using a modern method | 0.432 | 0.020 | 858 | 254 | 1.174 | 0.046 | 0.392 | 0.472 |
| Currently using pill | 0.048 | 0.010 | 858 | 254 | 1.326 | 0.201 | 0.029 | 0.068 |
| Currently using male condoms | 0.007 | 0.003 | 858 | 254 | 1.159 | 0.476 | 0.000 | 0.013 |
| Currently using injectables | 0.242 | 0.014 | 858 | 254 | 0.991 | 0.060 | 0.213 | 0.271 |
| Currently using implants | 0.132 | 0.011 | 858 | 254 | 0.951 | 0.083 | 0.110 | 0.154 |
| Currently using female sterilization | 0.002 | 0.002 | 858 | 254 | 0.910 | 0.642 | 0.000 | 0.005 |
| Currently using withdrawal | 0.001 | 0.001 | 858 | 254 | 0.994 | 1.007 | 0.000 | 0.003 |
| Currently using rhythm | 0.000 | 0.000 | 858 | 254 | na | na | 0.000 | 0.000 |
| Using public sector source | 0.837 | 0.026 | 701 | 204 | 1.844 | 0.031 | 0.786 | 0.889 |
| Want no more children | 0.332 | 0.019 | 858 | 254 | 1.179 | 0.057 | 0.294 | 0.370 |
| Want to delay next birth at least 2 years | 0.305 | 0.019 | 858 | 254 | 1.215 | 0.063 | 0.267 | 0.343 |
| Ideal number of children | 4.932 | 0.105 | 1,359 | 409 | 1.546 | 0.021 | 4.723 | 5.142 |
| Mothers protected against tetanus for last birth | 0.839 | 0.024 | 743 | 222 | 1.818 | 0.029 | 0.790 | 0.888 |
| Births with skilled attendant at delivery | 0.812 | 0.034 | 971 | 290 | 2.390 | 0.042 | 0.744 | 0.880 |
| Received 3+ doses of SP/Fansidar | 0.385 | 0.028 | 379 | 112 | 1.127 | 0.073 | 0.329 | 0.442 |
| Treated with ORS | 0.551 | 0.043 | 171 | 49 | 1.108 | 0.078 | 0.465 | 0.637 |
| Sought medical treatment for diarrhea | 0.739 | 0.037 | 171 | 49 | 1.095 | 0.050 | 0.664 | 0.813 |
| Ever had vaccination card | 0.931 | 0.034 | 178 | 50 | 1.741 | 0.036 | 0.863 | 0.999 |
| Received BCG vaccination | 0.898 | 0.039 | 178 | 50 | 1.689 | 0.044 | 0.819 | 0.977 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.712 | 0.054 | 178 | 50 | 1.531 | 0.075 | 0.605 | 0.819 |
| Received birth dose polio 0 vaccination | 0.874 | 0.042 | 178 | 50 | 1.625 | 0.048 | 0.791 | 0.957 |
| Received polio vaccination (3 doses) | 0.620 | 0.058 | 178 | 50 | 1.552 | 0.094 | 0.503 | 0.736 |
| Received pneumococcal vaccination (3 doses) | 0.717 | 0.051 | 178 | 50 | 1.469 | 0.071 | 0.615 | 0.819 |
| Received rotavirus vaccination (2 doses) | 0.836 | 0.043 | 178 | 50 | 1.523 | 0.052 | 0.749 | 0.923 |
| Received measles-containing vaccination 1 | 0.671 | 0.049 | 178 | 50 | 1.350 | 0.073 | 0.573 | 0.769 |
| Received yellow fever vaccination | 0.635 | 0.048 | 178 | 50 | 1.281 | 0.075 | 0.540 | 0.731 |
| Received all basic vaccinations (12-23 months) | 0.471 | 0.055 | 178 | 50 | 1.411 | 0.116 | 0.361 | 0.580 |
| Received all age-appropriate vaccinations (12-23 months) | 0.429 | 0.054 | 178 | 50 | 1.406 | 0.126 | 0.320 | 0.537 |
| Received all age-appropriate vaccinations (24-35 months) | 0.413 | 0.061 | 176 | 53 | 1.637 | 0.148 | 0.291 | 0.536 |
| Height-for-age (-2SD) | 0.340 | 0.022 | 507 | 157 | 0.984 | 0.063 | 0.297 | 0.383 |
| Weight-for-height (-2SD) | 0.047 | 0.009 | 509 | 158 | 0.880 | 0.181 | 0.030 | 0.064 |
| Weight-for-age (-2SD) | 0.122 | 0.014 | 511 | 158 | 0.964 | 0.116 | 0.094 | 0.151 |
| Body mass index (BMI) <18.5 | 0.047 | 0.009 | 678 | 200 | 1.157 | 0.200 | 0.028 | 0.066 |
| Body mass index (BMI) $\geq 25$ | 0.272 | 0.021 | 678 | 200 | 1.213 | 0.076 | 0.230 | 0.313 |
| Prevalence of anemia (children 6-59 months) | 0.765 | 0.023 | 469 | 144 | 1.126 | 0.029 | 0.720 | 0.810 |
| Prevalence of anemia (women 15-49) | 0.487 | 0.027 | 753 | 222 | 1.484 | 0.056 | 0.432 | 0.541 |
| Ever experienced any physical violence since age 15 | 0.588 | 0.018 | 546 | 162 | 0.872 | 0.031 | 0.552 | 0.625 |
| Ever experienced any sexual violence | 0.072 | 0.013 | 546 | 162 | 1.173 | 0.181 | 0.046 | 0.098 |
| Ever experienced any physical/sexual violence by husband/partner | 0.542 | 0.033 | 397 | 106 | 1.306 | 0.060 | 0.477 | 0.607 |
| Ever experienced any emotional/physical/sexual violence by husband/partner | 0.652 | 0.032 | 397 | 106 | 1.327 | 0.049 | 0.588 | 0.715 |
| Experienced any emotional/physical/sexual violence in the last 12 months by husband/partner | 0.504 | 0.030 | 397 | 106 | 1.179 | 0.059 | 0.444 | 0.563 |
| Had 2+ sexual partners in past 12 months | 0.062 | 0.008 | 1,486 | 441 | 1.321 | 0.133 | 0.046 | 0.079 |
| Condom use at last sex | 0.199 | 0.041 | 85 | 27 | 0.944 | 0.207 | 0.117 | 0.281 |
| Abstinence among never-married youth (never had sex) | 0.173 | 0.020 | 439 | 127 | 1.091 | 0.114 | 0.133 | 0.212 |


| Table B.8-Continued |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |

na $=$ Not applicable

|  |  | Standard | Number | $f$ cases | Design | Relative | Confid | limits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Variable | Value (R) | $\begin{aligned} & \text { error } \\ & \text { (SE) } \\ & \hline \end{aligned}$ | Unweighted (N) | Weighted (WN) | $\begin{aligned} & \text { effect } \\ & \text { (DEFT) } \end{aligned}$ | $\begin{gathered} \text { error } \\ (\mathrm{SE} / \mathrm{R}) \end{gathered}$ | R-2SE | R+2SE |
| HOUSEHOLDS AND POPULATION |  |  |  |  |  |  |  |  |
| Ownership of at least one ITN | 0.679 | 0.016 | 2,106 | 2,784 | 1.572 | 0.024 | 0.647 | 0.711 |
| Access to an ITN | 0.495 | 0.018 | 10,054 | 13,620 | 1.906 | 0.037 | 0.458 | 0.531 |
| Use of an ITN | 0.501 | 0.017 | 10,054 | 13,620 | 1.649 | 0.034 | 0.467 | 0.534 |
| WOMEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.505 | 0.035 | 1,925 | 2,439 | 3.045 | 0.069 | 0.435 | 0.574 |
| Literacy | 0.400 | 0.034 | 1,925 | 2,439 | 3.012 | 0.084 | 0.333 | 0.468 |
| No education | 0.379 | 0.029 | 1,925 | 2,439 | 2.647 | 0.077 | 0.320 | 0.437 |
| Secondary education or higher | 0.322 | 0.032 | 1,925 | 2,439 | 3.043 | 0.101 | 0.257 | 0.387 |
| Never married (never in union) | 0.310 | 0.021 | 1,925 | 2,439 | 2.006 | 0.068 | 0.267 | 0.352 |
| Currently married (in union) | 0.600 | 0.024 | 1,925 | 2,439 | 2.140 | 0.040 | 0.553 | 0.648 |
| Married before age 18 | 0.356 | 0.019 | 1,549 | 1,968 | 1.527 | 0.052 | 0.318 | 0.393 |
| Had sexual intercourse before age 18 | 0.832 | 0.015 | 1,549 | 1,968 | 1.576 | 0.018 | 0.802 | 0.862 |
| Currently pregnant | 0.079 | 0.012 | 1,925 | 2,439 | 1.942 | 0.151 | 0.055 | 0.103 |
| Know any contraceptive method | 0.986 | 0.005 | 1,162 | 1,464 | 1.321 | 0.005 | 0.976 | 0.995 |
| Know a modern method | 0.986 | 0.005 | 1,162 | 1,464 | 1.321 | 0.005 | 0.976 | 0.995 |
| Currently using any method | 0.221 | 0.019 | 1,162 | 1,464 | 1.542 | 0.085 | 0.183 | 0.258 |
| Currently using a modern method | 0.212 | 0.019 | 1,162 | 1,464 | 1.598 | 0.091 | 0.173 | 0.250 |
| Currently using pill | 0.046 | 0.008 | 1,162 | 1,464 | 1.233 | 0.165 | 0.031 | 0.061 |
| Currently using male condoms | 0.006 | 0.003 | 1,162 | 1,464 | 1.394 | 0.542 | 0.000 | 0.012 |
| Currently using injectables | 0.119 | 0.012 | 1,162 | 1,464 | 1.237 | 0.099 | 0.096 | 0.143 |
| Currently using implants | 0.032 | 0.006 | 1,162 | 1,464 | 1.225 | 0.197 | 0.020 | 0.045 |
| Currently using female sterilization | 0.005 | 0.002 | 1,162 | 1,464 | 0.963 | 0.387 | 0.001 | 0.009 |
| Currently using withdrawal | 0.006 | 0.004 | 1,162 | 1,464 | 1.662 | 0.609 | 0.000 | 0.014 |
| Currently using rhythm | 0.003 | 0.002 | 1,162 | 1,464 | 1.226 | 0.713 | 0.000 | 0.006 |
| Using public sector source | 0.640 | 0.049 | 400 | 515 | 2.045 | 0.077 | 0.541 | 0.739 |
| Want no more children | 0.338 | 0.017 | 1,162 | 1,464 | 1.220 | 0.050 | 0.304 | 0.372 |
| Want to delay next birth at least 2 years | 0.224 | 0.019 | 1,162 | 1,464 | 1.523 | 0.083 | 0.187 | 0.261 |
| Ideal number of children | 5.066 | 0.101 | 1,786 | 2,290 | 2.081 | 0.020 | 4.864 | 5.269 |
| Mothers protected against tetanus for last birth | 0.842 | 0.012 | 1,114 | 1,400 | 1.140 | 0.015 | 0.817 | 0.867 |
| Births with skilled attendant at delivery | 0.917 | 0.012 | 1,512 | 1,880 | 1.498 | 0.013 | 0.892 | 0.941 |
| Received 3+ doses of SP/Fansidar | 0.468 | 0.027 | 614 | 733 | 1.310 | 0.058 | 0.413 | 0.522 |
| Treated with ORS | 0.461 | 0.052 | 196 | 220 | 1.336 | 0.112 | 0.358 | 0.565 |
| Sought medical treatment for diarrhea | 0.623 | 0.051 | 196 | 220 | 1.416 | 0.082 | 0.521 | 0.726 |
| Ever had vaccination card | 0.936 | 0.015 | 288 | 343 | 1.010 | 0.016 | 0.905 | 0.966 |
| Received BCG vaccination | 0.924 | 0.016 | 288 | 343 | 1.011 | 0.018 | 0.892 | 0.957 |
| Received DPT-HepB-Hib vaccination (3 doses) | 0.726 | 0.035 | 288 | 343 | 1.277 | 0.048 | 0.657 | 0.796 |
| Received birth dose polio 0 vaccination | 0.874 | 0.020 | 288 | 343 | 1.014 | 0.023 | 0.834 | 0.915 |
| Received polio vaccination (3 doses) | 0.658 | 0.033 | 288 | 343 | 1.147 | 0.051 | 0.592 | 0.725 |
| Received pneumococcal vaccination (3 doses) | 0.698 | 0.037 | 288 | 343 | 1.312 | 0.053 | 0.624 | 0.772 |
| Received rotavirus vaccination (2 doses) | 0.787 | 0.027 | 288 | 343 | 1.069 | 0.034 | 0.733 | 0.840 |
| Received measles-containing vaccination 1 | 0.744 | 0.034 | 288 | 343 | 1.280 | 0.046 | 0.676 | 0.812 |
| Received yellow fever vaccination | 0.713 | 0.036 | 288 | 343 | 1.303 | 0.050 | 0.641 | 0.785 |
| Received all basic vaccinations (12-23 months) | 0.546 | 0.038 | 288 | 343 | 1.261 | 0.070 | 0.469 | 0.622 |
| Received all age-appropriate vaccinations (12-23 months) | 0.397 | 0.038 | 288 | 343 | 1.275 | 0.096 | 0.320 | 0.473 |
| Received all age-appropriate vaccinations (24-35 months) | 0.346 | 0.026 | 262 | 325 | 0.859 | 0.076 | 0.293 | 0.399 |
| Height-for-age (-2SD) | 0.337 | 0.020 | 802 | 1,037 | 1.167 | 0.060 | 0.296 | 0.377 |
| Weight-for-height (-2SD) | 0.022 | 0.005 | 807 | 1,041 | 1.010 | 0.235 | 0.012 | 0.033 |
| Weight-for-age (-2SD) | 0.093 | 0.013 | 810 | 1,045 | 1.155 | 0.135 | 0.068 | 0.119 |
| Body mass index (BMI) <18.5 | 0.041 | 0.007 | 901 | 1,131 | 1.098 | 0.177 | 0.027 | 0.056 |
| Body mass index (BMI) $\geq 25$ | 0.264 | 0.022 | 901 | 1,131 | 1.478 | 0.083 | 0.220 | 0.308 |
| Prevalence of anemia (children 6-59 months) | 0.688 | 0.024 | 718 | 926 | 1.327 | 0.035 | 0.640 | 0.737 |
| Prevalence of anemia (women 15-49) | 0.373 | 0.018 | 990 | 1,231 | 1.185 | 0.049 | 0.336 | 0.409 |
| Ever experienced any physical violence since age 15 | 0.524 | 0.024 | 746 | 920 | 1.318 | 0.046 | 0.476 | 0.572 |
| Ever experienced any sexual violence | 0.121 | 0.020 | 746 | 920 | 1.662 | 0.164 | 0.081 | 0.161 |
| Ever experienced any physical/sexual violence by husband/partner | 0.433 | 0.025 | 567 | 669 | 1.194 | 0.057 | 0.383 | 0.483 |
| Ever experienced any emotional/physical/sexual violence by husband/partner | 0.564 | 0.025 | 567 | 669 | 1.179 | 0.044 | 0.515 | 0.613 |
| Experienced any emotional/physical/sexual violence in the last 12 months by husband/partner | 0.442 | 0.023 | 567 | 669 | 1.103 | 0.052 | 0.396 | 0.488 |
| Had 2+ sexual partners in past 12 months | 0.040 | 0.007 | 1,925 | 2,439 | 1.640 | 0.184 | 0.025 | 0.054 |
| Condom use at last sex | 0.148 | 0.037 | 73 | 97 | 0.876 | 0.247 | 0.075 | 0.221 |
| Abstinence among never-married youth (never had sex) | 0.239 | 0.033 | 442 | 581 | 1.602 | 0.136 | 0.174 | 0.304 |


| Table B.9-Continued |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Standard error (SE) | Number of cases |  | Design effect (DEFT) | Relative error (SE/R) | Confidence limits |  |
| Variable | Value <br> (R) |  | Unweighted <br> (N) | Weighted (WN) |  |  | R-2SE | R+2SE |
| Had an HIV test and received results in past 12 months | 0.233 | 0.016 | 1,925 | 2,439 | 1.640 | 0.068 | 0.201 | 0.264 |
| Discriminatory attitudes towards people living with HIV | 0.751 | 0.017 | 1,789 | 2,266 | 1.626 | 0.022 | 0.718 | 0.784 |
| Prevalence of female circumcision | 0.542 | 0.026 | 1,582 | 2,005 | 2.041 | 0.047 | 0.491 | 0.594 |
| Total fertility rate (last 3 years) | 4.971 | 0.244 | 5,398 | 6,832 | 1.532 | 0.049 | 4.484 | 5.458 |
| Neonatal mortality (last 0-9 years) | 30.094 | 4.503 | 2,953 | 3,711 | 1.337 | 0.150 | 21.087 | 39.100 |
| Postneonatal mortality (last 0-9 years) | 26.235 | 2.935 | 2,949 | 3,706 | 0.912 | 0.112 | 20.365 | 32.104 |
| Infant mortality (last 0-9 years) | 56.328 | 5.653 | 2,956 | 3,714 | 1.232 | 0.100 | 45.023 | 67.634 |
| Child mortality (last 0-9 years) | 28.536 | 4.184 | 2,938 | 3,702 | 1.242 | 0.147 | 20.168 | 36.904 |
| Under-5 mortality (last 0-9 years) | 83.257 | 6.980 | 2,973 | 3,732 | 1.254 | 0.084 | 69.296 | 97.218 |
| MEN |  |  |  |  |  |  |  |  |
| Urban residence | 0.459 | 0.045 | 830 | 1,107 | 2.605 | 0.098 | 0.369 | 0.550 |
| Literacy | 0.668 | 0.036 | 830 | 1,107 | 2.178 | 0.053 | 0.597 | 0.739 |
| No education | 0.179 | 0.019 | 830 | 1,107 | 1.422 | 0.106 | 0.141 | 0.217 |
| Secondary education or higher | 0.528 | 0.036 | 830 | 1,107 | 2.080 | 0.068 | 0.455 | 0.600 |
| Never married (in union) | 0.434 | 0.047 | 830 | 1,107 | 2.736 | 0.109 | 0.340 | 0.529 |
| Currently married (in union) | 0.538 | 0.045 | 830 | 1,107 | 2.613 | 0.084 | 0.448 | 0.629 |
| Had first sexual intercourse before age 18 | 0.481 | 0.030 | 648 | 868 | 1.511 | 0.062 | 0.422 | 0.541 |
| Knows any contraceptive method | 0.999 | 0.001 | 481 | 596 | 0.735 | 0.001 | 0.997 | 1.001 |
| Knows any modern contraceptive method | 0.999 | 0.001 | 481 | 596 | 0.735 | 0.001 | 0.997 | 1.001 |
| Want no more children | 0.276 | 0.028 | 481 | 596 | 1.369 | 0.101 | 0.220 | 0.332 |
| Want to delay birth at least 2 years | 0.348 | 0.035 | 481 | 596 | 1.591 | 0.099 | 0.279 | 0.418 |
| Ideal number of children | 5.614 | 0.227 | 756 | 997 | 1.842 | 0.041 | 5.160 | 6.069 |
| Had 2+ sexual partners in past 12 months | 0.258 | 0.027 | 830 | 1,107 | 1.743 | 0.103 | 0.205 | 0.311 |
| Condom use at last sex | 0.206 | 0.046 | 215 | 286 | 1.640 | 0.221 | 0.115 | 0.297 |
| Abstinence among never-married youth (never had sex) | 0.352 | 0.060 | 266 | 383 | 2.019 | 0.169 | 0.233 | 0.471 |
| Paid for sexual intercourse in past 12 months | 0.034 | 0.007 | 830 | 1,107 | 1.095 | 0.203 | 0.020 | 0.048 |
| Had HIV test and received results in past 12 months | 0.227 | 0.032 | 830 | 1,107 | 2.173 | 0.140 | 0.163 | 0.290 |
| Discriminatory attitudes towards people living with HIV | 0.759 | 0.021 | 779 | 1,048 | 1.382 | 0.028 | 0.717 | 0.802 |


|  |  | Standard | Numbe | cases | Design | Relative | Confi | ce limits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Variable | Value <br> (R) | $\begin{aligned} & \text { error } \\ & \text { (SE) } \\ & \hline \end{aligned}$ | Unweighted (N) | Weighted (NW) | $\begin{aligned} & \text { effect } \\ & \text { (DEFT) } \end{aligned}$ | $\begin{gathered} \text { error } \\ \text { (SE/R) } \end{gathered}$ | $\begin{gathered} \text { Lower } \\ \text { (R-2SE) } \end{gathered}$ | $\begin{gathered} \hline \text { Upper } \\ (\mathrm{R}+2 \mathrm{SE}) \\ \hline \end{gathered}$ |
| WOMEN |  |  |  |  |  |  |  |  |
| Adult mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 2.530 | 0.553 | 15,233 | 15,104 | 1.323 | 0.219 | 1.424 | 3.636 |
| 20-24 | 3.357 | 0.586 | 16,481 | 16,195 | 1.244 | 0.174 | 2.186 | 4.528 |
| 25-29 | 4.252 | 0.726 | 16,319 | 15,581 | 1.381 | 0.171 | 2.800 | 5.704 |
| 30-34 | 5.014 | 0.732 | 15,480 | 14,352 | 1.209 | 0.146 | 3.550 | 6.478 |
| 35-39 | 5.997 | 1.104 | 12,500 | 11,315 | 1.491 | 0.184 | 3.789 | 8.206 |
| 40-44 | 7.440 | 1.229 | 8,503 | 7,365 | 1.172 | 0.165 | 4.982 | 9.897 |
| 45-49 | 9.396 | 1.814 | 5,355 | 4,382 | 1.203 | 0.193 | 5.769 | 13.023 |
| 15-49 (age-adjusted) | 4.760 | 0.295 | 89,871 | 84,294 | 1.286 | 0.062 | 4.171 | 5.349 |
| Adult mortality probabilities |  |  |  |  |  |  |  |  |
| 35q15 2019-20 LDHS | 173.097 | 10.745 | 89,871 | 84,294 | 1.650 | 0.062 | 151.607 | 194.586 |
| $35 q_{15} 2013$ LDHS | 175.832 | 14.755 | 107,173 | 105,273 | 1.855 | 0.084 | 146.323 | 205.341 |
| 35 q15 $^{2007}$ LDHS | 163.812 | 12.833 | 73,432 | 74,086 | 1.615 | 0.078 | 138.146 | 189.477 |
| Maternal mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 0.508 | 0.336 | 15,233 | 15,104 | 1.830 | 0.661 | 0.000 | 1.179 |
| 20-24 | 1.634 | 0.471 | 16,481 | 16,195 | 1.486 | 0.288 | 0.693 | 2.576 |
| 25-29 | 0.782 | 0.292 | 16,319 | 15,581 | 1.303 | 0.374 | 0.198 | 1.365 |
| 30-34 | 1.091 | 0.323 | 15,480 | 14,352 | 1.171 | 0.296 | 0.444 | 1.737 |
| 35-39 | 1.398 | 0.698 | 12,500 | 11,315 | 1.982 | 0.499 | 0.002 | 2.794 |
| 40-44 | 1.471 | 0.481 | 8,503 | 7,365 | 1.079 | 0.327 | 0.508 | 2.434 |
| 45-49 | 0.737 | 0.348 | 5,355 | 4,382 | 0.772 | 0.472 | 0.042 | 1.432 |
| 15-49 (age-adjusted) | 1.068 | 0.177 | 89,871 | 84,294 | 1.465 | 0.166 | 0.714 | 1.421 |
| Maternal mortality ratio (MMR) 2019-20 | 742.434 | 128.857 | 89,871 | 84,294 | 1.465 | 0.174 | 484.720 | 1,000.148 |
| Pregnancy-related mortality ratio (PRMR) 2019-20 LDHS | 913.497 | 137.722 | 89,871 | 84,294 | 1.436 | 0.151 | 638.054 | 1,188.941 |
| Pregnancy-related mortality ratio (PRMR) 2013 LDHS | 1,072.150 | 147.836 | 107,173 | 105,273 | 1.396 | 0.138 | 776.478 | 1,367.823 |
| Pregnancy-related mortality ratio (PRMR) 2007 LDHS | 993.864 | 158.061 | 73,432 | 74,086 | 1.379 | 0.159 | 677.742 | 1,309.985 |
| MEN |  |  |  |  |  |  |  |  |
| Adult mortality rates |  |  |  |  |  |  |  |  |
| 15-19 | 3.634 | 0.808 | 14,480 | 14,253 | 1.597 | 0.222 | 2.018 | 5.249 |
| 20-24 | 3.635 | 0.884 | 15,973 | 15,457 | 1.804 | 0.243 | 1.868 | 5.403 |
| 25-29 | 4.991 | 0.874 | 16,296 | 15,352 | 1.515 | 0.175 | 3.242 | 6.739 |
| 30-34 | 5.322 | 0.861 | 14,850 | 13,707 | 1.369 | 0.162 | 3.600 | 7.044 |
| 35-39 | 5.616 | 0.920 | 12,298 | 11,061 | 1.251 | 0.164 | 3.776 | 7.457 |
| 40-44 | 8.293 | 1.695 | 8,465 | 7,448 | 1.561 | 0.204 | 4.902 | 11.683 |
| 45-49 | 10.488 | 2.129 | 5,319 | 4,707 | 1.392 | 0.203 | 6.230 | 14.745 |
| 15-49 (age-adjusted) | 5.325 | 0.406 | 87,681 | 81,985 | 1.505 | 0.076 | 4.514 | 6.136 |
| Adult mortality probabilities |  |  |  |  |  |  |  |  |
| $35 q_{15}$ 2019-20 LDHS | 189.465 | 14.574 | 87,681 | 81,985 | 2.218 | 0.077 | 160.317 | 218.612 |
| ${ }_{35} q_{15} 2013$ LDHS | 150.802 | 11.145 | 99,793 | 98,447 | 1.720 | 0.074 | 128.511 | 173.093 |
| ${ }_{35} q_{15} 2007$ LDHS | 185.835 | 16.262 | 69,702 | 70,793 | 1.741 | 0.088 | 153.311 | 218.358 |

Table C. 1 Household age distribution
Single-year age distribution of the de facto household population by sex (weighted), Liberia DHS 2019-20

| Age | Female |  | Male |  | Age | Female |  | Male |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent |  | Number | Percent | Number | Percent |
| 0 | 602 | 2.9 | 593 | 3.0 | 37 | 222 | 1.1 | 208 | 1.1 |
| 1 | 544 | 2.6 | 522 | 2.7 | 38 | 230 | 1.1 | 208 | 1.1 |
| 2 | 550 | 2.7 | 524 | 2.7 | 39 | 198 | 1.0 | 237 | 1.2 |
| 3 | 621 | 3.0 | 689 | 3.5 | 40 | 284 | 1.4 | 264 | 1.3 |
| 4 | 641 | 3.1 | 609 | 3.1 | 41 | 97 | 0.5 | 138 | 0.7 |
| 5 | 560 | 2.7 | 652 | 3.3 | 42 | 201 | 1.0 | 191 | 1.0 |
| 6 | 613 | 3.0 | 665 | 3.4 | 43 | 126 | 0.6 | 170 | 0.9 |
| 7 | 645 | 3.1 | 667 | 3.4 | 44 | 123 | 0.6 | 140 | 0.7 |
| 8 | 622 | 3.0 | 564 | 2.9 | 45 | 166 | 0.8 | 218 | 1.1 |
| 9 | 531 | 2.6 | 553 | 2.8 | 46 | 112 | 0.5 | 107 | 0.5 |
| 10 | 723 | 3.5 | 642 | 3.3 | 47 | 116 | 0.6 | 133 | 0.7 |
| 11 | 530 | 2.6 | 553 | 2.8 | 48 | 151 | 0.7 | 164 | 0.8 |
| 12 | 655 | 3.2 | 619 | 3.2 | 49 | 82 | 0.4 | 101 | 0.5 |
| 13 | 639 | 3.1 | 554 | 2.8 | 50 | 204 | 1.0 | 129 | 0.7 |
| 14 | 562 | 2.7 | 549 | 2.8 | 51 | 186 | 0.9 | 126 | 0.6 |
| 15 | 338 | 1.6 | 487 | 2.5 | 52 | 197 | 1.0 | 133 | 0.7 |
| 16 | 409 | 2.0 | 466 | 2.4 | 53 | 120 | 0.6 | 95 | 0.5 |
| 17 | 310 | 1.5 | 341 | 1.7 | 54 | 125 | 0.6 | 81 | 0.4 |
| 18 | 354 | 1.7 | 349 | 1.8 | 55 | 127 | 0.6 | 95 | 0.5 |
| 19 | 419 | 2.0 | 365 | 1.9 | 56 | 107 | 0.5 | 84 | 0.4 |
| 20 | 381 | 1.9 | 356 | 1.8 | 57 | 93 | 0.5 | 92 | 0.5 |
| 21 | 378 | 1.8 | 292 | 1.5 | 58 | 78 | 0.4 | 52 | 0.3 |
| 22 | 331 | 1.6 | 267 | 1.4 | 59 | 84 | 0.4 | 50 | 0.3 |
| 23 | 336 | 1.6 | 273 | 1.4 | 60 | 201 | 1.0 | 136 | 0.7 |
| 24 | 262 | 1.3 | 236 | 1.2 | 61 | 51 | 0.2 | 87 | 0.4 |
| 25 | 344 | 1.7 | 285 | 1.5 | 62 | 76 | 0.4 | 99 | 0.5 |
| 26 | 279 | 1.4 | 225 | 1.1 | 63 | 51 | 0.2 | 62 | 0.3 |
| 27 | 312 | 1.5 | 290 | 1.5 | 64 | 42 | 0.2 | 56 | 0.3 |
| 28 | 291 | 1.4 | 201 | 1.0 | 65 | 124 | 0.6 | 104 | 0.5 |
| 29 | 317 | 1.5 | 265 | 1.4 | 66 | 24 | 0.1 | 35 | 0.2 |
| 30 | 314 | 1.5 | 275 | 1.4 | 67 | 47 | 0.2 | 47 | 0.2 |
| 31 | 212 | 1.0 | 176 | 0.9 | 68 | 47 | 0.2 | 40 | 0.2 |
| 32 | 270 | 1.3 | 203 | 1.0 | 69 | 18 | 0.1 | 54 | 0.3 |
| 33 | 241 | 1.2 | 215 | 1.1 | 70+ | 594 | 2.9 | 426 | 2.2 |
| 34 | 224 | 1.1 | 220 | 1.1 |  |  |  |  |  |
| 35 | 288 | 1.4 | 305 | 1.6 | Total | 20,584 | 100.0 | 19,618 | 100.0 |
| 36 | 231 | 1.1 | 208 | 1.1 |  |  |  |  |  |

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 percen distribution of interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by 5 -year age groups, Liberia DHS 2019-20

|  | Household <br> population of <br> women age <br> Age group |  |  | Interviewed women age 15-49 |  | Percentage of <br>  <br> eligible women <br> interviewed |
| :--- | :---: | ---: | :---: | :---: | :---: | :---: |
| $10-54$ | Number | Percentage | na |  |  |  |
| $15-14$ | 3,108 | na | na | na |  |  |
| $20-24$ | 1,830 | 1,653 | 20.5 | 90.3 |  |  |
| $25-29$ | 1,689 | 1,525 | 18.9 | 90.3 |  |  |
| $30-34$ | 1,543 | 1,391 | 17.2 | 90.2 |  |  |
| $35-39$ | 1,260 | 1,134 | 14.1 | 90.0 |  |  |
| $40-44$ | 1,169 | 1,059 | 13.1 | 90.6 |  |  |
| $45-49$ | 831 | 743 | 9.2 | 89.4 |  |  |
| $50-54$ | 629 | 560 | 6.9 | 89.1 |  |  |
| $15-49$ | 833 | na | na | na |  |  |
|  | 8,951 | 8,065 | 100.0 | 90.1 |  |  |

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, Liberia DHS 2019-20

|  | Household <br> population of <br> men age <br> $10-64$ | Interviewed men age 15-59 |  |  |  | Percentage of <br> Age group <br> ligible men <br> interviewed |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $10-14$ | 1,578 | Number | Percentage | na |  |  |
| $15-19$ | 977 | 922 | na | na |  |  |
| $20-24$ | 675 | 626 | 21.7 | 94.4 |  |  |
| $25-29$ | 598 | 536 | 14.7 | 92.7 |  |  |
| $30-34$ | 540 | 502 | 12.6 | 89.6 |  |  |
| $35-39$ | 561 | 497 | 11.8 | 93.0 |  |  |
| $40-44$ | 444 | 414 | 11.7 | 88.6 |  |  |
| $45-49$ | 382 | 337 | 9.8 | 93.3 |  |  |
| $50-54$ | 278 | 258 | 7.9 | 88.2 |  |  |
| $55-59$ | 173 | 155 | 6.1 | 92.8 |  |  |
| $60-64$ | 246 | na | 3.6 | 89.8 |  |  |
| $15-59$ | 4,630 | 4,249 | 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. 3 Completeness of reporting
Percentage of observations missing information for selected demographic and health questions (weighted), Liberia DHS 2019-20

| Subject | Percentage with information missing | Number of cases |
| :---: | :---: | :---: |
| Day only (births in the 15 years preceding the survey) | 0.50 | 14,873 |
| Month only (births in the 15 years preceding the survey) | 0.34 | 14,873 |
| Month and year (births in the 15 years preceding the survey) | 0.05 | 14,873 |
| Age at death (deceased children born in the 15 years preceding the survey) | 0.00 | 1,475 |
| Age/date at first union ${ }^{1}$ (ever-married women age 15-49) | 0.00 | 4,936 |
| Age/date at first union (ever-married men age 15-59) | 0.00 | 2,548 |
| Respondent's education (all women age 15-49) | 0.00 | 8,065 |
| Respondent's education (all men age 15-59) | 0.00 | 4,249 |
| Diarrhea in last 2 weeks (living children age 0 59 months) | 3.51 | 4,866 |
| Height (living children age 0-59 months from the Biomarker Questionnaire) | 7.38 | 3,062 |
| Weight (living children age 0-59 months from the Biomarker Questionnaire) | 7.35 | 3,062 |
| Height or weight (living children age 0-59 months from the Biomarker Questionnaire) | 7.38 | 3,062 |
| Height (women age 15-49 from the Biomarker Questionnaire) | 8.53 | 4,787 |
| Weight (women age 15-49 from the Biomarker Questionnaire) | 8.50 | 4,787 |
| Height or weight (women age 15-49 from the Biomarker Questionnaire) | 8.53 | 4,787 |
| Anemia (living children age 6-59 months from the Biomarker Questionnaire) | 9.03 | 2,775 |
| Anemia (all women from the Biomarker Questionnaire) | 9.87 | 4,787 |

## Table C. 4 Births by calendar years

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by calendar year, according to living, dead, and total children (weighted), Liberia DHS 2019-20

| Calendar year | Number of births |  |  | Percentage with year and month of birth given |  |  | Sex ratio at birth ${ }^{1}$ |  |  | Calendar year ratio ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Living | Dead | Total | Living | Dead | Total | Living | Dead | Total | Living | Dead | Total |
| 2019 | 991 | 51 | 1,042 | 100.0 | 100.0 | 100.0 | 102.8 | 153.5 | 104.9 | na | na | na |
| 2018 | 971 | 62 | 1,034 | 100.0 | 98.2 | 99.9 | 93.6 | 88.4 | 93.3 | na | na | na |
| 2017 | 865 | 98 | 963 | 100.0 | 100.0 | 100.0 | 93.9 | 121.0 | 96.3 | 89.0 | 132.7 | 92.1 |
| 2016 | 972 | 85 | 1,057 | 100.0 | 100.0 | 100.0 | 103.1 | 118.6 | 104.2 | 106.0 | 86.2 | 104.1 |
| 2015 | 969 | 100 | 1,069 | 99.9 | 100.0 | 99.9 | 101.8 | 117.9 | 103.2 | 100.9 | 111.0 | 101.7 |
| 2014 | 950 | 94 | 1,044 | 100.0 | 100.0 | 100.0 | 121.2 | 104.3 | 119.5 | 98.1 | 83.5 | 96.6 |
| 2013 | 968 | 126 | 1,094 | 99.8 | 98.0 | 99.6 | 99.7 | 116.4 | 101.5 | 100.5 | 125.9 | 102.9 |
| 2012 | 976 | 106 | 1,082 | 99.8 | 95.6 | 99.4 | 107.9 | 97.3 | 106.8 | 105.4 | 96.5 | 104.4 |
| 2011 | 885 | 94 | 979 | 99.8 | 99.1 | 99.8 | 91.8 | 194.3 | 98.4 | 99.5 | 80.0 | 97.2 |
| 2010 | 802 | 129 | 931 | 99.7 | 97.9 | 99.5 | 115.5 | 106.1 | 114.2 | 88.6 | 139.8 | 93.3 |
| 2015-2019 | 4,768 | 397 | 5,165 | 100.0 | 99.7 | 100.0 | 99.1 | 117.4 | 100.4 | na | na | na |
| 2010-2014 | 4,580 | 550 | 5,130 | 99.8 | 98.0 | 99.6 | 106.6 | 117.4 | 107.7 | na | na | na |
| 2005-2009 | 4,006 | 527 | 4,533 | 99.5 | 96.8 | 99.2 | 97.2 | 130.6 | 100.6 | na | na | na |
| 2000-2004 | 2,614 | 557 | 3,171 | 99.3 | 95.3 | 98.6 | 99.3 | 109.7 | 101.1 | na | na | na |
| <2000 | 2,376 | 925 | 3,300 | 98.6 | 97.1 | 98.2 | 93.2 | 143.5 | 105.1 | na | na | na |
| All | 18,344 | 2,956 | 21,300 | 99.6 | 97.2 | 99.2 | 99.7 | 125.7 | 103.0 | na | na | na |

[^33]Table C. 5 Reporting of age at death in days
Distribution of reported deaths under age 1 month by age at death in days and percentage of neonatal deaths reported to occur at age 0-6 days, for 5 -year periods preceding the survey (weighted), Liberia DHS 2019-20

|  | Number of years preceding the survey |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Age at death (days) | $0-4$ | $5-9$ | $10-14$ | $15-19$ | Total 0-19 |
| $<1$ | 104 | 98 | 75 | 86 | 363 |
| 1 | 25 | 29 | 32 | 23 | 109 |
| 2 | 19 | 11 | 4 | 14 | 49 |
| 3 | 7 | 6 | 8 | 9 | 30 |
| 4 | 4 | 6 | 5 | 2 | 17 |
| 5 | 4 | 4 | 4 | 1 | 12 |
| 6 | 1 | 4 | 0 | 1 | 6 |
| 7 | 10 | 17 | 10 | 6 | 44 |
| 8 | 2 | 0 | 1 | 1 | 4 |
| 9 | 1 | 0 | 5 | 0 | 6 |
| 10 | 2 | 0 | 0 | 0 | 3 |
| 11 | 0 | 0 | 0 | 0 | 0 |
| 12 | 3 | 0 | 0 | 0 | 3 |
| 13 | 0 | 0 | 0 | 0 | 1 |
| 14 | 5 | 3 | 2 | 10 | 20 |
| 15 | 1 | 1 | 3 | 1 | 6 |
| 16 | 0 | 2 | 0 | 13 | 15 |
| 17 | 0 | 3 | 0 | 0 | 3 |
| 20 | 0 | 0 | 0 | 1 | 1 |
| 21 | 4 | 3 | 4 | 4 | 15 |
| 23 | 2 | 0 | 0 | 2 | 4 |
| 24 | 1 | 0 | 0 | 0 | 1 |
| 25 | 0 | 0 | 0 | 1 | 1 |
| 28 | 0 | 0 | 4 | 0 | 4 |
| 30 | 0 | 1 | 2 | 0 | 2 |
| Total 0-30 | 194 | 189 | 160 | 175 | 719 |
| Percentage early | 84 | 84 | 81 | 77 | 81 |
| neonatal ${ }^{1}$ |  |  |  |  |  |
| 1 $0-6$ days / 0-30 days |  |  |  |  |  |

## Table C. 6 Reporting of age at death in months

Distribution of reported deaths under age 2 by age at death in months and percentage of infant deaths reported to occur under age 1 month, for 5 -year periods preceding the survey (weighted), Liberia DHS 2019-20

| Age at death <br> (months) | Number of years preceding the survey |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | $0-4$ | $5-9$ | $10-14$ | $15-19$ | Total 0-19 |
| $<1^{\text {a }}$ | 194 | 189 | 160 | 175 | 719 |
| 1 | 11 | 34 | 24 | 10 | 80 |
| 2 | 6 | 17 | 31 | 16 | 70 |
| 3 | 13 | 23 | 23 | 25 | 84 |
| 4 | 8 | 9 | 17 | 20 | 55 |
| 5 | 18 | 14 | 13 | 10 | 55 |
| 6 | 14 | 14 | 24 | 22 | 75 |
| 7 | 14 | 13 | 11 | 24 | 62 |
| 8 | 10 | 7 | 10 | 14 | 41 |
| 9 | 12 | 19 | 13 | 23 | 67 |
| 10 | 7 | 8 | 2 | 4 | 21 |
| 11 | 5 | 14 | 3 | 7 | 29 |
| 12 | 11 | 21 | 20 | 22 | 73 |
| 13 | 3 | 9 | 3 | 2 | 17 |
| 14 | 8 | 7 | 6 | 7 | 33 |
| 15 | 1 | 5 | 7 | 13 | 33 |
| 16 | 0 | 4 | 9 | 3 | 17 |
| 17 | 4 | 4 | 2 | 2 | 8 |
| 18 | 2 | 14 | 6 | 23 | 47 |
| 19 | 1 | 3 | 5 | 2 | 12 |
| 20 | 7 | 1 | 2 | 2 | 7 |
| 21 | 4 | 7 | 1 | 0 | 15 |
| 22 | 1 | 4 | 0 | 4 | 8 |
| 23 | 313 | 360 | 332 | 352 | 1,356 |
| Total 0-11 |  |  |  |  |  |
| Percentage | 62.1 | 52.5 | 48.3 | 49.8 | 53.0 |
| neonatal ${ }^{1}$ |  |  |  |  |  |

${ }^{\text {a }}$ Includes deaths under 1 month reported in days
${ }^{1}$ Under 1 month/under 1 year

Table C. 7 Standardization exercise results from anthropometry training
Trainees' precision and accuracy for height measurements taken during the standardization exercise for anthropometry, Liberia DHS 2019-20

| Measurer | Standardization exercise ${ }^{1}$ |  | Re-standardization exercise ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Trainees' precision ${ }^{2}$ | Trainees' accuracy ${ }^{2}$ | Trainees' precision ${ }^{2}$ | Trainees' accuracy ${ }^{2}$ |
| Trainee 1 | 0.32 | 0.70 | na | na |
| Trainee 2 | 0.43 | 0.37 | na | na |
| Trainee 3 | 0.80 | 0.93 | 0.32 | 0.67 |
| Trainee 4 | 0.67 | 0.33 | na | na |
| Trainee 5 | 0.20 | 0.50 | na | na |
| Trainee 6 | 0.44 | 0.92 | 2.44 | 1.55 |
| Trainee 7 | 0.47 | 0.70 | na | na |
| Trainee 8 | 0.38 | 0.63 | na | na |
| Trainee 9 | 0.41 | 0.57 | na | na |
| Trainee 10 | 0.49 | 0.75 | na | na |
| Trainee 11 | 0.79 | 0.59 | 0.62 | 0.52 |
| Trainee 12 | 0.54 | 0.64 | na | na |
| Trainee 13 | 0.64 | 0.61 | 0.58 | 0.56 |
| Trainee 14 | 0.29 | 0.88 | 0.34 | 0.77 |
| Trainee 15 | 0.02 | 0.97 | 0.35 | 0.87 |
| Trainee 16 | 0.30 | 0.69 | na | na |
| Trainee 17 | 0.38 | 0.91 | 0.55 | 0.88 |
| Trainee 18 | 0.49 | 1.01 | na | na |
| Trainee 19 | 0.43 | 0.60 | na | na |
| Trainee 20 | 0.55 | 0.49 | na | na |
| Trainee 21 | 0.15 | 0.61 | na | na |
| Trainee 22 | 0.42 | 0.36 | na | na |
| Trainee 23 | 0.50 | 0.59 | na | na |
| Trainee 24 | 0.48 | 0.79 | na | na |
| Trainee 25 | 0.25 | 0.48 | na | na |
| Trainee 26 | 0.24 | 0.36 | na | na |
| Average | 0.43 | 0.65 | 0.74 | 0.83 |

na $=$ Not applicable
${ }^{1}$ Nine children were measured in the first standardization group, while 10 children were measured in the second standardization group and restandardization. In all standardization exercises, the participating children were measured twice.
${ }^{2}$ Trainees' precision and accuracy are defined in terms of a technical error of measurement (TEM), which is calculated as $\sqrt{ } \sum\left(D^{2}\right) /(2 N)$, where $D$ is the difference in height and N is the number of repeat measurements. An acceptable TEM according to WHO-UNICEF is a TEM of $<0.6 \mathrm{~cm}$ for precision and $<0.8 \mathrm{~cm}$ for accuracy.
Table C. 8 Height and weight data completeness and quality for children



| Background characteristic | Percentage with data incomplete or missing for: |  |  |  | Percentage with implausible data for: |  |  |  |  |  | Percentage with valid data for ${ }^{\text {8 }}$ : |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Height ${ }^{1}$ | Weight ${ }^{2}$ | Age in months ${ }^{3}$ | Number of children | Height-forage $^{4}$ | Number of children with complete height and age ${ }^{5}$ | Weight-forheight ${ }^{6}$ | Number of children with complete weight and height | Weight-forage $^{7}$ | Number of children with complete weight and age ${ }^{5}$ | Height-forage | Weight-forheight | Weight-forage | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 4.4 | 4.1 | 0.0 | 295 | 2.8 | 282 | 1.1 | 282 | 1.1 | 283 | 92.9 | 94.6 | 94.9 | 295 |
| 6-8 | 4.5 | 4.0 | 0.5 | 200 | 1.0 | 191 | 0.5 | 191 | 0.0 | 192 | 94.5 | 95.0 | 96.0 | 200 |
| 9-11 | 5.3 | 5.3 | 0.7 | 151 | 0.7 | 143 | 0.0 | 143 | 0.0 | 143 | 94.0 | 94.7 | 94.7 | 151 |
| 12-17 | 2.8 | 2.8 | 0.0 | 319 | 1.0 | 310 | 0.3 | 310 | 0.3 | 310 | 96.2 | 96.9 | 96.9 | 319 |
| 18-23 | 4.3 | 4.3 | 0.0 | 277 | 0.4 | 265 | 0.4 | 265 | 0.0 | 265 | 95.3 | 95.3 | 95.7 | 277 |
| 24-35 | 6.6 | 6.6 | 0.3 | 592 | 0.7 | 552 | 0.4 | 553 | 0.2 | 552 | 92.6 | 93.1 | 93.1 | 592 |
| 36-47 | 5.4 | 5.4 | 0.7 | 669 | 0.3 | 632 | 0.2 | 633 | 0.0 | 632 | 94.2 | 94.5 | 94.5 | 669 |
| 48-59 | 5.5 | 5.5 | 0.3 | 635 | 0.5 | 600 | 0.8 | 600 | 0.2 | 600 | 94.0 | 93.7 | 94.3 | 635 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.5 | 5.4 | 0.4 | 1,561 | 1.2 | 1,474 | 0.5 | 1,475 | 0.1 | 1,476 | 93.3 | 94.0 | 94.4 | 1,561 |
| Female | 4.8 | 4.8 | 0.3 | 1,577 | 0.5 | 1,501 | 0.5 | 1,502 | 0.3 | 1,501 | 94.7 | 94.8 | 94.9 | 1,577 |
| Mother's interview status |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Interviewed | 3.6 | 3.6 | 0.0 | 2,556 | 0.9 | 2,463 | 0.4 | 2,463 | 0.2 | 2,465 | 95.5 | 95.9 | 96.2 | 2,556 |
| Not interviewed but in household | 37.6 | 37.6 | 9.4 | 85 | 0.0 | 53 | 0.0 | 53 | 0.0 | 53 | 62.4 | 62.4 | 62.4 | 85 |
| Not interviewed and not in the household ${ }^{9}$ | 7.2 | 7.2 | 0.6 | 497 | 0.2 | 459 | 0.7 | 461 | 0.0 | 459 | 92.2 | 92.2 | 92.4 | 497 |
| County |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomi | 6.3 | 5.6 | 0.0 | 143 | 1.5 | 134 | 0.0 | 134 | 0.0 | 135 | 92.3 | 93.7 | 94.4 | 143 |
| Bong | 1.1 | 1.1 | 0.0 | 275 | 0.4 | 272 | 0.0 | 272 | 0.0 | 272 | 98.5 | 98.9 | 98.9 | 275 |
| Gbarpolu | 4.1 | 4.1 | 0.0 | 148 | 0.0 | 142 | 0.0 | 142 | 0.0 | 142 | 95.9 | 95.9 | 95.9 | 148 |
| Grand Bassa | 4.6 | 4.6 | 0.0 | 240 | 0.0 | 229 | 0.0 | 229 | 0.0 | 229 | 95.4 | 95.4 | 95.4 | 240 |
| Grand Cape Mount | 8.5 | 8.5 | 0.5 | 189 | 1.2 | 173 | 1.7 | 173 | 0.0 | 173 | 90.5 | 89.9 | 91.5 | 189 |
| Grand Gedeh | 0.7 | 0.7 | 0.0 | 139 | 0.7 | 138 | 1.4 | 138 | 0.0 | 138 | 98.6 | 97.8 | 99.3 | 139 |
| Grand Kru | 3.3 | 3.3 | 0.0 | 182 | 1.7 | 176 | 0.0 | 176 | 0.6 | 176 | 95.1 | 96.7 | 96.2 | 182 |
| Lofa | 11.9 | 11.9 | 0.5 | 218 | 1.0 | 192 | 0.0 | 192 | 0.0 | 192 | 87.2 | 88.1 | 88.1 | 218 |
| Margibi | 3.3 | 3.3 | 0.0 | 182 | 1.1 | 176 | 0.6 | 176 | 1.1 | 176 | 95.6 | 96.2 | 95.6 | 182 |
| Maryland | 0.0 | 0.0 | 0.0 | 186 | 0.5 | 186 | 0.0 | 186 | 0.0 | 186 | 99.5 | 100.0 | 100.0 | 186 |
| Montserrado | 12.6 | 12.6 | 1.1 | 366 | 0.6 | 318 | 0.6 | 320 | 0.3 | 318 | 86.3 | 86.9 | 86.6 | 366 |
| Nimba | 3.4 | 3.4 | 0.0 | 358 | 1.4 | 346 | 0.9 | 346 | 0.0 | 346 | 95.3 | 95.8 | 96.6 | 358 |
| River Cess | 4.0 | 4.0 | 1.1 | 176 | 1.2 | 169 | 0.6 | 169 | 1.2 | 169 | 94.9 | 95.5 | 94.9 | 176 |
| River Gee | 4.5 | 3.8 | 1.9 | 156 | 0.0 | 149 | 1.3 | 149 | 0.0 | 150 | 95.5 | 94.2 | 96.2 | 156 |
| Sinoe | 2.8 | 2.8 | 0.0 | 180 | 0.6 | 175 | 0.0 | 175 | 0.0 | 175 | 96.7 | 97.2 | 97.2 | 180 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Western | 6.5 | 6.3 | 0.2 | 480 | 0.9 | 449 | 0.7 | 449 | 0.0 | 450 | 92.7 | 92.9 | 93.8 | 480 |
| South Central | 8.0 | 8.0 | 0.5 | 788 | 0.6 | 723 | 0.4 | 725 | 0.4 | 723 | 91.2 | 91.6 | 91.4 | 788 |
| South Eastern A | 2.6 | 2.6 | 0.4 | 495 | 0.8 | 482 | 0.6 | 482 | 0.4 | 482 | 96.6 | 96.8 | 97.0 | 495 |
| South Eastern B | 2.5 | 2.3 | 0.6 | 524 | 0.8 | 511 | 0.4 | 511 | 0.2 | 512 | 96.8 | 97.1 | 97.5 | 524 |
| North Central | 4.8 | 4.8 | 0.1 | 851 | 1.0 | 810 | 0.4 | 810 | 0.0 | 810 | 94.2 | 94.8 | 95.2 | 851 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 5.9 | 5.8 | 0.5 | 1,076 | 1.2 | 1,013 | 0.6 | 1,013 | 0.3 | 1,014 | 93.0 | 93.6 | 94.0 | 1,076 |
| Elementary | 4.0 | 3.9 | 0.2 | 849 | 0.6 | 815 | 0.4 | 815 | 0.1 | 816 | 95.4 | 95.6 | 96.0 | 849 |
| Junior high | 3.6 | 3.6 | 0.2 | 413 | 1.3 | 398 | 0.3 | 398 | 0.5 | 398 | 95.2 | 96.1 | 95.9 | 413 |
| Senior high | 3.2 | 3.2 | 0.0 | 252 | 0.0 | 244 | 0.4 | 244 | 0.0 | 244 | 96.8 | 96.4 | 96.8 | 252 |
| Higher | 9.8 | 9.8 | 0.0 | 51 | 2.2 | 46 | 0.0 | 46 | 0.0 | 46 | 88.2 | 90.2 | 90.2 | 51 |

Table C.8-Continued

| Background characteristic | Percentage with data incomplete or missing for: |  |  |  | Percentage with implausible data for: |  |  |  |  |  | Percentage with valid data for ${ }^{8}$ : |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Height ${ }^{1}$ | Weight ${ }^{2}$ | Age in months ${ }^{3}$ | Number of children | $\begin{gathered} \text { Height-for- } \\ \text { age }^{4} \end{gathered}$ | Number of children with complete height and age ${ }^{5}$ | $\begin{gathered} \text { Weight-for- } \\ \text { height }^{6} \end{gathered}$ | Number of children with complete weight and height | Weight-forage $^{7}$ | Number of children with complete weight and age $^{5}$ | $\begin{aligned} & \text { Height-for- } \\ & \text { age } \\ & \hline \end{aligned}$ | Weight-forheight | Weight-forage | Number of children |
| Measurer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5015 | 3.5 | 3.5 | 0.0 | 173 | 1.2 | 167 | 0.0 | 167 | 0.6 | 167 | 95.4 | 96.5 | 96.0 | 173 |
| 5025 | 4.0 | 4.0 | 0.0 | 126 | 0.8 | 121 | 0.8 | 121 | 0.0 | 121 | 95.2 | 95.2 | 96.0 | 126 |
| 5026 | 0.0 | 0.0 | 0.0 | 4 | 0.0 | 4 | 0.0 | 4 | 0.0 | 4 | 100.0 | 100.0 | 100.0 | 4 |
| 5035 | 1.0 | 1.0 | 0.0 | 210 | 0.0 | 208 | 1.0 | 208 | 0.0 | 208 | 99.0 | 98.1 | 99.0 | 210 |
| 5036 | 0.0 | 0.0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 100.0 | 100.0 | 100.0 | 1 |
| 5045 | 4.0 | 3.2 | 2.4 | 124 | 0.8 | 119 | 0.0 | 119 | 0.0 | 120 | 95.2 | 96.0 | 96.8 | 124 |
| 5046 | 3.8 | 3.8 | 0.0 | 53 | 0.0 | 51 | 0.0 | 51 | 0.0 | 51 | 96.2 | 96.2 | 96.2 | 53 |
| 5055 | 1.9 | 1.9 | 0.0 | 162 | 0.0 | 159 | 0.6 | 159 | 0.0 | 159 | 98.1 | 97.5 | 98.1 | 162 |
| 5056 | 0.0 | 0.0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 2 | 0.0 | 2 | 100.0 | 100.0 | 100.0 | 2 |
| 5065 | 1.5 | 1.5 | 0.0 | 194 | 0.0 | 191 | 0.0 | 191 | 0.0 | 191 | 98.5 | 98.5 | 98.5 | 194 |
| 5066 | 0.0 | 0.0 | 0.0 | 7 | 0.0 | 7 | 0.0 | 7 | 0.0 | 7 | 100.0 | 100.0 | 100.0 | 7 |
| 5075 | 6.3 | 6.3 | 0.0 | 192 | 0.0 | 180 | 0.0 | 180 | 0.0 | 180 | 93.8 | 93.8 | 93.8 | 192 |
| 5076 | 0.0 | 0.0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 2 | 0.0 | 2 | 100.0 | 100.0 | 100.0 | 2 |
| 5085 | 5.1 | 5.1 | 0.0 | 176 | 0.6 | 167 | 0.6 | 167 | 0.0 | 167 | 94.3 | 94.3 | 94.9 | 176 |
| 5095 | 4.3 | 4.3 | 0.6 | 162 | 1.3 | 155 | 1.3 | 155 | 0.0 | 155 | 94.4 | 94.4 | 95.7 | 162 |
| 5096 | 0.0 | 0.0 | 0.0 | 37 | 0.0 | 37 | 0.0 | 37 | 0.0 | 37 | 100.0 | 100.0 | 100.0 | 37 |
| 5105 | 6.7 | 6.2 | 0.0 | 193 | 2.2 | 180 | 0.6 | 180 | 1.1 | 181 | 91.2 | 92.7 | 92.7 | 193 |
| 5115 | 1.7 | 1.7 | 1.2 | 173 | 0.6 | 170 | 0.6 | 170 | 0.6 | 170 | 97.7 | 97.7 | 97.7 | 173 |
| 5116 | 50.0 | 50.0 | 0.0 | 2 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 50.0 | 50.0 | 50.0 | 2 |
| 5125 | 9.0 | 9.0 | 0.0 | 144 | 3.1 | 131 | 1.5 | 131 | 1.5 | 131 | 88.2 | 89.6 | 89.6 | 144 |
| 5126 | 0.0 | 0.0 | 0.0 | 4 | 0.0 | 4 | 0.0 | 4 | 0.0 | 4 | 100.0 | 100.0 | 100.0 | 4 |
| 5135 | 7.8 | 7.8 | 0.0 | 192 | 0.6 | 177 | 0.0 | 177 | 0.0 | 177 | 91.7 | 92.2 | 92.2 | 192 |
| 5136 | 0.0 | 0.0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 100.0 | 100.0 | 100.0 | 1 |
| 5145 | 13.8 | 13.8 | 1.3 | 152 | 0.0 | 131 | 0.0 | 131 | 0.0 | 131 | 86.2 | 86.2 | 86.2 | 152 |
| 5146 | 0.0 | 0.0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 100.0 | 100.0 | 100.0 | 1 |
| 5155 | 7.9 | 7.9 | 1.8 | 164 | 0.0 | 149 | 0.0 | 151 | 0.0 | 149 | 90.9 | 92.1 | 90.9 | 164 |
| 5156 | 20.0 | 20.0 | 0.0 | 10 | 0.0 | 8 | 0.0 | 8 | 0.0 | 8 | 80.0 | 80.0 | 80.0 | 10 |
| 5165 | 5.7 | 5.7 | 0.0 | 123 | 0.0 | 116 | 0.0 | 116 | 0.0 | 116 | 94.3 | 94.3 | 94.3 | 123 |
| 5166 | 11.4 | 11.4 | 0.0 | 132 | 1.7 | 117 | 0.9 | 117 | 0.0 | 117 | 87.1 | 87.9 | 88.6 | 132 |
| 5175 | 0.0 | 0.0 | 0.0 | 45 | 0.0 | 45 | 0.0 | 45 | 0.0 | 45 | 100.0 | 100.0 | 100.0 | 45 |
| 5176 | 2.3 | 2.3 | 0.0 | 177 | 2.9 | 173 | 1.2 | 173 | 0.0 | 173 | 94.9 | 96.6 | 97.7 | 177 |
| Total | 5.1 | 5.1 | 0.4 | 3,138 | 0.8 | 2,975 | 0.5 | 2,977 | 0.2 | 2,977 | 94.0 | 94.4 | 94.7 | 3,138 |

${ }^{1}$ Child's height in centimeters is missing, child was not present, measurement of child was refused, and "other" result codes ${ }^{2}$ Child's weight in kilograms is missing, child was not present, measurement of child was refused, and "other" result codes. ${ }^{3}$ Incomplete date of birth; a complete date of birth is month/day/year or month/year.

 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), Liberia DHS 2019-20

| Region and measurer | Median difference in height measurements ${ }^{1}$ | Percentage of height measurements with a difference $>1 \mathrm{~cm}$ | Number of children randomly selected and remeasured |
| :---: | :---: | :---: | :---: |
| Region |  |  |  |
| North Western | 0.1 | 8.0 | 87 |
| South Central | 0.1 | 4.6 | 151 |
| South Eastern A | 0.1 | 7.2 | 83 |
| South Eastern B | 0.1 | 6.0 | 84 |
| North Central | 0.1 | 2.9 | 105 |
| Measurer |  |  |  |
| 5015 | 0.1 | 0.0 | 29 |
| 5025 | 0.1 | 7.1 | 28 |
| 5026 | * | * | 1 |
| 5035 | 0.1 | 3.2 | 31 |
| 5045 | 0.1 | 17.4 | 23 |
| 5046 | * | * | 9 |
| 5055 | 0.1 | 9.4 | 32 |
| 5065 | 0.2 | 5.6 | 36 |
| 5075 | 0.2 | 9.1 | 33 |
| 5085 | 0.1 | 0.0 | 30 |
| 5095 | 0.1 | 0.0 | 23 |
| 5096 | * | * | 4 |
| 5105 | 0.2 | 9.1 | 33 |
| 5115 | 0.1 | 12.9 | 31 |
| 5125 | 0.1 | 3.0 | 33 |
| 5126 | * | * | 1 |
| 5135 | 0.1 | 6.9 | 29 |
| 5136 | * | * | 1 |
| 5145 | 0.1 | 0.0 | 27 |
| 5155 | 0.0 | 0.0 | 27 |
| 5165 | * | * | 7 |
| 5166 | 0.1 | 6.7 | 15 |
| 5175 | * | * | 6 |
| 5176 | 0.1 | 0.0 | 21 |
| Total | 0.1 | 5.5 | 510 |

Note: An asterisk indicates that a figure is based on fewer than 10 children, which is the minimum number of children needed to calculate technical error of measurement.
${ }^{1}$ Median absolute difference between measurers' first and second height measurement in centimeters.

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GOVERNMENT OF LIBERIA
LIBERIA INSTITUTE OF STATISTICS AND GEO-INFORMATION SERVICES


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Hello. My name is $\qquad$ . I am working with the Liberia Institute of Statistics and GeoInformation Services. We are conducting a survey about health and other topics all over Liberia. The information we collect will help the government to plan health services. Your household was selected for the survey. I would like to ask you some questions about your household. The questions usually take about 15 to 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time. In case you need more information about the survey, you may contact the person listed on this card.

GIVE CARD WITH CONTACT INFORMATION

Do you have any questions?
May I begin the interview now?
SIGNATURE OF INTERVIEWER $\qquad$ DATE $\qquad$
RESPONDENT AGREES

RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . . $2 \longrightarrow$ END

RECORD THE TIME.


HOUSEHOLD SCHEDULE


| 2A) Just to make sure that I have a complete listing: are there any other people such as small children or infants that we have not listed? |  | ADD TO TABLE | NO |  |
| :---: | :---: | :---: | :---: | :---: |
| 2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? | YES | ADD TO TABLE | NO |  |
| 2C) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? | YES | ADD TO TABLE | NO |  |

CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD

| $01=$ HEAD | $07=$ PARENT-IN-LAW |
| :--- | :--- |
| $02=$ WIFE OR HUSBAND | $08=$ BROTHER OR SISTER |
| $03=$ SON OR DAUGHTER | $09=$ OTHER RELATIVE |
| $04=$ SON-IN-LAW OR | $10=$ ADOPTED/FOSTER $/$ |
| DAUGHTER-IN-LAW | STEPCHILD |
| $05=$ GRANDCHILD | $11=$ NOT RELATED |
| $06=$ PARENT | $98=$ DON'T KNOW |


| IF AGE 0-17 YEARS |  |  |  | IF AGE 5 YEARS OR OLDER |  | IF AGE 5-24 YEARS |  | IF AGE 0-4 YEARS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 natural mother alive? | Does (NAME)'s natural mother usually live in this household or was she a guest last night? <br> IF YES: What is her name? <br> RECORD <br> MOTHER'S <br> LINE <br> NUMBER. <br> IF NO, <br> RECORD <br> '00'. | Is (NAME)'s natural father alive? | Does (NAME)'s natural father usually live in this household or was he a guest last night? <br> IF YES: What is his name? <br> RECORD <br> FATHER'S <br> LINE <br> NUMBER. <br> IF NO, <br> RECORD <br> '00'. | Has <br> (NAME) ever attended school? | What is the highest level of school (NAME) has attended? <br> What is the highest grade (NAME) completed at that level? <br> SEE CODES BELOW. | Did (NAME) attend school at any time during the 2019-2020 school year? | During [this/that] school year, what level and grade [is/was] (NAME) attending? <br> SEE CODES BELOW. | Does (NAME) have a birth certificate? <br> IF NO, PROBE: Has (NAME)'s birth ever been registered? |
| $\begin{array}{cc} \text { Y } & \text { N DK } \\ 1 & 2 \\ \text { GO TO } \\ \text { G } & 8 \end{array}$ |  | $\begin{array}{cc} \text { Y } & \text { N DK } \\ 1 & 2 \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{cc} \mathrm{Y} & \mathrm{~N} \\ 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{cc} \mathrm{Y} & \mathrm{~N} \\ 1 & 2 \\ & \downarrow \\ \text { NEXT } & \downarrow \text { LINE } \end{array}$ |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \text { GO } \end{array}$ | $1$ | $\begin{array}{cc} 1 & 2 \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \nabla^{2} \end{array}$ | $1$ | $\begin{array}{cc} 1 & 2 \\ \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  |  |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } & \nabla^{8} \end{array}$ | $1$ | $\begin{array}{cc} 1 & 2 \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ | $\square$ | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \nabla_{14} \end{array}$ |  | $\begin{array}{cc} 1 & 2 \\ \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ \text { NEXT LINE } \end{array}$ |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \nabla_{14} \end{array}$ | \| | $\begin{array}{cc} 1 & 2 \\ \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \nabla^{2} \end{array}$ |  | $\begin{array}{cc} 1 & 2 \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ \text { NEXT LINE } \end{array}$ | $\square \square$ |  |
| $\begin{array}{lll} 1 & 2 \\ \text { GO TO } \\ \nabla_{14} \end{array}$ |  | $\begin{array}{cc} 1 & 2 \\ \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{lc} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  |  |
| $\begin{array}{ll} 1 & 2 \end{array} \nabla^{8}$ |  | $\begin{array}{cc} 1 & 2 \\ \downarrow \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{lc} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ |  | $\begin{array}{ll} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ | $\square \square$ |  |
| $\begin{array}{ll} 1 & 2 \\ \text { GO TO } \nabla_{14}^{8} \end{array}$ |  | $\begin{array}{cc} 1 & 2 \\ \nabla^{8} \\ \text { GO TO } 16 \end{array}$ |  | $\begin{array}{lc} 1 & 2 \\ & \downarrow \\ \text { NEXT LINE } \end{array}$ | $\square$ |  | $\square \square$ | $\square$ |

CODES FOR Qs. 17 AND 19: EDUCATION

LEVEL
1 = ELEMENTARY (GRADES 1-6)
2 = JUNIOR HIGH (GRADES 7-9)
3 = SENIOR HIGH (GRADES 10-12)
4 = HIGHER
6 = PRESCHOOL/NURSERY/KINDERGARTEN
8 = DON'T KNOW

GRADE
$00=$ LESS THAN 1 GRADE COMPLETED AT THAT LEVEL (USE '00' FOR Q. 17 ONLY
THIS CODE IS NOT ALLOWED
FOR Q. 19.)
98 = DON'T KNOW


| $28$ | LOOK AT THE LAST DIGIT OF THE HOUSEHOLD NUMBER ON THE COVER PAGE. THIS IS THE ROW NUMBER YOU SHOULD GO TO. CHECK THE TOTAL NUMBER OF ELIGIBLE CHILDREN Q. 21 ON THE PREVIOUS PAGE. THIS IS THE COLUMN NUMBER YOU SHOULD GO TO. FOLLOW THE SELECTED ROW AND COLUMN TO THE CELL WHERE THEY MEET AND CIRCLE THE NUMBER IN THE CELL. THIS IS THE RANK NUMBER OF THE CHILD SELECTED FOR THE CHILD LABOUR/CHILD DISCIPLINE QUESTIONS FROM THE BOX OF ELIGIBLE CHILDREN IN Q. 23. WRITE THE NAME, AGE, LINE NUMBER, AND RANK NUMBER OF THE SELECTED CHILD IN THE SPACE BELOW THE TABLE. <br> EXAMPLE: THE HOUSEHOLD NUMBER IS '7126' AND Q. 21 SHOWS THAT THERE ARE THREE ELIGIBLE CHILDREN AGE 1-17 IN THE HOUSEHOLD. SINCE THE LAST DIGIT OF THE HOUSEHOLD NUMBER IS '6' GO TO ROW ' 6 ' AND SINCE THERE ARE THREE ELIGIBLE CHILDREN IN THE HOUSEHOLD, GO TO COLUMN ' 3 '. FOLLOW THE ROW AND COLUMN AND FIND THE NUMBER IN THE CELL WHERE THEY MEET ('2') AND CIRCLE THE NUMBER. NOW GO TO Q. 23 AND FIND THE SECOND CHILD. WRITE THE NAME, AGE, LINE NUMBER, AND RANK NUMBER OF THE CHILD IN THE SPACE BELOW THE TABLE. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LAST DIGIT OF THE HOUSEHOLD NUMBER | TOTAL NUMBER OF ELIGIBLE CHILDREN AGE 1-17 IN HOUSEHOLD FROM Q. 21 |  |  |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8+ |
| 0 | 1 | 2 | 2 | 4 | 3 | 6 | 5 | 4 |
| 1 | 1 | 1 | 3 | 1 | 4 | 1 | 6 | 5 |
| 2 | 1 | 2 | 1 | 2 | 5 | 2 | 7 | 6 |
| 3 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 7 |
| 4 | 1 | 2 | 3 | 4 | 2 | 4 | 2 | 8 |
| 5 | 1 | 1 | 1 | 1 | 3 | 5 | 3 | 1 |
| 6 | 1 | 2 | 2 | 2 | 4 | 6 | 4 | 2 |
| 7 | 1 | 1 | 3 | 3 | 5 | 1 | 5 | 3 |
| 8 | 1 | 2 | 1 | 4 | 1 | 2 | 6 | 4 |
| 9 | 1 | 1 | 2 | 1 | 2 | 3 | 7 | 5 |
| $29$ | NAME OF SELECTED CHILD |  |  |  | AGE <br> OF SELECTED CHILD |  |  |  |
|  |  |  |  |  | HH L <br> OF S <br> RAN <br> OF S |  |  |  |




| CHILD DISCIPLINE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  | SKIP |
| 50 | CHECK THE AGE OF THE SELECTED CHILD FROM Q 1-14 YEARS $\square$ | 15-17 YEARS |  |  | 60 |
| 51 | WRITE THE LINE NUMBER AND NAME OF THE CHILD FROM Q. 29. | LINE NUMBER <br> NAME |  |  |  |
| 52 | Adults use certain ways to teach children the right behavior or to address a behavior problem. I will read various methods that are used. Please tell me if you or anyone else in the household has used this method with (NAME) in the past month. <br> a) Took away privileges, forbade something (NAME) liked or did not allow (him/her) to leave the house. <br> b) Explained why (NAME)'s behavior was wrong. <br> c) Shook (him/her). <br> d) Shouted, yelled at or screamed at (him/her). <br> e) Gave (him/her) something else to do. <br> f) Spanked, hit or slapped (him/her) on the bottom with bare hand. <br> g) Hit (him/her) on the bottom or elsewhere on the body with something like a belt, hairbrush, stick, or other hard object. <br> h) Called (him/her) dumb, lazy, or another name like that. <br> i) Hit or slapped (him/her) on the face, head, or ears. <br> j) Hit or slapped (him/her) on the hand, arm, or leg. <br> k) Beat (him/her) up, that is hit (him/her) over and over as hard as one could. | a) TOOK AWAY PRIVILEGES <br> b) EXPLAINED WRONG BEHAVIOUR <br> c) $\mathrm{SHOOK} \mathrm{HIM} / \mathrm{HER}$ $\qquad$ <br> d) SHOUTED, YELLED, SCREAMED <br> e) GAVE SOMETHING ELSE TO DO . . <br> f) HIT ON BOTTOM WITH BARE HAND <br> g) HIT WITH HARD OBJECT <br> h) CALLED NAME $\qquad$ <br> i) HIT ON HEAD/FACE/EARS <br> j) HIT ON HAND/ARM/LEG $\qquad$ <br> k) BEAT HIM/HER UP $\qquad$ | YES <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 <br> 1 | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |
| 53 | Do you believe that in order to bring up, raise or educate a child properly, the child needs to be physically punished? | YES <br> NO <br> DON'T KNOW / NO OPINION |  | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |

YES $\square \square \mathrm{NO} \square \square 101$

LOOK AT THE LAST DIGIT OF THE HOUSEHOLD NUMBER ON THE COVER PAGE. THIS IS THE ROW NUMBER YOU SHOULD GO TO. CHECK THE TOTAL NUMBER OF ELIGIBLE WOMEN (COLUMN 9) IN THE HOUSEHOLD SCHEDULE. THIS IS THE COLUMN NUMBER YOU SHOULD GO TO. FOLLOW THE SELECTED ROW AND COLUMN TO THE CELL WHERE THEY MEET AND CIRCLE THE NUMBER IN THE CELL. THIS IS THE NUMBER OF THE WOMAN SELECTED FOR THE DOMESTIC VIOLENCE QUESTIONS FROM THE LIST OF ELIGIBLE WOMEN IN COLUMN 9 OF THE HOUSEHOLD SCHEDULE. WRITE THE NAME AND LINE NUMBER OF THE SELECTED WOMAN IN THE SPACE BELOW THE TABLE.

EXAMPLE: THE HOUSEHOLD NUMBER IS ‘3893’ AND THE HOUSEHOLD SCHEDULE COLUMN 9 SHOWS THAT THERE ARE TWO ELIGIBLE WOMEN AGE 15-49 IN THE HOUSEHOLD (LINE NUMBERS 02, 06). SINCE THE LAST DIGIT OF THE HOUSEHOLD NUMBER IS '3' GO TO ROW '3' AND SINCE THERE ARE TWO ELIGIBLE WOMEN IN THE HOUSEHOLD, GO TO COLUMN '2'. FOLLOW THE ROW AND COLUMN AND FIND THE NUMBER IN THE CELL WHERE THEY MEET ('1') AND CIRCLE THE NUMBER. NOW GO TO THE HOUSEHOLD SCHEDULE AND FIND THE FIRST WOMAN WHO IS ELIGIBLE FOR THE WOMAN'S INTERVIEW (LINE NUMBER '02' IN THIS EXAMPLE). WRITE HER NAME AND LINE NUMBER IN THE SPACE BELOW THE TABLE.


## HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 101 | What is the main source of drinking water for members of your household? | PIPED WATER <br> PIPED INTO DWELLING <br> PIPED TO YARD/PLOT <br> PIPED TO NEIGHBOR <br> PUBLIC TAP/STANDPIPE <br> HAND PUMP/ TUBE WELL OR BOREHOLE <br> DUG WELL <br> PROTECTED WELL <br> UNPROTECTED WELL <br> WATER FROM SPRING <br> PROTECTED SPRING <br> UNPROTECTED SPRING <br> RAINWATER <br> TANKER TRUCK <br> CART WITH SMALL TANK <br> SURFACE WATER (RIVER/DAM/ <br> LAKE/POND/STREAM/CANAL/ <br> IRRIGATION CHANNEL) <br> BOTTLED WATER <br> MINERAL WATER IN SACHET <br> OTHER |  |  |
| 102 | What is the main source of water used by your household for other purposes such as cooking and handwashing? | PIPED WATER <br> PIPED INTO DWELLING <br> PIPED TO YARD/PLOT <br> PIPED TO NEIGHBOR <br> PUBLIC TAP/STANDPIPE <br> HAND PUMP/ TUBE WELL OR BOREHOLE <br> DUG WELL <br> PROTECTED WELL <br> UNPROTECTED WELL <br> WATER FROM SPRING <br> PROTECTED SPRING <br> UNPROTECTED SPRING <br> RAINWATER <br> TANKER TRUCK <br> CART WITH SMALL TANK <br> SURFACE WATER (RIVER/DAM/ <br> LAKE/POND/STREAM/CANAL/ <br> IRRIGATION CHANNEL) <br> OTHER | 11 <br> 12 <br> 13 <br> 14 <br> 21 <br> 31 <br> 32 <br> 41 <br> 42 <br> 51 <br> 61 <br> 71 <br> 81 <br> 96 | $\longrightarrow 106$ |
| 103 | Where is that water source located? | IN OWN DWELLING <br> IN OWN YARD/PLOT ELSEWHERE | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\rightarrow 105$ |
| 104 | How long does it take to go there, get water, and come back? | MINUTES <br> DON'T KNOW |  |  |
| 105 | CHECK 101 AND 102: CODE '14' OR '21' CIRCLED? <br> YES | NO |  | $\longrightarrow 107$ |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 106 | In the past two weeks, was the water from this source not available for at least one full day? |  |  |
| 107 | Do you do anything to the water to make it safer to drink? |  | $\rightarrow 109$ |
| 108 | What do you usually do to make the water safer to drink? <br> Anything else? <br> RECORD ALL MENTIONED. |  |  |
| 109 | What kind of toilet facility do members of your household usually use? <br> IF NOT POSSIBLE TO DETERMINE, ASK PERMISSION TO OBSERVE THE FACILITY. |  | $\rightarrow 113$ |
| 110 | Do you share this toilet facility with other households? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO . . . . . . . . . . .   | $\longrightarrow 112$ |
| 111 | Including your own household, how many households use this toilet facility? |  |  |
| 112 | Where is this toilet facility located? |  |  |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 113 | What type of fuel does your household mainly use for cooking? | ELECTRICITY <br> GAS CYLINDER <br> KEROSENE STOVE <br> FIRE COAL/CHARCOAL <br> WOOD <br> STRAW/SHRUBS/GRASS <br> AGRICULTURAL CROP <br> ANIMAL DUNG <br> NO FOOD COOKED IN HOUSEHOLD <br> OTHER $\qquad$ | 01 <br> 02 <br> 03 <br> 04 <br> 05 <br> 06 <br> 07 <br> 08 <br> 95 <br> 96 | $\longrightarrow 116$ |
| 114 | Is the cooking usually done in the house, on a porch, in a separate building, or outdoors? | IN THE HOUSE <br> ON A PORCH <br> IN A SEPARATE BUILDING OUTDOORS <br> OTHER $\qquad$ | $\begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ -\quad 6 \end{array}$ | $\square \rightarrow 116$ |
| 115 | Do you have a separate room which is used as a kitchen? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |
| 116 | How many rooms in this household are used for sleeping? | ROOMS |  |  |
| 117 | Does this household own any livestock, herds, other farm animals, or poultry? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\rightarrow 119$ |
| 118 | How many of the following animals does this household own? <br> IF NONE, RECORD '00'. <br> IF 95 OR MORE, RECORD '95'. <br> IF UNKNOWN, RECORD '98'. <br> a) Cows or bulls? <br> b) Pigs? <br> c) Goats? <br> d) Sheep? <br> e) Chickens, ducks, or guinea fowl? | a) COWS/BULLS <br> b) PIGS <br> c) GOATS <br> d) SHEEP <br> e) CHICKENS/DUCKS/FOWL |  |  |
| 119 | Does any member of this household own any agricultural land? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 121$ |
| 120 | How many acres of agricultural land do members of this household own? <br> IF 95 OR MORE, CIRCLE '950'. | ACRES <br> 95 OR MORE ACRES <br> DON'T KNOW | $\begin{aligned} & \\ & \hline \\ & 950 \\ & 998 \end{aligned}$ |  |

HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 121 | Does your household have: <br> a) Electricity that is connected? <br> b) A generator? <br> c) A solar panel? <br> d) A radio? <br> e) A television? <br> f) A non-mobile telephone? <br> g) A computer? <br> h) An ice box / refrigerator? <br> i) A table? <br> j) Chairs? <br> k) A cupboard? <br> I) A mattress (not made of straw or grass)? <br> m) A sewing machine? |  | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |
| 122 | Does any member of this household own: <br> a) A watch? <br> b) A mobile phone? <br> c) A bicycle? <br> d) A motorcycle or tricycle? <br> e) A car or truck? <br> f) A boat or canoe? |  | $\begin{gathered} \mathrm{NO} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{gathered}$ |  |
| 123 | I don't want to know the amount, but does any member of this household have a bank account? | YES NO |  |  |
| 124 | How often does anyone smoke inside your house? Would you say daily, weekly, monthly, less often than once a month, or never? | DAILY <br> WEEKLY <br> MONTHLY <br> LESS OFTEN THAN ONCE A MONTH <br> NEVER | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |  |
| 127 | Does your household have any mosquito nets? <br> PROBE: Any mosquito nets at all? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | 139 |
| 128 | How many mosquito nets does your household have? <br> IF 7 OR MORE NETS, RECORD '7'. | NUMBER OF NETS |  |  |

MOSQUITO NETS

|  |  | NET \#1 | NET \#2 |  | NET \#3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 129 | ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN THE HOUSEHOLD. <br> IF MORE THAN 3 NETS, USE ADDITIONAL QUESTIONNAIRE(S). | OBSERVED .......... 1  <br> NOT OBSERVED $\ldots .$. 2 | OBSERVED NOT OBSERVED | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | OBSERVED NOT OBSERVED |  |
| 130 | How many months ago did your household get the mosquito net? <br> IF LESS THAN ONE MONTH AGO, RECORD ' 00 '. | MORE THAN 36 <br> MONTHS AGO <br> ..... 95 <br> NOT SURE <br> ........... 98 | MONTHS <br> AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO <br> NOT SURE | $\begin{aligned} & 95 \\ & 98 \end{aligned}$ | MONTHS <br> AGO $\square$ <br> MORE THAN 36 <br> MONTHS AGO <br> NOT SURE | 95 <br> 98 |
| 131 | OBSERVE OR ASK BRAND/TYPE OF MOSQUITO NET. <br> IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT. |  | LONG-LASTING INSECTICIDETREATED NET (LLIN) OLYSET PERMANET BASF NET DURANET OTHER/DON'T KNOW BRAND BUT LLIN | $\begin{aligned} & 11 \\ & 12 \\ & 13 \\ & 14 \\ & 16 \\ & \\ & 96 \\ & 98 \end{aligned}$ | LONG-LASTING INSECTICIDETREATED NET (LLIN) OLYSET PERMANET BASF NET DURANET OTHER/DON'T KNOW BRAND BUT LLIN | 11 <br> 12 <br> 13 <br> 14 <br> 16 <br> 96 <br> 98 |
| 134 | Did you get the net through a mass distribution campaign, during a prenatal care visit, or during an immunization visit? |  | YES, MASS DIST. <br> CAMPAIGN <br> YES, PNC <br> YES, IMMUNIZATION VISIT <br> (SKIP TO 136) | $\begin{gathered} 1 \\ 2- \\ 3-1 \\ \stackrel{4}{4} \end{gathered}$ | YES, MASS DIST. <br> CAMPAIGN <br> YES, PNC <br> YES, IMMUNIZATION VISIT <br> (SKIP TO 136) | $\begin{aligned} & 1 \\ & 2 \\ & 3- \\ & \stackrel{4}{4} \end{aligned}$ |
| 135 | Where did you get the net? |  | GOVT. HEALTH <br> FACIIITY <br> PRIVATE HEALTH <br> FACILITY <br> PHARMACY <br> SHOP/MARKET <br> COMMUNITY HEALTH <br> VOLUNTEER/ <br> ASSISTANT <br> RELIGIOUS <br> INSTITUTION <br> SCHOOL <br> STREET CORNER <br> NEIGHBOR/ FRIEND / <br> RELATIVE <br> OTHER <br> DON'T KNOW | $\begin{aligned} & 01 \\ & 02 \\ & 03 \\ & 04 \\ & \\ & 05 \\ & \\ & 06 \\ & 07 \\ & 08 \\ & 09 \\ & 96 \\ & 98 \end{aligned}$ | GOVT. HEALTH <br> FACIIITY <br> PRIVATE HEALTH <br> FACILITY <br> PHARMACY <br> SHOP/MARKET <br> COMMUNITY HEALTH <br> VOLUNTEER/ <br> ASSISTANT <br> RELIGIOUS <br> INSTITUTION <br> SCHOOL <br> STREET CORNER <br> NEIGHBOR/ FRIEND / <br> RELATIVE <br> OTHER <br> DON'T KNOW | $\begin{aligned} & 01 \\ & 02 \\ & 03 \\ & 04 \\ & \\ & 05 \\ & \\ & 06 \\ & 07 \\ & 08 \\ & 09 \\ & 96 \\ & 98 \end{aligned}$ |

MOSQUITO NETS

|  |  | NET \#1 | NET \#2 | NET \#3 |
| :---: | :---: | :---: | :---: | :---: |
| 136 | Did anyone sleep under this mosquito net last night? | YES $\ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots$ 2 <br>  (SKIP TO 138) <br> NOT <br> SURE $\ldots . . . . .$. 8 |  |  |
| 137 | Who slept under this mosquito net last night? <br> RECORD THE PERSON'S NAME AND LINE NUMBER FROM HOUSEHOLD SCHEDULE. | NAME   <br>    <br> LINE   <br> NO. $\ldots .$.  <br>    | NAME <br> LINE <br> NO. . . . | NAME $\qquad$ LINE <br> NO. |
|  |  | LINE <br> NO. $\square$ | NAME   <br>    <br> LINE   <br> NO. $\ldots .$. $\square$ | NAME <br> LINE <br> NO. |
|  |  | LINE <br> NO. | NAME <br> LINE <br> NO. <br> $\ldots . . \square$ | NAME <br> LINE <br> NO. $\square$ |
|  |  | LINE <br> NO. $\square$ | LINE <br> NO. | LINE <br> NO. |
| 138 |  | GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139. | GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139. | GO TO 129 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 139. |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 139 | 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? |  | $\longrightarrow 142$ |
| 140 | OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING. <br> RECORD OBSERVATION. |  |  |
| 141 | OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT AT THE PLACE FOR HANDWASHING. <br> RECORD OBSERVATION. |  |  |
| 142 | OBSERVE MAIN MATERIAL OF THE FLOOR OF THE DWELLING. <br> RECORD OBSERVATION. |  |  |
| 143 | OBSERVE MAIN MATERIAL OF THE ROOF OF THE DWELLING. <br> RECORD OBSERVATION. | NATURAL ROOFING <br> NO ROOF <br> THATCH/PALM LEAF <br> SOD <br> RUDIMENTARY ROOFING <br> RUSTIC MAT <br> PALM/BAMBOO <br> WOOD PLANKS <br> CARDBOARD <br> TARPAULIN, PLASTIC <br> FINISHED ROOFING <br> ZINC/METAL/ALUMINUM <br> WOOD <br> CALAMINE/CEMENT FIBER <br> CERAMIC TILES <br> CONCRETE/CEMENT <br> ASBESTOS SHEETS/ROOFING SHINGLES <br> OTHER $\qquad$ 96 |  |

ADDITIONAL HOUSEHOLD CHARACTERISTICS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 144 | OBSERVE MAIN MATERIAL OF THE EXTERIOR WALLS OF THE DWELLING. <br> RECORD OBSERVATION. | NATURAL WALLS <br> NO WALLS <br> CANE/PALM/TRUNKS <br> STRAW/ THATCH MATS DIRT <br> RUDIMENTARY WALLS <br> MUD AND STICKS <br> STONE WITH MUD <br> UNCOVERED ADOBE <br> PLYWOOD <br> CARDBOARD/PLASTIC <br> REUSED WOOD <br> FINISHED WALLS <br> ZINC/ METAL <br> CEMENT <br> STONE WITH LIME/CEMENT BRICKS <br> CEMENT BLOCKS <br> COVERED ADOBE <br> WOOD PLANKS/SHINGLES <br> OTHER $\qquad$ | 11 <br> 12 <br> 13 <br> 14 <br> 21 <br> 22 <br> 23 <br> 24 <br> 25 <br> 31 <br> 32 <br> 34 <br> 35 <br> 36 <br> 96 |  |
| 145 | I would like to check whether the salt used in your household is iodized. May I have a sample of the salt used to cook meals in your household? <br> TEST SALT FOR IODINE. | IODINE PRESENT NO IODINE NO SALT IN HOUSEHOLD SALT NOT TESTED $\qquad$ (SPECIFY RE | 1 2 3 6 |  |
| 146 | RECORD THE TIME. | HOURS <br> MINUTES |  |  |

# TO BE FILLED IN AFTER COMPLETING INTERVIEW 

COMMENTS ABOUT INTERVIEW:
$\qquad$

COMMENTS ON SPECIFIC QUESTIONS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

ANY OTHER COMMENTS:

SUPERVISOR'S OBSERVATIONS

EDITOR'S OBSERVATIONS

GOVERNMENT OF LIBERIA
LIBERIA INSTITUTE OF STATISTICS AND GEO-INFORMATION SERVICES


Hello. My name is $\qquad$ . I am working with the Liberia Institute of Statistics and Geo-Information Services. We are conducting a survey about health and other topics all over Liberia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 45 to 60 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?
May I begin the interview now?

SIGNATURE OF INTERVIEWER $\qquad$ DATE $\qquad$
RESPONDENT AGREES TO BE INTERVIEWED . .

## RESPONDENT DOES NOT AGREE <br> TO BE INTERVIEWED . . $2 \longrightarrow$ END

SECTION 1. RESPONDENT'S BACKGROUND


SECTION 1. RESPONDENT'S BACKGROUND


SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 119 | Have you ever used the internet? |  | $\longrightarrow 122$ |
| 120 | In the last 12 months, have you used the internet? <br> IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE. |  | $\longrightarrow 122$ |
| 121 | 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 <br> AT LEAST ONCE A WEEK . . . . . . . . . . . . . . 2 <br> LESS THAN ONCE A WEEK $\ldots \ldots \ldots \ldots \ldots .$. 3 <br> NOT AT ALL . . . . . . . . . . . . . . . . . . . . . 4 |  |
| 122 | What is your religion? |  |  |
| 123 | What dialect do you speak (besides English)? |  |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 201 | Now I would like to ask about all the births you have had during your life. Have you ever born a child? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 | $\rightarrow 206$ |
| 202 | Do you have any sons or daughters you born who are now living with you? I mean your own belly born. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 2 | $\rightarrow 204$ |
| 203 | a) How many sons live with you? <br> b) And how many daughters live with you? <br> IF NONE, RECORD ' 00 '. | a) SONS AT HOME <br> b) DAUGHTERS AT HOME |  |  |
| 204 | Do you have any sons or daughters you born who are alive but do not live with you? | YES <br> NO | 2 | $\rightarrow 206$ |
| 205 | a) How many sons are alive but do not live with you? <br> b) And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | a) SONS ELSEWHERE <br> b) DAUGHTERS ELSEWHERE |  |  |
| 206 | Have you ever given birth to a boy or girl who was born alive but later died? <br> IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time? | YES <br> NO |  | $\longrightarrow 208$ |
| 207 | a) How many boys have died? <br> b) And how many girls have died? <br> IF NONE, RECORD '00'. | a) BOYS DEAD <br> b) GIRLS DEAD |  |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL BIRTHS |  |  |
| 209 | CHECK 208: <br> Just to make sure that I have this right: you have had in | AL $\qquad$ births during your life. Is that co |  |  |
| 210 | CHECK 208: <br> ONE OR MORE $\square$ <br> BIRTHS | RTHS $\square$ |  | $\rightarrow 226$ |

211 Now I would like to record the names of all your births, whether still alive or not, starting with the first one you had. RECORD NAMES OF ALL THE BIRTHS IN 212. RECORD TWINS AND TRIPLETS ON SEPARATE ROWS. IF THERE ARE MORE THAN 5 BIRTHS, USE AN ADDITIONAL QUESTIONNAIRE, STARTING WITH THE SECOND ROW.


SECTION 2. REPRODUCTION


SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 232 | CHECK 231: |  |  |  | $\longrightarrow 234$ $\longrightarrow 239$ |
| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \end{aligned}$ | 233 <br> In what month and year did the preceding such pregnancy end? | 234 <br> How many months pregnant were you when that pregnancy ended (spoiled)? | 235 <br> Since Ja have you pregnan spoiled |  |  |
| 01 |  |   <br> NUMBER OF MONTHS  | YES <br> NO |  |  |
| 02 |  |  | YES <br> NO |  | $\begin{aligned} & \longrightarrow \\ & \longrightarrow \\ & \text { LINE } \\ & \longrightarrow 236 \end{aligned}$ |
| 03 |  | NUMBER OF MONTHS | YES <br> NO | 2 | $\begin{array}{\|l\|l\|} \hline & \text { NEXT } \\ \text { LINE } \end{array}$ |
| 04 |  | $\square$ <br> NUMBER OF MONTHS | YES <br> NO |  | $\rightarrow 236$ |
| 236 | FOR EACH PREGNANCY THAT DID NOT END IN A LIVE BIRTH IN 2014-2020, ENTER 'T' IN THE CALENDAR IN THE MONTH THAT THE PREGNANCY TERMINATED AND 'P' FOR THE REMAINING NUMBER OF COMPLETED MONTHS OF PREGNANCY. <br> IF THERE ARE MORE THAN FOUR PREGNANCIES THAT DID NOT END IN A LIVE BIRTH, USE AN ADDITIONAL QUESTIONNAIRE STARTING ON THE SECOND LINE. |  |  |  |  |
| 237 | Did you have any miscarriages, abortions or stillbirths that ended before 2014? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | 1 2 | $\longrightarrow 239$ |
| 238 | When did the last such pregnancy that terminated before 2014 end? | MONTH <br> YEAR |  |  |  |

SECTION 2. REPRODUCTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 239 | When did your last menstrual period start? <br> (DATE, IF GIVEN) |  |  |
| 240 | From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant? |  | $\xrightarrow{ }{ }^{242}$ |
| 241 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD BEGINS DURING HER PERIOD RIGHT AFTER HER PERIOD HAS ENDED ..... 2 HALFWAY BETWEEN TWO PERIODS ........ 4 <br> OTHER $\qquad$ 6 <br> DON'T KNOW <br> (SPECIFY) <br> .................................. |  |
| 242 | After the birth of a child, can a woman become pregnant before her menstrual period has returned? |  |  |

SECTION 3. CONTRACEPTION


SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 302 | CHECK 226: <br> NOT PREGNANT OR UNSURE | PREGNANT | 312 |
| 303 | Are you or your partner currently doing something or using any method to delay or avoid getting pregnant? |  | $\rightarrow 312$ |
| 304 | Which method are you using? <br> RECORD ALL MENTIONED. <br> IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST. |  |  |
| 305 | What is the brand name of the pills you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  | $\rightarrow 309$ |
| 306 | What is the brand name of the condoms you are using? <br> IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE. |  | $\rightarrow 309$ |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 307 | In what facility did the sterilization take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. <br> (NAME OF PLACE) | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL ............... 11 <br> GOVERNMENT HEALTH CENTER ........ 12 <br> FAMILY PLANNING CLINIC <br> MOBILE CLINIC ............................. 14 <br> OTHER PUBLIC SECTOR $\qquad$ <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC <br> PRIVATE DOCTOR'S OFFICE . . ................ <br> MOBILE CLINIC ............................ 23 <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ 26 <br> (SPECIFY) <br> OTHER $\qquad$ 96 <br> (SPECIFY) <br> DON'T KNOW <br> 98 |  |
| 308 | In what month and year was the sterilization performed? |  | $\rightarrow 310$ |
| 309 | Since what month and year have you been using (CURRENT METHOD) without stopping? <br> PROBE: For how long have you been using (CURRENT METHOD) now without stopping? |  |  |
| 310 | CHECK 308 AND 309, 215 AND 231: ANY BIRTH OR P OF START OF USE OF CONTRACEPTION IN 308 OR | GNANCY TERMINATION AFTER MONTH AND YEAR YES $\square$ <br> OR 309, PROBE AND RECORD MONTH AND CONTINUOUS USE OF CURRENT METHOD ST BIRTH OR PREGNANCY TERMINATION). |  |


| 311 | CHECK 308 AND 309: ENTER CODE FOR INTERVIEW IN THE BACK TO THE DATE | HOD USED IN MO ENDAR AND IN EA ARTED USING. <br> EN CONTINUE | OF MONTH | ENT <br> INTE <br> MON | E FO IN TH CK TO | ETHOD USED IN CALENDAR AND NUARY 2014. $\begin{gathered} \text { THEN } \\ \mathrm{O} 324 \mathrm{O} \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 312 | I would like to ask you some questions about the times you or your partner may have used a method to avoid getting pregnant during the last few years. <br> USE CALENDAR TO PROBE FOR EARLIER PERIODS OF USE AND NONUSE, STARTING WITH MOST RECENT USE, BACK TO JANUARY 2014. USE NAMES OF CHILDREN, DATES OF BIRTH, AND PERIODS OF PREGNANCY AS REFERENCE POINTS. |  |  |  |  |  |  |
|  |  | COLUMN 1 |  | COLUMN 2 |  | COLUMN 3 |  |
| 312A | MONTH AND YEAR OF START OF INTERVAL OF USE OR NON-USE. | MONTH |  | $$ |  |  |  |
| 312B | Between (EVENT) in (MONTH/YEAR) and (EVENT) in (MONTH/YEAR), did you or your partner use any method of contraception? | $\begin{array}{cccc}\text { YES } & \ldots \ldots \ldots \ldots \ldots & 1 \\ \text { NO } & \ldots \ldots \ldots \ldots \ldots & 2 \\ & & (\text { SKIP TO 312I) } & \longleftarrow\end{array}$ |  | $\begin{array}{cccc}\text { YES } & \ldots \ldots \ldots \ldots \ldots & 1 \\ \text { NO } & \ldots \ldots \ldots \ldots \ldots & 2 \\ & & \\ & (\text { SKIP TO } 312 I) & \end{array}$ |  | YES $\ldots \ldots \ldots \ldots \ldots$ 1  <br> NO $\ldots \ldots \ldots \ldots \ldots$ 2  <br>  $($ SKIP TO 3121$)$   |  |
| 312C | Which method was that? | METHOD CODE .. $\square$ |  | METHOD CODE .. $\square$ |  | METHOD CODE |  |
| 312D | How many months after (EVENT) in (MONTH/YEAR) did you start to use (METHOD)? <br> CIRCLE '95' IF RESPONDENT GIVES THE DATE OF STARTING TO USE THE METHOD. |  |  |  |  |  |  |
| 312E | RECORD MONTH AND YEAR RESPONDENT STARTED USING METHOD. |  |  | $\overline{Y E A}$ |  | $\overline{\mathrm{YEA}}$ |  |
| 312F | For how many months did you use (METHOD)? <br> CIRCLE '95' IF RESPONDENT GIVES THE DATE OF TERMINATION OF USE. | MONTHS $\square$ <br> (SKIP TO 312H) <br> DATE GIVEN |  | MONTHS <br> DATE GIVEN |  | MONTHS |  |
| 312G | RECORD MONTH AND YEAR RESPONDENT STOPPED USING METHOD. |  |  |  |  | MONTH |  |
| 312 H | Why did you stop using (METHOD)? | REASON STOPPED |  | REASON STOPPED |  | REASON STOPPED |  |
| 3121 |  | GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313. |  | GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313. |  | GO BACK TO 312A IN NEW QUESTIONNAIRE; OR, IF NO MORE GAPS, GO TO 313. |  |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 313 | CHECK THE CALENDAR FOR USE OF ANY CONTRAC <br> NO METHOD USED $\square$ | TIVE METHOD IN ANY MONTH ANY METHOD USED $\square$ | 315 |
| 314 | Have you ever used anything or tried in any way to delay or avoid getting pregnant? |  | $\longrightarrow 326$ |
| 315 | CHECK 304: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  | $\begin{array}{\|c} \longrightarrow 326 \\ \longrightarrow 319 \\ \\ \longrightarrow 327 \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array}$ |
| 316 | You first started using (CURRENT METHOD) in (DATE FROM 309). Where did you get it at that time? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. <br> (NAME OF PLACE) |  |  |
| 317 | CHECK 304: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  | $\begin{aligned} & \longrightarrow 323 \\ & \rightarrow 322 \\ & \rightarrow 323 \end{aligned}$ |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 318 | At that time, were you told about side effects or problems you might have with the method? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\begin{array}{\|l} \longrightarrow 321 \\ \longrightarrow 320 \end{array}$ |
| 319 | When you got sterilized, were you told about side effects or problems you might have with the method? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 321$ |
| 320 | Were you ever told by a health or family planning worker about side effects or problems you might have with the method? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 322$ |
| 321 | Were you told what to do if you experienced side effects or problems? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 322 | CHECK 318 AND 319: | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 NO . . . . . . . . . . . . . | $\rightarrow 324$ |
| 323 | Were you ever told by a health or family planning worker about other methods of family planning that you could use? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 324 | CHECK 304: <br> CIRCLE METHOD CODE: <br> IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST. |  | $\rightarrow 327$ <br> $\longrightarrow 327$ <br> $\longrightarrow 327$ |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 325 | Where did you obtain (CURRENT METHOD) the last time? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. <br> (NAME OF PLACE) | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL. . . . . . . . . . . . . . . . 11 <br> GOVERNMENT HEALTH CENTER ........ 12 <br> GOVERNMENT HEALTH CLINIC ........ 13 <br> MOBILE CLINIC .............................. 14 <br> OTHER PUBLIC SECTOR $\qquad$ <br> (SPECIFY) <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/ <br> CENTER/ CLINIC ......................... 21 <br> PHARMACY .............................. 22 <br> PRIVATE DOCTOR ............................ 23 <br> PLANNED PARENTHOOD ASSN. LIB. ..... 24 <br> MOBILE CLINIC ............................. 25 <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ <br> OTHER SOURCE <br> SHOP/MARKET ............................ 31 <br> CHURCH .................................. 32 <br> FRIEND/RELATIVE . ............................. . 33 <br> OTHER $\qquad$ | $\rightarrow_{327}$ |
| 326 | Do you know of a place where you can obtain a method of family planning? |  |  |
| 327 | In the last 12 months, were you visited by a fieldworker? |  | $\rightarrow 329$ |
| 328 | Did the fieldworker talk to you about family planning? |  |  |
| 329 | CHECK 202: CHILDREN LIVING WITH <br> THE RESPONDENT <br> a) In the last 12 months, have you visited a health facility for care for yourself or your children? <br> b) In the last 12 months, have you visited a health facility for care for yourself? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 401$ |
| 330 | Did any staff member at the health facility speak to you about family planning methods? |  |  |




SECTION 4. PREGNANCY AND POSTNATAL CARE


SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: |
| 426 | When (NAME) was born, was (NAME) very big, bigger than normal, normal, smaller than normal, or very small? |  | VERY BIG $\ldots \ldots \ldots \ldots \ldots$ 1 <br> BIGGER THAN  $\ldots \ldots \ldots$ <br> NORMAL $\ldots \ldots \ldots \ldots \ldots$ 2 <br> NORMAL $\ldots \ldots \ldots \ldots$ 3 <br> SMALLER THAN   <br> NORMAL $\ldots \ldots \ldots \ldots \ldots$ 4 <br> VERY SMALL $\ldots \ldots \ldots \ldots \ldots$ 5 <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ 8 |
| 427 | Was (NAME) weighed at birth? |  |  |
| 428 | How much did (NAME) weigh? <br> RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE. | KG FROM CARD $\square$ $\square$ <br> KG FROM RECALL | KG FROM CARD $\square$ $\square$ <br> KG FROM RECALL |
| 429 | Who assisted with the delivery of (NAME)? <br> Anyone else? <br> PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. <br> IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY. | HEALTH PERSONNEL <br> DOCTOR .............. A <br> NURSE/MIDWIFE ......... B <br> PHYSICIAN ASSISTANT .. C <br> OTHER PERSON <br> TRADITIONAL BIRTH MIDWIFE <br> RELATIVE/FRIEND $\qquad$ D <br> OTHER $\qquad$ $\square$ | HEALTH PERSONNEL <br> DOCTOR .............. A <br> NURSE/MIDWIFE $\qquad$ <br> PHYSICIAN ASSISTANT .. C <br> OTHER PERSON <br> TRADITIONAL BIRTH MIDWIFE <br> RELATIVE/FRIEND $\qquad$ <br> OTHER $\qquad$ $\square$ |
| 430 | Where did you give birth to (NAME)? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE


SECTION 4. PREGNANCY AND POSTNATAL CARE

|  |  | LAST BIRTH |  | NEXT-TO-LAST BIRTH |
| :---: | :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | NAME |  | NAME |
| 434B | CHECK 430: PLACE OF DELIVERY |  | OTHER |  |
| 435 | 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 while you were still in the facility? | YES <br> NO <br> (SKIP | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ 438) \stackrel{ }{\rightleftarrows} \end{array}$ |  |
| 436 | How long after delivery did the first check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS ......... 1 <br> DAYS ........... 2 <br> WEEKS ......... 3 <br> DON'T KNOW |   <br>   <br> . . . . . 998 |  |
| 437 | Who checked on your health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. | HEALTH PERSONNEL <br> DOCTOR . . . . . . . <br> NURSE/MIDWIFE <br> PHYSICIAN ASSIS <br> OTHER PERSON <br> TRADITIONAL BIRTH MIDWIFE <br> OTHER $\qquad$ | $\begin{array}{cccc} \ldots & . & 11 \\ \ldots . . & . & 12 \\ \text { NT } & . . & 13 \end{array}$ <br> ...... 21 $\overline{Y)}^{96}$ |  |
| 438 | Now I would like to talk to you about checks on (NAME)'s health after delivery - for example, someone examining (NAME), checking the cord, or seeing if (NAME) is OK. Did anyone check on (NAME)'s health while you were still in the facility? | YES <br> NO <br> (SKIP <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ 441) \longleftarrow & 8 \\ \ldots \ldots & 8 \end{array}$ |  |
| 439 | How long after delivery was (NAME)'s health first checked? <br> IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS ......... 1 <br> DAYS ........... 2 <br> WEEKS ......... 3 <br> DON'T KNOW |   <br>   <br>   <br> 998 |  |
| 440 | Who checked on (NAME)'s health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. | HEALTH PERSONNEL <br> DOCTOR $\qquad$ <br> NURSE/MIDWIFE <br> PHYSICIAN ASSIST <br> OTHER PERSON <br> TRADITIONAL BIRT MIDWIFE <br> OTHER $\qquad$ | $\begin{array}{lll} \ldots & . . . & 11 \\ \ldots \ldots & . & 12 \\ \text { NT } & . . & 13 \end{array}$ $\ldots . . .$ $\overline{Y)} 96$ |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME $\qquad$ | NEXT-TO-LAST BIRTH <br> NAME $\qquad$ |
| :---: | :---: | :---: | :---: |
| 441 | Now I want to talk to you about what happened after you left the facility. Did anyone check on your health after you left the facility? |  |  |
| 442 | How long after delivery did that check take place? <br> IF LESS THAN ONE DAY, RECORD HOURS; <br> IF LESS THAN ONE WEEK, RECORD DAYS. | HOURS <br> DAYS <br> WEEKS <br> DON'T KNOW <br> 998 |  |
| 443 | Who checked on your health at that time? <br> PROBE FOR MOST QUALIFIED PERSON. | HEALTH PERSONNEL <br> DOCTOR ................... . 11 <br> NURSE/MIDWIFE ......... 12 <br> PHYSICIAN ASSISTANT .. 13 <br> OTHER PERSON <br> TRADITIONAL BIRTH <br> MIDWIFE ........... 21 <br> OTHER $\qquad$ 96 |  |
| 444 | Where did the check take place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | HOME <br> HER HOME ................ 11 <br> OTHER HOME ............ 12 <br> PUBLIC SECTOR <br> GOVERNMENT HOSPITAL . . 21 <br> GOVERNMENT HEALTH <br> CENTER ............... 22 <br> GOVERNMENT HEALTH <br> CLINIC .............. 23 <br> OTHER PUBLIC SECTOR $\qquad$ <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/ <br> CENTER/ CLINIC ..... 31 <br> OTHER PRIVATE <br> MEDICAL SECTOR $\qquad$ <br> (SPECIFY) <br> OTHER $\qquad$ 96 |  |

SECTION 4. PREGNANCY AND POSTNATAL CARE


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SECTION 4. PREGNANCY AND POSTNATAL CARE


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501A | CHECK 215 IN THE BIRTH HISTORY: ANY BIRTHS IN ONE OR MORE BIRTHS IN 2016-2020 $\square$ | 16-2020? <br> NO BIRTHS IN 2016-2020 | $\rightarrow 601$ |
| 502A | RECORD THE NAME AND BIRTH HISTORY NUMBER <br> NAME OF LAST BIRTH $\qquad$ | ROM 212 OF THE LAST CHILD BORN IN 2016-2020. <br> BIRTH HISTORY NUMBER $\qquad$ $\square$ |  |
| 503A | CHECK 216 FOR CHILD: <br> LIVING | DEAD | $\rightarrow$ 501B |
| 504A | Do you have a card or other document where (NAME)'s vaccinations are written down? | YES, HAS ONLY A CARD . ...................... 1 <br> YES, HAS ONLY AN OTHER DOCUMENT ..... 2 <br> YES, HAS CARD AND OTHER DOCUMENT ..... 3 <br> NO, NO CARD AND NO OTHER DOCUMENT . . 4 | $\begin{array}{\|l} \longrightarrow 507 \mathrm{~A} \\ \longrightarrow 507 \mathrm{~A} \end{array}$ |
| 505A | Did you ever have a vaccination card for (NAME)? | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$. |  |
| 506A | CHECK 504A: CODE '2' CIRCLED | CODE '4' CIRCLED | $\rightarrow$ 511A |
| 507A | May I see the card or other document where (NAME)'s vaccinations are written down? | YES, ONLY CARD SEEN ...................... 1 <br> YES, ONLY OTHER DOCUMENT SEEN ........ 2 <br> YES, CARD AND OTHER DOCUMENT SEEN 3 <br> NO CARD AND NO OTHER DOCUMENT SEEN .. 4 | $\longrightarrow 511 \mathrm{~A}$ |



SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
|  | NAME OF LAST BIRTH | BIRTH HISTORY NUMBER . |  |  |
| 511A | Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? | YES <br> NO <br> DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ | $\rightarrow$ 525A |
| 512A | Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? | $\begin{array}{ll} \text { YES } & \ldots . . . \\ \text { NO } & \ldots \\ \text { DON'T KNOW } \end{array}$ | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 514A | Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? | $\begin{array}{ll} \text { YES } & \ldots \\ \text { NO } & \ldots \\ \text { DON'T } . . \end{array}$ |  | $\longrightarrow 517 \mathrm{~A}$ |
| 515A | Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later? | FIRST TWO WEEKS LATER | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 516A | How many times did (NAME) receive the oral polio vaccine? | NUMBER OF TIMES |  |  |
| 516A1 | The last time (NAME) received the polio drops, did (NAME) also get an IPV injection in the arm to protect against polio? | YES <br> NO <br> DON'T KNOW |  |  |
| 517A | Has (NAME) ever received a pentavalent vaccination, that is, an injection given in the left thigh at the same time as polio drops? | YES <br> NO <br> DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ | 519A |
| 518A | How many times did (NAME) receive the pentavalent vaccine? | NUMBER OF TIMES |  |  |
| 519A | Has (NAME) ever received a pneumococcal vaccination, that is, an injection in the right thigh to prevent pneumonia? | YES <br> NO <br> DON'T KNOW |  | $\rightarrow 521 \mathrm{~A}$ |
| 520A | How many times did (NAME) receive the pneumococcal vaccine? | NUMBER OF TIMES |  |  |
| 521A | Has (NAME) ever received a rotavirus vaccination, that is, liquid in the mouth to prevent diarrhea? | YES <br> NO <br> DON'T KNOW |  | $\rightarrow$ 523A |
| 522A | How many times did (NAME) receive the rotavirus vaccine? | NUMBER OF TIMES |  |  |
| 523A | Has (NAME) ever received a measles vaccination, that is, an injection in the left arm to prevent measles? | YES <br> NO <br> DON'T KNOW |  | $\xrightarrow{\rightarrow}$ |
| 524A | How many times did (NAME) receive the measles vaccine? | NUMBER OF TIMES |  |  |
| 524AA | Has (NAME) ever received a yellow fever injection, that is, an injection in the right arm at the age of 9 months or older to prevent him/her from getting yellow fever? | YES <br> NO <br> DON'T KNOW |  |  |

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501B | CHECK 215 IN THE BIRTH HISTORY: ANY MORE BIR MORE BIRTHS IN 2016-2020 $\square$ NO | IN 2016-2020? <br> E BIRTHS IN 2016-2020 | $\rightarrow 601$ |
| 502B | RECORD THE NAME AND BIRTH HISTORY NUMBER 2020. <br> NAME OF NEXT-TO- <br> LAST BIRTH $\qquad$ | M 212 OF THE NEXT-TO-LAST CHILD BORN IN 2016- <br> BIRTH HISTORY NUMBER $\qquad$ $\square$ |  |
| 503B | CHECK 216 FOR CHILD: <br> LIVING | DEAD | 526B |
| 504B | Do you have a card or other document where (NAME)'s vaccinations are written down? | $\begin{array}{ll} \text { YES, HAS ONLY A CARD } \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . ~ & 1 \\ \text { YES, HAS ONLY AN OTHER DOCUMENT } & \ldots \\ \text { YES, HAS CARD AND OTHER DOCUMENT ..... } & 2 \\ \text { NO, NO CARD AND NO OTHER DOCUMENT } & . . \\ \hline \end{array}$ | $\begin{aligned} & \longrightarrow 507 \mathrm{~B} \\ & \longrightarrow 507 \mathrm{~B} \end{aligned}$ |
| 505B | Did you ever have a vaccination card for (NAME)? |  |  |
| 506B | CHECK 504B: <br> CODE '2' CIRCLED | CODE '4' CIRCLED | $\rightarrow 511 \mathrm{~B}$ |
| 507B | May I see the card or other document where (NAME)'s vaccinations are written down? |  | $\rightarrow 511 \mathrm{~B}$ |



SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
|  | NAME OF NEXT-TO- <br> LAST BIRTH $\qquad$ | BIRTH HISTORY NUMBER |  |  |
| 511B | Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? | YES <br> NO DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ | $\rightarrow$ 525B |
| 512B | Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? | $\begin{array}{ll} \text { YES } & \ldots \\ \text { NO } & \ldots \\ \text { DON' . . . . } \\ \hline \end{array}$ | 1 2 8 |  |
| 514B | Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\rightarrow 517 \mathrm{~B}$ |
| 515B | Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later? | FIRST TWO WEEKS LATER | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 516B | How many times did (NAME) receive the oral polio vaccine? | NUMBER OF TIMES |  |  |
| 516B1 | The last time (NAME) received the polio drops, did (NAME) also get an IPV injection in the arm to protect against polio? | YES <br> NO <br> DON'T KNOW | 1 2 8 |  |
| 517B | Has (NAME) ever received a pentavalent vaccination, that is, an injection given in the left thigh at the same time as polio drops? | YES <br> NO DON'T KNOW | 1 2 8 | $\rightarrow 519 \mathrm{~B}$ |
| 518B | How many times did (NAME) receive the pentavalent vaccine? | NUMBER OF TIMES |  |  |
| 519B | Has (NAME) ever received a pneumococcal vaccination, that is, an injection in the right thigh to prevent pneumonia? | YES <br> NO DON'T KNOW | 1 2 8 | $\rightarrow$ 521B |
| 520B | How many times did (NAME) receive the pneumococcal vaccine? | NUMBER OF TIMES |  |  |
| 521B | Has (NAME) ever received a rotavirus vaccination, that is, liquid in the mouth to prevent diarrhea? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\rightarrow$ 523B |
| 522B | How many times did (NAME) receive the rotavirus vaccine? | NUMBER OF TIMES |  |  |
| 523B | Has (NAME) ever received a measles vaccination, that is, an injection in the left arm to prevent measles? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\xrightarrow{\longrightarrow} 525 \mathrm{~B}$ |
| 524B | How many times did (NAME) receive the measles vaccine? | NUMBER OF TIMES |  |  |
| 524BB | Has (NAME) ever received a yellow fever injection, that is, an injection in the right arm at the age of 9 months or older to prevent him/her from getting yellow fever? | YES <br> NO <br> DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |

SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NAME OF NEXT-TOLAST BIRTH | BIRTH HISTORY NUMBER . . . . . . . . . $\square$ |  |  |  |  |
| 525B | In the last 7 days was (NAME) given: <br> a) A powder that came in a sachet that looked like this? <br> SHOW SACHET TO RESPONDENT. <br> b) PlumpyNut / Peanut butter? | a) Powder <br> b) PlumpyNut / Peanut butter | YES <br> 1 <br> 1 | NO <br> 2 <br> 2 | DK <br> 8 <br> 8 |  |
| 526B | CHECK 215 IN BIRTH HISTORY: ANY MORE BIR | NO MORE BIRTHS <br> IN 2016-2020 |  |  |  | 601 |

SECTION 6. CHILD HEALTH AND NUTRITION

| 601 |  |  |  |
| :---: | :---: | :---: | :---: |
| 602 | CHECK 215: RECORD THE BIRTH HISTORY NUMBER IN 603 AND THE NAME AND SURVIVAL STATUS IN 604 FOR EACH BIRTH IN 2014-2020. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. <br> IF THERE ARE MORE THAN 2 BIRTHS, USE LAST COLUMN OF ADDITIONAL QUESTIONNAIRE(S)." <br> Now I would like to ask some questions about your children born in the last five years. (We will talk about each separately.) |  |  |
| 603 | BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY. | LAST BIRTH <br> BIRTH <br> HISTORY <br> NUMBER $\qquad$ | NEXT-TO-LAST BIRTH <br> BIRTH <br> HISTORY <br> NUMBER |
| 604 | FROM 212 AND 216: | NAME $\qquad$ <br> LIVING | NAME |
| 605 | In the last six months, was (NAME) given a vitamin A dose like [this/any of these]? <br> SHOW COMMON TYPES OF CAPSULES. |  | YES $\ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\quad \ldots \ldots \ldots \ldots \ldots \ldots$ 2  <br> DONT KNOW $\ldots \ldots \ldots \ldots \ldots$ 8 |
| 606 | In the last seven days, was (NAME) given iron pills or iron syrup like [this/any of these]? <br> SHOW COMMON TYPES OF PILLS/SYRUPS. |  | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ 2 <br> DONT KNOW $\ldots \ldots \ldots \ldots .$. 8 |
| 607 | Was (NAME) given any worm medicine in the last six months? | $\begin{array}{lcrl}\text { YES } & \ldots \ldots \ldots \ldots \ldots \ldots & \\ \text { NO } & \ldots \ldots \ldots \ldots \ldots \ldots \ldots & \\ \text { DONTT KNOW } & \ldots \ldots \ldots \ldots \ldots & 8\end{array}$ | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ 2 <br> DONTKNOW $\ldots \ldots \ldots \ldots$ 8 |
| 608 | Has (NAME) had running stomach in the last 2 weeks? |  | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW SKIP TO 618$)$ <br> $\ldots \ldots \ldots \ldots$ 8 |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH NAME |
| :---: | :---: | :---: | :---: |
| 609 | CHECK 469: CURRENTLY BREASTFEEDING? <br> a) Now I would like to know how much (NAME) was given to drink during the running stomach including titi water. Was (NAME) given less than usual to drink, about the same amount, or more than usual to drink? <br> IF LESS, PROBE: Was (NAME) given much less than usual to drink or somewhat less? <br> NO/ NOT ASKED <br> b) Now I would like to know how much (NAME) was given to drink during the running stomach. Was (NAME) given less than usual to drink, about the same amount, or more than usual to drink? <br> IF LESS, PROBE: Was (NAME) given much less than usual to drink or somewhat less? |  |  |
| 610 | When (NAME) had running stomach, was (NAME) given less than usual to eat, about the same amount, more than usual, or nothing to eat? <br> IF LESS, PROBE: Was (NAME) given much less than usual to eat or somewhat less? | MUCH LESS . . . . . . . . . . . . . . . 1 <br> SOMEWHAT LESS . . . . . . . 2 <br> ABOUT THE SAME . . . . . . . . . 3 <br> MORE . . . . . . . . . . . 4 <br> STOPPED FOOD . . . . . . 5 <br> NEVER GAVE FOOD . . . . . . 6 <br> DON'T KNOW . . . . . . . . . . 8 |  |
| 611 | Did you seek advice or treatment for the running stomach from any source? | YES $\ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$$\quad 1$ | YES $\ldots \ldots \ldots \ldots \ldots \ldots$ 1   <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ 2   <br>  $($ SKIP TO 615$) \longleftarrow$    |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME |
| :---: | :---: | :---: | :---: |
| 612 | Where did you seek advice or treatment? <br> Anywhere else? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE(S). |  |  |
| 613 | CHECK 612: | TWO OR ONLY <br> MORE ONE <br> CODES CODE <br> CIRCLED CIRCLED <br> $\square$ $($ SKIP TO 615 $) \longleftarrow$ | TWO OR ONLY <br> MORE ONE <br> CODES CODE <br> CIRCLED CIRCLED <br> $\square$ $($ SKIP TO 615) |
| 614 | Where did you first seek advice or treatment? <br> USE LETTER CODE FROM 612. | FIRST PLACE $\ldots \ldots . . . \begin{array}{r} \\ \end{array}$ | FIRST PLACE $\ldots . . . . .$. |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | LAST BIRTH |  | NEXT-TO-LAST BIRTH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 615 | Was (NAME) given any of the following at any time since (NAME) started having the running stomach: <br> a) A fluid made from a special packet called ORS? <br> b) A government-recommended homemade fluid? <br> c) Zinc tablets or syrup? | a) FLUID FROM ORS PACKET .. 1 <br> b) HOMEMADE <br> FLUID..... 1 <br> c) ZINC | NO DK <br>   <br> 2 8 <br> 2 8 <br> 2 8 | YES <br> a) FLUID FROM ORS PACKET .. 1 <br> b) HOMEMADE <br> FLUID...... 1 <br> c) $\operatorname{ZINC} \ldots \ldots .1$ | $\mathrm{NO}$ <br> 2 $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | DK <br> 8 <br> 8 <br> 8 |
| 616 | CHECK 615: <br> ANY 'YES' <br> a) Was anything else given to treat the running stomach? <br> ALL 'NO' <br> OR 'DK' <br> b) Was anything given to treat the running stomach? | YES <br> NO <br> (SKIP <br> DON'T KNOW | $\left.\begin{array}{ll} \ldots & 1 \\ \ldots & 2 \\ 8) \leftarrow & \\ \ldots & 8 \end{array}\right]$ | YES <br> NO <br> (SKIP <br> DON'T KNOW |  | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |
| 617 | CHECK 615: <br> ANY 'YES' <br> a) What else was given to treat the running stomach? <br> Anything else? <br> ALL 'NO' OR 'DK' <br> b) What was given to treat the running stomach? <br> Anything else? | PILL OR SYRUP <br> ANTIBIOTIC <br> FLAGYL <br> OTHER (NOT ANTIB OR ANTIMOTILIT <br> UNKNOWN PILL OR SYRUP <br> INJECTION <br> ANTIBIOTIC $\qquad$ <br> NON-ANTIBIOTIC <br> UNKNOWN <br> INJECTION <br> (IV) INTRAVENOUS $\qquad$ <br> HOME REMEDY/ <br> HERBAL MEDICINE <br> OTHER $\qquad$ | ..... A <br> .... B <br> IC <br> ..... C <br> .... D <br> $\begin{array}{ll}\ldots & E \\ \ldots & F\end{array}$ <br> $\ldots$ G <br> .... H <br> .... । <br> X | PILL OR SYRUP <br> ANTIBIOTIC <br> FLAGYL <br> OTHER (NOT ANTIB OR ANTIMOTILIT <br> UNKNOWN PILL OR SYRUP <br> INJECTION <br> ANTIBIOTIC <br> NON-ANTIBIOTIC <br> UNKNOWN <br> INJECTION <br> (IV) INTRAVENOUS <br> HOME REMEDY/ <br> HERBAL MEDICINE <br> OTHER | TIC | A <br> B <br> C <br> D <br> $E$ $F$ <br> G <br> H <br> I <br> X |
| 618 | Has (NAME) been ill with a fever at any time in the last 2 weeks? |  |  |  |  |  |
| 619 | At any time during the illness, did (NAME) have blood taken from (NAME)'s finger or heel for testing? |  |  |  |  |  |
| 620 | Has (NAME) had an illness with a cough at any time in the last 2 weeks? |  |  |  |  |  |
| 621 | Has (NAME) had fast, short, rapid breaths or difficulty breathing at any time in the last 2 weeks? |  |  |  |  |  |

SECTION 6. CHILD HEALTH AND NUTRITION


SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME |
| :---: | :---: | :---: | :---: |
| 627 | Where did you first seek advice or treatment? <br> USE LETTER CODE FROM 625. | FIRST PLACE $\square$ | FIRST PLACE |
| 628 | How many days after the illness began did you first seek advice or treatment for (NAME)? <br> IF THE SAME DAY RECORD ‘ 00 ’. | DAYS | DAYS |
| 629 | At any time during the illness, did (NAME) take any drugs for the illness? |  | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW $\quad \ldots \ldots \ldots \ldots \ldots$ 8  |
| 630 | What drugs did (NAME) take? <br> Any other drugs? <br> RECORD ALL MENTIONED. <br> IF AMODIAQUINE IS MENTIONED, PROBE TO CLARIFY IF IT IS AN ACT. | ANTIMALARIAL DRUGS ARTEMISININ COMBINATION <br> THERAPY (ACT) ..... A <br> SP/FANSIDAR ........... B <br> CHLOROQUINE . . . . . . . . . . C <br> AMODIAQUINE ........... D <br> QUININE <br> PILLS .................. E <br> INJECTION/IV ....... F <br> ARTESUNATE <br> RECTAL ............... G <br> INJECTION/IV ....... H <br> OTHER ANTIMALARIAL $\qquad$ 1 <br> (SPECIFY) <br> ANTIBIOTIC DRUGS <br> PILL/SYRUP ................ J <br> INJECTION/IV ........... K <br> OTHER DRUGS <br> ASPIRIN ................... L <br> PARACETAMOL ........ M <br> IBUPROFEN . . . . . . . . . . . . . N <br> OTHER $\qquad$ X | ANTIMALARIAL DRUGS <br> ARTEMISININ COMBINATION <br> THERAPY (ACT) ..... A <br> SP/FANSIDAR ............ B <br> CHLOROQUINE ............ C <br> AMODIAQUINE ........... D <br> QUININE <br> PILLS .................. E <br> INJECTION/IV ....... F <br> ARTESUNATE <br> RECTAL .............. G <br> INJECTION/IV ....... H <br> OTHER ANTIMALARIAL $\qquad$ <br> ANTIBIOTIC DRUGS <br> PILL/SYRUP ............... J <br> INJECTION/IV ............ K <br> OTHER DRUGS <br> ASPIRIN ................... L <br> PARACETAMOL ........ M <br> IBUPROFEN ............... $N$ <br> OTHER $\qquad$ X |
| 631 | CHECK 630: <br> ANY CODE A-I CIRCLED? |  | $\begin{array}{lc}\text { YES } & \text { NO } \square \\ \square \square & \\ \square & \text { (SKIP TO 646) }\end{array}$ |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | LAST BIRTH <br> NAME | NEXT-TO-LAST BIRTH <br> NAME |
| :---: | :---: | :---: | :---: |
| 632 | CHECK 630: <br> ARTEMISININ COMBINATION <br> THERAPY ('A') GIVEN |  |  |
| 633 | How long after the fever started did (NAME) first take an artemisinin combination therapy? |  | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> 1 <br> DON'T KNOW $\ldots \ldots \ldots$ |
| 634 | CHECK 630: <br> SP/FANSIDAR ('B') GIVEN |  |  |
| 635 | How long after the fever started did (NAME) first take SP/Fansidar? | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> 1 <br> DONT KNOW $\ldots \ldots \ldots$ | SAME DAY $\ldots \ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> DON'T KNOW $\ldots \ldots \ldots$. |
| 636 | CHECK 630: <br> CHLOROQUINE ('C') GIVEN |  |  |
| 637 | How long after the fever started did (NAME) first take chloroquine? | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ 0 <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ 1 <br> TWO DAYS AFTER  <br> FEVER $\ldots \ldots \ldots \ldots$ 2 <br> THREE OR MORE DAYS  <br> AFTER FEVER $\ldots \ldots \ldots$ 3 <br> DONT KNOW $\ldots \ldots \ldots \ldots$ 8 | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> 1 <br> DON'T KNOW $\ldots \ldots \ldots$ |
| 638 | CHECK 630: <br> AMODIAQUINE ('D') GIVEN |  |  |
| 639 | How long after the fever started did (NAME) first take amodiaquine? | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ 0 <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ 1 <br> TWO DAYS AFTER  <br> FEVER $\ldots \ldots \ldots \ldots$. 2 <br> THREE OR MORE DAYS  <br> AFTER FEVER $\ldots \ldots \ldots$  <br> DON'T KNOW $\ldots \ldots \ldots \ldots$. 8 |  |

SECTION 6. CHILD HEALTH AND NUTRITION

| NO. | QUESTIONS AND FILTERS | NAME | NAME |
| :---: | :---: | :---: | :---: |
| 640 | CHECK 630: <br> QUININE ('E' OR 'F') GIVEN |  |  |
| 641 | How long after the fever started did (NAME) first take quinine? |  | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> 1 <br> DON'T KNOW $\ldots \ldots \ldots$ |
| 642 | CHECK 630: <br> ARTESUNATE ('G' OR 'H') GIVEN |  |  |
| 643 | How long after the fever started did (NAME) first take artesunate? |  | SAME DAY $\ldots \ldots \ldots \ldots \ldots$ <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER <br> 1 <br> DON'T KNOW $\ldots \ldots \ldots$. |
| 644 | CHECK 630: <br> OTHER ANTIMALARIAL ('I') GIVEN |  |  |
| 645 | How long after the fever started did (NAME) first take (OTHER ANTIMALARIAL)? | SAME DAY $\ldots \ldots \ldots \ldots \ldots$. <br> NEXT DAY $\ldots \ldots \ldots \ldots \ldots$ <br> TWO DAYS AFTER <br> FEVER $\ldots \ldots \ldots \ldots \ldots$ <br> THREE OR MORE DAYS <br> AFTER FEVER $\ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots$ |  |
| 646 |  | GO BACK TO 604 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 647. | GO TO 604 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 647. |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 647 | CHECK 615(a), ALL COLUMNS: <br> NO CHILD <br> RECEIVED FLUID <br> FROM ORS PACKET | ANY CHILD RECEIVED FLUID $\square$ FROM ORS PACKET | $\rightarrow 649$ |
| 648 | Have you ever heard of a special product called ORS or oral rehydration salts you can get for the treatment of running stomach? | YES <br> NO |  |
| 649 | CHECK 215 AND 218, ALL ROWS: NUMBER OF CHILDREN BORN IN 2017-2020 LIVING WITH THE RESPONDENT" <br> ONE OR MORE <br> NONE $\square$ |  | $\rightarrow 701$ |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 651 | CHECK 650 (CATEGORIES ' $g$ ' THROUGH 'v'): <br> NOT A SINGLE 'YES' | TT ONE 'YES | $\rightarrow 653$ |
| 652 | Did (NAME FROM 649) eat any solid, semi-solid, or soft foods yesterday during the day or at night? <br> IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME) eat? |  | $\rightarrow 654$ |
| 653 | How many times did (NAME FROM 649) eat solid, semisolid, or soft foods yesterday during the day or at night? <br> IF 7 OR MORE TIMES, RECORD '7'. | NUMBER OF TIMES $\square$ <br> DON'T KNOW |  |
| 654 | The last time (NAME FROM 649) passed stools, what was done to dispose of the stools? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 701 | Are you currently married or living together with a man as if married? | YES, CURRENTLY MARRIED YES, LIVING WITH A MAN NO, NOT IN UNION | $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | $\xrightarrow{ } 704$ |
| 702 | Have you ever been married or lived together with a man as if married? | YES, FORMERLY MARRIED YES, LIVED WITH A MAN No | $3$ | $\rightarrow 712$ |
| 703 | What is your marital status now: are you widowed, divorced, or separated? | WIDOWED DIVORCED SEPARATED | 3 | $\nrightarrow 709$ |
| 704 | Is your (husband/partner) living with you now or is he staying elsewhere? | LIVING WITH HER . . ..... STAYING ELSEWHERE | 2 |  |
| 705 | 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 $\qquad$ <br> LINE NO. $\qquad$ |  |  |
| 706 | Does your (husband/partner) have other wives or does he live with other women as if married? | YES <br> NO DON'T KNOW | 2 8 | $\rightarrow 709$ |
| 707 | Including yourself, in total, how many wives or live-in partners does he have? | TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS DON'T KNOW |  |  |
| 708 | Are you the first, second, ... wife? | RANK |  |  |
| 709 | Have you been married or lived with a man only once or more than once? | ONLY ONCE <br> MORE THAN ONCE |  |  |
| 710 | CHECK 709: <br> MARRIED/ <br> LIVED WITH A MAN <br> ONLY ONCE <br> a) In what month and year did you start living with your (husband/partner)? <br> MARRIED/ <br> LIVED WITH A <br> MAN MORE $\square$ <br> b) Now I would like to ask about your first (husband/partner). In what month and year did you start living with him? | MONTH <br> DON'T KNOW MONTH <br> YEAR <br> DON'T KNOW YEAR |  | $\xrightarrow{ } 712$ |
| 711 | How old were you when you first started living with him? | AGE |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 712 | CHECK FOR PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY. |  |  |  |
| 713 | 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 did man business for the very first time? | NEVER HAD SEXUAL <br> INTERCOURSE <br> AGE IN YEARS | $\ldots . . .00$ | $\longrightarrow 731$ |
| 714 | I would like to ask you about your recent sexual activity. When was the last time you did man business? <br> IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO $\ldots \ldots \ldots \ldots$. 1 <br> WEEKS AGO $\ldots \ldots \ldots \ldots$. 2 <br> MONTHS AGO $\ldots \ldots \ldots \ldots$ 3 <br> YEARS AGO $\ldots \ldots \ldots \ldots$. 4 |  |  |

SECTION 7. MARRIAGE AND SEXUAL ACTIVITY


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 724 | CHECK 106: <br> AGE 15-24 $\square$ | AGE 25-49 |  | $\rightarrow 727$ |
| 725 | CHECK 701: <br> NOT $\square$ <br> IN A <br> NION | LY MARRIED/ WITH A MAN |  | $\rightarrow 727$ |
| 726 | In the past 12 months have you done man business or been sexually involved with anyone because he gave you or told you he would give you gifts, cash, or anything else? | YES NO | $\begin{array}{ll} \ldots \ldots \ldots & 1 \\ \ldots \ldots \ldots & 2 \end{array}$ |  |
| 727 | In total, with how many different people have you done man business in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'. | NUMBER OF PARTNERS <br> IN LIFETIME <br> DON'T KNOW |  |  |
| 731 | PRESENCE OF OTHERS DURING THIS SECTION. | CHILDREN <10 MALE ADULTS FEMALE ADULTS | YES NO <br> 1 2 <br> 1 2 <br> 1 2 |  |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 801 | CHECK 304: <br> NEITHER $\square$ STERILIZED | HE OR SHE STERILIZED | $\rightarrow 813$ |
| 802 | CHECK 226: <br> PREGNANT $\square$ | 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 NO MORE UNDECIDED/DON'T KNOW | $\begin{aligned} & \longrightarrow 805 \\ & \longrightarrow \\ & \longrightarrow \end{aligned}$ |
| 804 | Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children? | HAVE (A/ANOTHER) CHILD NO MORE/NONE SAYS SHE CAN'T GET PREGNANT UNDECIDED/DON'T KNOW | $\begin{array}{\|l} \longrightarrow 807 \\ \longrightarrow 813 \\ \longrightarrow 811 \end{array}$ |
| 805 | CHECK 226: <br> NOT PREGNANT OR UNSURE <br> a) How long would you like to wait from now <br> b) After the birth of the child you are expecting before the birth of now, how long would (a/another) child? you like to wait before the birth of another child? | MONTHS 1 <br> YEARS <br> 2 <br> SOON/NOW <br> SAYS SHE CAN'T GET PREGNANT <br> AFTER MARRIAGE $\qquad$ <br> OTHER $\qquad$ <br> (SPECIFY) <br> DON'T KNOW $\square$ $\qquad$ |  |
| 806 | CHECK 226: <br> NOT PREGNANT OR UNSURE | PREGNANT | $\rightarrow 812$ |
| 807 | CHECK 303: USING A CONTRACEPTIVE METHOD? $\begin{array}{r} \text { NOT } \\ \text { CURRENTLY } \\ \text { USING } \downarrow \end{array}$ | CURRENTLY <br> USING $\square$ | $\rightarrow 813$ |
| 808 | CHECK 805: | '00-23' MONTHS <br> OR '00-01' YEAR | $\rightarrow 812$ |
| 809 | CHECK 714: <br> DAYS, WEEKS OR MONTHS AGO |  | $\begin{aligned} & \longrightarrow 811 \\ & \longrightarrow 811 \end{aligned}$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 810 | CHECK 804: <br> WANTS TO HAVE \|WANTS NO MORE/ A/ANOTHER CHILD <br> a) You have said that you <br> b) You have said that you do not want (a/another) do not want any (more) child soon. Can you tell children. Can you tell me why you are not are no using a method to using a method to prevent pregnancy? prevent pregnancy? <br> Any other reason? <br> Any other reason? | NOT MARRIED <br> FERTILITY-RELATED REASONS <br> NOT HAVING SEX <br> INFREQUENT SEX <br> MENOPAUSAL/HYSTERECTOMY <br> CAN'T GET PREGNANT <br> NOT MENSTRUATED SINCE LAST BIRTH <br> BREASTFEEDING <br> UP TO GOD/FATALISTIC <br> OPPOSITION TO USE <br> RESPONDENT OPPOSED <br> HUSBAND/PARTNER OPPOSED <br> OTHERS OPPOSED <br> RELIGIOUS PROHIBITION <br> LACK OF KNOWLEDGE <br> KNOWS NO METHOD <br> KNOWS NO SOURCE <br> METHOD-RELATED REASONS <br> SIDE EFFECTS/HEALTH CONCERNS <br> LACK OF ACCESS/TOO FAR <br> COSTS TOO MUCH <br> PREFERRED METHOD <br> NOT AVAILABLE <br> NO METHOD AVAILABLE <br> INCONVENIENT TO USE <br> INTERFERES WITH BODY'S <br> NORMAL PROCESSES <br> OTHER | A <br> B <br> C <br> D <br> E <br> F <br> G <br> H <br> I <br> J <br> K <br> L <br> M <br> N <br> 0 <br> $P$ <br> Q <br> R <br> S T <br> U <br> X <br> Z |  |
| 811 | CHECK 303: USING A CONTRACEPTIVE METHOD? | YES, <br> RENTLY USING |  | 813 |
| 812 | Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future? | YES <br> NO <br> DON'T KNOW | 1 2 8 |  |
| 813 | CHECK 216: <br> a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? $\begin{aligned} & \text { NO LIVING } \\ & \text { CHILDREN } \\ & \\ & \\ & \hline \end{aligned}$ <br> b) If you could choose exactly the number of children to have in your whole life, how many would that be? <br> PROBE FOR A NUMERIC RESPONSE. | NONE <br> NUMBER <br> OTHER $\qquad$ | 00 <br> $\square$ | $815$ $-815$ |
| 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? | NUMBER . . <br> OTHER $\qquad$ |  |  |

SECTION 8. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIE |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 815 | In the last few months have you: <br> a) Heard about family planning on the radio? <br> b) Seen anything about family planning on the television? <br> c) Read about family planning in a newspaper or magazine? <br> d) Received a voice or text message about family planning on a mobile phone? | a) RADIO <br> b) TELEVISION <br> c) NEWSPAPER OR MAGAZINE <br> d) MOBILE PHONE . | YES NO <br> 1 2 <br> 1 2 <br> 1 2 <br> 1 2 |  |
| 817 | CHECK 701: | NO, <br> NOT IN A UNION |  | $\longrightarrow 901$ |
| 818 | CHECK 303: USING A CONTRACEPTIVE METHOD? <br> CURRENTLY <br> USING $\square$ $\square$ <br> NOT <br> ASKED $\square$ | $\begin{aligned} & \text { NOT } \\ & \text { ENTLY } \square \\ & \text { USING } \end{aligned}$ |  | $\begin{aligned} & \longrightarrow 820 \\ & \longrightarrow 822 \end{aligned}$ |
| 819 | Would you say that using contraception is mainly your decision, mainly your (husband's/partner's) decision, or did you both decide together? | MAINLY RESPONDENT MAINLY HUSBAND/PARTNER JOINT DECISION OTHER $\qquad$ | $\begin{array}{ll}  & \\ \cdots \cdots \cdots & 1 \\ \cdots & 2 \\ \cdots \cdots & 3 \\ & 6 \end{array}$ | $\rightarrow 821$ |
| 820 | Would you say that not using contraception is mainly your decision, mainly your (husband's/partner's) decision, or did you both decide together? | MAINLY RESPONDENT MAINLY HUSBAND/PARTNER . JOINT DECISION OTHER $\qquad$ | $\begin{array}{lr} \ldots \ldots & 1 \\ \cdots \cdots & 2 \\ \cdots \cdots & 3 \\ & 6 \end{array}$ |  |
| 821 | CHECK 304: <br> NEITHER ARE <br> STERILIZED | HE OR SHE ARE $\square$ <br> STERILIZED |  | $\longrightarrow 901$ |
| 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 <br> MORE CHILDREN <br> FEWER CHILDREN DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \cdots \cdots & 2 \\ \cdots \cdots & 3 \\ \cdots & 8 \end{array}$ |  |

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

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 901 | CHECK 701: <br> CURRENTLY MARRIED/ $\square$ LIVING WITH A MAN $\downarrow$ | NOT IN $\square$ UNION | $\rightarrow 909$ |
| 902 | How old was your (husband/partner) on his last birthday? | AGE IN COMPLETED YEARS |  |
| 903 | Did your (husband/partner) ever attend school? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 906$ |
| 904 | What was the highest level of school he attended: elementary, junior high, senior high, or higher? | ELEMENTARY (GRADES 1-6) <br> JUNIOR HIGH (GRADES 7-9) <br> SENIOR HIGH (GRADES 10-12) <br> HIGHER <br> DON'T KNOW | $\longrightarrow 906$ |
| 905 | What was the highest grade he completed at that level? <br> IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'. | GRADE <br> DON'T KNOW |  |
| 906 | Has your (husband/partner) done any work in the last 7 days? | YES <br> NO <br> DON'T KNOW | $\longrightarrow 908$ |
| 907 | Has your (husband/partner) done any work in the last 12 months? | YES <br> NO DON'T KNOW | $\xrightarrow{\rightarrow} 909$ |
| 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 seven days? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 913$ |
| 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 seven days, have you done any of these things or any other work? | YES NO | $\longrightarrow 913$ |
| 911 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, maternity leave, or any other such reason? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 913$ |
| 912 | Have you done any work in the last 12 months? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 917$ |
| 913 | What is your occupation? That is, what kind of work do you mainly do? | $\qquad$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 914 | Do you do this work for a member of your family, for someone else, or are you self-employed? |  |  |
| 915 | Do you usually work throughout the year, or do you work seasonally, or only once in a while? |  |  |
| 916 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 917 | CHECK 701: <br> CURRENTLY MARRIED/LIVING WITH A MAN | NOT IN UNION | $\rightarrow 925$ |
| 918 | CHECK 916: <br> CODE '1' OR '2' CIRCLED | OTHER | $\longrightarrow 921$ |
| 919 | Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly? |  |  |
| 920 | Would you say that the money that you earn is more than what your (husband/partner) earns, less than what he earns, or about the same? |  | $\rightarrow 922$ |
| 921 | Who usually decides how your (husband's/partner's) earnings will be used: you, your (husband/partner), or you and your (husband/partner) jointly? |  |  |
| 922 | Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else? |  |  |
| 923 | Who usually makes decisions about making major household purchases? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 924 | Who usually makes decisions about visits to your family or relatives? | RESPONDENT HUSBAND/PARTNER RESPONDENT AND HUSBAND/PARTNER JOINTLY SOMEONE ELSE OTHER | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 6 \end{aligned}$ |  |
| 925 | Do you own this or any other house either alone or jointly with someone else? | ALONE ONLY JOINTLY ONLY BOTH ALONE AND JOINTLY DOES NOT OWN |  | $\longrightarrow 928$ |
| 926 | Do you have a title deed for any house you own? | YES <br> NO <br> DON'T KNOW |  | $\longrightarrow 928$ |
| 927 | Is your name on the title deed? | YES <br> NO DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 928 | Do you own any agricultural or non-agricultural land either alone or jointly with someone else? | ALONE ONLY <br> JOINTLY ONLY <br> BOTH ALONE AND JOINTLY <br> DOES NOT OWN |  | $\longrightarrow 931$ |
| 929 | Do you have a title deed for any land you own? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 2 \end{array}$ | $\xrightarrow{\square} 931$ |
| 930 | Is your name on the title deed? | YES <br> NO <br> DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 931 | PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT) | PRES./ CHILDREN $<10 \ldots \ldots \ldots \ldots$ LISTEN. | PRES./  <br> NOT NOT <br> LISTEN. PRES. <br> 2 3 <br> 2 3 <br> 2 3 <br> 2 3 |  |
| 932 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <br> a) If she goes out without telling him? <br> b) If she neglects the children? <br> c) If she argues with him? <br> d) If she refuses to have sex with him? <br> e) If she burns the food? |    YES <br> a) GOES OUT $\ldots \ldots \ldots$. 1  <br> b) NEGLECTS CHILDREN . . 1  <br> c) ARGUES $\ldots \ldots \ldots \ldots$ 1   <br> d) REFUSES SEX $\ldots \ldots$. 1   <br> e) BURNS FOOD $\ldots \ldots .$. 1   | NO DK <br> 2 8 <br> 2 8 <br> 2 8 <br> 2 8 <br> 2 8 |  |

SECTION 10. HIV/AIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 1001 | Now I would like to talk about something else. Have you ever heard of HIV or AIDS? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{array}{ll} \ldots . . & 1 \\ \ldots . & 2 \end{array}$ | $\rightarrow 1042$ |
| 1002 | 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 <br> NO <br> DON'T KNOW | $\begin{aligned} & 1 \\ & 2 \\ & 8 \end{aligned}$ |  |
| 1003 | Can people get HIV from mosquito bites? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & \text {. . . . } \\ \ldots & 1 \\ \ldots . . . & 2 \\ \ldots & 8 \end{array}$ |  |
| 1004 | Can people reduce their chance of getting HIV by using a condom every time they have sex? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots & . . . \\ \ldots & 1 \\ \ldots & 2 \\ \ldots & 2 \\ \hline \end{array}$ |  |
| 1005 | Can people get HIV by sharing food with a person who has HIV? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots . . & 1 \\ \ldots . . & 2 \\ \ldots . . & 8 \end{array}$ |  |
| 1006 | Can people get HIV because of witchcraft or other supernatural means? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots & \text {. . . . . } \\ \ldots & 1 \\ \ldots & 2 \\ \ldots & \text {. . . . } \\ 8 \end{array}$ |  |
| 1007 | Is it possible for a healthy-looking person to have HIV? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots . . & 2 \\ \ldots . & 8 \end{array}$ |  |
| 1008 | Can HIV be transmitted from a mother to her baby: <br> a) During pregnancy? <br> b) During delivery? <br> c) By breastfeeding? | YES <br> a) DURING PREGNANCY .. 1 <br> b) DURING DELIVERY ..... 1 <br> c) BREASTFEEDING ..... 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 |  |
| 1009 | CHECK 1008: <br> AT LEAST ONE 'YES' | OTHER |  | $\longrightarrow 1011$ |
| 1010 | Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \ldots & \ldots \\ \ldots & 1 \\ \ldots & 2 \\ \ldots & 8 \end{array}$ |  |
| 1011 | CHECK 208 AND 215: $\begin{array}{r} \text { LAST BIRTH IN } \\ 2017-2020 \\ \square \end{array}$ | NO BIRTHS $\square$ <br> LAST BIRTH IN 2016 OR EARLIER $\square$ |  | $\begin{aligned} & \longrightarrow 1027 \\ & \longrightarrow 1027 \end{aligned}$ |
| 1012 | CHECK 408 FOR LAST BIRTH: | $\begin{aligned} & \text { NO } \\ & \text { PRENATAL } \square \\ & \text { CARE } \end{aligned}$ |  | $\rightarrow 1020$ |
| 1013 | CHECK FOR PRESENCE OF OTHERS. BEFORE CON | UING, MAKE EVERY EFFORT TO EN | E PRIVACY. |  |
| 1014 | During any of the prenatal visits for your last birth were you given any information about: <br> a) Babies getting HIV from their mother? <br> b) Things that you can do to prevent getting HIV? <br> c) Getting tested for HIV? | YES <br> a) HIV FROM MOTHER .. 1 <br> b) THINGS TO DO ....... 1 <br> c) TESTED FOR HIV ..... 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1015 | Were you offered a test for HIV as part of your prenatal care? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 1016 | I don't want to know the results, but were you tested for HIV as part of your prenatal care? |  | $\rightarrow 1020$ |
| 1017 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL. . . . . . . . . . . . . . . . 11 <br> GOVERNMENT HEALTH CENTER ........ 12 <br> GOVERNMENT HEALTH CLINIC ........ 13 <br> STAND-ALONE VTC CENTER . . . . . . . . . . . . . . 14 <br> NATIONAL AIDS CONTROL PROGRAM ..... 15 <br> OTHER PUBLIC SECTOR $\qquad$ <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC/ <br> PRIVATE DOCTOR .................... 21 <br> STAND-ALONE VTC CENTER . . . . . . . . . . . . . . 22 <br> PHARMACY ................................ 23 <br> PLANNED PARENTHOOD ASSN. LIB ..... 24 <br> MOBILE CLINIC ................... 25 <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ <br> OTHER SOURCE <br> OTHER $\qquad$ 96 |  |
| 1017A | All women are supposed to receive couseling before being tested. Before you were tested, did you receive counseling? |  |  |
| 1018 | I don't want to know the results, but did you get the results of the test? |  | $\rightarrow 1020$ |
| 1019 | All women are supposed to receive counseling after being tested. After you were tested, did you receive counseling? |  |  |
| 1020 | CHECK 430 FOR LAST BIRTH: <br> ANY CODE '21-36' CIRCLED | OTHER | $\longrightarrow 1024$ |
| 1021 | Between the time you went for delivery but before the baby was born, were you offered an HIV test? |  |  |
| 1022 | I don't want to know the results, but were you tested for HIV at that time? |  | $\rightarrow 1024$ |
| 1023 | I don't want to know the results, but did you get the results of the test? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 1025$ |


| SECTION 10. HIV/AIDS |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 1024 | CHECK 1016: <br> YES | NO OR $\square$ <br> NOT ASKED | $\rightarrow 1027$ |
| 1025 | Have you been tested for HIV since that time you were tested during your pregnancy? |  | $\rightarrow 1028$ |
| 1026 | How many months ago was your most recent HIV test? |  | $\rightarrow 1033$ |
| 1027 | I don't want to know the results, but have you ever been tested for HIV? |  | $\rightarrow 1031$ |
| 1028 | How many months ago was your most recent HIV test? | MONTHS AGO <br> TWO OR MORE YEARS |  |
| 1029 | I don't want to know the results, but did you get the results of the test? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 |  |
| 1030 | Where was the test done? <br> (NAME OF PLACE) |  | $\rightarrow_{1033}$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1031 | Do you know of a place where people can go to get an HIV test? |  | $\rightarrow 1033$ |
| 1032 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL. .................. A <br> GOVERNMENT HEALTH CENTER ........ B <br> GOVERNMENT HEALTH CLINIC ........ C <br> STAND-ALONE VTC CENTER ............... D <br> NATIONAL AIDS CONTROL PROGRAM ..... E <br> OTHER PUBLIC SECTOR $\qquad$ <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC/ PRIVATE DOCTOR <br> STAND-ALONE VTC CENTER $\qquad$ <br> PHARMACY <br> PLANNED PARENTHOOD ASSN. LIB <br> MOBILE CLINIC <br> OTHER PRIVATE MEDICAL SECTOR $\qquad$ $\qquad$ X |  |
| 1033 | Have you heard of test kits people can use to test themselves for HIV? |  | $\rightarrow 1035$ |
| 1034 | Have you ever tested yourself for HIV using a self-test kit? |  |  |

SECTION 10. HIV/AIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1035 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? |  |  |
| 1036 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV? | ```YES NO DON'T KNOW/NOT SURE/DEPENDS``` |  |
| 1037 | Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV? | YES <br> NO <br> DON'T KNOW/NOT SURE/DEPENDS . |  |
| 1038 | Do people talk badly about people living with HIV, or who are thought to be living with HIV? | YES <br> NO <br> DON'T KNOW/NOT SURE/DEPENDS |  |
| 1039 | Do people living with HIV, or thought to be living with HIV, lose the respect of other people? | YES <br> NO <br> DON'T KNOW/NOT SURE/DEPENDS |  |
| 1040 | Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV. | AGREE DISAGREE DON'T KNOW/NOT SURE/DEPENDS |  |
| 1041 | Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV? | YES <br> NO <br> SAYS SHE HAS HIV <br> DON'T KNOW/NOT SURE/DEPENDS |  |
| 1042 | CHECK 1001: <br> HEARD ABOUT HIV OR AIDS <br> a) Apart from HIV, have you heard about other infections that can be transmitted through man business? <br> NOT HEARD ABOUT HIV OR AIDS <br> b) Have you heard about infections that can be transmitted through man business? | YES <br> NO |  |
| 1043 | CHECK 713: <br> HAS HAD SEXUAL INTERCOURSE | EVER HAD SEXUAL $\square$ INTERCOURSE | 1051 |
| 1044 | CHECK 1042: HEARD ABOUT OTHER SEXUALLY TRA <br> YES $\square$ | MITTED INFECTIONS? NO $\square$ | 1046 |
| 1045 | 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 man business? | YES <br> NO <br> DON'T KNOW |  |
| 1046 | Sometimes women experience a bad-smelling abnormal genital discharge. During the last 12 months, have you had a bad-smelling abnormal genital discharge? | YES <br> NO <br> DON'T KNOW |  |
| 1047 | Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer? | YES <br> NO <br> DON'T KNOW |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1048 | CHECK 1045, 1046, AND 1047: <br> HAS HAD AN $\square$ INFECTION (ANY 'YES') | HAS NOT HAD AN $\square$ INFECTION OR DOES NOT KNOW | $\rightarrow 1051$ |
| 1049 | The last time you had (PROBLEM FROM 1045/1046/1047), did you seek any kind of advice or treatment? |  | $\rightarrow 1051$ |
| 1050 | Where did you go? <br> Any other place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 1051 | If a wife knows her husband has a disease that she can get from doing man business, is she justified in asking that they use a condom when they do man business? |  |  |
| 1052 | Is a wife justified in refusing to do man business with her husband when she knows he has sex with other women? |  |  |
| 1053 | CHECK 701: <br> CURRENTLY MARRIED/ LIVING WITH A MAN | NOT IN UNION | 1101 |
| 1054 | Can you say no to your (husband/partner) if you do not want to do man business? |  |  |
| 1055 | Could you ask your (husband/partner) to use a condom if you wanted him to? |  |  |

SECTION 11. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1104 | Do you currently smoke cigarettes every day, some days, or not at all? | EVERY DAY <br> SOME DAYS <br> NOT AT ALL | $\rightarrow 1106$ |
| 1105 | On average, how many cigarettes do you currently smoke each day? | NUMBER OF CIGARETTES |  |
| 1106 | Do you currently smoke or use any other type of tobacco every day, some days, or not at all? | EVERY DAY <br> SOME DAYS <br> NOT AT ALL | $\longrightarrow 1107 \mathrm{~A}$ |
| 1107 | What other type of tobacco do you currently smoke or use? <br> RECORD ALL MENTIONED. | PIPES FULL OF TOBACCO <br> CIGARS, CHEROOTS, OR CIGARILLOS <br> WATER PIPE / SHISHA <br> SNUFF BY MOUTH <br> SNUFF BY NOSE <br> CHEWING TOBACCO <br> OTHER $\qquad$ <br> (SPECIFY) |  |
| 1107A | Have you ever heard of an illness called tuberculosis or TB? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 1108$ |
| 1107B | What are the things that can happen to you when you have tuberculosis? <br> Anything else? <br> RECORD ALL MENTIONED. | COUGHING FOR 2 OR MORE WEEKS COUGHING UP BLOOD <br> CHEST PAIN/ PAINFUL BREATHING <br> OR COUGHING <br> WEIGHT LOSS <br> FATIGUE <br> FEVER <br> NIGHT SWEATS <br> OTHER $\qquad$ |  |
| 1107C | How does tuberculosis spread from one person to another? <br> Any other way? <br> RECORD ALL MENTIONED. | THROUGH THE AIR WHEN COUGHING <br> OR SNEEZING <br> THROUGH SHARING UTENSTILS. <br> THROUGH TOUCHING A PERSON WITH TB <br> THROUGH FOOD <br> THROUGH SEXUAL CONTACT <br> THROUGH MOSQUITO BITES . <br> OTHER <br> (SPECIFY) <br> DON'T KNOW |  |
| 1107D | Can tuberculosis be cured? | YES <br> NO DON'T KNOW |  |
| 1107E | If a member of your family got tuberculosis, would you want it to remain a secret or not? | YES, REMAIN A SECRET NO DON'T KNOW/ NOT SURE/ DEPENDS |  |

SECTION 11. OTHER HEALTH ISSUES


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |
| :---: | :---: | :---: |
| 1201 | Now I would like to ask you some questions including those who are living with you, thos surveys, we know it may sometimes be diffic mother. We will work together to draw the $m$ now give me the names of all of your brothe DO NOT FILL IN THE ORDER NUMBER Y <br> NAME <br> a $\qquad$ <br> b $\qquad$ <br> c $\qquad$ <br> d $\qquad$ <br> e $\qquad$ <br> f $\qquad$ <br> g $\qquad$ <br> h $\qquad$ $\qquad$ <br> j $\qquad$ | ers and sisters belly born to your biologica e and those who have died. From our experie complete list of all the children born to your and work to recall all your siblings. Could rn to your biological mother. <br> NAME <br> k $\qquad$ <br> I $\qquad$ <br> m $\qquad$ <br> n $\qquad$ <br> o $\qquad$ <br> p $\qquad$ <br> q $\qquad$ <br> r $\qquad$ <br> s $\qquad$ <br> t $\qquad$ |
| 1202 | CHECK 1201: <br> ONE OR MORE BROTHERS $\square$ OR SISTERS LISTED | HERS $\square$ <br> STED |
| 1203 | READ THE NAMES OF THE BROTHERS <br> ASK: Are there any other brothers and siste <br> NO <br> YES $\square$ | O THE RESPONDENT AND AFTER THE biological mother that you have not menti <br> IST ADDITIONAL BROTHERS AND SISTE |
| 1204 | Sometimes people forget to mention childre they do not see them very often. Are there mentioned? <br> NO <br> YES $\square$ | logical mother because they do not live with sters who do not live with you that you hav <br> IST ADDITIONAL BROTHERS AND SISTER |
| 1205 | Sometimes people forget to mention childre brothers or sisters who died that you have n <br> NO <br> YES $\square$ | ological mother because they have died. A <br> IST ADDITIONAL BROTHERS AND SISTER |
| 1206 | Some people have brothers or sisters from born to your biological mother, but who have <br> NO <br> YES $\square$ | but a different father. Are there any brothe gical father, that you have not mentioned? <br> IST ADDITIONAL BROTHERS AND SIST |
| 1207 | COUNT THE NUMBER OF BROTHERS AN SISTERS RECORDED IN 1201. | TOTAL BROTHERS AND SISTERS . |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1208 | CHECK 1207: <br> Just to make make sure that I have this right: Your mother had in TOTAL $\qquad$ births, excluding you, during her lifetime. Is that correct? <br> YES <br> NO <br> PROBE AND CORRECT 1201 AND/OR 1207. |  |  |
| 1209 | CHECK 1207: | NO <br> ER | $\rightarrow 1301$ |
| 1210 | Please tell me, which brother or sister was born first? An RECORD '01' FOR THE ORDER NUMBER IN 1201 FOR SECOND, AND SO ON UNTIL YOU HAVE RECORDED SISTERS. | ich was born next? <br> HE FIRST BROTHER OR SISTER, '02' FOR E ORDER NUMBER FOR ALL BROTHER |  |
| 1211 | How many births did your mother have before you were born? | NUMBER OF PRECEDING BIRTHS |  |


| 1212 | LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1201. ASK 1213 TO 1224 FOR ONE BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1213 | NAME OF BROTHER OR SISTER. | (01) | (02) | (03) | (04) | (05) | (06) |
| 1214 | Is (NAME) male or female? | $\begin{array}{lll} \text { MALE } & \ldots & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{llll} \text { MALE .... } & 1 \\ \text { FEMALE } \end{array}$ | $\begin{array}{lll} \text { MALE .... } & 1 \\ \text { FEMALE } \end{array}$ | $\begin{array}{lll} \text { MALE } \ldots . & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{llll} \text { MALE } & \ldots & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{llll} \text { MALE } & . . . & 1 \\ \text { FEMALE } & . & 2 \end{array}$ |
| 1215 | Is (NAME) still alive? | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { NO } \ldots \ldots \\ \text { GO TO } 1217 \\ \text { DK } \ldots . . \\ \text { GO TO (02) } \end{array}\right]$ |  |  |  |  |  |
| 1216 | How old is (NAME)? |  |   <br> GO TO (03)  |  |   <br> GO TO (05)  |  |  |
| 1217 | How many years ago did (NAME) die? |  |  | T |  |  |  |
| 1218 | How old was (NAME) when (he/she) died? <br> IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE. | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 |
| 1219 | Was (NAME) pregnant when she died? | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO } 1223 \\ \text { NO } \ldots \ldots . . \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO } 1223 \\ \text { NO } \ldots \ldots . \end{gathered}$ | $\begin{gathered} \text { YES . . . . . } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ | $\left.\begin{array}{cccc} \text { YES } \ldots . . . & 1 \\ \text { GO TO 1223 } & \downarrow \\ \text { NO } & \ldots & \ldots & 2 \end{array}\right]$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO 1223 } \\ \text { NO ...... } \end{gathered}$ |
| 1220 | Did (NAME) die during childbirth? | $\begin{gathered} \text { YES } \ldots \ldots . \\ \text { GO TO }(02) \\ \text { NO } \ldots \ldots . \end{gathered}$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots \\ \text { GO TO }(03) \\ \text { NO } \ldots \ldots . \end{array}\right]$ | $\begin{gathered} \text { YES ...... } 1 \\ \text { GO TO (04) } \\ \text { NO } \ldots . . . . \end{gathered}$ | $\begin{gathered} \text { YES ...... } \\ \text { GO TO (05) } \\ \text { NO } \ldots \ldots . \end{gathered}$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots \\ \text { GO TO (06) } \\ \text { NO } \ldots \ldots . \end{array}\right]$ | $\begin{gathered} \text { YES } \ldots \ldots .1 \\ \text { GO TO (07) } \\ \text { NO } \ldots . . . \begin{array}{l} 1 \end{array} \end{gathered}$ |
| 1221 | Did (NAME) die within two months after the end of a pregnancy or childbirth? | $\begin{aligned} & \text { YES } \ldots \ldots . \\ & \left.\begin{array}{c} \text { NO } \ldots . . \\ \text { GO TO } 1223 \end{array}\right] \end{aligned}$ | $\begin{aligned} & \text { YES } \ldots \ldots . c c \\ & \text { NO . . . . } \\ & \text { GO TO } 1223 \end{aligned}$ | $\begin{aligned} & \text { YES } \ldots \ldots . c c \\ & \text { NO . . . . . } \\ & \text { GO TO } 1223 \end{aligned}$ | $\left.\begin{array}{l} \text { YES } \ldots \ldots . \\ \text { NO } \ldots \ldots \\ \text { GO TO } 1223 \end{array}\right]$ | $\left.\begin{array}{llll} \text { YES } \ldots \ldots & 1 \\ \text { NO } \ldots \ldots . & 2 \\ \text { GO TO } 1223 \end{array}\right]$ | $\left.\begin{array}{l} \text { YES } \ldots \ldots . c c \\ \text { NO . . . . . } \\ \text { GO TO } 1223 \end{array}\right]$ |
| 1222 | How many days after the end of the pregnancy did (NAME) die? |  |  |  |  |  |  |
| 1223 | Was (NAME)'s death due to an act of violence? | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { GO TO (02) } & 4 \\ \text { NO } \ldots \ldots . & 2 \end{array}$ | $\begin{gathered} \text { YES } \ldots \ldots . \\ \text { GO TO (03) } \\ \text { NO } \ldots \ldots . \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO (04) } \\ \text { NO . . . . . } \\ 2 \end{gathered}$ | $\left.\begin{array}{cccc} \text { YES } \ldots \ldots . & 1 \\ \text { GO TO }(05) & 4 \\ \text { NO } & \ldots & \ldots & 2 \end{array}\right]$ | $\begin{array}{ccc} \text { YES } \ldots . . . & 1 \\ \text { GO TO (06) } & \\ \text { NO } \ldots \ldots . . & 2 \end{array}$ | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { GO TO (07) } & \\ \text { NO } \ldots \ldots . . & 2 \end{array}$ |
| 1224 | Was (NAME)'s death due to an accident? | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (02) } \end{array}$ | $\begin{array}{ccc} \text { YES } \ldots . . . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (03) } \end{array}$ | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (04) } \end{array}$ | $\begin{aligned} & \text { YES } \ldots \ldots . \\ & \text { NO } \ldots \ldots \\ & \\ & \text { GO TO (05) } \end{aligned}$ | $\begin{array}{ccc} \text { YES } & \ldots . . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (06) } \end{array}$ | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (07) } \end{array}$ |
| IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION. |  |  |  |  |  |  |  |

SECTION 12. ADULT AND MATERNAL MORTALITY MODULE

| 1212 | LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1201. ASK 1213 TO 1224 FOR ONE BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1213 | NAME OF BROTHER OR SISTER. | (07) | (08) | (09) | (10) | (11) | (12) |
| 1214 | Is (NAME) male or female? | $\begin{array}{lll} \text { MALE } & . . & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{lll} \text { MALE .... } & 1 \\ \text { FEMALE } \end{array}$ | $\begin{array}{llll} \text { MALE } & . . & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{llll} \text { MALE } & . . & 1 \\ \text { FEMALE } & . & 2 \end{array}$ | $\begin{array}{lll} \text { MALE .... } & 1 \\ \text { FEMALE } \end{array}$ | $\begin{array}{lrl} \text { MALE .... } & 1 \\ \text { FEMALE } \end{array}$ |
| 1215 | Is (NAME) still alive? | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { NO TO } 1217 \\ \left.\begin{array}{c} 1 \\ \text { GK } \ldots . . \end{array}\right] \\ \text { GO TO (08) } \end{array}\right]$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { NO TO } 1217 \\ \left.\begin{array}{c} 4 \\ \text { GK } \ldots . . \\ \text { GO TO } \end{array}\right] \\ \text { (09) } \end{array}\right]$ | $\begin{gathered} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { NO TO } 1217 \\ \begin{array}{c} 1 \\ \text { GK } \ldots . . \\ \text { GO TO (10) } \end{array} \\ \left.\begin{array}{c} 4 \end{array}\right] \end{gathered}$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { GO TO } 1217 \\ \text { DK } \ldots \ldots \\ \text { GO TO (11) } \end{array}\right]$ | $\begin{gathered} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { NO TO } 1217 \\ \begin{array}{c} 2 \\ \text { GK } \ldots . . \\ \text { GO TO (12) } \end{array} \\ \left.\begin{array}{c} 4 \end{array}\right] \end{gathered}$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { NO TO } 1217 \\ \text { GO } \\ \text { DK . . . . } \\ \text { GO TO (13) } \end{array}\right]$ |
| 1216 | How old is (NAME)? |   <br> GO TO (08)  |   <br> GO TO (09)  |  |  |  |   <br> GO TO (13)  |
| 1217 | How many years ago did (NAME) die? |  |  |  |  |  |  |
| 1218 | How old was (NAME) when (he/she) died? <br> IF DON'T KNOW, PROBE AND ASK ADDITIONAL QUESTIONS TO GET AN ESTIMATE. | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 | IF MALE OR DIED BEFORE 12 YEARS OF AGE, GO TO 1223 |
| 1219 | Was (NAME) pregnant when she died? | $\begin{gathered} \text { YES . . . . . . } 1 \\ \text { GO TO } 1223 \\ \text { NO . . . . . } 2 \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } 1 \\ \text { GO TO 1223 } \\ \text { NO . . . . . } 2 \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO } 1223 \\ \text { NO . . . . . } \end{gathered}$ |
| 1220 | Did (NAME) die during childbirth? | $\begin{gathered} \text { YES . . . . . } \\ 1 \\ \text { GO TO (08) } \\ \text { NO } \ldots \ldots . . \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO (09) } \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { GO TO (10) } \\ \text { NO . . . . . } \end{gathered}$ | $\left.\begin{array}{cccc} \text { YES } \ldots \ldots . & 1 \\ \text { GO TO (11) } & 4 \\ \text { NO } & \ldots & \ldots & 2 \end{array}\right]$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO (12) } \\ \text { NO } \ldots . . . \\ \hline \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO (13) } \\ \text { NO . . . . . } \end{gathered}$ |
| 1221 | Did (NAME) die within two months after the end of a pregnancy or childbirth? | $\left.\begin{array}{l} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { GO TO } 1223 \end{array}\right]$ | $\begin{aligned} & \text { YES } \ldots \ldots . c c \\ & \text { NO . . . . } \\ & \text { GO TO } 1223 \end{aligned}$ | $\begin{aligned} & \text { YES } \ldots \ldots . c c c \\ & \text { NO . . . . . } \\ & \text { GO TO } 1223 \end{aligned}$ | $\left.\begin{array}{l} \text { YES } \ldots \ldots . \\ \text { NO } \ldots \ldots \\ \text { GO TO } 1223 \end{array}\right]$ | $\left.\begin{array}{l} \text { YES } \ldots \ldots . \\ \text { NO . . . . . } \\ \text { GO TO } 1223 \end{array}\right]$ | $\left.\begin{array}{l} \text { YES } \ldots \ldots . c \\ \text { NO } \ldots \ldots . \\ \text { GO TO } 1223 \end{array}\right]$ |
| 1222 | How many days after the end of the pregnancy did (NAME) die? |  |  |  |  |  |  |
| 1223 | Was (NAME)'s death due to an act of violence? | $\begin{gathered} \text { YES } \ldots \ldots .1 \\ \text { GO TO (08) } \\ \text { NO } \ldots \ldots .2 \end{gathered}$ | $\begin{gathered} \text { YES . . . . . . } \\ \text { 1 } \\ \text { GO TO (09) } \\ \text { NO . . . . . } \end{gathered}$ | $\begin{gathered} \text { YES . . . . . } \\ \text { 1 } \\ \text { GO TO (10) } \\ \text { NO . . . . . } \end{gathered}$ | $\begin{array}{ccc} \text { YES } \ldots \ldots . & 1 \\ \text { GO TO (11) } & 4 \\ \text { NO } \ldots \ldots . & 2 \end{array}$ | $\left.\begin{array}{c} \text { YES } \ldots \ldots . \\ \text { GO TO (12) } \\ \text { NO } \ldots \ldots . \end{array}\right]$ | $\left.\begin{array}{cccc} \text { YES } \ldots \ldots & \ldots & 1 \\ \text { GO TO (13) } & 4 \\ \text { NO } & \ldots & \ldots & 2 \end{array}\right]$ |
| 1224 | Was (NAME)'s death due to an accident? | $\begin{aligned} & \text { YES } \ldots \ldots . \\ & \text { NO } \ldots \ldots . \\ & \\ & \text { GO TO (08) } \end{aligned}$ | $\begin{array}{llll} \text { YES } & \ldots . . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (09) } \end{array}$ | $\begin{array}{llll} \text { YES } & \ldots . . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (10) } \end{array}$ | $\begin{gathered} \text { YES } \ldots \ldots . \\ \text { NO } \ldots \ldots \\ \\ \text { GO TO (11) } \end{gathered}$ | $\begin{aligned} & \text { YES } \ldots \ldots . \\ & \text { NO } \ldots \ldots \\ & \\ & \text { GO TO (12) } \end{aligned}$ | $\begin{array}{lll} \text { YES } & \ldots . . & 1 \\ \text { NO } & \ldots . . & 2 \\ & \\ \text { GO TO (13) } \end{array}$ |
| IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION. |  |  |  |  |  |  |  |

SECTION 13. FEMALE GENITAL CUTTING/MUTILATION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 1301 | Now I would like to ask about a practice known as female circumcision. Have you ever heard of female circumcision? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 | $\xrightarrow{ } 1303$ |
| 1302 | In some countries, there is a practice in which a girl may have part of her genitals cut. Have you ever heard about this practice? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 | $\rightarrow$ 1317A |
| 1303 | Have you yourself ever been circumcised? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\rightarrow 1317$ |
| 1307 | How old were you when you were circumcised? <br> IF THE RESPONDENT DOES NOT KNOW THE EXACT AGE, PROBE TO GET AN ESTIMATE. | AGE IN COMPLETED YEARS <br> AS A BABY/DURING INFANCY DON'T KNOW |  |  |
| 1317 | Do you think that female circumcision should be continued, or should it be stopped? | CONTINUED <br> STOPPED <br> DEPENDS <br> DON'T KNOW | 1 2 3 8 |  |
| 1317A | Now I would like to ask you about something else. As you know some women belong to bush societies, like the Sande society. Have you heard of these societies? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 1401$ |
| 1317B | Are you a member of the Sande society or a woman's bush society? | YES <br> NO <br> REFUSED TO ANSWER/ <br> NO ANSWER | 1 2 3 | $\rightarrow 1401$ |
| 1317C | How long have you been a member of the Sande society or a woman's bush society? |  |  |  |



| EBOLA |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 1407 | Where did you seek advice or treatment? <br> Anywhere else? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL ............... A <br> GOVERNMENT HEALTH CENTER ......... B <br> GOVERNMENT HEALTH CLINIC ............. C <br> MOBILE CLINIC .................................. D <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS A HEALTHCARE WORKER . . . . . E <br> OTHER PUBLIC SECTOR <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/ CENTER/ CLINIC ..... G PHARMACY <br> PRIVATE DOCTOR $\qquad$ <br> MOBILE CLINIC $\qquad$ <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS A HEALTHCARE WORKER ..... K OTHER PRIVATE MEDICAL SECTOR <br> OTHER SOURCE <br> EBOLA TREATMENT UNIT . . . . . . . . . . . . . . . . M <br> SHOP ............................................ $N$ <br> TRADITIONAL PRACTITIONER <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS NOT A HEALTHCARE WORKER $P$ <br> BLACK BAGGER/ DRUG PEDDLER $\qquad$ <br> OTHER $\qquad$ |  |
| 1408 | Were you admitted to an Ebola treatment unit or ETU during the Ebola time in Liberia? |  | $\rightarrow 1411$ |
| 1409 | In what month and year were you admitted to an Ebola treatment unit or ETU? | MONTH $\qquad$ $\square$ <br> DON'T KNOW MONTH <br> YEAR $\qquad$ |  |
| 1410 | In what county was the Ebola treatment unit or ETU? |  |  |



| EBOLA |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 1421A | Have you ever worked in a health facility? |  |  |
| 1422 | During the Ebola time in Liberia, did you care for someone at home who had Ebola? |  |  |
| 1423 | Have you ever come into contact with animals that were hunted or caught in the bush? |  | $\rightarrow 1500$ |
| 1424 | What kinds of bush animals were they? <br> Any other kind of animal? <br> RECORD ALL MENTIONED. |  |  |
| 1425 | What did you do with the bush animal(s) that you came in contact with? <br> Anything else? <br> RECORD ALL MENTIONED. |  |  |




SECTION 15. DOMESTIC VIOLENCE MODULE


SECTION 15. DOMESTIC VIOLENCE MODULE

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1516 | CHECK 701 AND 702: <br> EVER MARRIED/EVER ¡NEVER MARRIED/NEVER <br> a) From the time you were 15 <br> b) From the time you were 15 years old has anyone other years old has anyone hit you, than (your/any) slapped you, kicked you, or (husband/partner) hit you, done anything else to hurt you slapped you, kicked you, or physically? done anything else to hurt you physically? |  | $\rightarrow 1519$ |
| 1517 | Who has hurt you in this way? <br> Anyone else? <br> RECORD ALL MENTIONED. | MOTHER/STEP-MOTHER FATHER/STEP-FATHER <br> SISTER/BROTHER <br> DAUGHTER/SON <br> OTHER RELATIVE <br> CURRENT BOYFRIEND <br> FORMER BOYFRIEND <br> MOTHER-IN-LAW <br> FATHER-IN-LAW <br> OTHER IN-LAW <br> TEACHER <br> EMPLOYER/SOMEONE AT WORK <br> POLICE/SOLDIER <br> OTHER $\qquad$ |  |
| 1518 | In the last 12 months, how often (has this person/have these persons) physically hurt you: often, only sometimes, or not at all? |  |  |
| 1519 | CHECK 201, 226, AND 230: <br> EVER BEEN PREGNANT ('YES' ON 201 OR 226 OR 230) | NEVER BEEN PREGNANT | $\rightarrow 1522$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1520 | Has any one ever hit, slapped, kicked, or done anything else to hurt you physically while you were pregnant? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 <br> NO   | $\longrightarrow 1522$ |
| 1521 | Who has done any of these things to physically hurt you while you were pregnant? <br> Anyone else? <br> RECORD ALL MENTIONED. | CURRENT HUSBAND/PARTNER MOTHER/STEP-MOTHER FATHER/STEP-FATHER SISTER/BROTHER DAUGHTER/SON OTHER RELATIVE FORMER HUSBAND/PARTNER CURRENT BOYFRIEND FORMER BOYFRIEND MOTHER-IN-LAW FATHER-IN-LAW OTHER IN-LAW TEACHER EMPLOYER/SOMEONE AT WORK POLICE/SOLDIER <br> OTHER $\qquad$ |  |
| 1522 | CHECK 701 AND 702: <br> EVER MARRIED/EVER <br> LIVED WITH A MAN | RIED/NEVER $\square$ WITH A MAN | $\rightarrow$ 1522B |
| 1522A | Now I want to ask you about things that may have been done to you by someone other than (your/any) (husband/partner). At any time in your life, as a child or as an adult, has anyone ever forced you in any way to do man business or perform any other sexual acts when you did not want to? |  | $\begin{aligned} & \rightarrow 1523 \\ & \rightarrow 1524 \mathrm{~A} \end{aligned}$ |
| 1522B | At any time in your life, as a child or as an adult, has anyone ever forced you in any way to do man business or perform any other sexual acts when you did not want to? |  | $\rightarrow 1526$ |
| 1523 | Who was the person who was forcing you the very first time this happened? |  |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 1524 | CHECK 701 AND 702: <br> EVER MARRIED/EVER <br> LIVED WITH A MAN <br> a) In the last 12 months, has anyone other than (your/any) (husband/partner) physically forced you to do man business when you did not want to? <br> jNEVER MARRIED/NEVER LIVED WITH A MAN <br> b) In the last 12 months has anyone physically forced you to do man business when you did not want to? | YES <br> NO | $1525$ |
| 1524A | CHECK 1505A (h-j) and 1515A(b) <br> AT LEAST ONE 'YES' | NOT A SINGLE 'YES' | $\longrightarrow 1526$ |
| 1525 | CHECK 701 AND 702: <br> EVER MARRIED/EVER <br> LIVED WITH A MAN <br> a) How old were you the first time you were forced to do man business or perform any other sexual acts by anyone, including (your/any) husband/partner? <br> ¡NEVER MARRIED/NEVER LIVED WITH A MAN <br> b) How old were you the first time you were forced to do man business or perform any other sexual acts? | AGE IN COMPLETED YEARS $\square$ <br> DON'T KNOW |  |
| 1526 | $\begin{gathered} \text { CHECK 1505A (a-j), 1515A (a,b), 1516, 1520, 1522A, AND 1522B: } \\ \text { AT LEAST ONE } \square \\ \text { 'YES' } \downarrow \end{gathered}$ | OT A SINGLE 'YES' | $\longrightarrow 1530$ |
| 1527 | Thinking about what you yourself have experienced among the different things we have been talking about, have you ever tried to seek help? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\longrightarrow 1529$ |
| 1528 | From whom have you sought help? <br> Anyone else? <br> RECORD ALL MENTIONED. | OWN FAMILY HUSBAND'S/PARTNER'S FAMILY CURRENT/FORMER <br> HUSBAND/PARTNER <br> CURRENT/FORMER BOYFRIEND <br> FRIEND <br> NEIGHBOR <br> RELIGIOUS LEADER <br> DOCTOR/MEDICAL PERSONNEL . <br> POLICE <br> LAWYER <br> SOCIAL SERVICE ORGANIZATION <br> OTHER $\qquad$ |  |
| 1528A | Do you feel that (any of) this help was useful to solve the situation that was happening at the time or useful in the longer term, or was it not useful at all? | NOT USEFUL AT ALL . . . . . . . . . . . . . USEFUL TO SITUATION AT THAT TIME USEFUL IN THE LONGER TERM |  |
| 1528B | After seeking (any of) this help, did the physical or sexual assaults from your husband/partner or others that resulted in you being physically or sexually hurt at that time change in one way or another? | NO CHANGE IN ASSULT . . . . . . . . . . <br> ASSAULT REDUCED <br> ASSAULT INCREASED | $\longrightarrow 1530$ |

SECTION 15. DOMESTIC VIOLENCE MODULE

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COMMENTS ON SPECIFIC QUESTIONS:
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$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

ANY OTHER COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

SUPERVISOR'S OBSERVATIONS

## EDITOR'S OBSERVATIONS



CODES FOR EACH COLUMN:
COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE
B BIRTHS
P PREGNANCIES
T TERMINATIONS
0 NO METHOD
1 FEMALE STERILIZATION
2 MALE STERILIZATION
3 IUD
4 INJECTABLES
5 IMPLANTS
6 PILL
7 CONDOM
8 FEMALE CONDOM
9 EMERGENCY CONTRACEPTION
J STANDARD DAYS METHOD/ CYCLEBEADS
K LACTATIONAL AMENORRHEA METHOD
L RHYTHM METHOD
M WITHDRAWAL
X OTHER MODERN METHOD
Y OTHER TRADITIONAL METHOD
COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE

```
O INFREQUENT SEX/HUSBAND AWAY
    BECAME PREGNANT WHILE USING
    WANTED TO BECOME PREGNANT
    3 \text { HUSBAND/PARTNER DISAPPROVED}
    4 WANTED MORE EFFECTIVE METHOD
    5 SIDE EFFECTS/HEALTH CONCERNS
    6 LACK OF ACCESS/TOO FAR
    7 COSTS TOO MUCH
    8 INCONVENIENT TO USE
    F UP TO GOD/FATALISTIC
    A DIFFICULT TO GET PREGNANT/MENOPAUSAL
    D MARITAL DISSOLUTION/SEPARATION
    X OTHER
    C
    Z DON'T KNOW
(SPECIFY)
```



GOVERNMENT OF LIBERIA
LIBERIA INSTITUTE OF STATISTICS AND GEO-INFORMATION SERVICES


## INTRODUCTION AND CONSENT

Hello. My name is $\qquad$ . I am working with the Liberia Institute of Statistics and Geo-Information Services. We are conducting a survey about health and other topics all over Liberia. The information we collect will help the government to plan health services. Your household was selected for the survey. The questions usually take about 20 minutes. All of the answers you give will be confidential and will not be shared with anyone other than members of our survey team. You don't have to be in the survey, but we hope you will agree to answer the questions since your views are important. If I ask you any question you don't want to answer, just let me know and I will go on to the next question or you can stop the interview at any time.

In case you need more information about the survey, you may contact the person listed on the card that has already been given to your household.

Do you have any questions?
May I begin the interview now?

SIGNATURE OF INTERVIEWER $\qquad$ DATE $\qquad$


SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 101 | RECORD THE TIME. | HOURS <br> MINUTES | $\square$ |  |
| 102 | How long have you been living continuously in (NAME OF CURRENT COUNTY)? <br> IF LESS THAN ONE YEAR, RECORD ‘00’ YEARS. | YEARS <br> ALWAYS <br> VISITOR |   | $\xrightarrow{\rightarrow} 105$ |
| 103 | Just before you moved here, did you live in a city, in a town, or in a rural area? | CITY <br> TOWN <br> RURAL AREA | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ |  |
| 104 | Before you moved here, which county did you live in? | BOMI <br> BONG <br> GBARPOLU <br> GRAND BASSA <br> GRAND CAPE MOUNT <br> GRAND GEDEH <br> GRAND KRU <br> LOFA <br> MARGIBI <br> MARYLAND <br> MONTSERRADO <br> NIMBA <br> RIVER CESS <br> RIVER GEE <br> SINOE <br> OUTSIDE OF LIBERIA |  |  |
| 105 | In what month and year were you born? | MONTH <br> DON'T KNOW MONTH <br> YEAR <br> DON'T KNOW YEAR |  |  |
| 106 | How old were you at your last birthday? <br> COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT. | AGE IN COMPLETED YEARS |  |  |

SECTION 1. RESPONDENT'S BACKGROUND


SECTION 1. RESPONDENT'S BACKGROUND

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 119 | Have you ever used the internet? |  | $\longrightarrow 122$ |
| 120 | In the last 12 months, have you used the internet? <br> IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE. |  | $\longrightarrow 122$ |
| 121 | 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? |  |  |
| 122 | What is your religion? |  |  |
| 123 | What dialect do you speak (besides English)? |  |  |

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 NO DON'T KNOW |  | $\xrightarrow{ } \rightarrow 206$ |
| 202 | Do you have any sons or daughters that you have fathered who are now living with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 204$ |
| 203 | a) How many sons live with you? <br> b) And how many daughters live with you? <br> IF NONE, RECORD ' 00 '. | a) SONS AT HOME . <br> b) DAUGHTERS AT HOME |  |  |
| 204 | Do you have any sons or daughters that you have fathered who are alive but do not live with you? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\longrightarrow 206$ |
| 205 | a) How many sons are alive but do not live with you? <br> b) And how many daughters are alive but do not live with you? <br> IF NONE, RECORD '00'. | a) SONS ELSEWHERE <br> b) DAUGHTERS ELSEWHERE |  |  |
| 206 | Have you ever fathered a son or a daughter who was born alive but later died? <br> IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time? | YES <br> NO DON'T KNOW | 1 2 8 | $\xrightarrow{ } \rightarrow 208$ |
| 207 | a) How many boys have died? <br> b) And how many girls have died? <br> IF NONE, RECORD '00'. | a) BOYS DEAD <br> b) GIRLS DEAD |  |  |
| 208 | SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'. | TOTAL CHILDREN |  |  |



SECTION 3. CONTRACEPTION

| 301 | Now I would like to talk about family planning - the various ways or methods that a couple can use to delay or avoid a pregnancy. Have you ever heard of (METHOD)? |  |  |
| :---: | :---: | :---: | :---: |
| 01 | Female Sterilization, Tube Tie, Turning the Womb. <br> PROBE: Women can have an operation to avoid having any more children. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 02 | Male Sterilization. <br> PROBE: Men can have an operation to avoid having any more children. | $\begin{aligned} & \text { YES } \end{aligned}$ | 1 2 |
| 03 | IUD. <br> PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse which can prevent pregnancy for one or more years. | $\begin{aligned} & \text { YES } \\ & \text { Non } \end{aligned}$ | 1 2 |
| 04 | Injectables, Depo. <br> PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 05 | Implants, Jadelle. <br> PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 06 | Pill. <br> PROBE: Women can take a pill every day to avoid becoming pregnant. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 07 | Condom, Raincoat. <br> PROBE: Men can put a rubber sheath on their penis before woman business. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 08 | Female Condom. <br> PROBE: Women can place a sheath in their vagina before man business. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 09 | Emergency Contraception. <br> PROBE: As an emergency measure, within five days after they have unprotected man business, women can take special pills to prevent pregnancy. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 10 | CycleBeads/ Standard Days Method. <br> PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not do man business. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 11 | Lactational Amenorrhea Method (LAM). <br> PROBE: Up to six months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 12 | Rhythm Method. <br> PROBE: To avoid pregnancy, women do not do man business on the days of the month they think they can get pregnant. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 13 | Withdrawal. <br> PROBE: Men can be careful and pull out before climax. | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |
| 14 | Have you heard of any other ways or methods that women or men can use to avoid pregnancy? | YES <br> YES <br> NO | A B Y |

SECTION 3. CONTRACEPTION

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  |  | SKIP |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 302 | In the last few months have you: <br> a) Heard about family planning on the radio? <br> b) Seen anything about family planning on the television? <br> c) Read about family planning in a newspaper or magazine? <br> d) Received a voice or text message about family planning on a mobile phone? | a) RADIO <br> b) TELEVISION $\qquad$ <br> c) NEWSPAPER OR MAGAZI <br> d) MOBILE PHONE |  | NO <br> 2 <br> 2 <br> 2 <br> 2 |  |
| 303 | In the last few months, have you discussed family planning with a health worker or health professional? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ |  |
| 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 does man business? | YES NO DON'T KNOW |  | 1 2 8 | $\rightarrow 306$ |
| 305 | Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods? | JUST BEFORE HER PERIOD DURING HER PERIOD RIGHT AFTER HER PERIOD H HALFWAY BETWEEN TWO P OTHER $\qquad$ DON'T KNOW | EGINS <br> AS ENDED RIODS <br> (IFY) | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 6 \\ & 8 \end{aligned}$ |  |
| 306 | After the birth of a child, can a woman become pregnant before her menstrual period has returned? | YES NO DON'T KNOW |  | 1 2 8 |  |
| 307 | I will now read you some statements about contraception. Please tell me if you agree or disagree with each one. <br> a) Contraception is a woman's concern and a man should not have to worry about it. <br> b) Women who use contraception may become promiscuous. | a) CONTRACEPTION WOMAN'S CONCERN <br> b) WOMEN MAY BECOME PROMISCUOUS | DIS- <br> AGREE <br> 1 <br> 2 <br> 1 <br> 2 | DK 8 8 |  |



| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 409 | CHECK 407: <br> ONE WIFE/ <br> PARTNER | MORE THAN ONE WIFE/ PARTNER |  | $\rightarrow 411$ |
| 410 | Have you been married or lived with a woman only once or more than once? | MORE THAN ONCE ONLY ONCE | $\begin{array}{ll} \ldots \ldots . & 1 \\ \ldots \ldots . & 2 \end{array}$ |  |
| 411 | CHECK 405 AND 410: <br> BOTH ARE <br> CODE '2', <br> a) In what month and year did you start living with your (wife/partner)? <br> OTHER $\square$ <br> b) Now I would like to ask about your first (wife/partner). In what month and year did you start living with her? | MONTH <br> DON'T KNOW MONTH <br> YEAR $\qquad$ $\square$ <br> DON'T KNOW YEAR |    <br> $\ldots \ldots .$.  <br>   | $\xrightarrow{\rightarrow} 413$ |
| 412 | How old were you when you first started living with her? | AGE |  |  |
| 413 | CHECK FOR PRESENCE OF OTHERS. BEFORE CON | UING, MAKE EVERY EFFORT TO ENSU | E PRIVACY. |  |
| 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 did woman business for the very first time? | NEVER HAD SEXUAL <br> INTERCOURSE <br> AGE IN YEARS |  | $\rightarrow 501$ |
| 415 | I would like to ask you about your recent sexual activity. When was the last time you did woman business? <br> IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS. | DAYS AGO $\ldots \ldots \ldots \ldots$ 1 <br> WEEKS AGO $\ldots \ldots \ldots \ldots$ 2 <br> MONTHS AGO $\ldots \ldots \ldots \ldots$ 3 <br> YEARS AGO $\ldots \ldots \ldots \ldots$. 4 |  | $\begin{aligned} & \longrightarrow 417 \\ & \rightarrow 427 \end{aligned}$ |

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY


SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 425 | CHECK 419 (ALL COLUMNS): <br> AT LEAST ONE PARTNER $\square$ IS A SEX WORKER | NO PARTNERS ARE SEX WORKERS |  | $\rightarrow 427$ |
| 426 | CHECK 419 AND 417 (ALL COLUMNS): <br> CONDOM USED WITH <br> EVERY SEX WORKER |  |  | $\begin{aligned} & \longrightarrow 430 \\ & \longrightarrow 431 \end{aligned}$ |
| 427 | In the last 12 months, did you pay anyone in exchange for doing woman business? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 429$ |
| 428 | Have you ever paid anyone in exchange for doing woman business? | YES <br> NO | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 431$ |
| 429 | The last time you paid someone for doing woman business, was a condom used? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 431$ |
| 430 | Was a condom used during woman business every time you paid someone in exchange for doing woman business in the last 12 months? | YES <br> NO DON'T KNOW | 1 2 8 |  |
| 431 | In the past 12 months have you given any gifts or other goods in order to do woman business or to become sexually involved with anyone? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 433$ |
| 432 | Have you ever given any gifts or other goods in order to do woman business or to become sexually involved with anyone? | YES <br> NO | 1 2 |  |
| 433 | In total, with how many different people have you done woman business in your lifetime? <br> IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'. | NUMBER OF PARTNERSIN LIFETIME .....................DON'T KNOW . . . . . . . . . . . . . . . . . . . . . . . . . . . 98 |  |  |
| 434 | CHECK 417: MOST RECENT PARTNER (FIRST COLUM |  |  | $\begin{aligned} & \longrightarrow 438 \\ & 438 \end{aligned}$ |
| 437 | The last time you did woman business did you or your partner use any method other than a condom to avoid or prevent a pregnancy? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\begin{array}{\|l} \longrightarrow 439 \\ \longrightarrow \end{array} 440$ |
| 438 | The last time you did woman business did you or your partner use any method to avoid or prevent a pregnancy? | YES <br> NO <br> DON'T KNOW | 1 2 8 | $\rightarrow 440$ |
| 439 | What method did you or your partner use? <br> PROBE: Did you or your partner use any other method to prevent pregnancy? <br> RECORD ALL MENTIONED. | FEMALE STERILIZATION <br> MALE STERILIZATION <br> IUD <br> INJECTABLES <br> IMPLANTS <br> PILL <br> CONDOM <br> FEMALE CONDOM <br> EMERGENCY CONTRACEPTION <br> CYCLEBEADS/STANDARD DAYS METH <br> LACTATIONAL AMENORRHEA METHO <br> RHYTHM METHOD <br> WITHDRAWAL <br> OTHER MODERN METHOD <br> OTHER TRADITIONAL METHOD | A <br> B <br> C <br> D <br> E <br> F <br> G <br> H <br> I <br> J <br> L <br> M <br> X <br> Y | $\mathscr{H}_{\rightarrow 501}$ |
| 440 | Do you know of a place where you can obtain a method of family planning? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ |  |  |

SECTION 5. FERTILITY PREFERENCES

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 501 | CHECK 401: <br> CURRENTLY MARRIED OR NOT CURR LIVING WITH A PARTNER | TLY MARRIED $\square$ D NOT LIVING H A PARTNER | $\rightarrow 514$ |
| 502 | CHECK 439: <br> MAN NOT STERILIZED $\square$ | $\begin{array}{r} \text { MAN } \\ \text { STERILIZED } \end{array}$ $\square$ | $\rightarrow 514$ |
| 503 | CHECK 407: <br> ONE WIFE/ PARTNER | MORE THAN $\square$ ONE WIFE PARTNER | $\longrightarrow 509$ |
| 504 | Is your (wife/partner) currently pregnant? | YES <br> NO <br> DON'T KNOW | $\xrightarrow{ } \rightarrow 507$ |
| 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 NO MORE UNDECIDED/DON'T KNOW | $\xrightarrow{ } \rightarrow 514$ |
| 506 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? |  | $\prod^{514}$ |
| 507 | CHECK 208: <br> HAS NOT <br> HAS FATHERED FATHERED CHILDREN CHILDREN <br> a) Now I have some <br> b) Now I have some questions about the questions about the future. Would you like future. Would you like to have another child, to have a child, or or would you prefer not would you prefer not to to have any more have any children? children? | HAVE (A/ANOTHER) CHILD <br> NO MORE/NONE <br> SAYS COUPLE CAN'T GET PREGNANT WIFE/PARTNER STERILIZED UNDECIDED/DON'T KNOW | $\rightarrow \rightarrow 514$ |
| 508 | CHECK 208: <br> HAS FATHERED CHILDREN <br> a) How long would you <br> b) How long would you like to wait from now like to wait from now before the birth of before the birth of a another child? child? | MONTHS $\qquad$ 1 <br> YEARS $\qquad$ 2 <br> SOON/NOW $\qquad$ <br> SAYS COUPLE <br> CAN'T GET PREGNANT <br> OTHER $\qquad$ <br> (SPECIFY) <br> DON'T KNOW <br> ....... | $\rightarrow_{514}$ |
| 509 | Are any of your (wives/partners) currently pregnant? | YES <br> NO <br> DON'T KNOW | $\rightarrow 512$ |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 510 | Now I have some questions about the future. After the (child/children) you and your (wives/partners) are expecting now, would you like to have another child, or would you prefer not to have any more children? |  | $\rightarrow 514$ |
| 511 | After the birth of the child you are expecting now, how long would you like to wait before the birth of another child? |  | $\rightarrow 514$ |
| 512 | CHECK 208: <br> HAS FATHERED CHILDREN <br> a) Now I have some questions about the future. Would you like to have another child, or would you prefer not to have any more <br> HAS NOT FATHERED <br> b) Now I have some questions about the future. Would you like to have a child, or would you prefer not to have any children? children? |  | $\square \rightarrow 514$ |
| 513 | CHECK 208: <br> HAS NOT <br> HAS FATHERED FATHERED CHILDREN CHILDREN <br> a) How long would you <br> b) How long would you like to wait from now like to wait from now before the birth of before the birth of a another child? child? |  |  |
| 514 | CHECK 203 AND 205: <br> a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? <br> NO LIVING CHILDREN $\square$ <br> b) If you could choose exactly the number of children to have in your whole life, how many would that be? | NONE . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 00 <br> NUMBER $\qquad$ $\square$ <br> OTHER $\qquad$ 96 (SPECIFY) | $\begin{array}{\|c} \longrightarrow 601 \\ \\ \\ \\ \longrightarrow 601 \end{array}$ |
| 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 . . $\square$ <br> OTHER $\qquad$ 96 (SPECIFY) |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 601 | Have you done any work in the last seven days? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\longrightarrow 604$ |
| 602 | Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 604$ |
| 603 | Have you done any work in the last 12 months? | YES $\ldots$ <br> NO $\ldots .$. | $\rightarrow 607$ |
| 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? |  |  |
| 606 | Are you paid in cash or kind for this work or are you not paid at all? |  |  |
| 607 | CHECK 401: <br> CURRENTLY MARRIED OR <br> NOT <br> LIVING WITH A PARTNER | RRENTLY MARRIED <br> AND <br> G WITH A PARTNER | $\rightarrow 612$ |
| 608 | CHECK 606: <br> CODE '1' OR '2' CIRCLED | OTHER $\square$ | $\rightarrow 610$ |
| 609 | Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly? | $\qquad$ |  |
| 610 | Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else? |  |  |
| 611 | Who usually makes decisions about making major household purchases? |  |  |

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 <br> JOINTLY ONLY <br> BOTH ALONE AND JOINTLY <br> DOES NOT OWN | $\begin{array}{cc} \ldots \ldots \ldots & 1 \\ \ldots \ldots \ldots & 2 \\ \ldots \ldots \ldots & 3 \\ \ldots \ldots \ldots \end{array}$ | $\longrightarrow 615$ |
| 613 | Do you have a title deed for any house you own? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \cdots \cdots \cdots & 1 \\ \cdots \cdots \cdots & 2 \\ \cdots \cdots \cdots & 8 \end{array}$ | $\rightarrow 615$ |
| 614 | Is your name on the title deed? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots \cdots & 1 \\ \cdots \cdots \cdots & 2 \\ \cdots \cdots & 8 \end{array}$ |  |
| 615 | Do you own any agricultural or non-agricultural land either alone or jointly with someone else? | ALONE ONLY <br> JOINTLY ONLY <br> BOTH ALONE AND JOINTLY <br> DOES NOT OWN | $\begin{array}{ll} \ldots \ldots \cdots & 1 \\ \cdots \cdots \cdots & 2 \\ \cdots \cdots \cdots & 3 \\ \cdots \cdots \cdots & 4 \end{array}$ | $\longrightarrow 618$ |
| 616 | Do you have a title deed for any land you own? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots \cdots & 1 \\ \cdots \cdots \cdots & 8 \\ \cdots \cdots \cdots \end{array}$ | $\rightarrow 618$ |
| 617 | Is your name on the title deed? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \\ \ldots \ldots . & 1 \\ \cdots \cdots \cdots & 2 \\ \cdots \cdots \cdots & 8\end{array}$ |  |
| 618 | In your opinion, is a husband justified in hitting or beating his wife in the following situations: <br> a) If she goes out without telling him? <br> b) If she neglects the children? <br> c) If she argues with him? <br> d) If she refuses to have sex with him? <br> e) If she burns the food? |  YES  <br> a) GOES OUT $\ldots \ldots \ldots$ 1  <br> b) NEGLECTS CHILDREN... 1  <br> c) ARGUES $\ldots \ldots \ldots \ldots$. 1  <br> d) REFUSES SEX $\ldots \ldots$. 1 <br> e) BURNS FOOD $\ldots \ldots$. 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 <br> 2 8 <br> 2 8 |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 701 | Now I would like to talk about something else. Have you ever heard of HIV or AIDS? | YES <br> NO | $\begin{array}{ll}  \\ \ldots \ldots . & 1 \\ \ldots . & 2 \end{array}$ | $\rightarrow 727$ |
| 702 | 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 <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 703 | Can people get HIV from mosquito bites? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \\ . . . . . & 1 \\ \ldots \ldots . . & 2 \\ \ldots . . & 8\end{array}$ |  |
| 704 | Can people reduce their chance of getting HIV by using a condom every time they have sex? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 705 | Can people get HIV by sharing food with a person who has HIV? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |
| 706 | Can people get HIV because of witchcraft or other supernatural means? | YES <br> NO <br> DON'T KNOW | $\begin{array}{ll} \\ \ldots \ldots . & 1 \\ \cdots \cdots . & 2 \\ \cdots \cdots . & 8\end{array}$ |  |
| 707 | Is it possible for a healthy-looking person to have HIV? | YES NO DON'T KNOW | $\begin{array}{ll} \\ \ldots \ldots . & 1 \\ \cdots \ldots . & 2 \\ \ldots \ldots . & 8\end{array}$ |  |
| 708 | Can HIV be transmitted from a mother to her baby: <br> a) During pregnancy? <br> b) During delivery? <br> c) By breastfeeding? |  YES  <br> a) DURING PREGNANCY $\ldots$ 1  <br> b) DURING DELIVERY $\ldots .$. 1  <br> c) BREASTFEEDING $\ldots$. 1 | NO DK <br> 2 8 <br> 2 8 <br> 2 8 |  |
| 709 | CHECK 708: <br> AT LEAST $\square$ ONE 'YES' | OTHER |  | $\rightarrow 711$ |
| 710 | Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby? | YES <br> NO DON'T KNOW | $\begin{array}{ll} \ldots \ldots \ldots & 1 \\ \ldots \ldots & 2 \\ \ldots \ldots & 8 \end{array}$ |  |


| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 711 | CHECK FOR PRESENCE OF OTHERS. BEFORE CON | ING, MAKE EVERY EFFORT TO ENSURE PRIVACY. |  |
| 712 | I don't want to know the results, but have you ever been tested for HIV? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 716$ |
| 713 | How many months ago was your most recent HIV test? | MONTHS AGO <br> TWO OR MORE YEARS |  |
| 714 | I don't want to know the results, but did you get the results of the test? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 <br> NO 2  |  |
| 715 | Where was the test done? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  | $\mapsto_{718}$ |
| 716 | Do you know of a place where people can go to get an HIV test? | YES . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 | $\rightarrow 718$ |
| 717 | Where is that? <br> Any other place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL. . . . . . . . . . . . . . . . A <br> GOVERNMENT HEALTH CENTER ........ B <br> GOVERNMENT HEALTH CLINIC ........ C <br> STAND-ALONE VTC CENTER . . . . . . . . . . . . . . D <br> NATIONAL AIDS CONTROL PROGRAM ..... E <br> OTHER PUBLIC SECTOR $\qquad$ <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/CLINIC/ <br> PRIVATE DOCTOR ................... G <br> STAND-ALONE VTC CENTER . . . . . . . . . . . . . . H <br> PHARMACY ................................. I <br> PLANNED PARENTHOOD ASSN. LIB. ...... J <br> MOBILE CLINIC .................. K <br> OTHER PRIVATE MEDICAL SECTOR <br> (SPECIFY) <br> OTHER $\qquad$ X |  |

SECTION 7. HIV/AIDS

| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| :---: | :---: | :---: | :---: |
| 718 | Have you heard of test kits people can use to test themselves for HIV? |  | $\rightarrow 720$ |
| 719 | Have you ever tested yourself for HIV using a self-test kit? |  |  |
| 720 | Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV? |  |  |
| 721 | Do you think children living with HIV should be allowed to attend school with children who do not have HIV? |  |  |
| 722 | Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV? |  |  |
| 723 | Do people talk badly about people living with HIV, or who are thought to be living with HIV? | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 1 <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ 2 <br> DON'T KNOW/NOT SURE/DEPENDS $\ldots \ldots \ldots \ldots$  |  |
| 724 | Do people living with HIV, or thought to be living with HIV, lose the respect of other people? |  |  |
| 725 | Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV. |  |  |
| 726 | Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV? |  |  |
| 727 | CHECK 701: <br> HEARD ABOUT HIV OR AIDS <br> a) Apart from HIV, have you heard about other infections that can be transmitted through sexual contact? <br> NOT HEARD ABOUT <br> HIV OR AIDS <br> b) Have you heard about infections that can be transmitted through sexual contact? |  |  |


| SECTION 7. HIV/AIDS |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 728 | CHECK 414: <br> HAS HAD SEXUAL INTERCOURSE | NEVER HAD SEXUAL $\square$ INTERCOURSE | $\rightarrow 736$ |
| 729 | CHECK 727: HEARD ABOUT OTHER SEXUALLY TRAN <br> YES $\square$ | MITTED INFECTIONS? $\mathrm{NO} \square$ | $\rightarrow 731$ |
| 730 | 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? |  |  |
| 731 | Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis? |  |  |
| 732 | Sometimes men have a sore or ulcer near their penis. During the last 12 months, have you had a sore or ulcer on or near your penis? |  |  |
| 733 | CHECK 730, 731 AND 732: <br> HAS HAD AN INFECTION (ANY 'YES') | HAS NOT HAD AN $\square$ INFECTION OR DOES NOT KNOW | $\rightarrow 736$ |
| 734 | The last time you had (PROBLEM FROM 730/731/732), did you seek any kind of advice or treatment? |  | $\rightarrow 736$ |
| 735 | Where did you go? <br> Any other place? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. |  |  |
| 736 | If a wife knows her husband has a disease that she can get from doing man business, is she justified in asking that they use a condom when they do man business? |  |  |
| 737 | Is a wife justified in refusing to do man business with her husband when she knows he has sex with other women? |  |  |

SECTION 8. OTHER HEALTH ISSUES

| NO. | QUESTIONS AND FILTERS | CODING CA | IES | SKIP |
| :---: | :---: | :---: | :---: | :---: |
| 808 | Do you currently smoke tobacco every day, some days, or not at all? | EVERY DAY SOME DAYS NOT AT ALL | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{array}{\|l} \longrightarrow 811 \\ \longrightarrow 810 \end{array}$ |
| 809 | In the past, have you smoked tobacco every day? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\rightarrow 812$ |
| 810 | In the past, have you ever smoked tobacco every day, some days, or not at all? | EVERY DAY <br> SOME DAYS <br> NOT AT ALL |  | $\forall \rightarrow 813$ |
| 811 | 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. <br> IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'. <br> a) Manufactured cigarettes? <br> b) Kreteks? <br> c) Pipes full of tobacco? <br> d) Cigars, cheroots, or cigarillos? <br> e) Number of water pipe/shisha sessions? <br> f) Any others? | a) MANUFACTURED CIGARETTES <br> b) KRETEKS <br> c) PIPES FULL OF TOBACCO <br> d) CIGARS, CHEROOTS, OR CIGARILLOS <br> e) NUMBER OF WATER PIPE SESSIONS <br> f) OTHERS | NUMBER DAILY | $\rightarrow 813$ |
| 812 | On average, how many of the following products do you currently smoke each week? Also, let me know if you use the product, but not every week. <br> IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'. <br> a) Manufactured cigarettes? <br> b) Kreteks? <br> c) Pipes full of tobacco? <br> d) Cigars, cheroots, or cigarillos? <br> e) Number of water pipe/shisha sessions? <br> f) Any others? | a) MANUFACTURED CIGARETTES <br> b) KRETEKS <br> c) PIPES FULL OF TOBACCO <br> d) CIGARS, CHEROOTS, OR CIGARILLOS <br> e) NUMBER OF WATER PIPE SESSIONS <br> f) OTHERS | NUMBER WEEKLY |  |

SECTION 8. OTHER HEALTH ISSUES


SECTION 8. OTHER HEALTH ISSUES



| EBOLA |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES | SKIP |
| 907 | Where did you seek advice or treatment? <br> Anywhere else? <br> PROBE TO IDENTIFY THE TYPE OF SOURCE. <br> IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. | PUBLIC SECTOR <br> GOVERNMENT HOSPITAL ................ A <br> GOVERNMENT HEALTH CENTER ......... B <br> GOVERNMENT HEALTH CLINIC ............. C <br> MOBILE CLINIC .................................. D <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS A HEALTHCARE WORKER ..... E <br> OTHER PUBLIC SECTOR <br> PRIVATE MEDICAL SECTOR <br> PRIVATE HOSPITAL/ CENTER/ CLINIC ..... G <br> PHARMACY <br> PRIVATE DOCTOR $\qquad$ <br> MOBILE CLINIC <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS A HEALTHCARE WORKER ..... K <br> OTHER PRIVATE MEDICAL SECTOR <br> OTHER SOURCE <br> EBOLA TREATMENT UNIT . . . . . . . . . . . . . . . . M <br> SHOP ........................................... <br> TRADITIONAL PRACTITIONER <br> RELATIVE/FRIEND/NEIGHBOR <br> WHO IS NOT A HEALTHCARE WORKER $P$ <br> BLACK BAGGER/ DRUG PEDDLER $\qquad$ <br> OTHER $\qquad$ |  |
| 908 | Were you admitted to an Ebola treatment unit or ETU during the Ebola time in Liberia? |  | $\rightarrow 911$ |
| 909 | In what month and year were you admitted to an Ebola treatment unit or ETU? | MONTH $\qquad$ $\square$ <br> DON'T KNOW MONTH <br> YEAR $\qquad$ |  |
| 910 | In what county was the Ebola treatment unit or ETU? |  |  |



| EBOLA |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| NO. | QUESTIONS AND FILTERS | CODING CATEGORIES |  | SKIP |
| 921A | Have you ever worked in a health facility? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 2 |  |
| 922 | During the Ebola time in Liberia, did you care for someone at home who had Ebola? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | 1 |  |
| 922A | Have you ever gone to the bush to hunt or catch animals? | $\begin{aligned} & \text { YES } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\longrightarrow 923$ |
| 922B | What kinds of animals have you hunted or caught in the bush? <br> Any other kind of animal? <br> RECORD ALL MENTIONED. | BUSH HOG <br> BAT <br> BIRDS <br> DEER <br> GROUNDHOG <br> MONKEY <br> PORCUPINE <br> OTHER | $\begin{gathered} \text { A } \\ \text { B } \\ \text { C } \\ \text { D } \\ \text { E } \\ \text { F } \\ \text { G } \\ \text { X } \end{gathered}$ |  |
| 922C | What did you do with the animal(s) once you caught (it/them)? <br> Anything else? <br> RECORD ALL MENTIONED. | BUTCHER/SKIN/CLEAN THE ANIMAL COOK THE ANIMAL <br> EAT THE ANIMAL <br> SELL THE ANIMAL <br> OTHER | $\begin{aligned} & \text { A } \\ & \text { B } \\ & \text { C } \\ & \text { D } \\ & \text { X } \end{aligned}$ |  |
| 923 | RECORD THE TIME. | HOURS <br> MINUTES |  |  |

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COMMENTS ON SPECIFIC QUESTIONS:
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$\qquad$

ANY OTHER COMMENTS:
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$\qquad$

SUPERVISOR'S OBSERVATIONS

## EDITOR'S OBSERVATIONS

GOVERNMENT OF LIBERIA
LIBERIA INSTITUTE OF STATISTICS AND GEO-INFORMATION SERVICES




|  |  | CHILD 1 | CHILD 2 | CHILD 3 |
| :---: | :---: | :---: | :---: | :---: |
| 102 | FROM TABLET'S REPORT: <br> WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER FROM HOUSEHOLD QUESTIONNAIRE. | NAME <br> AGE <br> LINE <br> NUMBER $\square$ | NAME <br> AGE <br> LINE <br> NUMBER $\square$ | NAME $\qquad$ <br> AGE $\square$ <br> LINE <br> NUMBER $\square$ |
| 109 | CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS? | 0-5 MONTHS $\ldots \ldots \ldots \quad 1$ (SKIP TO 114) |  |  |
| 110 | WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ |
| 111 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT. | 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. We ask that all children born in 2014 or later take part in anemia testing in this survey and give a few drops of blood from a finger or heel. 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. <br> 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 shared with anyone other than members of our survey team. <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you allow (NAME OF CHILD) to participate in the anemia test? |  |  |
| 112 | CIRCLE THE CODE AND SIGN YOUR NAME. |  |  |  |
| 113 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET. |  |  |  |
| 114 | GO BACK TO 103 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF THE NEXT PAGE; IF NO MORE CHILDREN, GO TO 201. |  |  |  |



|  |  | CHILD 4 | CHILD 5 | CHILD 6 |
| :---: | :---: | :---: | :---: | :---: |
| 102 | FROM TABLET'S REPORT: <br> WRITE CHILD'S COMPLETE FIRST/LAST NAME, AGE, AND LINE NUMBER FROM HOUSEHOLD QUESTIONNAIRE. | NAME $\qquad$ AGE $\square$ LINE NUMBER $\qquad$ $\square$ | NAME $\qquad$ AGE $\square$ <br> LINE NUMBER $\qquad$ $\square$ | NAME $\qquad$ <br> AGE $\square$ <br> LINE <br> NUMBER $\square$ |
| 109 | CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS? |  |  |  |
| 110 | WRITE THE NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR THE CHILD | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ | NAME OF PARENT/ADULT RESPONSIBLE <br> NAME $\qquad$ |
| 111 | ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT. | 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. We ask that all children born in 2014 or later take part in anemia testing in this survey and give a few drops of blood from a finger or heel. 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. <br> 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 shared with anyone other than members of our survey team. <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you allow (NAME OF CHILD) to participate in the anemia test? |  |  |
| 112 | CIRCLE THE CODE AND SIGN YOUR NAME. |  |  |  |
| 113 | RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA PAMPHLET. |  |  |  |
| 114 | GO BACK TO 103 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE CHILDREN, GO TO 201. |  |  |  |


| 201 | INTERVIEWER TO COMPLETE Q. 202-204A USING TABLET REPORT <br> USE THE APPROPRIATE OPTION FROM THE INTERVIEWER'S MENU TO LIST ALL WOMEN AGE $15-49$ ELIGIBLE FOR BIOMARKER TESTING. IN EACH COLUMN, WRITE THE COMPLETE NAME, AGE AND LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. ALSO CIRCLE THE APPROPRIATE CODE FOR QUESTION 203. IF THE WOMAN'S AGE IS 15-17, COMPLETE QUESTION 204 USING THE MARITAL STATUS INFORMATION PRINTED IN THE TABLET'S REPORT. <br> IF THERE ARE MORE THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S). |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| 202 | FROM TABLET'S REPORT: <br> WRITE WOMAN'S AGE <br> WRITE WOMAN'S LINE NUMBER | NAME $\qquad$ AGE $\square$ <br> LINE <br> NUMBER $\square$ | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\square$ | NAME $\qquad$ AGE $\square$ <br> LINE NUMBER $\square$ |
| 203 | FROM TABLET'S REPORT: <br> CIRCLE CODE FOR AGE GROUP. | 15-17 YEARS $\ldots \ldots \ldots \ldots$. $18-49$ YEARS $\ldots \ldots \ldots \ldots$ SKIP TO 204A |  | $15-17$ YEARS $\ldots \ldots \ldots \ldots .$. $18-49$ YEARS $\ldots \ldots \ldots .$. SKIP TO 204A |
| 204 | FROM TABLET'S REPORT: <br> CIRCLE CODE FOR MARITAL STATUS | CODE 4 (NEVER IN UNION) . 1 OTHER . . . . . . . . . . . . . . . . 2 | CODE 4 (NEVER IN UNION) . 1 OTHER .................... . . 2 | CODE 4 (NEVER IN UNION) . 1 OTHER . . . . . . . . . . . . . . . . 2 |
|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| 204A | NAME FROM 202. | NAME | NAME | NAME |
| 204B | BIOMARKER START FROM HERE: <br> BEFORE PROCEEDING WITH THE CONSENT STATEMENTS, ASK THE RESPONDENT HER AGE AND MARITAL STATUS TO CONFIRM THE INFORMATION IN Q203/Q204. IF THERE ARE ANY DISCREPANCIES THAT AFFECT THE INFORMED CONSENT PATTERN (MINOR VS. ADULT); GO BACK TO Q203/Q204 AND MAKE CORRECTIONS. PLEASE INFORM THE INTERVIEWER OF NEEDED ADJUSTMENTS IN THE HOUSEHOLD SCHEDULE (QH07/QH08), IF NECESSARY. |  |  |  |
| 205 | WEIGHT IN KILOGRAMS. |  |  |  |
| 206 | HEIGHT IN CENTIMETERS. |  |  |  |
| 207 | MEASURER: ENTER YOUR FIELDWORKER NUMBER. |  |  |  |


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |
| 208 | CHECK 203: AGE | 15-17 YEARS $\quad \ldots \ldots \ldots \ldots c$ $18-49$ YEARS $\ldots \ldots \ldots \ldots$ $($ SKIP TO 210 $)$ | $\begin{array}{r}\text { 15-17 YEARS } \\ 18-49 \text { YEARS } \ldots \ldots \ldots \ldots\end{array} \begin{gathered}1 \\ (\text { SKIP TO } 210)\end{gathered}{ }^{\longleftarrow}$ | 15-17 YEARS $\ldots \ldots \ldots \ldots$. $18-49$ YEARS $\begin{gathered}1 \\ \ldots . . . . . . . .\end{gathered}$ $($ SKIP TO 210) |
| 209 | CHECK 204: MARITAL STATUS |  |  |  |


|  | ASK CONSENT FOR ANEMIA TEST. | 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. <br> 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 shared with anyone other than members of our survey team. <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you take the anemia test? |  |  |
| :---: | :---: | :---: | :---: | :---: |
| E 211 <br> $N$  <br> T  <br> C  <br> O  <br> $N$  <br> $S$  <br> $E$  <br> $N$  <br> T  | CIRCLE THE CODE AND SIGN YOUR NAME. | GRANTED................ 1 RESPONDENT REFUSED ... $2-1$ <br> (SIGN AND ENTER YOUR <br> FIELDWORKER NUMBER) <br> (IF REFUSED, SKIP TO 212) <br> NOT PRESENT/OTHER (SKIP TO 212) $\square$ | GRANTED................. 1 RESPONDENT REFUSED ... $2-1$ <br> (SIGN AND ENTER YOUR <br> FIELDWORKER NUMBER) <br> (IF REFUSED, SKIP TO 212) <br> NOT PRESENT/OTHER (SKIP TO 212) $\square$ | GRANTED................. 12 RESPONDENT REFUSED ... $2-1$ <br> (SIGN AND ENTER YOUR <br> FIELDWORKER NUMBER) <br> (IF REFUSED, SKIP TO 212) <br> NOT PRESENT/OTHER $\qquad$ |
| 211A | ASK: <br> Are you pregnant? |  | YES $\quad \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ | YES $\quad \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ |



|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :--- | :--- | :--- | :--- | :--- |
| 204A | NAME FROM 202. | NAME | NAME | NAME |



## ADULT RESPONDENT CONSENT FOR RDT TESTTNG



|  |  | WOMAN 1 | WOMAN 2 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 204A | NAME FROM 202. | NAME |  | WOMAN 3 |



## MINOR RESPONDENT CONSENT FOR ANEMIA TEST

|  | ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT. | 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. <br> 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 and (NAME OF <br> PARENT/RESPONSIBLE ADULT) right away. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team. <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you take the anemia test? |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | CIRCLE THE CODE AND SIGN YOUR NAME. |  |  |  |
| 222A | ASK: <br> Are you pregnant? | YES $\quad \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$. | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ | YES $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ <br> NO $\ldots \ldots \ldots \ldots \ldots \ldots$ <br> DON'T KNOW $\ldots \ldots \ldots \ldots \ldots$ |


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :--- | :--- | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |


| A | 223 | ASK CONSENT FOR DBS COLLECTION FROM PARENT/ADULT. | As part of the survey we also are ask lead to AIDS. The HIV test is being d <br> For the HIV test, we need a few (mor and completely safe. It has never bee attached so we will not be able to tell test results either. <br> Do you have any questions? You can say yes or no. It is up to you Will you allow (NAME OF MINOR) to | people all over the country to take a e to see how many people have HIV. <br> drops of blood from a finger. The equip used before and will be thrown away ou the test results. No one else will be <br> decide. <br> ve blood for the HIV testing? | HIV test. HIV is the virus that can <br> ment used to take the blood is clean er each test. No names will be ble to know (NAME OF MINOR)'s |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 224 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. |  |  |  |



|  |  | WOMAN 1 | WOMAN 2 |  |
| :--- | :--- | :--- | :--- | :--- |
| $204 A$ | NAME FROM 202. | NAME | NAME | WOMAN 3 |

## PARENTAL/RESPONSTBLE ADULT CONSENT FOR ADDTTIONAL TESTTNG




|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :--- | :--- | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |

PARENTAL/RESPONSIBLE ADULT CONSENT FOR RDT TESTTNG

|  | 231 | ASK CONSENT FOR RDT TEST FROM PARENT/ADULT. | If you want (NAME OF MINOR) to kn result. The testing is free and we will <br> For the rapid HIV test, we need a few hospitals in Liberia. The equipment u before and will be thrown away after <br> If the test is positive, I will give (NAME with medical personnel, as is recomm <br> Do you have any questions? <br> You can say yes or no. It is up to you Will you allow (NAME OF MINOR) to | her HIV status right now, we can do fer counseling before and after the tes <br> more) drops of blood from a finger. We d to take the blood is clean and comp ch test. The result of the test will be a <br> OF MINOR) a referral form to go to the nded by the Ministry of Health. <br> decide. <br> ve blood for rapid HIV testing? | apid diagnostic test and tell her the <br> will use the same rapid tests used in tely safe. It has never been used ilable in about 15 minutes. <br> earest health facility for follow up |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 232 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. |  |  |  |



|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :--- | :--- | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |


| 235 | PREPARE EQUIPMENT AND SUPPLIES ONLY FOR THE TEST(S) FOR WHICH CONSENT HAS BEEN OBTAINED AND PROCEED WITH THE TEST(S). |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 235A | PLACE BAR CODE LABEL. | PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT $\ldots \ldots .9999$ REFUSED ............ 99995 OTHER ............. 99996 PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. |  | PUT THE 1ST BAR CODE LABEL HERE. <br> NOT PRESENT . ...... 99994 <br> REFUSED . . . . . . . . . . . . 99995 <br> OTHER . . . . . . . . . . . . . . 99996 <br> PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. |
| 236 | ADDITIONAL TESTS. | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 228 AND 230. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 228 AND 230. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. | IF ADULT RESPONDENT, CHECK 215; IF MINOR RESPONDENT, CHECK 228 AND 230. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. |
| 237 | RECORD <br> HEMOGLOBIN <br> LEVEL HERE AND IN ANEMIA PAMPHLET. |  |  |  |


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :--- | :--- | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |


| 239 | RECORD THE RESULT OF THE "DETERMINE HIV RDT" HERE. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 240 | RECORD THE RESULT OF THE "SD BIOLINE HIV RDT" HERE. |  |  |  |
| 241 | RECORD THE <br> RESULT OF THE <br> "UNIGOLD HIV RDT" |  |  |  |


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 204A | NAME FROM 202. | NAME | NAME | NAME |
| 242 | IF 239 AND 240 ARE POSITIVE <br> OR <br> 239 AND 241 ARE POSITIVE, <br> RESPONDENT IS HIV POSITIVE: <br> INFORM SURVEY PARTICIPANT ABOUT POSITIVE HIV STATUS AND PROVIDE POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV CARE AND TREATMENT SERVICES ARE AVAILABLE. <br> SKIP TO 245 |  |  |  |
| 243 | IF 239 IS NEGATIVE <br> OR <br> 240 AND 241 ARE NEGATIVE, <br> RESPONDENT IS HIV NEGATIVE: <br> INFORM THE RESPONDENT OF NEGATIVE TEST RESULT, AND CONDUCT POST-TEST COUNSELING. |  |  |  |
| 245 | WHILE TESTING THIS PERSON, WAS ANY RDT INVALID/DID ANY RDT FAIL TO RUN, THAT IS, THE CONTROL BAND DID NOT APPEAR? | RDT CONDUCTED, <br> YES ANY INVALID $\qquad$ RDT CONDUCTED, <br> NONE INVALID $\qquad$ . 2 <br> NO RDT CONDUCTED <br> (SKIP TO 249) | RDT CONDUCTED, <br> YES ANY INVALID $\qquad$ RDT CONDUCTED, NONE INVALID ......... $\begin{gathered}2 \\ \text { NO RDT CONDUCTED } \ldots . . \\ \text { (SKIP TO 249) }\end{gathered}$ $\left.\begin{array}{c}\longleftrightarrow\end{array}\right]$ | RDT CONDUCTED, <br> YES ANY INVALID RDT CONDUCTED, <br> NONE INVALID NO RDT CONDUCTED (SKIP TO 249) |
| 246 | RECORD NUMBER OF INVALID RESULTS USING "DETERMINE HIV RDT" | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |
| 247 | RECORD NUMBER OF INVALID RESULTS USING "SD BIOLINE HIV RDT" | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |  |
| 248 | RECORD NUMBER OF INVALID RESULTS USING "UNIGOLD HIV RDT" HERE. | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |
| 249 | GO TO 401 IN THE NEXT SECTION OF THIS QUESTIONNAIRE AND CONTINUE WITH THE SAME WOMAN. |  |  |  |


| 301 | INTERVIEWER TO COMPLETE Q. 302-304A USING TABLET REPORT <br> USE THE APPROPRIATE OPTION FROM THE INTERVIEWER'S MENU TO LIST ALL MEN AGE $15-59$ ELIGIBLE FOR BIOMARKER TESTING. IN EACH COLUMN, WRITE THE COMPLETE NAME, AGE AND LINE NUMBER AS THEY APPEAR IN THE REPORT ON YOUR TABLET. ALSO CIRCLE THE APPROPRIATE CODE FOR QUESTION 303. IF THE MAN'S AGE IS 15-17, COMPLETE QUESTION 304 USING THE MARITAL STATUS INFORMATION PRINTED IN THE TABLET'S REPORT. <br> IF THERE ARE MORE THAN THREE MEN, USE ADDITIONAL QUESTIONNAIRE(S). |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | MAN 1 | MAN 2 | MAN 3 |
| 302 | FROM TABLET'S REPORT: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME $\qquad$ <br> AGE <br> LINE <br> NUMBER $\square$ | NAME $\qquad$ AGE $\square$ <br> LINE NUMBER $\square$ | NAME $\qquad$ AGE $\qquad$ $\square$ <br> LINE NUMBER $\square$ |
| 303 | FROM TABLET'S REPORT: <br> CIRCLE CODE FOR AGE GROUP. |  |  |  |
| 304 | FROM TABLET'S REPORT: <br> CIRCLE CODE FOR MARITAL STATUS | CODE 4 (NEVER IN UNION) . 1 OTHER . . . . . . . . . . . . . . . . 2 | CODE 4 (NEVER IN UNION) . 1 OTHER . . . . . . . . . . . . . . . . 2 | CODE 4 (NEVER IN UNION) . 1 OTHER . . . . . . . . . . . . . . . . 2 |
|  |  | MAN 1 | MAN 2 | MAN 3 |
| 304A | NAME FROM 302. | NAME | NAME | NAME |
| 304B | BIOMARKER START BEFORE PROCEEDI THE INFORMATION (MINOR VS. ADULT); ADJUSTMENTS IN T | ROM HERE: <br> WITH THE CONSENT STATEMENTS Q303/Q304. IF THERE ARE ANY DISC BACK TO Q303/Q304 AND MAKE C HOUSEHOLD SCHEDULE (QH07/QH | ASK THE RESPONDENT HIS AGE A EPANCIES THAT AFFECT THE INFO RRECTIONS. PLEASE INFORM THE 8), IF NECESSARY. | D MARITAL STATUS TO CONFIRM RMED CONSENT PATTERN NTERVIEWER OF NEEDED |
| 308 | CHECK 303: AGE | $\begin{array}{ccc}\text { 15-17 YEARS } & \ldots \ldots \ldots \ldots & 1 \\ 18-59 \text { YEARS } & \ldots . . . . . & 2 \\ & (\text { SKIP TO 310) }\end{array}$. | $\begin{array}{cccc}\text { 15-17 YEARS } & \ldots \ldots \ldots \ldots & 1 \\ \text { 18-59 YEARS } & \ldots \ldots \ldots \ldots & 2 \\ (\text { SKIP TO 310) }\end{array}$ |  |
| 309 | CHECK 304: MARITAL STATUS |  |  |  |


|  |  | MAN 1 | MAN 2 |  |
| :--- | :--- | :--- | :--- | :--- |
| 304 A | NAME FROM 302. | NAME | MAN 3 |  |

ADULT RESPONDENT CONSENTFOR DBS COLLECTION


| R | 314 | ASK CONSENT FOR HIV RDT TEST. | If you want to know your HIV status rig free and we will offer counseling befor <br> For the rapid HIV test, we need a few hospitals in Liberia. The equipment u before and will be thrown away after <br> If the test is positive, I will give you a personnel, as is recommended by the <br> Do you have any questions? <br> You can say yes or no. It is up to you Will you give blood for rapid HIV testin | now, we can do a rapid diagnostic te and after the test. <br> more) drops of blood from a finger. We d to take the blood is clean and compl ch test. The result of the test will be av <br> erral form to go to the nearest health Ministry of Health. <br> decide. <br> ? | and tell you the result. The testing is <br> I use the same rapid tests used in ly safe. It has never been used able in about 15 minutes. <br> ity for follow up with medical |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 315 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. |  |  |  |


|  |  | MAN 1 | MAN 2 |  |
| :--- | :--- | :---: | :---: | :---: |
| $304 A$ | NAME FROM 302. | NAME | NAME 3 |  |


|  | 316 | WRITE THE NAME OF THE <br> PARENT/OTHER <br> ADULT <br> RESPONSIBLE FOR ADOLESCENT | NAME | NAME |  | NAME |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PARENTAL/RESPONSTBLEADULT CONSENT FOR DBS COLLECTION |  |  |  |  |  |  |  |
| $P$ <br> $A$ <br> $R$ <br> E <br> N <br> T <br>  <br> - | 317 | ASK CONSENT FOR <br> DBS COLLECTION <br> FROM <br> PARENT/ADULT. | As part of the survey we also are asking people all over the country to take an HIV test. HIV is the virus that can lead to AIDS. The HIV test is being done to see how many people have HIV. <br> For the HIV test, we need a few (more) 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. No names will be attached so we will not be able to tell you the test results. No one else will be able to know (NAME OF MINOR)'s test results either. <br> Do you have any questions? <br> You can say yes or no. It is up to you to decide. <br> Will you allow (NAME OF MINOR) to give blood for the HIV testing? |  |  |  |  |
| A <br> D <br> U <br> L <br> T <br>  <br> $C$ <br> $C$ <br> 0 <br> $N$ <br> $S$ | 318 | CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. |  | GRAN PARE RES ADU (SIG FIEL (IF RE NOT P |  | GRAN PAREN RES ADU <br> (SIG FIEL (IF REF NOT P | D . . . . . . . . . . . . . 1    <br> OTHER     <br> ONSIBLE     <br> REFUSED     |



|  |  | MAN 1 | MAN 2 | MAN 3 |
| :--- | :--- | :---: | :---: | :---: |
| $304 A$ | NAME FROM 302. | NAME | NAME |  |


|  | 321 | ASK CONSENT FOR ADDITIONAL TESTING FROM PARENT/ADULT. | We ask you to allow the National Ref additional tests or research. We are <br> The blood sample will not have any $n$ have to agree. If you do not want the participate in the HIV testing in this survin <br> Will you allow us to keep the blood s | ence Laboratory to store part of the blo certain about what additional tests mig <br> e or other data attached that could id ood sample stored for additional testing ey. <br> ple stored for additional testing? | sample at the laboratory for be done. <br> ify (NAME OF MINOR). You do not NAME OF MINOR) can still |
| :---: | :---: | :---: | :---: | :---: | :---: |



|  |  | MAN 1 | MAN 2 |  |
| :--- | :--- | :---: | :---: | :---: |
| 304A | NAME FROM 302. | NAME |  |  |

\begin{tabular}{|c|c|c|c|c|c|}
\hline \begin{tabular}{l} 
P \\
A \\
R \\
E \\
N \\
T \\
- \\
\hline
\end{tabular} \& 325 \& ASK CONSENT FOR RDT TEST FROM PARENT/ADULT. \& \multicolumn{3}{|l|}{\begin{tabular}{l}
If you want (NAME OF MINOR) to know her HIV status right now, we can do a rapid diagnostic test and tell him the result. The testing is free and we will offer counseling before and after the test. \\
For the rapid HIV test, we need a few (more) drops of blood from a finger. We will use the same rapid tests used in hospitals in Liberia. 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 result of the test will be available in about 15 minutes. \\
If the test is positive, I will give (NAME OF MINOR) a referral form to go to the nearest health facility for follow up with medical personnel, as is recommended by the Ministry of Health. \\
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 give blood for rapid HIV testing?
\end{tabular}} \\
\hline A
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T

$C$
$C$
$O$
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$S$
E \& 326 \& CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. \&  \&  \&  <br>
\hline O
$R$
$R$
$R$
E
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N \& 327 \& \begin{tabular}{l}
ASK CONSENT FOR <br>
RDT TEST FROM <br>
MINOR <br>
RESPONDENT.

 \& 

MTNOR RESPONDEN <br>
If you want to know your HIV status rig free and we will offer counseling befo <br>
For the rapid HIV test, we need a few hospitals in Liberia. The equipment before and will be thrown away after <br>
If the test is positive, I will give you a personnel, as is recommended by th <br>
Do you have any questions? <br>
You can say yes or no. It is up to you Will you give blood for rapid HIV test

 \& 

CONSENT FOR RDT <br>
now, we can do a rapid diagnostic and after the test. <br>
more) drops of blood from a finger. W d to take the blood is clean and comp ch test. The result of the test will be a <br>
erral form to go to the nearest health Ministry of Health. <br>
decide. <br>
?

 \& 

S T <br>
and tell you the result. The testing is <br>
will use the same rapid tests used in ely safe. It has never been used lable in about 15 minutes. <br>
ility for follow up with medical
\end{tabular} <br>

\hline | C |
| :--- |
| O |
|  |
| N |
| S |
| E |
| N | \& 328 \& CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER. \& |  |
| :--- |
| NOT PRESENT/OTHER . . . . . 3 | \&  \& \[

$$
\begin{aligned}
& \text { GRANTED . . . . . . . . . . . . . . } \\
& \text { MINOR RESPONDENT } \\
& \begin{array}{llll}
\text { REFUSED } \ldots \ldots \ldots \ldots & \\
\\
& \\
\text { (SIGN) }
\end{array}
\end{aligned}
$$
\] <br>

\hline
\end{tabular}

|  |  | MAN 1 | MAN 2 |  |
| :--- | :--- | :---: | :---: | :---: |
| 304 A | NAME FROM 302. | NAME | NAME 3 |  |


| 329 | PREPARE EQUIPMENT AND SUPPLIES ONLY FOR THE TEST(S) FOR WHICH CONSENT HAS BEEN OBTAINED AND PROCEED WITH THE TEST(S). |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 329A | PLACE BAR CODE LABEL. | PUT THE 1ST BAR CODE LABEL HERE. <br> NOT PRESENT . . . . . . . 99994 <br> REFUSED . . . . . . . . . . . . 99995 <br> OTHER . . . . . . . . . . . . . 99996 <br> PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. | PUT THE 1ST BAR CODE LABEL HERE. <br> NOT PRESENT ........ 99994 <br> REFUSED . . . . . . . . . . . . 99995 <br> OTHER ................. 99996 <br> PUT THE 2ND BAR CODE LABEL ON THE RESPONDENT'S FILTER PAPER AND THE 3RD ON THE TRANSMITTAL FORM. |  |
| 330 | ADDITIONAL TESTS. | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 322 AND 324. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 322 AND 324. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. | IF ADULT RESPONDENT, CHECK 313; IF MINOR RESPONDENT, CHECK 322 AND 324. <br> IF CONSENT HAS NOT BEEN GRANTED, WRITE "NAT" ON THE FILTER PAPER. |
| 332 | RECORD THE RESULT OF THE "DETERMINE HIV RDT" HERE. |  |  |  |
| 333 | RECORD THE <br> RESULT OF THE "SD BIOLINE HIV RDT" HERE. |  |  |  |
| 334 | RECORD THE RESULT OF THE "UNIGOLD HIV RDT" |  |  |  |


|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 304A | NAME FROM 302. | NAME | NAME | NAME |
| 335 | IF 332 AND 333 ARE POSITIVE <br> OR <br> 332 AND 334 ARE POSITIVE, <br> RESPONDENT IS HIV POSITIVE: <br> INFORM SURVEY PARTICIPANT ABOUT POSITIVE HIV STATUS AND PROVIDE POST-TEST COUNSELING. AS PART OF POST-TEST COUNSELING, PROVIDE A REFERRAL TO THE NEAREST HEALTH FACILITY WHERE HIV CARE AND TREATMENT SERVICES ARE AVAILABLE. <br> SKIP TO 337 |  |  |  |
| 336 | IF 332 IS NEGATIVE <br> OR <br> 333 AND 334 ARE NEGATIVE, <br> RESPONDENT IS HIV NEGATIVE: <br> INFORM THE RESPONDENT OF NEGATIVE TEST RESULT, AND CONDUCT POST-TEST COUNSELING. |  |  |  |
| 337 | WHILE TESTING THIS PERSON, WAS ANY RDT INVALID/DID ANY RDT FAIL TO RUN, THAT IS, THE CONTROL BAND DID NOT APPEAR? | RDT CONDUCTED, <br> YES ANY INVALID $\ldots \ldots$ <br> RDT CONDUCTED, <br> NONE INVALID $\ldots \ldots \ldots$ <br> NO RDT CONDUCTED $\ldots \ldots$ <br> (SKIP TO 341 ) | RDT CONDUCTED, <br> YES ANY INVALID ....... 1 RDT CONDUCTED, NONE INVALID NO RDT CONDUCTED (SKIP TO 341) | RDT CONDUCTED, <br> YES ANY INVALID RDT CONDUCTED, NONE INVALID NO RDT CONDUCTED (SKIP TO 341) |
| 338 | RECORD NUMBER OF INVALID RESULTS USING "DETERMINE HIV RDT" | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |
| 339 | RECORD NUMBER OF INVALID RESULTS USING "SD BIOLINE HIV RDT" | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |
| 340 | RECORD NUMBER OF INVALID RESULTS USING "UNIGOLD HIV RDT" HERE. | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 | RECORD NUMBER OF INVALID RESULTS, IF NONE INVALID, ENTER 00 |
| 341 | GO TO 501 IN THE NEXT SECTION OF THIS QUESTIONNAIRE AND CONTINUE WITH THE SAME MAN. |  |  |  |

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EDITOR'S OBSERVATIONS

GOVERNMENT OF LIBERIA
LIBERIA INSTITUTE OF STATISTICS AND GEO-INFORMATION SERVICES


CONSENT TO FOLLOW-UP STUDY FOR WOMEN AGE 15-49

|  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: |
| 401 | COPY INFORMATION FROM Q.202: <br> NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | COPY INFORMATION FROM Q.202: <br> NAME $\qquad$ <br> AGE <br> .............. $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | COPY INFORMATION FROM Q.202: <br> NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ |
| 402 | COPY INFORMATION FROM Q.203: | COPY INFORMATION FROM Q.203: | COPY INFORMATION FROM Q.203: |
| 403 | COPY INFORMATION FROM Q.204: <br>  | COPY INFORMATION FROM Q.204: <br> CODE 4 (NEVER IN UNION) <br> (SKIP TO 406) <br> OTHER <br> 2 | COPY INFORMATION FROM Q.204: <br>  |

ADULT RESPONDENT CONSENT FOR FOLLOW UP STUDY
404
In the next few days, another team from the Ministry of Health would like to visit you to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from your arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since your participation will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need.

Do you have any questions? Do you agree to another visit by a Ministry of Health team?


CONSENT TO FOLLOW-UP STUDY FOR WOMEN AGE 15-49


| 406 | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT |
| :---: | :---: | :---: | :---: |
| PARENTAL/RESPONSTBLE ADULT CONSENT FOR FOLLOW UP STUDY |  |  |  |
| 407 | In the next few days, another team from the Ministry of Health would like to visit (NAME OF MINOR) to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from (NAME OF MINOR)'s arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since the participation of (NAME OF MINOR) will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need. <br> Do you have any questions? Do you agree for (NAME OF MINOR) to get another visit by a Ministry of Health team? |  |  |
| 408 | $\left.\begin{array}{llll}\text { GRANTED . . . . . . . . . . . . . . . . . } & 1 \\ \text { PARENT/OTHER RESPONSIBLE } \\ \text { ADULT REFUSED } \quad . . . . . & 2\end{array}\right]$ |  |  |
|  | (SIGN AND ENTER YOUR FIELDWORKER NUMBER) $\square$ (IF REFUSED, SKIP TO 412) | (SIGN AND ENTER YOUR FIELDWORKER NUMBER) <br> (IF REFUSED, SKIP TO 412) | (SIGN AND ENTER YOUR FIELDWORKER NUMBER) <br> (IF REFUSED, SKIP TO 412) |
|  | NOT PRESENT/OTHER (SKIP TO 412) $\square$ | NOT PRESENT/OTHER (SKIP TO 412) $\square$ | NOT PRESENT/OTHER (SKIP TO 412) $\square$ |

## MINOR RESPONDENT CONSENT FOR FOLLOW UP STUDY

| 409 | In the next few days, another team from the Ministry of Health would like to visit you to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from your arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since your participation will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need. <br> Do you have any questions? Do you agree to another visit by a Ministry of Health team? |  |  |
| :---: | :---: | :---: | :---: |
| 410 |  |  |  |
| 411 | PLACE THE WHOLE BARCODE LABEL HERE. <br> NOT PRESENT <br> 99994 <br> REFUSED ................... 99995 <br> OTHER ....................... 99996 | PLACE THE WHOLE BARCODE LABEL HERE. | PLACE THE WHOLE BARCODE LABEL HERE. |
| 412 | GO BACK TO 204A IN NEXT COLUMN OF T IF NO MORE WOMEN, GO TO 301. | QUESTIONNAIRE OR IN THE FIRST COLU | OF AN ADDITIONAL QUESTIONNAIRE; |


|  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: |
| 501 | COPY INFORMATION FROM 302: <br> NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | COPY INFORMATION FROM 302: <br> NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | COPY INFORMATION FROM 302: <br> NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ |
| 502 | COPY INFORMATION FROM 303: | COPY INFORMATION FROM 303: | COPY INFORMATION FROM 303: |
| 503 | COPY INFORMATION FROM 304: <br>  | COPY INFORMATION FROM 304: <br>  | COPY INFORMATION FROM 304: <br> CODE 4 (NEVER IN UNION) (SKIP TO 506) <br> OTHER <br> 2 |
| ADULT RESPONDENT CONSENT FOR FOLLOW UP STUDY |  |  |  |
| 504 | In the next few days, another team from the Ministry of Health would like to visit you to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from your arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since your participation will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need. <br> Do you have any questions? Do you agree to another visit by a Ministry of Health team? |  |  |
| 505 |  |  |  |

CONSENT TO FOLLOW-UP STUDY FOR MEN AGE 15-59


| 506 | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT | NAME OF THE PARENT/OTHER ADULT RESPONSIBLE FOR ADOLESCENT |
| :---: | :---: | :---: | :---: |
| PARENTAL/RESPONSTBLE ADULT CONSENT FOR FOLLOW UP STUDY |  |  |  |
| 507 | In the next few days, another team from the Ministry of Health would like to visit (NAME OF MINOR) to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from (NAME OF MINOR)'s arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since the participation of (NAME OF MINOR) will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need. |  |  |
| 508 |  |  |  |
|  | (SIGN AND ENTER YOUR FIELDWORKER NUMBER) (IF REFUSED, SKIP TO 512) NOT PRESENT/OTHER $\quad \ldots \ldots .3$ (SKIP TO 512) |  |  |


| MINOR RESPONDENT CONSENT FOR FOLLOW UP STUD |  |  |  |
| :---: | :---: | :---: | :---: |
| 509 | In the next few days, another team from the Ministry of Health would like to visit you to conduct additional blood testing for different health conditions. Knowing how many Liberians have health conditions helps the Ministry of Health plan programs to help keep our people healthy. If you agree, they will collect a small amount of blood from your arm. The information from the blood tests will help the Ministry of Health plan vaccination and treatment programs. You do not have to permit the visit but we hope you will agree since your participation will help the Ministry know which communities need help to prevent certain kinds of illnesses and what kind of help they need. <br> Do you have any questions? Do you agree to another visit by a Ministry of Health team? |  |  |
| 510 |  |  |  |
| 511 |  |  |  |
| 512 | GO BACK TO 301 IN NEXT COLUMN OF T IF NO MORE MEN, END QUESTIONNAIRE |  |  |

$\square$

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49

|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 601 | CHECK 401: <br> WRITE WOMAN'S AGE <br> WRITE WOMAN'S LINE NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\square$ | NAME <br> AGE $\square$ <br> LINE <br> NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\square$ |
| 602 | CHECK 402: AGE | 15-17 YEARS $\ldots \ldots \ldots \ldots{ }^{1}$ $18-49$ YEARS $\ldots \ldots \ldots \ldots{ }^{2}$ (SKIP TO 603A) | 15-17 YEARS $\ldots \ldots \ldots \ldots$ $18-49$ YEARS $\ldots \ldots \ldots \ldots$ (SKIP TO 603A) | 15-17 YEARS $\ldots \ldots \ldots \ldots$ $18-49$ YEARS $\ldots \ldots \ldots \ldots$ (SKIP TO $603 A)$ |
| 603 | CHECK 403: MARITAL STATUS |  |  |  |
| 603A | CHECK CONSENT FOR FOLLOW UP: IS BARCODE PRESENT? | $\mathrm{NO} \rightarrow$ SKIP TO 640 | $\mathrm{NO} \rightarrow$ SKIP TO 640 | $\mathrm{NO} \rightarrow$ SKIP TO 640 ( YES |
| 604 | READ <br> INTRODUCTION <br> AND PURPOSE TO <br> RESPONDENT | The National Public Health Institute of Liberia (NPHIL), the Ministry of Health, the World Health Organization, the United States Centers for Disease Control and other Liberia Demographic Health Survey partners are conducting a national survey about health issues. This includes testing for diseases like hepatitis and whether people's bodies carry the memory of illnesses they had in the past. The memory of some illnesses in your blood can protect you from getting that illness again. I would like to discuss this part of the survey with you. If I use some words that you do not understand, please ask me to explain. <br> The hepatitis $B \& C$ diseases are a result of an infection with the hepatitis $B \& C$ virus. These diseases may cause liver damage and other serious health problems. We are inviting you to allow us to examine your blood in order to know how many people have the hepatitis $B \& C$ virus. This information is very important to help the Ministry of Health to plan for programs to prevent and treat this disease. The results of the tests for hepatitis will be shared with you by phone in about three months. If the test shows that you have the hepatitis B or C virus, we will give you a referral to County Health Team or other health facility for counseling and advice about treatment. <br> The Ministry of Health is also interested in testing people for the memory of the Ebola virus disease. No one in Liberia has Ebola right now. We are inviting you to allow us to examine your blood for signs of remembering the Ebola virus because there is still a lot about Ebola virus disease that we do not know. What we do know is that people who were sick with Ebola carry a memory of Ebola in their blood. This memory protects them from getting Ebola again. We are looking to learn more about the differences in people whose bodies do and do not remember Ebola virus. We do not know if people can become infected with Ebola virus but not feel sick or how many Liberians are protected from Ebola today. We are inviting you to allow us to examine your blood for the memory of the Ebola virus. This information will help our Ministry of Health know where to offer vaccination programs and where to work closely with communities if Ebola ever returns. |  |  |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49


| 605 | READ PROCEDURE TO RESPONDENT | If you agree to participate in this part of the survey, we would like to collect 1 teaspoon (4 ml ) of blood in total from a vein in your arm. We will test this blood later in the laboratory in order to know if your body remembers the Ebola virus and if you have hepatitis B or C. Blood collection will take about 15 minutes. The equipment we will use to take the blood from your arm is clean and completely safe. We have not used it on anyone else and we will safely dispose of it when we have finished. |
| :---: | :---: | :---: |
| 606 | READ RISKS TO RESPONDENT | The risk to you from this testing is small. The testing part of the survey is not harmful although you may experience a very small pain for a short time during blood sample collection. There are very minimal risks associated with having your blood drawn. You may get some bruising where the blood is taken from your arm. If you have any bleeding, swelling or other problem later, you should tell our study staff or your health worker. |
| 607 | READ BENEFITS TO RESPONDENT | The information we collect during our survey may not help you directly but it could benefit many other people in the future because it will help the Ministry of Health plan for programs to treat hepatitis and provide better services for Ebola survivors. |
| 608 | READ CONFIDENTIALITY TO RESPONDENT | What we talk about will be kept private. The results of these test will be kept confidential. To keep your privacy, we will keep the records under a number and will not record your name. We will keep the records in locked files. Only staff from this survey will be allowed to look at them. Your name or other facts that might point to you will not appear when we report the findings of this survey. |
| 609 | READ FUTURE TESTING STATEMENT TO RESPONDENT | We would like to ask your permission to store your leftover blood for future tests. These tests may be for other health issues, which are important to the health of Liberians. This sample will be stored for an indefinite amount of time but your name will not be on the sample. Your leftover blood will not be sold or used for commercial reasons. If you do not agree to future tests to your blood samples, we will destroy your blood samples after surveyrelated testing has been completed. |
| 610 | READ <br> COST/PAYMENT <br> STATEMENT TO <br> RESPONDENT | Being part of this survey is up to you. If you decide not to participate in our survey, it will not affect any of your participation in other parts of the survey. It will not cost you or your family anything. You will not receive any money for your participation. |
| 611 | READ RIGHT TO REFUSE OR WITHDRAW TO RESPONDENT | You are free to participate in this survey or not. You can quit at any time if you wish. If you decide you do not want to take part, it will not affect any care or treatment you or your family members receive. If at any time you decide that you do not want to stay in the survey, you can leave and it will not affect any health care you or your family members receive. |
| 612 | READ PERSONS TO CONTACT TO RESPONDENT | This project has been approved by the UL PIRE Ethical Review Board. You will be offered a copy of this form to keep. If at any time you have questions about this survey you may contact the National Public Health Institute of Liberia or the UL PIRE IRB. You may also contact the National Public Health Institute of Liberia or the UL-PIRE IRB if you feel you have been harmed, or if you have questions about your rights as a survey participant. The contact person at the National Public Health Institute of Liberia is Mr. Bode Shobayo (Cell \#: 0776787871). |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49


| $\left\|\begin{array}{l} E \\ V \\ D \\ C \\ C \\ O \\ N \\ S \\ E \\ N \\ T \end{array}\right\|$ | 613 | READ TESTING FOR MEMORY OF EBOLA CONSENT TO RESPONDENT. | Would you allow me to take a sample of your blood from your arm for testing for the memory of Ebola? <br> You can say yes or no. It is up to you to decide. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 614 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ |
| E | 615 | READ HEPATITIS B AND C TESTING CONSENT TO RESPONDENT | Would you allow me to take a sample of your blood from your arm for testing for Hepatitis B and C ? <br> You can say yes or no. It is up to you to decide. |  |  |
| S <br>  <br> C <br> O <br> N <br> S <br> S <br> E <br> N | 616 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ |  |
|  | 617 | $\begin{aligned} & \text { CHECK Q. } 614 \text { AND } \\ & \text { Q. } 616 \end{aligned}$ | ONE OR MORE 'GRANTED' 1 NEITHER GRANTED ...... $\left.{ }^{2}{ }^{2}\right]$ (SKIP TO 640) | ONE OR MORE 'GRANTED' $\left.\begin{array}{c}1 \\ \text { NEITHER GRANTED ...... } \\ \hline\end{array}\right]$ (SKIP TO 640) | ONE OR MORE 'GRANTED'1 <br> NEITHER GRANTED $\ldots .$. <br> (SKIP TO 640)${ }^{2}$. |
| D | 618 | READ FUTURE TESTING CONSENT TO RESPONDENT | Do you agree for us to store your leftover blood for future testing? You can say yes or no. It is up to you to decide. |  |  |
|  | 619 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED } \ldots \\ \hline\end{array}\right]$(REQUEST RESPONDENT <br> SIGNATURE/THUMBPRINT)(INTERVIEWER SIGNATURE) <br> (SKIP TO 636A)NOT PRESENT/OTHER .... 3(SKIP TO 640) |  |  |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49



| 621 | READ THE FULL TEXT TO THE PARENT/ RESPONSIBLE ADULT | READ Q604- Q612. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 622 | READ TESTING FOR MEMORY OF EBOLA CONSENT TO RESPONDENT | Would you allow me to take a sample of blood from (NAME OF MINOR)'s arm for testing for the memory of Ebola? <br> You can say yes or no. It is up to you to decide. |  |  |
| 623 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. |  | GRANTED.............. 1 <br> RESPONDENT REFUSED ... <br>  <br>  <br>  | $\left.\begin{array}{l}\text { GRANTED ................. } 1 \\ \text { RESPONDENT REFUSED ... } 2\end{array}\right]$ |
|  |  |  |  | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT |
|  |  | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) |
|  |  | IF REFUSED SKIP TO 627 | IF REFUSED SKIP TO 627 | IF REFUSED SKIP TO 627 |
|  |  | NOT PRESENT/OTHER .... ${ }^{3}$ ² $($ SKIP TO 627) | NOT PRESENT/OTHER . ... $\left.{ }^{3}{ }^{3}\right]$ $($ SKIP TO 627) | NOT PRESENT/OTHER . ... $\quad 3$ $($ SKIP TO 627) |



EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49

|  |  | WOMAN 1 |  | WOMAN 2 |  | WOMAN 3 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 601 | CHECK 401: | NAME |  | NAME |  | NAME |  |  |
|  | WRITE WOMAN'S AGE | AGE |  | AGE $\square$ |  | AGE $\square$ |  |  |
|  | WRITE WOMAN'S LINE NUMBER | LINE <br> NUMBER |  | LINE NUMBER |  | LINE NUMBER |  |  |


| 627 | READ HEPATITIS B AND C TESTING CONSENT TO RESPONDENT | Would you allow me to take a sample of blood from (NAME OF MINOR)'s arm for testing for Hepatitis B and C? <br> You can say yes or no. It is up to you to decide. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 628 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | GRANTED............... 1 <br> RESPONDENT REFUSED ... 2 <br>   <br>   <br> (REQUEST RESPONDENT <br> SIGNATURE/THUMBPRINT)  |  | GRANTED................. 1 RESPONDENT REFUSED . . 2 |
|  |  |  |  | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) |
|  |  | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) |
|  |  | IF REFUSED SKIP TO 631 | IF REFUSED SKIP TO 631 | IF REFUSED SKIP TO 631 |
|  |  | NOT PRESENT/OTHER .... ${ }^{3}$ 3 $($ SKIP TO 631) | NOT PRESENT/OTHER .... $\left.{ }^{3}{ }^{3}\right]$ (SKIP TO 631) | NOT PRESENT/OTHER .... (SKIP TO 631) ${ }^{3} \longleftrightarrow$ |



EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR WOMEN AGE 15-49

|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 601 | CHECK 401: <br> WRITE WOMAN'S AGE <br> WRITE WOMAN'S LINE NUMBER | NAME <br> AGE <br> LINE <br> NUMBER | NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ |



## MINOR RESPONDENT CONSENT

| 634 | READ FUTURE TESTING CONSENT TO RESPONDENT | Do you agree for us to store your leftover blood for future testing? You can say yes or no. It is up to you to decide. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 635 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | GRANTED . . . . . . . . . . . . . 1 <br> RESPONDENT REFUSED . . 2 <br>   <br>   <br> (REQUEST RESPONDENT  <br> SIGNATURE/THUMBPRINT)  | GRANTED . . . . . . . . . . . . <br> RESPONDENT REFUSED . . | GRANTED . . . . . . . . . . . . <br> RESPONDENT REFUSED . . |


|  |  | WOMAN 1 | WOMAN 2 | WOMAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 601 | CHECK 401: <br> WRITE WOMAN'S AGE <br> WRITE WOMAN'S LINE NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ | NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | NAME <br> AGE <br> LINE <br> NUMBER |


| 636A | DID RESPONDENT <br> CONSENT TO <br> BLOOD <br> COLLECTION? |  |  | NO <br> SKIP TO 640 | YES | NO <br> SKIP TO 640 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 636B | PREPARE EQUIPME PROCEED WITH TH <br> ENSURE CORRECT <br> FOR ADULT REPON <br> - IF "GRANTED" <br> - IF "GRANTED" <br> - IF "GRANTED" <br> - IF "GRANTED" <br> FOR MINOR REPON <br> - IF "GRANTED" <br> - IF "GRANTED" <br> - IF "GRANTED" <br> - IF "GRANTED" <br> AFFIX THIRD BARC | AND SUPPLIES ONLY FOR THE EST(S). <br> ICKERS ARE AFFIXED TO EACH NTS: <br> ECTED IN EITHER 614 OR 616, A ECTED IN 614, AFFIX RED STICK ECTED IN 616, AFFIX BLUE STIC ECTED IN 619, AFFIX YELLOW S NTS: ECTED IN EITHER 626 OR 630, A ECTED IN 626, AFFIX RED STICK ECTED IN 630, AFFIX BLUE STIC ECTED IN 635, AFFIX YELLOW ST <br> ON HEPATITIS B \& C INFORMA | (S) FOR <br> BARC <br> (E) <br> (H) <br> KER <br> BARC <br> (E) <br> (H) <br> KER <br> SHEE | HICH CONSENT HAS | N OBT | AND |
| 637 | WAS BLOOD SAMPLE TAKEN FROM RESPONDENT? | YES $\ldots \ldots . . . . . . ~ . ~ . ~ . ~ . ~ . ~ . ~ . ~ . ~ . ~ . ~ . ~$ 1 | YES NO | . . . . . . . . . . . . . | YES NO | . . . . . . . . . . . |
| 640 | GO BACK TO 601 IN NEXT COLUMN OF THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF AN ADDITIONAL QUESTIONNAIRE; IF NO MORE WOMEN, GO TO 701. |  |  |  |  |  |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR MEN AGE 15-59

|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME $\qquad$ <br> AGE $\qquad$ <br> LINE <br> NUMBER $\qquad$ | NAME $\qquad$ <br> AGE $\qquad$ <br> LINE <br> NUMBER $\qquad$ | NAME $\qquad$ AGE $\qquad$ <br> LINE <br> NUMBER $\qquad$ |


| 702 | CHECK 502: AGE | 15-17 YEARS $\ldots \ldots \ldots \ldots \ldots$ 18-59 YEARS $\ldots \ldots \ldots \ldots{ }^{2}$ $($ SKIP TO 703A) | 15-17 YEARS $\ldots \ldots \ldots \ldots \ldots$ $18-59$ YEARS $\ldots \ldots \ldots \ldots{ }^{2}$ (SKIP TO 703A) | $\begin{gathered} \text { 15-17 YEARS } \ldots \ldots \ldots \ldots{ }^{1} \\ \text { 18-59 YEARS } \ldots \ldots \ldots \ldots{ }^{2} . \\ (\text { SKIP TO 703A) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 703 | CHECK 503: MARITAL STATUS |  |  |  |
| 703A | CHECK CONSENT FOR FOLLOW UP. IS BARCODE PRESENT? | NO $\rightarrow$ SKIP TO 740 | NO $\rightarrow$ SKIP TO 740 | NO $\rightarrow$ SKIP TO 740 YES |
| 704 | READ <br> INTRODUCTION <br> AND PURPOSE TO <br> RESPONDENT | The National Public Health Institute of Liberia (NPHIL), the Ministry of Health, the World Health Organization, the United States Centers for Disease Control and other Liberia Demographic Health Survey partners are conducting a national survey about health issues. This includes testing for diseases like hepatitis and whether people's bodies carry the memory of illnesses they had in the past. The memory of some illnesses in your blood can protect you from getting that illness again. I would like to discuss this part of the survey with you. If I use some words that you do not understand, please ask me to explain. <br> The hepatitis $B \& C$ diseases are a result of an infection with the hepatitis $B \& C$ virus. These diseases may cause liver damage and other serious health problems. We are inviting you to allow us to examine your blood in order to know how many people have the hepatitis $B \& C$ virus. This information is very important to help the Ministry of Health to plan for programs to prevent and treat this disease. The results of the tests for hepatitis will be shared with you by phone in about three months. If the test shows that you have the hepatitis B or C virus, we will give you a referral to County Health Team or other health facility for counseling and advice about treatment. <br> The Ministry of Health is also interested in testing people for the memory of the Ebola virus disease. No one in Liberia has Ebola right now. We are inviting you to allow us to examine your blood for signs of remembering the Ebola virus because there is still a lot about Ebola virus disease that we do not know. What we do know is that people who were sick with Ebola carry a memory of Ebola in their blood. This memory protects them from getting Ebola again. We are looking to learn more about the differences in people whose bodies do and do not remember Ebola virus. We do not know if people can become infected with Ebola virus but not feel sick or how many Liberians are protected from Ebola today. We are inviting you to allow us to examine your blood for the memory of the Ebola virus. This information will help our Ministry of Health know where to offer vaccination programs and where to work closely with communities if Ebola ever returns. |  |  |


|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME <br> AGE <br> LINE <br> NUMBER $\qquad$ | NAME <br> AGE <br> LINE <br> NUMBER $\qquad$ | NAME <br> AGE <br> LINE <br> NUMBER $\qquad$ $\square$ |


| 705 | READ PROCEDURE TO RESPONDENT | If you agree to participate in this part of the survey, we would like to collect 1 teaspoon (4 ml ) of blood in total from a vein in your arm. We will test this blood later in the laboratory in order to know if your body remembers the Ebola virus and if you have hepatitis B or C. Blood collection will take about 15 minutes. The equipment we will use to take the blood from your arm is clean and completely safe. We have not used it on anyone else and we will safely dispose of it when we have finished. |
| :---: | :---: | :---: |
| 706 | READ RISKS TO RESPONDENT | The risk to you from this testing is small. The testing part of the survey is not harmful although you may experience a very small pain for a short time during blood sample collection. There are very minimal risks associated with having your blood drawn. You may get some bruising where the blood is taken from your arm. If you have any bleeding, swelling or other problem later, you should tell our study staff or your health worker. |
| 707 | READ BENEFITS TO RESPONDENT | The information we collect during our survey may not help you directly but it could benefit many other people in the future because it will help the Ministry of Health plan for programs to treat hepatitis and provide better services for Ebola survivors. |
| 708 | READ CONFIDENTIALITY TO RESPONDENT | What we talk about will be kept private. The results of these test will be kept confidential. To keep your privacy, we will keep the records under a number and will not record your name. We will keep the records in locked files. Only staff from this survey will be allowed to look at them. Your name or other facts that might point to you will not appear when we report the findings of this survey. |
| 709 | READ FUTURE TESTING STATEMENT TO RESPONDENT | We would like to ask your permission to store your leftover blood for future tests. These tests may be for other health issues, which are important to the health of Liberians. This sample will be stored for an indefinite amount of time but your name will not be on the sample. Your leftover blood will not be sold or used for commercial reasons. If you do not agree to future tests to your blood samples, we will destroy your blood samples after surveyrelated testing has been completed. |
| 710 | READ COST/PAYMENT STATEMENT TO RESPONDENT | Being part of this survey is up to you. If you decide not to participate in our survey, it will not affect any of your participation in other parts of the survey. It will not cost you or your family anything. You will not receive any money for your participation. |
| 711 | READ RIGHT TO REFUSE OR WITHDRAW TO RESPONDENT | You are free to participate in this survey or not. You can quit at any time if you wish. If you decide you do not want to take part, it will not affect any care or treatment you or your family members receive. If at any time you decide that you do not want to stay in the survey, you can leave and it will not affect any health care you or your family members receive. |
| 712 | READ PERSONS TO CONTACT TO RESPONDENT | This project has been approved by the UL PIRE Ethical Review Board. You will be offered a copy of this form to keep. If at any time you have questions about this survey you may contact the National Public Health Institute of Liberia or the UL PIRE IRB. You may also contact the National Public Health Institute of Liberia or the UL-PIRE IRB if you feel you have been harmed, or if you have questions about your rights as a survey participant. The contact person at the National Public Health Institute of Liberia is Mr. Bode Shobayo (Cell \#: 0776787871). |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR MEN AGE 15-59

|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME $\qquad$ <br> AGE $\qquad$ <br> LINE <br> NUMBER | NAME <br> AGE <br> LINE <br> NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ |


|  | ADULT RESPONDENT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 713 | READ TESTING FOR MEMORY OF EBOLA CONSENT TO RESPONDENT. | Would you allow me to take a sample of your blood from your arm for testing for the memory of Ebola? <br> You can say yes or no. It is up to you to decide. |  |  |
| N <br> S <br> E <br> $N$ | 714 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | $\left.\begin{array}{ll}\text { GRANTED . . . . . . . . . . . . . . } & 1 \\ \text { RESPONDENT REFUSED . . } & 2 \\ \hline\end{array}\right]$ | GRANTED . . . . . . . . . . . . . . <br> RESPONDENT REFUSED . . <br> 2 <br>  <br> (REQUEST RESPONDENT <br> SIGNATURE/THUMBPRINT) | $\left.\begin{array}{l}\text { GRANTED . . . . . . . . . . . . . } \\ \text { RESPONDENT REFUSED . . } \\ \hline\end{array}\right]$ |
| H E P | 715 | READ HEPATITIS B AND C TESTING CONSENT TO RESPONDENT | Would you allow me to take a sample of your blood from your arm for testing for Hepatitis B and C? <br> You can say yes or no. It is up to you to decide. |  |  |
| T | 716 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | GRANTED . . . . . . . . . . . . . <br> RESPONDENT REFUSED . . | GRANTED . . . . . . . . . . . . . <br> RESPONDENT REFUSED . . | GRANTED . . . . . . . . . . . . . <br> RESPONDENT REFUSED . . |
|  | 717 | $\begin{aligned} & \text { CHECK Q. } 714 \text { AND } \\ & \text { Q. } 716 \end{aligned}$ | ONE OR MORE 'GRANTED'1    <br> NEITHER GRANTED . . . . .    <br>     <br> $($ SKIP TO 740$)$   $]$ | $\begin{aligned} & \text { ONE OR MORE 'GRANTED' } \\ & \text { NEITHER GRANTED . . . . . } \\ & \hline 2 \\ & (\text { SKIP TO } 740) \longleftarrow \end{aligned}$ |  |
| D | 718 | READ FUTURE TESTING CONSENT TO RESPONDENT | Do you agree for us to store your leftover blood for future testing? You can say yes or no. It is up to you to decide. |  |  |
| C <br> O <br> N <br> S <br> E <br> N | 719 | CIRCLE THE CODE <br> AND ASK THE <br> RESPONDENT TO SIGN BELOW. |  |  |  |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR MEN AGE 15-59

|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | NAME $\qquad$ <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | NAME $\qquad$ <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ |




MINOR RESPONDENT CONSENT

| 724 | READ THE FULL TEXT TO THE MINOR | READ Q704- Q712. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 725 | READ TESTING FOR MEMORY OF EBOLA CONSENT TO RESPONDENT. | Would you allow me to take a sample of your blood from your arm for testing for the memory of Ebola? <br> You can say yes or no. It is up to you to decide. |  |  |
| 726 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | GRANTED................. $1-$ RESPONDENT REFUSED . . . 2 <br> (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) <br> (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER $\qquad$ 3 |  | GRANTED ................. . $1-$ RESPONDENT REFUSED ... 2 <br> (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) <br> (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER $\qquad$ |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR MEN AGE 15-59

|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ | NAME <br> AGE $\square$ <br> LINE <br> NUMBER $\qquad$ |


| 727 | READ HEPATITIS B AND C TESTING CONSENT TO RESPONDENT | Would you allow me to take a sample of blood from (NAME OF MINOR)'s arm for testing for Hepatitis B and C? <br> You can say yes or no. It is up to you to decide. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 728 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | $\begin{array}{lll}\text { GRANTED ................ } & 1 \\ \text { RESPONDENT REFUSED ... } & 2 \\ \end{array}$ | $\begin{array}{ll}\text { GRANTED ................ } & 1 \\ \text { RESPONDENT REFUSED ... } & 2 \\ \end{array}$ | GRANTED ................. 1 RESPONDENT REFUSED ... 2 |
|  |  | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) |
|  |  | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) | (INTERVIEWER SIGNATURE) |
|  |  | IF REFUSED SKIP TO 731 | IF REFUSED SKIP TO 731 | IF REFUSED SKIP TO 731 |
|  |  | NOT PRESENT/OTHER .... $\quad 3$ $($ SKIP TO 731) | NOT PRESENT/OTHER . ... $\quad 3$ $($ SKIP TO 731) | NOT PRESENT/OTHER . ... $\left.{ }^{3}{ }^{3}\right]$ $($ SKIP TO 731) |


| MINOR RESPONDENT CONSENT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 728A | CHECK Q. 626 | $\begin{aligned} & \text { CODE } 1 \text { OR } 2 \text { CIRCLED } \\ & \begin{array}{l} \text { (SKIP TO 729) } \end{array} \stackrel{1}{\leftrightarrows} \\ & \text { NEITHER } 1 \text { OR } 2 \text { CIRCLED } \end{aligned}$ |  |  |
| 728B | READ THE FULL TEXT TO THE MINOR | READ Q704- Q712. |  |  |
| 729 | READ HEPATITIS B AND C TESTING CONSENT TO RESPONDENT | Would you allow me to take a sample of your blood from your arm for testing for Hepatitis B and C? <br> You can say yes or no. It is up to you to decide. |  |  |
| 730 | CIRCLE THE CODE <br> AND ASK THE <br> RESPONDENT TO <br> SIGN BELOW. | $\left.\begin{array}{llll} \text { GRANTED ................ } & 1 \\ \text { RESPONDENT REFUSED ... } & 2 \\ \end{array}\right]$ | $\left.\begin{array}{l} \text { GRANTED ................ } 1 \\ \text { RESPONDENT REFUSED ... } 2 \end{array}\right]$ |  <br> (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER .... 37 <br> (SKIP TO 740) |
|  |  | (REQUEST RESPONDENT SIGNATURE/THUMBPRINT) | (REQUEST RESPONDENT <br> SIGNATURE/THUMBPRINT) |  |
|  |  | (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER .... (SKIP TO 740) | (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER . . . ${ }^{3}{ }^{3}$ <br> (SKIP TO 740) |  |
| 731 | $\begin{aligned} & \text { CHECK Q. } 726 \text { AND } \\ & \text { Q. } 730 \end{aligned}$ | $\begin{aligned} & \text { ONE OR MORE 'GRANTED' }{ }^{1} \\ & \text { NEITHER GRANTED ...... }{ }^{2} \text { ² } \\ & \qquad \begin{array}{l} \text { (SKIP TO } 740) \end{array} \end{aligned}$ | ONE OR MORE 'GRANTED' 1 NEITHER GRANTED $\left.\ldots \ldots{ }^{2}\right]$ $($ SKIP TO 740) | ONE OR MORE 'GRANTED' 1 NEITHER GRANTED $\left.\ldots . . .{ }^{2}\right]$ $($ SKIP TO 740) |

EBOLA ANTIBODY AND HEPATITIS B AND C TESTING FOR MEN AGE 15-59

|  |  | MAN 1 | MAN 2 | MAN 3 |
| :---: | :---: | :---: | :---: | :---: |
| 701 | CHECK 501: <br> WRITE MAN'S AGE <br> WRITE MAN'S LINE NUMBER | NAME $\qquad$ <br> AGE $\qquad$ $\square$ <br> LINE <br> NUMBER $\qquad$ $\square$ | NAME $\qquad$ <br> AGE $\qquad$ <br> LINE <br> NUMBER $\qquad$ | NAME <br> AGE <br> LINE <br> NUMBER $\qquad$ |



| MTNOR RESPONDENT CONSENT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 734 | READ FUTURE TESTING CONSENT TO RESPONDENT | Do you agree for us to store your leftover blood for future testing? You can say yes or no. It is up to you to decide. |  |  |
| 735 | CIRCLE THE CODE AND ASK THE RESPONDENT TO SIGN BELOW. | GRANTED . . . . . . . . . . . . . . <br> RESPONDENT REFUSED . . <br> R <br>  <br> (REQUEST RESPONDENT <br> SIGNATURE/THUMBPRINT) | $\left.\begin{array}{lll}\text { GRANTED . . . . . . . . . . . . . } & 1 \\ \text { RESPONDENT REFUSED . . } & 2\end{array}\right]$ <br>  <br> (SIGN AND ENTER YOUR <br> FIELDWORKER NUMBER) <br>  <br> (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER . . . . | GRANTED . . . . . . . . . . . . . . <br> $\left.\begin{array}{l}1 \\ \text { RESPONDENT REFUSED . . } \\ \\ \\ \hline \text { (SIGN AND ENTER YOUR } \\ \text { FIELDWORKER NUMBER) }\end{array}\right]$ <br> (INTERVIEWER SIGNATURE) <br> NOT PRESENT/OTHER . . . . 3 |


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[^0]:    Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on
    fewer than 25 unweighted cases and has been suppressed.

    ## nc $=$ No unweighted cases

    ${ }^{1}$ 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, shop, market, or black baggers/drug peddlers. Excludes advice or treatment from a traditional practitioner.
    Includes grass, shrubs, and crop residues

[^1]:    ${ }^{1}$ 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 2 or more households

[^2]:    ${ }^{1}$ Completed grade 6 at the elementary level
    ${ }^{2}$ Completed grade 9 at the junior high level
    ${ }^{3}$ Completed grade 12 at the senior high level

[^3]:    ${ }^{1}$ Completed grade 6 at the elementary level
    ${ }^{2}$ Completed grade 9 at the junior high level
    ${ }^{3}$ Completed grade 12 at the senior high level

[^4]:    ${ }^{1}$ Completed grade 6 at the elementary level
    ${ }^{2}$ Completed grade 9 at the junior high level
    ${ }^{3}$ Completed grade 12 at the senior high level

[^5]:    ${ }^{1}$ Completed grade 6 at the elementary level
    ${ }^{2}$ Completed grade 9 at the junior high level
    ${ }^{3}$ Completed grade 12 at the senior high level

[^6]:    ${ }^{1}$ Includes daily and occasional (less than daily) use
    ${ }^{2}$ Includes manufactured cigarettes and kreteks
    ${ }^{3}$ Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes/shisha
    ${ }^{4}$ Occasional refers to less often than daily use.

[^7]:    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 women or men began living with their spouse/partner for the first time before reaching the beginning of the age group

[^8]:    Note: If more than one method is used, only the most effective method is considered in this tabulation
    SDM = Standard days method
    LAM = Lactational amenorrhea method
    ${ }^{1}$ Women who have had sexual intercourse within 30 days preceding the survey

[^9]:    Note: If more than one method is used, only the most effective method is considered in this tabulation.
    SDM = Standard days method
    LAM = Lactational amenorrhea method
    ${ }^{1}$ Women who have had sexual intercourse within 30 days preceding the survey

[^10]:    Note: If more than one source of prenatal care was mentioned, only the provider with the highest qualifications is considered in this tabulation.

[^11]:    ${ }^{1}$ Includes mothers with two injections during the pregnancy of their 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 live birth

[^12]:    Note: Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ Captures newborns who were weighed "at birth." May exclude some newborns who were weighed during the 2 days after birth.

[^13]:    ${ }^{1}$ Liberia is rolling out the third rotavirus dose; however, the nationwide roll out was not complete by the start of data collection. As a result, information on the third rotavirus dose was collected for programmatic purposes but was excluded from the tabulations.
    ${ }^{2}$ Following data collection, a skip error was identified that impacted yellow fever vaccination rates according to mothers' recall.
    ${ }^{3}$ Because of the skip error that affected data collection for the yellow fever vaccination indicator, the "all age-appropriate vaccinations" indicator is missing some yellow fever vaccination data based on mothers' recall.

[^14]:    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 diarrhea episode.

[^15]:    Note: Table is based on last-born children born in the 2 years preceding the survey regardless of whether the children are living or dead at the time of the interview. 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 children who started breastfeeding within 1 hour of birth
    ${ }^{2}$ Children given something other than breast milk during the first 3 days of life
    ${ }^{3}$ Doctor, nurse, midwife, or physician's assistant

[^16]:    Note: The body mass index ( BMI ) is expressed as the ratio of weight in kilograms to the square of height in meters $\left(\mathrm{kg} / \mathrm{m}^{2}\right)$.
    ${ }^{1}$ Excludes pregnant women and women with a birth in the preceding 2 months

[^17]:    ${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2016 LMIS, 2013 LDHS, and 2011 LMIS, this was known as a long-lasting insecticidal net (LLIN).

[^18]:    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 advice or treatment from the following sources: public sector, private medical sector, shop, market, or black baggers/drug peddlers. Excludes advice or treatment from a traditional practitioner.

[^19]:    na $=$ Not applicable
    ${ }^{1}$ Using condoms every time they have sexual intercourse
    ${ }^{2}$ Partner who has no other partners

[^20]:    na $=$ Not applicable

[^21]:    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.

[^22]:    ${ }^{1}$ Includes "don't know/missing"

[^23]:    ${ }^{1}$ Includes "don't know/missing"

[^24]:    Note: Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ In this context, counseling means that someone talked with the respondent about all three of the following topics: (1) babies getting HIV from their mother, (2) preventing the virus, and (3) getting tested for HIV.
    ${ }^{2}$ Women were asked whether they received an HIV test during labor only if they gave birth in a health facility.
    ${ }^{3}$ Denominator for percentages includes women who did not receive prenatal care for their last birth in the past 2 years

[^25]:    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.

[^26]:    ${ }^{1}$ A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, from any cause except accidents or violence.
    ${ }^{2}$ Expressed per 1,000 woman-years of exposure
    ${ }^{\text {a }}$ Age-adjusted rate

[^27]:    na $=$ Not applicable

[^28]:    ${ }^{1}$ Mean excludes respondents who gave non-numeric responses.
    ${ }^{2}$ Figures for unmet need correspond to the revised definition described in Bradley et al. 2012.
    ${ }^{3}$ Restricted to currently married women. See Table 15.9.1 for the list of decisions.
    ${ }^{4}$ See Table 15.10.1 for the list of reasons.

[^29]:    ${ }^{1}$ The estimate of the prevalence of sexual violence in the 2007 LDHS ( $18 \%$ ) is not comparable to the estimate from the 2019-20 LDHS because the 2007 estimate included information on forced sexual initiation. This information was not collected in 2019-20.

[^30]:    na = Not available
    ${ }^{1}$ Includes current husband/partner for currently married women and most recent husband/partner for divorced,

[^31]:    Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.
    ${ }^{1}$ Includes only currently married women
    ${ }^{2}$ According to the wife's report. See Table 16.8 for list of behaviors.
    ${ }^{3}$ According to the wife's report. Includes only currently married women. See Table 15.9.1 for list of decisions.
    ${ }^{4}$ According to the wife's report. See Table 15.10.1 for list of reasons.

[^32]:    ${ }^{1}$ Severe physical punishment includes (1) hit or slapped on the face, head, or ears or (2) beat up, that is, hit over and over as hard as one could.
    ${ }^{2}$ Any violent discipline method includes (1) shook; (2) shouted, yelled, or screamed at; (3) spanked, hit, or slapped on the bottom with bare hand; (4) hit on the bottom or elsewhere on the body with something like a belt, hairbrush, stick, or other hard object; (5) called dumb, lazy, or another name like that; (6) hit or slapped on the hand, arm, or leg; (7) hit or slapped on the hand, arm or leg; or (8) beat up, that is, hit over and over as hard as one could.

[^33]:    na $=$ Not applicable
    ${ }^{1}(\mathrm{Bm} / \mathrm{Bf}) \times 100$, where Bm and Bf are the numbers of male and female births, respectively
    ${ }^{2}[2 B x /(B x-1+B x+1)] \times 100$, where $B x$ is the number of births in calendar year $x$

