## Kenya



Demographic and
Health Survey
2022

Key Indicators Report

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# Kenya <br> Demographic and Health Survey 2022 

Key Indicators Report

Kenya National Bureau of Statistics<br>Nairobi, Kenya<br>Ministry of Health<br>Nairobi, Kenya<br>The DHS Program<br>ICF<br>Rockville, Maryland, USA

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## ACRONYMS AND ABBREVIATIONS

| ACT | artemisinin-based combination therapy |
| :---: | :---: |
| AIDS | acquired immunodeficiency syndrome |
| ANC | antenatal care |
| ARI | acute respiratory infection |
| ASFR | age-specific fertility rate |
| BCG | bacillus Calmette-Guérin |
| CAPI | computer-assisted personal interviewing |
| CBR | crude birth rate |
| COVID-19 | coronavirus disease 2019 |
| CSPro | Census and Survey Processing |
| DHS | Demographic and Health Survey |
| DPT | diphtheria, pertussis, and tetanus vaccine |
| EA | enumeration area |
| ECDI | Early Childhood Development Index |
| FBO | faith-based organization |
| FGM/C | female genital mutilation/cutting |
| GFR | general fertility rate |
| HepB | hepatitis B |
| Hib | Haemophilus influenzae type B |
| HIV | human immunodeficiency virus |
| IPTp | intermittent preventive treatment during pregnancy |
| IPV | inactivated poliomyelitis vaccine |
| ITN | insecticide-treated net |
| IUD | intrauterine contraceptive device |
| IYCF | infant and young child feeding |
| KDHS | Kenya Demographic and Health Survey |
| K-HMSF | Kenya Household Master Sample Frame |
| KIR | Key Indicators Report |
| KMIS | Kenya Malaria Indicator Survey |
| KNBS | Kenya National Bureau of Statistics |
| LAM | lactational amenorrhea method |
| LLIN | long-lasting insecticidal net |
| MoH | Ministry of Health |
| MR | measles-rubella |
| NGO | nongovernmental organization |
| OPV | oral polio vaccine |
| ORS | oral rehydration salts |


| $\begin{aligned} & \text { PCV } \\ & \text { PNC } \end{aligned}$ | pneumococcal conjugate vaccine postnatal care |
| :---: | :---: |
| SD | standard deviation |
| SDG | Sustainable Development Goal |
| SDM | standard days method |
| SP | sulfadoxine-pyrimethamine |
| STIs | sexually transmitted infections |
| TB | tuberculosis |
| TFR | total fertility rate |
| UNAIDS | Joint United Nations Programme on HIV/AIDS |
| UNFPA | United Nations Population Fund |
| UNICEF | United Nations Children's Fund |
| UN Women | United Nations Entity for Gender Equality and the Empowerment of Women |
| USAID | United States Agency for International Development |
| WFP | World Food Programme |
| WG | Washington Group on Disability Statistics |
| WHO | World Health Organization |

## 1 INTRODUCTION

The 2022 Kenya Demographic and Health Survey (2022 KDHS) is the seventh DHS survey implemented in Kenya. The Kenya National Bureau of Statistics (KNBS) in collaboration with the Ministry of Health $(\mathrm{MoH})$ implemented the survey. Survey planning began in early 2021 with data collection taking place from February 17 to July 13, 2022. ICF provided technical assistance through The DHS Program, which is funded by the United States Agency for International Development (USAID) and offers financial support and technical assistance for population and health surveys in countries worldwide. Other agencies and organizations that facilitated the successful implementation of the survey through technical or financial support were the Bill \& Melinda Gates Foundation, the World Bank, the United Nations Children's Fund (UNICEF), the United Nations Population Fund (UNFPA), Nutrition International, the World Food Programme (WFP), the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women), the World Health Organization (WHO), the Clinton Health Access Initiative, and the Joint United Nations Programme on HIV/AIDS (UNAIDS).

This Key Indicators Report (KIR) presents a first look at selected findings from the 2022 KDHS. A detailed report of the survey findings will be presented in 2023.

## Survey Objectives

The primary objective of the 2022 KDHS is to provide up-to-date estimates of demographic and health indicators to guide the planning, implementation, monitoring, and evaluation of population and healthrelated programs at the national and county levels.

The specific objectives of the 2022 KDHS are to:

- Estimate fertility levels and contraceptive prevalence
- Estimate childhood mortality
- Examine basic indicators of maternal and child health
- Estimate the Early Childhood Development Index (ECDI)
- Collect anthropometric measures for children, women, and men
- Collect information on children's nutrition
- Collect information on women's dietary diversity
- Obtain information on knowledge and behavior related to transmission of HIV and other sexually transmitted infections (STIs)
- Obtain information on noncommunicable diseases and other health issues
- Ascertain the extent and patterns of domestic violence and female genital cutting


## 2 SURVEY IMPLEMENTATION

### 2.1 SAMPLE DESIGN

The sample for the 2022 KDHS was drawn from the Kenya Household Master Sample Frame (KHMSF). This is the frame that KNBS currently operates to conduct household-based surveys throughout Kenya. In 2019, Kenya conducted a Population and Housing Census, and a total of 129,067 enumeration areas (EAs) were developed. Of these EAs, 10,000 were selected with probability proportional to size to create the K-HMSF. The 10,000 EAs were randomized into four equal subsamples. The survey sample was drawn from one of the four subsamples. The EAs were developed into clusters through a process of household listing and geo-referencing. To design the frame, each of the 47 counties in Kenya was stratified into rural and urban strata, resulting in 92 strata since Nairobi City and Mombasa counties are purely urban.

The 2022 KDHS was designed to provide estimates at the national level, for rural and urban areas, and, for some indicators, at the county level. Given this, the sample was designed to have 42,300 households with a fixed take of 25 households per cluster, resulting in 1,692 clusters spread across the country with 1,026 clusters in rural areas and 666 in urban areas.

The sample for the 2022 KDHS was a stratified sample selected in two stages from the K-HMSF. In the first stage, 1,692 clusters were selected from the K-HMSF using equal probability with independent selection in each sampling stratum. Household listing was carried out in all of the selected clusters, and the resultant list of households served as a sampling frame for the second stage of selection, where 25 households were selected from each cluster. However, after the household listing procedure, it was found that some clusters had less than 25 households; hence, all of the households from these clusters were selected into the sample. This resulted in 42,027 households being sampled for the 2022 KDHS.

All women age 15-49 who were usual members of the selected households or who had slept in the households the night before the survey were eligible for interviews. The men's interview was conducted in half of the sampled households, and all men age 15-54 in these households were eligible to be interviewed. In a half of the men's subsample, one man per household was randomly selected for the domestic violence module. In the other half of the men's subsample and in the sample of households not selected for the men's interview, one woman per household was randomly selected for the module. Thus, in three quarters of the sample, the domestic violence module was administered to women, and in one quarter of the sample the module was administered to men.

The Biomarker Questionnaire, which included height and weight measurements, was administered in all households for children age 0-59 months and in the men's subsample for men age 15-54 and women age 15-49. Modules on disability, COVID-19, health insurance, health expenditures, road traffic accidents, household food expenditure, early childhood development index 2030, chronic diseases, and female genital mutilation/cutting were administered in half of the households.

The 2022 KDHS was successfully implemented in 1,691 clusters; one cluster in Mandera could not be visited due to insecurity. As a result of the nonproportional allocation to the sampling strata and due to nonresponse, the survey was not self-weighting. The resulting data have, therefore, been weighted to be representative of the various survey domains.

### 2.2 Questionnaires

Five questionnaires were used for the 2022 KDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, the Biomarker Questionnaire, and the Fieldworker Questionnaire. To reduce the length of fieldwork and limit interviewer and respondent fatigue, the Household, Woman's, and Biomarker questionnaires were divided into two sets: the full and short questionnaires. Short Household and Woman's questionnaires were designed on the basis of the full questionnaires, and each
contained a subset of questions from the respective full questionnaires. The 2022 KDHS sample was divided into halves. In one half, households were administered the full Household Questionnaire, the full Woman's Questionnaire, and the Man's Questionnaire. In the other half, households were administered the short Household Questionnaire and the short Woman's Questionnaire. Selection of these subsamples was done at the household level-within a cluster, one in every two households was selected for the full questionnaires, and the remaining households were selected for the short questionnaires. It is important to note that the data collected in the short questionnaires were collected from all households and from all women since these questionnaires were subsets of the full questionnaires. The sections below describe the purpose of and the information collected in the full questionnaires.

The main purpose of the Household Questionnaire was to identify women and men who were eligible for individual interviews and women age 15-49, men age 15-54, and children age $0-59$ months who were eligible for anthropometry. The Household Questionnaire also collected information on:

- Basic information on each person in the household (for example, name, sex, age, education, relationship to the household head, survival of parents among children under age 18)
- Disability
- Assets, land ownership, and housing characteristics
- Sanitation, water, and other environmental health issues
- Health expenditures
- Accident and injury
- COVID-19 (prevalence, vaccination, and related deaths)
- Household food consumption

The Woman's Questionnaire was used to collect information from women age 15-49 on the following topics:

- Sociodemographic characteristics
- Reproduction
- Family planning
- Maternal health care and breastfeeding
- Vaccination and health of children
- Children's nutrition
- Woman's dietary diversity
- Early childhood development
- Marriage and sexual activity
- Fertility preferences
- Husbands' background characteristics and women's employment activity
- HIV/AIDS, other sexually transmitted infections (STIs), and tuberculosis (TB)
- Other health issues
- Early Childhood Development Index 2030
- Chronic diseases
- Female genital mutilation/cutting
- Domestic violence

The Man's Questionnaire was administered to men age 15-54 living in the households selected for long Household Questionnaires. The questionnaire collected information on:

- Sociodemographic characteristics
- Reproduction
- Family planning
- Marriage and sexual activity
- Fertility preferences
- Employment and gender roles
- HIV/AIDS, other STIs, and TB
- Other health issues
- Chronic diseases
- Female genital mutilation/cutting
- Domestic violence

The Biomarker Questionnaire collected information on anthropometry (weight and height). The long Biomarker Questionnaire collected anthropometry measurements for children age 0-59 months, women age 15-49, and men age 15-54, while the short questionnaire collected weight and height measurements only for children age $0-59$ months.

The Fieldworker Questionnaire was used to collect basic background information on the people who collected data in the field. This included team supervisors, interviewers, and biomarker technicians.

All questionnaires except the Fieldworker Questionnaire were translated into the Swahili language to make it easier for interviewers to ask questions in a language that respondents could understand. All questionnaires were programmed into tablet computers to allow for computer-assisted personal interviewing (CAPI) for data collection purposes, with the capability to choose Swahili or English.

The protocol for the 2022 KDHS was reviewed by the ICF Institutional Review Board.

### 2.3 ANTHROPOMETRY

Children under age 5, women age 15-49, and men age 15-54 had their weight and height measured in order to provide information on their nutritional status.

Weight measurements were taken using Seca scales with a digital display (model SECA 874). Children younger than age 24 months were measured lying down (recumbent length), while children older than 24 months and adults were measured standing (height). Height and length were measured with a Shorr Board ${ }^{\circledR}$ measuring board.

To assess the precision of measurements, two children were randomly selected in each cluster for remeasurement. The 2022 KDHS adopted the guidelines of The DHS Program, which define a difference of less than one centimeter between the two height measurements as an acceptable level of precision. The data collection application was programed to calculate anthropometric $z$ scores automatically. Children found to have a $z$ score of less than negative three $(-3)$ or more than three for height-for-age, weight-forheight, or weight-for-age were flagged as having unusual measurements and measured a second time. Remeasurement of flagged cases was performed to ensure accurate reporting of height and weight measurements. Children whose second measurement indicated severe wasting (weight-for-height $z$ score less than -3 ) were referred for treatment to the nearest health facility, and the field team supervisor or another survey team member informed the caretaker of the affected child about the referral for treatment before the team left the cluster.

### 2.4 Training of Trainers and Pretest

To achieve the objectives of the survey and ensure collection of quality data, various cadres were trained and the survey data collection tools and protocol were pretested.

### 2.4.1 Training of Trainers

A total of 45 trainers drawn from KNBS, MoH , other government departments, and development partners participated in the training of trainers. The training was facilitated virtually by ICF and was held from November 29 to December 3, 2021.The objectives of the training were to:

- Equip trainers with adult learning principles and effective facilitation methods
- Review and finalize the 2022 KDHS questionnaires
- Familiarize trainers with the 2022 KDHS CAPI system
- Prepare and finalize materials for training interviewers


### 2.4.2 Pretest

The pretest consisted of classroom training and field practice for interviewers and biomarker technicians. The training took place from December 11, 2021, to January 18, 2022. The objectives of the pretest were to:

- Test the adequacy of training agenda for the main survey
- Test the data collection instruments (questionnaires, manuals, forms)
- Test the suitability of the CAPI data collection approach
- Evaluate the competence of personnel
- Assess the workload of field interviewers and biomarker technicians
- Test the adequacy of training procedures for the field personnel
- Test the adequacy of the planned duration of data collection
- Evaluate the overall administrative and financial structure and other general logistics issues
- Test the reliability of the central server data transmission mechanisms and the robustness of the system put in place to monitor the quality of data from the field
- Test the effectiveness of the publicity and advocacy strategy and data processing strategies

The training for the pretest covered all aspects of the questionnaire content and interviewing procedures and anthropometry practice with children. Two days were set aside for field practice. Then field teams were sent to eight counties to pilot the survey tools and procedures. The pretest clusters were selected to cover different geographical areas, and hence the necessity of using different languages. These clusters were not part of the 2022 KDHS sample. After the fieldwork, a debriefing was held to assess issues emanating from the pretest. The resolutions from the debriefing were used to finalize the questionnaires, the CAPI program, and field logistics before implementation of the main training and data collection.

### 2.4.3 Training of Field Staff for the Main Survey

A total of 314 personnel ( 48 supervisors, 48 biomarker technicians, 144 female interviewers, 48 male interviewers, and 26 reserves) were trained at a central venue from January 17 to February 13, 2022. The training consisted of a detailed, question-by-question explanation of the questionnaires, accompanied by explanations from the interviewer's manual, role-play demonstrations, group discussions, and in-class practice interviewing in pairs.

Anthropometry training provided all trainees with instruction, demonstrations, and practice in length/height and weight measurements for children and adults. Trainees completed a standardization exercise involving measurements of children that was intended to gauge and improve accuracy and
precision. Restandardization exercises were conducted for those who did not pass the standardization exercises.

### 2.5 FIELDWORK

Data collection for the 2022 KDHS was carried out by 48 teams from February 17 to July 13, 2022. Each team consisted of one supervisor, one biomarker technician, three female interviewers, one male interviewer, and a driver. At the county level, the KDHS field teams were assisted by KNBS county statistical officers who provided links to national government administration officers. Prior to the data collection, a county mobilization team conducted targeted publicity within the clusters to prepare for the fieldwork. KNBS field staff and village elders assisted in identifying the sampled clusters and households. Monitoring of data collection was undertaken by Technical Working Committee and Steering Committee members throughout the data collection period. The aim of monitoring was to ensure that the survey was conducted according to the protocol and to provide real-time solutions to any challenges encountered.

### 2.6 Data Processing

Computer-assisted personal interviewing (CAPI) was used during the 2022 KDHS data collection. The devices used for CAPI were Android-based computer tablets programmed using a mobile version of CSPro. The CSPro software was developed jointly by the U.S. Census Bureau, Serpro S.A., and The DHS Program. Programming of questionnaires into the Android application was done by ICF, while configuration of tablets was completed by KNBS in collaboration with ICF. All fieldwork personnel were assigned usernames, and devices were password protected to ensure the integrity of the data collected.

Work was assigned by supervisors and shared via Bluetooth ${ }^{\circledR}$ to interviewers' tablets. Once completed, assigned work was shared with supervisors, who did initial data consistency checks and edits and then submitted data to the central servers hosted at KNBS via SyncCloud. Data were downloaded from the central servers and checked against the inventory of expected returns to account for all data collected in the field. SyncCloud was also used to generate field check tables to monitor progress and flag any errors, which were communicated back to the field teams for correction.

Secondary editing was done by members of the central office team, who resolved any errors that were not corrected by field teams during data collection. A CSPro batch editing tool was used for cleaning and tabulation during data analysis.

## 3 KEY FINDINGS

### 3.1 RESPONSE RATES

Table 1 presents the response rates for the 2022 KDHS. A total of 42,022 households were selected for the sample, of which 38,731 ( $92 \%$ ) were found to be occupied. Among the occupied households, 37,911 were successfully interviewed, yielding a response rate of $98 \%$. The response rates for urban and rural households were $96 \%$ and $99 \%$, respectively. In the interviewed households, 33,879 women age 15-49 were identified as eligible for individual interviews. Interviews were completed with 32,156 women, yielding a response rate of $95 \%$. The response rates among women selected for the full and short questionnaires were the same ( $95 \%$ ). In the households selected for the male survey, 16,552 men age 15-54 were identified as eligible for individual interviews and 14,453 were successfully interviewed, yielding a response rate of $87 \%$.

Table 1 Results of the household and individual interviews
Number of households, number of interviews, and response rates, according to residence (unweighted), Kenya DHS 2022

|  | Residence |  |  |
| :--- | ---: | ---: | ---: |
| Result | Urban | Rural | Total |
| ALL HOUSEHOLDS |  |  |  |
| Household interviews |  |  |  |
| $\quad$ Households selected | 16,611 | 25,411 | 42,022 |
| Households occupied | 14,870 | 23,861 | 38,731 |
| Households interviewed | 14,330 | 23,581 | 37,911 |
| Household response rate ${ }^{1}$ | 96.4 | 98.8 | 97.9 |
| Interviews with women age 15-49 |  |  |  |
| $\quad$ Number of eligible women | 13,129 | 20,750 | 33,879 |
| $\quad$ Number of eligible women interviewed | 12,386 | 19,770 | 32,156 |
| Eligible women response rate ${ }^{2}$ | 94.3 | 95.3 | 94.9 |


| HOUSEHOLDS SELECTED FOR FULL QUESTIONNAIRES |  |  |  |
| :--- | ---: | ---: | ---: |
| Household interviews |  |  |  |
| $\quad$ Households selected | 8,657 | 13,312 | 21,969 |
| Households occupied | 7,725 | 12,469 | 20,194 |
| Households interviewed | 96.2 | 98.8 | 97.8 |
| Household response rate ${ }^{1}$ |  |  |  |
| Interviews with women age 15-49 | 6,911 | 10,914 | 17,825 |
| $\quad$ Number of eligible women | 6,517 | 10,384 | 16,901 |
| $\quad$ Number of eligible women interviewed | 94.3 | 95.1 | 94.8 |
| Eligible women response rate ${ }^{2}$ |  |  |  |
| Interviews with men age 15-54 | 6,134 | 10,418 | 16,552 |
| $\quad$ Number of eligible men | 5,232 | 9,221 | 14,453 |
| Number of eligible men interviewed | 85.3 | 88.5 | 87.3 |
| Eligible men response rate ${ }^{2}$ |  |  |  |


| HOUSEHOLDS SELECTED FOR SHORT QUESTIONNAIRES |  |  |  |
| :--- | ---: | ---: | ---: |
| Household interviews |  |  |  |
| $\quad$ Households selected | 7,954 | 12,099 | 20,053 |
| Households occupied | 6,145 | 11,392 | 18,537 |
| $\quad$ Households interviewed | 96.6 | 98.9 | 98.0 |
| Household response rate ${ }^{1}$ |  |  |  |
| Interviews with women age 15-49 | 6,218 | 9,836 | 16,054 |
| $\quad$ Number of eligible women | 5,869 | 9,386 | 15,255 |
| $\quad$ Number of eligible women interviewed | 94.4 | 95.4 | 95.0 |
| Eligible women response rate ${ }^{2}$ |  |  |  |

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

### 3.2 Characteristics of Respondents

Table 2 presents the weighted and unweighted numbers and percent distributions of women and men interviewed in the 2022 KDHS according to background characteristics. The results presented in this report are based on weighted data that are representative at the country, rural-urban, and county levels. The distribution of respondents by county, both weighted and unweighted, is shown in Table 2C.

- The proportion of both female and male respondents in the sample declines with increasing age, from $19 \%$ of women and $23 \%$ of men in $15-19$ age group to $8 \%$ of women and men in the $45-49$ age group.
- Seventy-nine percent of women reported their health status as good or very good, as compared with $85 \%$ of men.
- About one-third of women ( $33 \%$ ) and nearly half ( $48 \%$ ) of men have never been married. Fifty-five percent of women are either married or living with a man as if married, while $46 \%$ of men are married or living with a woman.
- Six percent of women and $3 \%$ of men have never been to school. About 2 in 10 women ( $19 \%$ ) and men $(21 \%)$ have more than a secondary education.
- Almost half of respondents ( $48 \%$ of women and $46 \%$ of men) are in the two highest wealth quintiles.

Table 2 Background characteristics of respondents
Percent distribution of women and men age 15-49 by selected background characteristics, Kenya DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Age |  |  |  |  |  |  |
| 15-19 | 18.7 | 6,025 | 6,404 | 23.3 | 3,175 | 3,349 |
| 20-24 | 18.7 | 6,001 | 5,762 | 17.6 | 2,404 | 2,332 |
| 25-29 | 17.7 | 5,687 | 5,443 | 16.6 | 2,268 | 2,109 |
| 30-34 | 14.1 | 4,530 | 4,561 | 13.1 | 1,787 | 1,748 |
| 35-39 | 13.4 | 4,311 | 4,354 | 11.6 | 1,577 | 1,628 |
| 40-44 | 9.6 | 3,084 | 3,100 | 9.8 | 1,332 | 1,386 |
| 45-49 | 7.8 | 2,518 | 2,532 | 8.1 | 1,109 | 1,117 |
| Self-reported health status |  |  |  |  |  |  |
| Very good | 23.8 | 7,638 | 7,867 | 35.8 | 4,883 | 5,098 |
| Good | 55.4 | 17,823 | 17,988 | 48.9 | 6,677 | 6,607 |
| Moderate | 18.4 | 5,933 | 5,541 | 14.1 | 1,926 | 1,799 |
| Bad | 2.2 | 696 | 710 | 1.0 | 141 | 145 |
| Very bad | 0.2 | 67 | 50 | 0.2 | 26 | 20 |
| Religion |  |  |  |  |  |  |
| Catholic | 18.6 | 5,978 | 5,665 | 21.6 | 2,946 | 2,709 |
| Protestant/other Christian | 72.9 | 23,442 | 21,154 | 66.0 | 9,006 | 8,137 |
| Muslim | 7.1 | 2,275 | 4,852 | 7.2 | 987 | 2,148 |
| No religion | 1.1 | 344 | 357 | 4.4 | 607 | 557 |
| Other | 0.4 | 117 | 128 | 0.8 | 107 | 118 |
| Marital status |  |  |  |  |  |  |
| Never married | 32.5 | 10,438 | 10,048 | 48.2 | 6,576 | 6,486 |
| Married | 48.1 | 15,483 | 16,454 | 43.3 | 5,907 | 5,994 |
| Living together | 7.3 | 2,339 | 1,858 | 2.6 | 351 | 393 |
| Divorced/separated | 9.3 | 2,989 | 2,776 | 5.6 | 771 | 748 |
| Widowed | 2.8 | 908 | 1,020 | 0.4 | 49 | 48 |
| Residence |  |  |  |  |  |  |
| Urban | 40.9 | 13,143 | 12,386 | 39.4 | 5,382 | 5,003 |
| Rural | 59.1 | 19,013 | 19,770 | 60.6 | 8,270 | 8,666 |
| Education |  |  |  |  |  |  |
| No education | 5.5 | 1,770 | 3,836 | 2.7 | 369 | 774 |
| Primary | 36.3 | 11,687 | 11,807 | 35.9 | 4,894 | 5,150 |
| Secondary | 38.0 | 12,204 | 11,311 | 39.5 | 5,386 | 5,195 |
| Vocational | 1.1 | 345 | 323 | 1.5 | 206 | 204 |
| More than secondary | 19.1 | 6,150 | 4,879 | 20.5 | 2,797 | 2,346 |

Continued...

| Table 2-Continued |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Women |  |  | Men |  |  |
| Background characteristic | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 15.6 | 5,019 | 7,073 | 15.1 | 2,062 | 2,881 |
| Second | 17.7 | 5,698 | 5,742 | 18.9 | 2,584 | 2,660 |
| Middle | 18.9 | 6,069 | 6,345 | 20.2 | 2,754 | 2,873 |
| Fourth | 22.2 | 7,139 | 7,160 | 24.4 | 3,325 | 3,138 |
| Highest | 25.6 | 8,231 | 5,836 | 21.4 | 2,927 | 2,117 |
| Total 15-49 | 100.0 | 32,156 | 32,156 | 100.0 | 13,652 | 13,669 |
| 50-54 | na | na | na | na | 801 | 784 |
| Total 15-54 | na | na | na | na | 14,453 | 14,453 |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed. No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities, and vocational includes training after completion of primary, secondary, or higher education.
na $=$ not applicable

Table 2C Background characteristics of respondents by county
Percent distribution of women and men age 15-49, according to county, Kenya DHS 2022

| County | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted percent | Weighted number | Unweighted number | Weighted percent | Weighted number | Unweighted number |
| Mombasa | 2.9 | 947 | 749 | 3.2 | 442 | 372 |
| Kwale | 1.5 | 498 | 711 | 1.5 | 209 | 320 |
| Kilifi | 2.9 | 928 | 742 | 3.0 | 405 | 319 |
| Tana River | 0.5 | 149 | 641 | 0.5 | 64 | 293 |
| Lamu | 0.3 | 101 | 675 | 0.3 | 41 | 253 |
| Taita Taveta | 0.7 | 234 | 483 | 0.8 | 103 | 192 |
| Garissa | 0.9 | 290 | 641 | 0.9 | 117 | 282 |
| Wajir | 0.5 | 160 | 745 | 0.5 | 63 | 314 |
| Mandera | 0.6 | 206 | 723 | 0.6 | 81 | 293 |
| Marsabit | 0.4 | 129 | 535 | 0.3 | 45 | 192 |
| Isiolo | 0.4 | 137 | 623 | 0.4 | 55 | 253 |
| Meru | 3.0 | 979 | 602 | 3.6 | 489 | 305 |
| Tharaka-Nithi | 0.8 | 271 | 535 | 1.0 | 137 | 279 |
| Embu | 1.1 | 358 | 584 | 1.3 | 176 | 280 |
| Kitui | 2.3 | 735 | 671 | 2.3 | 312 | 296 |
| Machakos | 3.1 | 992 | 699 | 3.5 | 480 | 354 |
| Makueni | 2.1 | 683 | 720 | 2.0 | 279 | 308 |
| Nyandarua | 1.3 | 409 | 590 | 1.2 | 168 | 255 |
| Nyeri | 1.6 | 501 | 529 | 1.7 | 235 | 267 |
| Kirinyaga | 1.5 | 481 | 605 | 1.4 | 191 | 254 |
| Murang'a | 2.2 | 692 | 557 | 2.2 | 297 | 253 |
| Kiambu | 6.5 | 2,094 | 668 | 6.7 | 911 | 267 |
| Turkana | 1.0 | 331 | 644 | 0.8 | 111 | 225 |
| West Pokot | 1.2 | 384 | 756 | 1.1 | 150 | 288 |
| Samburu | 0.5 | 156 | 615 | 0.4 | 51 | 182 |
| Trans Nzoia | 2.1 | 675 | 713 | 2.0 | 272 | 308 |
| Uasin Gishu | 3.1 | 983 | 731 | 3.3 | 451 | 342 |
| Elgeyo Marakwet | 0.7 | 228 | 591 | 0.8 | 110 | 296 |
| Nandi | 1.9 | 622 | 721 | 1.9 | 265 | 334 |
| Baringo | 1.2 | 378 | 687 | 1.2 | 165 | 300 |
| Laikipia | 1.0 | 332 | 576 | 1.1 | 145 | 243 |
| Nakuru | 5.2 | 1,658 | 782 | 4.9 | 670 | 327 |
| Narok | 2.2 | 718 | 744 | 2.3 | 313 | 320 |
| Kajiado | 2.8 | 887 | 660 | 2.5 | 339 | 228 |
| Kericho | 2.3 | 729 | 779 | 2.4 | 330 | 368 |
| Bomet | 2.0 | 650 | 778 | 2.0 | 268 | 353 |
| Kakamega | 4.0 | 1,283 | 810 | 3.9 | 532 | 341 |
| Vihiga | 1.2 | 371 | 721 | 1.1 | 156 | 290 |
| Bungoma | 3.5 | 1,138 | 841 | 3.3 | 448 | 328 |
| Busia | 1.9 | 622 | 768 | 1.9 | 262 | 296 |
| Siaya | 1.7 | 537 | 674 | 1.7 | 227 | 282 |
| Kisumu | 2.4 | 771 | 761 | 2.5 | 345 | 356 |
| Homa Bay | 2.1 | 662 | 712 | 1.9 | 258 | 263 |
| Migori | 2.1 | 674 | 777 | 1.8 | 246 | 296 |
| Kisii | 2.6 | 831 | 708 | 2.4 | 326 | 300 |
| Nyamira | 1.0 | 327 | 635 | 1.0 | 133 | 246 |
| Nairobi City | 13.2 | 4,235 | 944 | 13.0 | 1,777 | 356 |
| Total | 100.0 | 32,156 | 32,156 | 100.0 | 13,652 | 13,669 |

Note: Education categories refer to the highest level of education attended, whether or not that level was completed. No education includes informal education (Madrassa/Duksi/adult education), more than secondary includes middle-level colleges and universities, and vocational includes training after completion of primary, secondary, or higher education.

### 3.3 Health Insurance Coverage

Health insurance is crucial in terms of access to quality health care. It aids in reducing the costs associated with illness, treatment, and care substantially. The 2022 KDHS asked whether each household member was covered by any health insurance and, if so, the type. Table 3 shows the percentage of de jure household members with specific types of health insurance.

- One in four persons in Kenya ( $26 \%$ of females and $27 \%$ of males) have some form of health insurance.
- The National Health Insurance Fund is the most common type of health insurance ( $24 \%$ each of females and males).
- The proportion of persons covered with any health insurance is higher in urban areas ( $39 \%$ among females and $41 \%$ among males) than in rural areas ( $20 \%$ among females and $19 \%$ among males).
- Health insurance coverage increases with increasing wealth, from $5 \%$ among females and males in the lowest wealth quintile to $56 \%$ among females and $60 \%$ among males in the highest wealth quintile.

| Percentage of de jure household population with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Kenya DHS 2022 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Females |  |  |  |  |  |  | Males |  |  |  |  |  |  |
| Background characteristic | National Health Insurance Fund | Private/ commercial | Community based | Other | None/ don't know | Any health insurance | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { persons } \end{aligned}$ | National Health Insurance Fund | Private/ commercial | Community based | Other | None/ don't know | Any health insurance | Number of persons |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0-14 | 18.9 | 3.0 | 0.6 | 0.1 | 79.1 | 20.9 | 14,467 | 18.8 | 3.3 | 0.5 | 0.0 | 79.2 | 20.8 | 14,514 |
| 15-49 | 26.0 | 4.4 | 0.5 | 0.1 | 71.3 | 28.7 | 18,142 | 26.2 | 4.6 | 0.4 | 0.0 | 71.2 | 28.8 | 16,878 |
| 50+ | 27.8 | 4.0 | 1.2 | 0.0 | 69.1 | 30.9 | 5,087 | 33.8 | 5.6 | 1.0 | 0.1 | 62.9 | 37.1 | 4,323 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 35.3 | 6.8 | 0.2 | 0.0 | 61.1 | 38.9 | 12,695 | 37.5 | 7.9 | 0.2 | 0.0 | 58.8 | 41.2 | 11,778 |
| Rural | 17.5 | 2.3 | 0.9 | 0.1 | 80.5 | 19.5 | 25,025 | 17.5 | 2.4 | 0.7 | 0.0 | 80.6 | 19.4 | 23,967 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 3.6 | 0.4 | 1.0 | 0.0 | 95.0 | 5.0 | 7,446 | 3.6 | 0.3 | 0.9 | 0.0 | 95.3 | 4.7 | 7,172 |
| Second | 10.7 | 0.7 | 0.7 | 0.1 | 88.0 | 12.0 | 7,616 | 11.2 | 0.6 | 0.5 | 0.0 | 87.9 | 12.1 | 7,134 |
| Middle | 20.0 | 1.4 | 0.9 | 0.1 | 78.3 | 21.7 | 7,334 | 19.9 | 1.8 | 0.6 | 0.1 | 78.4 | 21.6 | 7,190 |
| Fourth | 31.4 | 4.2 | 0.5 | 0.0 | 66.2 | 33.8 | 7,463 | 33.2 | 4.3 | 0.4 | 0.0 | 64.0 | 36.0 | 7,521 |
| Highest | 50.4 | 11.9 | 0.1 | 0.0 | 43.8 | 56.2 | 7,861 | 54.0 | 14.5 | 0.2 | 0.0 | 40.1 | 59.9 | 6,728 |
| Total | 23.5 | 3.8 | 0.6 | 0.1 | 74.0 | 26.0 | 37,720 | 24.1 | 4.2 | 0.5 | 0.0 | 73.5 | 26.5 | 35,745 |

Note: The data for this table were collected in the full household questionnaire but not in the short questionnaire. Total includes 27 women and 35 men for whom information on age is missing.

### 3.4 Disability among the Household population

The 2022 KDHS included The DHS Program's disability module, a series of questions based on the Washington Group on Disability Statistics (WG) questions, which in turn are based on the framework of the World Health Organization's International Classification of Functioning, Disability, and Health. The questions address six core functional domains (seeing, hearing, communication, cognition, walking, and self-care) and provide basic necessary information on disability. This information is comparable to that collected worldwide via the WG disability tools.

## Functional domains

Seeing, hearing, communicating, remembering or concentrating, walking or climbing steps, and washing all over or dressing.
Sample: De facto household population age 5 or above

The respondent to the Household Questionnaire provided information for all household members and visitors on whether they had no difficulty, some difficulty, a lot of difficulty, or did not have ability at all in the specified domain. The results, based on 32,074 females and 29,428 males, are presented in Tables
4.1 and 4.2. Individuals who had a lot of difficulty or could not function at all in any of the six domains were considered to have a disability.

- Overall, $6 \%$ of females and $5 \%$ males age 5 and above have a lot of difficulty or cannot function at all in at least one of the six domains.
- The most common disabilities reported were difficulty seeing ( $12 \%$ of females and $10 \%$ of males) and difficulty walking or climbing steps ( $9 \%$ of females and $6 \%$ of males).
- The percentage of persons with a disability is highest among women and men age 50 or above ( $22 \%$ and $14 \%$, respectively).
- Thirteen percent of females who have no education have a disability, as compared with $2 \%$ of females who have more than a secondary education.
- The percentage of persons with disabilities declines with increasing household wealth, from $8 \%$ among females and $7 \%$ among males in the lowest wealth quintile to $3 \%$ among females and $2 \%$ among males in the highest wealth quintile.

Table 4.1 Disability among household members according to background characteristics: Females
Percentage of the de facto household population age 5 and over who have difficulty in functioning according to domain, and by highest degree of difficulty in at least one domain, and percentage who have a lot of difficulty or cannot function at all in more than one domain, according to background characteristics, Kenya DHS 2022

| Background characteristic | No difficulty in any domain | Some difficulty, a lot of difficulty, or cannot do at all |  |  |  |  |  | Difficulty in at least one domain ${ }^{1}$ |  |  |  | A lot of difficulty or cannot do at all in more than one domain | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Seeing | Hearing | Com-municating | Remembering or concentrating | Walking or climbing steps | Washing all over or dressing | Some difficulty | A lot of difficulty | Cannot do at all | A lot of difficulty or cannot do at all |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-14 | 90.5 | 3.4 | 2.5 | 1.1 | 2.0 | 1.1 | 1.5 | 7.3 | 1.7 | 0.4 | 2.1 | 0.4 | 9,598 |
| 15-49 | 83.3 | 9.7 | 2.5 | 1.0 | 3.5 | 4.5 | 1.1 | 13.6 | 2.7 | 0.2 | 2.9 | 0.6 | 17,439 |
| 50+ | 37.0 | 38.8 | 15.5 | 3.5 | 23.0 | 41.2 | 13.7 | 40.7 | 20.5 | 1.6 | 22.2 | 8.7 | 5,016 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 84.6 | 9.2 | 2.8 | 1.8 | 2.8 | 3.7 | 1.5 | 11.7 | 2.9 | 0.6 | 3.5 | 1.0 | 6,226 |
| Married/living together | 75.8 | 14.3 | 3.9 | 0.8 | 6.3 | 10.6 | 2.5 | 19.2 | 4.8 | 0.1 | 4.9 | 1.3 | 12,082 |
| Widowed | 32.1 | 42.8 | 19.8 | 4.9 | 27.6 | 45.9 | 17.9 | 39.4 | 25.3 | 3.0 | 28.3 | 12.1 | 2,398 |
| Divorced/ separated | 68.0 | 17.6 | 5.0 | 1.2 | 9.8 | 14.4 | 3.3 | 24.2 | 7.6 | 0.1 | 7.7 | 1.6 | 1,748 |
| Not asked/ missing | 90.4 | 3.5 | 2.5 | 1.1 | 2.1 | 1.2 | 1.5 | 7.3 | 1.7 | 0.4 | 2.2 | 0.4 | 9,619 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 83.9 | 10.2 | 2.6 | 1.0 | 2.9 | 5.6 | 1.7 | 12.5 | 3.2 | 0.3 | 3.5 | 0.9 | 10,734 |
| Rural | 75.3 | 13.5 | 5.5 | 1.6 | 7.8 | 11.1 | 4.0 | 17.7 | 6.2 | 0.6 | 6.8 | 2.2 | 21,340 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 67.3 | 17.3 | 10.6 | 4.0 | 12.7 | 19.0 | 10.3 | 19.4 | 11.3 | 2.0 | 13.3 | 6.3 | 4,903 |
| Primary | 77.9 | 11.8 | 4.4 | 1.1 | 6.5 | 9.2 | 2.6 | 16.5 | 5.2 | 0.3 | 5.5 | 1.3 | 15,691 |
| Secondary | 82.6 | 11.2 | 2.2 | 0.7 | 3.1 | 5.7 | 1.0 | 14.1 | 2.9 | 0.2 | 3.1 | 0.4 | 7,635 |
| More than secondary | 84.8 | 11.1 | 1.7 | 0.6 | 2.1 | 3.9 | 0.8 | 13.5 | 1.7 | 0.0 | 1.7 | 0.3 | 3,595 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 75.4 | 12.8 | 7.2 | 2.2 | 8.5 | 10.9 | 4.8 | 16.4 | 7.2 | 0.9 | 8.1 | 3.0 | 6,188 |
| Second | 74.6 | 13.8 | 5.9 | 1.5 | 8.5 | 11.1 | 3.4 | 18.2 | 6.4 | 0.6 | 7.0 | 2.0 | 6,532 |
| Middle | 75.8 | 13.4 | 4.3 | 1.4 | 7.1 | 11.7 | 3.9 | 17.6 | 6.0 | 0.4 | 6.4 | 2.0 | 6,317 |
| Fourth | 79.8 | 11.8 | 3.1 | 1.2 | 4.3 | 8.5 | 2.8 | 15.8 | 3.8 | 0.5 | 4.3 | 1.4 | 6,318 |
| Highest | 85.1 | 10.3 | 2.1 | 0.9 | 2.4 | 4.4 | 1.2 | 12.0 | 2.7 | 0.2 | 2.9 | 0.6 | 6,718 |
| Total | 78.2 | 12.4 | 4.5 | 1.4 | 6.2 | 9.3 | 3.2 | 16.0 | 5.2 | 0.5 | 5.7 | 1.8 | 32,074 |

Note: The data for this table were collected in the full household questionnaire but not in the short questionnaire. Total includes 26 women for whom information on age is missing and 36 women with missing information on education.
${ }^{1}$ If a person was reported to have difficulty in more than one domain, only the highest level of difficulty is shown.
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 4.2 Disability among household members according to background characteristics: Males
Percentage of the de facto household population age 15 and over who have difficulty in functioning according to domain, and by highest degree of difficulty in at least one domain, and percentage who have a lot of difficulty or cannot function at all in more than one domain, according to background characteristics, Kenya DHS 2022

| Background characteristic | No difficulty in any domain | Some difficulty, a lot of difficulty, or cannot do at all |  |  |  |  |  | Difficulty in at least one domain ${ }^{1}$ |  |  |  | A lot of difficulty or cannot do at all in more than one domain | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Seeing | Hearing | Com-municating | Remembering or concentrating | Walking or climbing steps | Washing all over or dressing | Some difficulty | A lot of difficulty | Cannot do at all | A lot of difficulty or cannot do at all |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-14 | 89.1 | 3.4 | 2.5 | 1.7 | 2.5 | 1.5 | 2.6 | 7.8 | 2.1 | 0.8 | 3.0 | 0.6 | 9,491 |
| 15-49 | 86.1 | 6.9 | 2.1 | 1.4 | 3.3 | 3.4 | 1.2 | 10.8 | 2.6 | 0.4 | 3.0 | 0.7 | 15,806 |
| 50+ | 48.8 | 34.0 | 11.5 | 3.3 | 14.6 | 23.6 | 8.8 | 36.8 | 12.6 | 1.6 | 14.2 | 4.6 | 4,111 |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Never married | 88.0 | 5.2 | 2.3 | 1.9 | 3.5 | 2.8 | 1.6 | 8.5 | 2.7 | 0.8 | 3.4 | 1.1 | 7,765 |
| Married/living together | 73.6 | 16.7 | 4.8 | 1.5 | 6.2 | 9.7 | 3.0 | 20.3 | 5.5 | 0.4 | 5.9 | 1.5 | 10,830 |
| Widowed | 39.2 | 39.0 | 16.0 | 4.3 | 20.4 | 35.7 | 18.8 | 39.7 | 16.1 | 5.0 | 21.1 | 9.7 | 354 |
| Divorced/ separated | 68.4 | 15.0 | 6.2 | 2.5 | 10.3 | 12.1 | 4.3 | 23.0 | 7.4 | 0.8 | 8.1 | 1.3 | 969 |
| Not asked/ missing | 89.1 | 3.4 | 2.5 | 1.7 | 2.5 | 1.5 | 2.6 | 7.8 | 2.2 | 0.8 | 3.0 | 0.6 | 9,510 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 86.1 | 8.2 | 1.9 | 1.0 | 2.5 | 3.4 | 1.4 | 11.6 | 1.8 | 0.4 | 2.2 | 0.4 | 9,670 |
| Rural | 79.8 | 10.3 | 4.4 | 2.1 | 5.6 | 6.7 | 3.4 | 14.4 | 4.9 | 0.9 | 5.7 | 1.6 | 19,758 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 77.2 | 10.0 | 5.6 | 4.1 | 6.3 | 8.9 | 8.0 | 13.7 | 6.1 | 2.9 | 9.0 | 3.7 | 3,563 |
| Primary | 81.4 | 9.1 | 4.0 | 1.9 | 5.4 | 5.9 | 2.6 | 13.6 | 4.3 | 0.6 | 4.9 | 1.2 | 14,450 |
| Secondary | 83.7 | 9.8 | 2.4 | 1.0 | 3.3 | 4.4 | 1.3 | 13.1 | 2.8 | 0.2 | 3.0 | 0.5 | 7,405 |
| More than secondary | 84.6 | 10.6 | 2.0 | 0.4 | 2.3 | 3.8 | 0.8 | 13.3 | 1.9 | 0.2 | 2.1 | 0.2 | 3,645 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 79.9 | 9.9 | 5.4 | 2.7 | 6.0 | 7.4 | 4.3 | 13.3 | 5.5 | 1.1 | 6.7 | 2.0 | 5,685 |
| Second | 78.3 | 10.2 | 4.7 | 2.2 | 6.6 | 6.8 | 3.4 | 15.2 | 5.5 | 0.8 | 6.4 | 1.6 | 5,988 |
| Middle | 81.0 | 10.4 | 3.4 | 1.8 | 4.8 | 6.2 | 2.8 | 14.0 | 4.3 | 0.6 | 4.9 | 1.4 | 6,034 |
| Fourth | 83.5 | 9.1 | 2.5 | 1.3 | 3.5 | 4.8 | 2.0 | 13.1 | 2.4 | 0.7 | 3.1 | 0.7 | 6,280 |
| Highest | 86.8 | 8.2 | 1.7 | 0.7 | 2.1 | 2.7 | 1.0 | 11.4 | 1.4 | 0.3 | 1.7 | 0.3 | 5,440 |
| Total | 81.8 | 9.6 | 3.6 | 1.8 | 4.6 | 5.6 | 2.7 | 13.5 | 3.9 | 0.7 | 4.6 | 1.2 | 29,428 |

Note: The data for this table were collected in the full household questionnaire but not in the short questionnaire. Total includes 26 men for whom information on age is missing and 84 men with missing information on education.
${ }^{1}$ If a person was reported to have difficulty in more than one domain, only the highest level of difficulty is shown.
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

### 3.5 FERTILITY

Table 5 shows the total fertility rate (TFR) and age-specific fertility rates (ASFRs) among women by 5 -year age groups for the 3 -year period preceding the survey.

## Total fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates. Age-specific fertility rates are calculated for the 3 years before the survey, based on detailed pregnancy histories provided by women.
Sample: Women age 15-49

- If fertility were to remain constant at current levels, a woman in Kenya would bear an average of 3.4 children in her lifetime.
- Fertility is low among adolescents ( 73 births per 1,000 women age 15-19), peaks at 179 births per 1,000 among women age 20-24, and then decreases thereafter.
- The TFR is higher among women in rural areas than among those in urban areas (3.9 versus 2.8).

Figure 1 Trends in fertility by residence
TFR for the 3 years before each survey
7.1


| 1989 | 1993 | 1998 | 2003 | $2008-09$ | 2014 | 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KDHS | KDHS | KDHS | KDHS | KDHS | KDHS | KDHS |

Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions.

Trends: The TFR has declined
markedly in Kenya over time. Between 1989 and 2022, the TFR declined by 3.3 children (from 6.7 to 3.4). Over the same period, the TFR among women in rural areas declined from 7.1 children to 3.9 children. Among urban women, the TFR declined from 4.5 children to 2.8 children (Figure 1).

| Table 5 Current fertility |  |  |  |
| :---: | :---: | :---: | :---: |
| Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the 3 years preceding the survey, according to residence, Kenya DHS 2022 |  |  |  |
| Age group | Residence |  | Total |
|  | Urban | Rural |  |
| 10-14 | [0] | [3] | [2] |
| 15-19 | 56 | 83 | 73 |
| 20-24 | 138 | 219 | 179 |
| 25-29 | 143 | 200 | 172 |
| 30-34 | 121 | 150 | 137 |
| 35-39 | 76 | 94 | 87 |
| 40-44 | 32 | 36 | 35 |
| 45-49 | [2] | [7] | [5] |
| TFR (15-49) | 2.8 | 3.9 | 3.4 |
| GFR | 105 | 134 | 122 |
| CBR | 30.1 | 26.6 | 27.7 |

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

### 3.6 Teenage Fertility

## Teenage pregnancy

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

Table 6 presents the percentage of women age 15-19 who have ever had a live birth or a pregnancy loss, the percentage who are pregnant with their first child, and the percentage who have ever been pregnant by background characteristics.

- Fifteen percent of women age 15-19 have ever been pregnant; $12 \%$ have had a live birth, $1 \%$ have had a pregnancy loss, and $3 \%$ are pregnant with their first child.
- The percentage of women age $15-19$ who have ever been pregnant increases with age, from $3 \%$ among those age 15 to $31 \%$ among those age 19 .
- About 4 in 10 women age $15-19$ who have no education have ever been pregnant, as compared with only $5 \%$ of women who have more than a secondary education.
- Teenage women in the lowest wealth quintile are more likely to have ever been pregnant than women in the highest wealth quintile. The percentage of women who have ever been pregnant decreases from $21 \%$ among those in the lowest wealth quintile to $8 \%$ among those in the highest wealth quintile.
- The percentages of women age 15-19 who have ever been pregnant are highest in Samburu (50\%), West Pokot (36\%), Marsabit (29\%), Narok (28\%), Meru (24\%), Homa Bay (23\%), Migori (23\%), Kajiado (22\%), Siaya (21\%), and Baringo (20\%) and lowest in Nyeri and Nyandarua (5\% each)
(Table 6C).

Table 6 Teenage pregnancy
Percentage of women age 15-19 who have ever had a live birth, percentage who have ever had a pregnancy loss, percentage who are currently pregnant, and percentage who have ever been pregnant, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage of women age 15-19 who: |  |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Have ever had a live birth | Have ever had a pregnancy loss ${ }^{1}$ | Are currently pregnant | Have ever been pregnant |  |
| Age |  |  |  |  |  |
| 15 | 2.1 | 0.0 | 0.8 | 2.8 | 1,163 |
| 16 | 4.2 | 0.3 | 1.2 | 5.9 | 1,197 |
| 17 | 10.0 | 1.2 | 2.4 | 12.8 | 1,203 |
| 18 | 16.4 | 1.1 | 5.3 | 20.9 | 1,195 |
| 19 | 27.4 | 1.6 | 5.0 | 31.1 | 1,266 |
| Residence |  |  |  |  |  |
| Urban | 9.7 | 0.7 | 2.9 | 12.3 | 1,783 |
| Rural | 13.3 | 0.9 | 3.0 | 16.0 | 4,242 |
| Education ${ }^{2}$ |  |  |  |  |  |
| No education | 30.8 | 3.9 | 9.6 | 37.9 | 134 |
| Primary | 16.3 | 1.4 | 4.4 | 19.9 | 1,907 |
| Secondary | 9.9 | 0.5 | 2.0 | 12.0 | 3,760 |
| More than secondary | 4.0 | 0.0 | 0.8 | 4.8 | 194 |
| Wealth quintile |  |  |  |  |  |
| Lowest | 17.8 | 1.6 | 4.0 | 21.1 | 1,235 |
| Second | 14.9 | 0.6 | 3.4 | 17.5 | 1,443 |
| Middle | 10.6 | 1.1 | 2.6 | 13.6 | 1,279 |
| Fourth | 10.0 | 0.4 | 3.0 | 12.9 | 1,064 |
| Highest | 6.0 | 0.4 | 1.6 | 7.5 | 1,004 |
| Total | 12.2 | 0.9 | 3.0 | 14.9 | 6,025 |

[^0] education level attended.

Table 6C Teenage pregnancy by county
Percentage of women age 15-19 who have ever had a live birth, percentage who have ever had a pregnancy loss, percentage who are currently pregnant, and percentage who have ever been pregnant, according to county, Kenya DHS 2022

| County | Percentage of women age 15-19 who: |  |  |  | Number of women |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Have ever had a live birth | Have ever had a pregnancy loss ${ }^{1}$ | Are currently pregnant | Have ever been pregnant |  |
| Mombasa | 5.4 | 1.0 | 2.9 | 10.8 | 143 |
| Kwale | 11.5 | 2.9 | 3.7 | 14.8 | 118 |
| Kilifi | 10.3 | 1.3 | 3.8 | 12.5 | 224 |
| Tana River | 12.4 | 1.4 | 5.2 | 17.6 | 27 |
| Lamu | 11.5 | 0.8 | 1.9 | 13.7 | 24 |
| Taita Taveta | 18.4 | 1.8 | 1.8 | 18.4 | 30 |
| Garissa | 11.6 | 0.2 | 4.2 | 14.8 | 85 |
| Wajir | 7.5 | 0.5 | 5.9 | 10.8 | 45 |
| Mandera | 11.4 | 0.4 | 3.0 | 14.6 | 49 |
| Marsabit | 20.6 | 5.2 | 9.0 | 29.4 | 20 |
| Isiolo | 13.6 | 0.4 | 3.1 | 16.7 | 27 |
| Meru | 16.9 | 1.0 | 7.6 | 23.6 | 206 |
| Tharaka-Nithi | 9.1 | 0.0 | 0.8 | 9.9 | 39 |
| Embu | 9.1 | 0.4 | 4.9 | 14.4 | 49 |
| Kitui | 9.2 | 0.0 | 0.0 | 9.2 | 142 |
| Machakos | 9.5 | 0.0 | 1.7 | 11.3 | 178 |
| Makueni | 8.2 | 0.0 | 2.9 | 11.1 | 151 |
| Nyandarua | 4.3 | 0.2 | 1.5 | 5.2 | 93 |
| Nyeri | 4.5 | 0.0 | 0.0 | 4.5 | 74 |
| Kirinyaga | 7.3 | 0.0 | 0.0 | 7.3 | 64 |
| Murang'a | 3.8 | 0.0 | 3.6 | 7.4 | 139 |
| Kiambu | 8.3 | 0.0 | 3.6 | 11.9 | 267 |
| Turkana | 15.0 | 0.0 | 4.4 | 18.5 | 56 |
| West Pokot | 32.2 | 2.7 | 6.1 | 36.3 | 82 |
| Samburu | 41.5 | 5.2 | 8.7 | 50.1 | 28 |
| Trans Nzoia | 14.8 | 1.9 | 2.6 | 17.8 | 146 |
| Uasin Gishu | 7.9 | 1.9 | 5.3 | 10.7 | 158 |
| Elgeyo Marakwet | 9.6 | 1.4 | 2.5 | 12.1 | 32 |
| Nandi | 9.7 | 0.8 | 0.0 | 10.5 | 118 |
| Baringo | 14.0 | 1.5 | 6.3 | 20.3 | 86 |
| Laikipia | 8.6 | 0.6 | 1.3 | 9.1 | 69 |
| Nakuru | 13.6 | 0.8 | 3.7 | 17.3 | 283 |
| Narok | 25.9 | 2.5 | 3.0 | 28.1 | 176 |
| Kajiado | 20.3 | 0.0 | 3.0 | 21.8 | 97 |
| Kericho | 14.5 | 0.0 | 0.0 | 14.5 | 135 |
| Bomet | 7.2 | 1.2 | 1.2 | 9.0 | 152 |
| Kakamega | 12.3 | 0.5 | 2.8 | 15.1 | 328 |
| Vihiga | 3.9 | 0.0 | 4.6 | 7.7 | 113 |
| Bungoma | 14.8 | 1.8 | 4.2 | 18.6 | 294 |
| Busia | 13.1 | 2.9 | 3.0 | 18.3 | 149 |
| Siaya | 18.4 | 0.5 | 3.3 | 20.9 | 130 |
| Kisumu | 9.2 | 0.0 | 3.8 | 11.1 | 157 |
| Homa Bay | 18.7 | 2.6 | 2.9 | 23.2 | 159 |
| Migori | 20.4 | 0.6 | 4.0 | 23.0 | 159 |
| Kisii | 13.7 | 0.4 | 1.5 | 14.2 | 192 |
| Nyamira | 14.7 | 0.0 | 1.5 | 15.5 | 81 |
| Nairobi City | 8.0 | 0.0 | 0.4 | 8.4 | 452 |
| Total | 12.2 | 0.9 | 3.0 | 14.9 | 6,025 |

${ }^{1}$ Stilllbirth, miscarriage, or abortion

### 3.7 Fertility Preferences

## Desire for another child

Women 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 who are sterilized are assumed not to want any more children.

Sample: Currently married women age 15-49

- About half ( $47 \%$ ) of currently married women age $15-49$ want to have another child; $17 \%$ want to have another child soon, and $30 \%$ want to wait at least 2 years (Table 7).
- More than 4 in 10 currently married women want to limit childbearing; 43\% want no more children and $3 \%$ are sterilized.
- The desire to have another child decreases sharply with the number of children a woman has; $88 \%$ of currently married women with no children want to have a child ( $66 \%$ soon and $22 \%$ within the next 2 years). The percentage decreases to $33 \%$ among women with three children and to $16 \%$ among those with six or more children.

Table 7 Fertility preferences according to number of living children
Percent distribution of currently married women age 15-49 by desire for children, according to number of living children, Kenya DHS 2022

| Desire for children | Number of living children ${ }^{1}$ |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6+ |  |
| Have another soon ${ }^{2}$ | 66.0 | 30.2 | 18.1 | 10.4 | 7.7 | 6.4 | 7.8 | 16.7 |
| Have another later ${ }^{3}$ | 22.1 | 58.2 | 43.3 | 22.7 | 14.3 | 11.9 | 8.5 | 30.1 |
| Have another, undecided when | 0.9 | 1.1 | 0.7 | 0.6 | 0.2 | 0.1 | 0.6 | 0.6 |
| Undecided | 3.4 | 3.7 | 6.4 | 6.4 | 4.6 | 4.7 | 6.0 | 5.4 |
| Want no more | 2.5 | 5.6 | 29.5 | 56.2 | 66.2 | 69.6 | 68.6 | 43.0 |
| Sterilized ${ }^{4}$ | 0.7 | 0.1 | 0.6 | 2.4 | 4.7 | 5.5 | 6.0 | 2.5 |
| Declared infecund | 4.3 | 1.1 | 1.4 | 1.3 | 2.1 | 1.9 | 2.6 | 1.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 349 | 1,555 | 2,320 | 1,947 | 1,377 | 764 | 1,007 | 9,319 |

Note: The data for this table were collected in the full woman's questionnaire but not in the short questionnaire.
The number of living children includes a woman's current pregnancy.
${ }^{2}$ Wants next birth within 2 years
${ }^{3}$ Wants to delay next birth for 2 or more years
${ }^{4}$ Includes both female and male sterilization

### 3.8 FAMILY PLANNING

### 3.8.1 Contraceptive Use

## Contraceptive prevalence

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

## Modern methods

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

- Sixty-three percent of currently married women are using a contraceptive method, with most (57\%) using a modern method (Table 8).
- Among sexually active unmarried women age $15-49,70 \%$ use a contraceptive method, and $59 \%$ of these women use a modern method.
- The use of traditional methods is more common among sexually active unmarried women than among currently married women ( $11 \%$ and $6 \%$, respectively).
- Among currently married women, the most commonly used methods are injectables (20\%), implants ( $19 \%$ ), and contraceptive pills ( $8 \%$ ). Among sexually active unmarried women, male condoms are the most commonly used contraceptive method ( $20 \%$ ), followed by injectables ( $16 \%$ ) and implants ( $11 \%$ ).
- The percentage of currently married women using a modern method is lowest in Mandera (2\%), followed by Wajir (3\%), Marsabit (6\%), and Garissa (11\%) (Table 8C).
 ${ }_{2}^{2}$ Women who have had sexual intercourse within 30 days preceding the survey
Table 8 C Current use of contraception according to county
Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to county, Kenya DHS 2022


[^1]Trends: There was little difference in the percentage of currently married women using modern contraceptive methods between 1993 and 2003. However, the percentage has since increased steadily over time, from $32 \%$ in 2003 to $39 \%$ in $2008-09,53 \%$ in 2014, and 57\% in 2022 (Figure 2).

Figure 2 Trends in use of, need for, and demand for family planning

Percentage of currently married women age 15-49


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions

### 3.8.2 Need and Demand for Family Planning

Table 9 presents data on unmet need, met need, and total demand for family planning among currently married and sexually active unmarried women. These indicators help evaluate the extent to which family planning programs in Kenya are meeting the demand for services.

## 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, (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.

## Met need for family planning

Current contraceptive use (any method).
Sample: Currently married women age 15-49 and sexually active unmarried women age 15-49

$\quad$| Unmet need for family planning |
| :--- |
| Demand for |
| family planning: |$\quad+$ met need (current contraceptive use [any method])


| Proportion of <br> demand <br> satisfied: | Current contraceptive use (any method) |
| :--- | :---: |
|  | Unmet need + current contraceptive use (any method) |
| Proportion of <br> demand <br> satisfied | Current contraceptive use (any modern method) |
| by modern |  |
| methods: |  |$\quad$ Unmet need + current contraceptive use (any method)

- Seventy-six percent of currently married women and $89 \%$ of sexually active unmarried women have a demand for family planning.
- Fourteen percent of currently married women and $19 \%$ of sexually active unmarried women have an unmet need for family planning.
- If all women who said they want to space or limit their children were to use family planning methods, the contraceptive prevalence rate would increase from $63 \%$ to $76 \%$ among currently married women and from $70 \%$ to $89 \%$ among sexually active unmarried women.

Trends: The total demand for family planning has generally increased from 1993 to 2022. Over the same period, unmet need has declined from 35\% to 14\% (Figure 2).

- The higher the education level, the lower the unmet need for family planning; the percentage of currently married women with an unmet need for family planning declines from $23 \%$ among those with no education to $10 \%$ among those with more than a secondary education.
- Unmet need for family planning also declines with increasing wealth, from $22 \%$ among currently married women in the lowest wealth quintile to $10 \%$ among those in the highest wealth quintile.
- The counties with the highest unmet need for family planning are Marsabit (38\%), Tana River (34\%), West Pokot (30\%), Samburu (29\%), Siaya (27\%), and Isiolo (27\%) (Table 9C).

Table 9 Need and demand for family planning among currently married women and sexually active unmarried women
Percentage of currently married women and sexually active unmarried women age 15-49 with unmet need for family planning, percentage with met need for family planning, percentage with met need for family planning who are using modern methods, percentage with demand for family planning, percentage of the demand for family planning that is satisfied, and percentage of the demand for family planning that is satisfied with modern methods, according to background characteristics, Kenya DHS 2022

| Background characteristic | Unmet need for family planning | Met need for family planning (currently using) |  | Total demand for family planning ${ }^{3}$ | Number of women | Percentage of demand satisfied ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All methods | Modern methods ${ }^{2}$ |  |  | All methods | Modern methods ${ }^{2}$ |
| CURRENTLY MARRIED WOMEN |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 21.6 | 43.9 | 38.9 | 65.5 | 244 | 67.0 | 59.4 |
| 20-24 | 16.9 | 57.7 | 51.8 | 74.6 | 1,358 | 77.4 | 69.5 |
| 25-29 | 11.8 | 65.0 | 61.1 | 76.9 | 2,085 | 84.6 | 79.5 |
| 30-34 | 13.0 | 65.6 | 59.8 | 78.6 | 1,824 | 83.4 | 76.1 |
| 35-39 | 14.2 | 67.0 | 61.6 | 81.2 | 1,707 | 82.5 | 75.8 |
| 40-44 | 14.0 | 63.6 | 57.1 | 77.6 | 1,147 | 82.0 | 73.5 |
| 45-49 | 13.4 | 49.8 | 44.7 | 63.2 | 954 | 78.8 | 70.7 |
| Residence |  |  |  |  |  |  |  |
| Urban | 11.7 | 62.4 | 55.7 | 74.1 | 3,616 | 84.2 | 75.2 |
| Rural | 15.4 | 62.0 | 57.6 | 77.3 | 5,703 | 80.1 | 74.4 |
| Education ${ }^{4}$ |  |  |  |  |  |  |  |
| No education | 22.8 | 22.5 | 19.0 | 45.3 | 724 | 49.7 | 42.0 |
| Primary | 15.2 | 64.3 | 60.5 | 79.5 | 3,842 | 80.9 | 76.1 |
| Secondary | 12.7 | 65.7 | 60.6 | 78.4 | 2,908 | 83.8 | 77.3 |
| More than secondary | 9.7 | 67.4 | 57.6 | 77.1 | 1,751 | 87.4 | 74.7 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 21.6 | 45.9 | 43.1 | 67.5 | 1,559 | 68.0 | 63.8 |
| Second | 14.7 | 66.6 | 62.8 | 81.3 | 1,631 | 82.0 | 77.3 |
| Middle | 13.7 | 64.8 | 60.5 | 78.6 | 1,711 | 82.5 | 77.0 |
| Fourth | 12.0 | 65.1 | 59.0 | 77.1 | 2,096 | 84.5 | 76.6 |
| Highest | 10.1 | 65.2 | 57.2 | 75.3 | 2,322 | 86.5 | 76.0 |
| Total | 13.9 | 62.1 | 56.8 | 76.1 | 9,319 | 81.7 | 74.7 |

Table 9-Continued

| Background characteristic | Unmet need for family planning | Met need for family planning (currently using) |  | Total demand for family planning ${ }^{3}$ | Number of women | Percentage of demand satisfied ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All methods | Modern methods ${ }^{2}$ |  |  | All methods | Modern methods ${ }^{2}$ |
| SEXUALLY ACTIVE UNMARRIED WOMEN ${ }^{5}$ |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-19 | 34.5 | 58.4 | 43.8 | 92.8 | 120 | 62.9 | 47.2 |
| 20-24 | 21.1 | 73.1 | 60.9 | 94.2 | 283 | 77.6 | 64.6 |
| 25-29 | 16.5 | 73.2 | 62.8 | 89.8 | 146 | 81.6 | 70.0 |
| 30-34 | 15.7 | 68.5 | 66.1 | 84.2 | 120 | 81.4 | 78.5 |
| 35-39 | 2.7 | 82.1 | 65.7 | 84.9 | 97 | 96.8 | 77.4 |
| 40-44 | 18.6 | 73.0 | 64.1 | 91.6 | 66 | 79.7 | 70.0 |
| 45-49 | (21.8) | (46.3) | (40.0) | (68.1) | 48 | (68.0) | (58.8) |
| Residence |  |  |  |  |  |  |  |
| Urban | 16.6 | 73.1 | 58.3 | 89.7 | 434 | 81.5 | 64.9 |
| Rural | 21.8 | 67.0 | 60.2 | 88.8 | 446 | 75.5 | 67.7 |
| Total | 19.2 | 70.0 | 59.2 | 89.3 | 880 | 78.5 | 66.4 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. Numbers in the 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.
${ }^{1}$ Percentage of demand satisfied is met need divided by total demand.
${ }^{2}$ Modern methods include female sterilization, male sterilization, IUD, injectables, implants, pill, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and other modern methods.
${ }^{3}$ Total demand is the sum of unmet need and met need.
${ }^{4}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges
and universities. Excludes people who reported vocational training as the highest education level attended.
${ }^{5}$ Women who have had sexual intercourse within 30 days preceding the survey

## Table 9C Need and demand for family planning among currently married women by county

Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, percentage with met need for family planning who are using modern methods, percentage with demand for family planning, percentage of the demand for family planning that is satisfied, and percentage of the demand for family planning that is satisfied with modern methods, according to county, Kenya DHS 2022

| County | Unmet need for family planning | Met need for family planning (currently using) |  | Total demand for family planning ${ }^{3}$ | Number of women | Percentage of demand satisfied ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All methods | Modern methods ${ }^{2}$ |  |  | All methods | Modern methods ${ }^{2}$ |
| Mombasa | 19.1 | 46.8 | 40.9 | 65.9 | 281 | 71.0 | 62.0 |
| Kwale | 24.4 | 32.5 | 32.5 | 56.9 | 159 | 57.1 | 57.1 |
| Kilifi | 17.9 | 51.0 | 46.9 | 68.9 | 255 | 74.0 | 68.1 |
| Tana River | 33.6 | 24.5 | 22.9 | 58.1 | 56 | 42.2 | 39.4 |
| Lamu | 16.8 | 46.5 | 41.0 | 63.3 | 33 | 73.4 | 64.8 |
| Taita Taveta | 12.8 | 67.1 | 63.9 | 80.0 | 67 | 84.0 | 80.0 |
| Garissa | 10.8 | 15.2 | 12.6 | 26.1 | 94 | 58.5 | 48.4 |
| Wajir | 12.7 | 4.2 | 4.2 | 16.9 | 52 | 24.9 | 24.9 |
| Mandera | 17.3 | 0.7 | 0.7 | 18.0 | 75 | 4.1 | 4.1 |
| Marsabit | 37.6 | 4.8 | 4.8 | 42.4 | 50 | 11.4 | 11.4 |
| Isiolo | 27.3 | 33.0 | 31.0 | 60.2 | 43 | 54.8 | 51.5 |
| Meru | 7.8 | 77.7 | 71.0 | 85.5 | 291 | 90.9 | 83.1 |
| Tharaka-Nithi | 9.7 | 72.9 | 67.4 | 82.6 | 86 | 88.2 | 81.6 |
| Embu | 2.2 | 81.7 | 74.9 | 83.9 | 109 | 97.4 | 89.3 |
| Kitui | 17.7 | 67.4 | 62.5 | 85.1 | 218 | 79.2 | 73.4 |
| Machakos | 6.7 | 77.2 | 66.0 | 84.0 | 297 | 92.0 | 78.6 |
| Makueni | 10.8 | 69.3 | 60.6 | 80.1 | 199 | 86.5 | 75.7 |
| Nyandarua | 8.6 | 75.9 | 72.6 | 84.4 | 119 | 89.9 | 85.9 |
| Nyeri | 4.9 | 79.7 | 72.9 | 84.6 | 132 | 94.2 | 86.2 |
| Kirinyaga | 6.7 | 73.7 | 68.0 | 80.4 | 135 | 91.7 | 84.5 |
| Murang'a | 5.3 | 73.0 | 69.0 | 78.4 | 164 | 93.2 | 88.1 |
| Kiambu | 8.0 | 74.5 | 66.1 | 82.4 | 574 | 90.3 | 80.2 |
| Turkana | 15.6 | 39.4 | 30.2 | 55.1 | 105 | 71.6 | 54.9 |
| West Pokot | 30.3 | 23.2 | 22.6 | 53.5 | 138 | 43.3 | 42.3 |
| Samburu | 29.4 | 33.1 | 26.5 | 62.5 | 52 | 52.9 | 42.5 |
| Trans Nzoia | 13.6 | 69.2 | 65.8 | 82.8 | 180 | 83.6 | 79.4 |
| Uasin Gishu | 13.3 | 67.4 | 60.3 | 80.6 | 284 | 83.6 | 74.7 |
| Elgeyo Marakwet | 13.5 | 71.1 | 57.3 | 84.6 | 72 | 84.0 | 67.7 |
| Nandi | 17.7 | 63.8 | 58.6 | 81.6 | 173 | 78.3 | 71.9 |
| Baringo | 16.6 | 55.4 | 44.8 | 72.0 | 103 | 77.0 | 62.2 |
| Laikipia | 4.7 | 75.7 | 66.8 | 80.4 | 84 | 94.1 | 83.0 |
| Nakuru | 8.3 | 72.1 | 64.6 | 80.4 | 501 | 89.7 | 80.3 |
| Narok | 14.8 | 65.9 | 55.2 | 80.7 | 242 | 81.7 | 68.4 |
| Kajiado | 12.5 | 59.9 | 54.8 | 72.4 | 262 | 82.7 | 75.7 |
| Kericho | 17.1 | 60.0 | 60.0 | 77.1 | 197 | 77.8 | 77.8 |
| Bomet | 16.7 | 63.3 | 56.9 | 80.0 | 187 | 79.1 | 71.1 |
| Kakamega | 13.4 | 68.7 | 64.9 | 82.2 | 381 | 83.6 | 79.0 |


| Table 9C-Continued |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County | Unmet need for family planning | Met need for family planning (currently using) |  | Total demand for family planning ${ }^{3}$ | Number of women | Percentage of demand satisfied ${ }^{1}$ |  |
|  |  | All methods | Modern methods ${ }^{2}$ |  |  | All methods | Modern methods ${ }^{2}$ |
| Vihiga | 18.3 | 60.0 | 57.6 | 78.3 | 98 | 76.6 | 73.6 |
| Bungoma | 14.6 | 65.0 | 62.9 | 79.7 | 311 | 81.6 | 79.0 |
| Busia | 18.6 | 57.7 | 56.0 | 76.3 | 195 | 75.6 | 73.4 |
| Siaya | 27.3 | 42.2 | 41.6 | 69.5 | 155 | 60.8 | 59.9 |
| Kisumu | 16.4 | 60.5 | 57.1 | 76.9 | 207 | 78.7 | 74.2 |
| Homa Bay | 17.0 | 64.9 | 63.3 | 81.9 | 200 | 79.2 | 77.3 |
| Migori | 20.1 | 60.3 | 54.9 | 80.4 | 205 | 74.9 | 68.3 |
| Kisii | 14.9 | 68.7 | 63.2 | 83.6 | 277 | 82.1 | 75.6 |
| Nyamira | 15.9 | 62.1 | 58.9 | 78.0 | 92 | 79.6 | 75.5 |
| Nairobi City | 12.5 | 62.5 | 57.5 | 75.1 | 1,129 | 83.3 | 76.6 |
| Total | 13.9 | 62.1 | 56.8 | 76.1 | 9,319 | 81.7 | 74.7 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. Numbers in the table correspond to the revised definition of unmet need described in Bradley et al. 2012.
${ }^{1}$ Percentage of demand satisfied is met need divided by total demand.
${ }^{2}$ Modern methods include female sterilization, male sterilization, IUD, injectables, implants, pill, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhea method (LAM), and other modern methods.
${ }^{3}$ Total demand is the sum of unmet need and met need.

### 3.9 Maternal Care

Proper care during pregnancy and delivery is important for the health of both the mother and the baby.
Table 10 and Table 10C present key indicators related to maternal care.

### 3.9.1 Antenatal Care

## Antenatal care from a skilled provider

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

Antenatal care (ANC) from a skilled provider is important to monitor pregnancy and reduce morbidity and mortality risks for the mother and child during pregnancy, delivery, and the postnatal period.

- Nearly all women ( $98 \%$ ) reported receiving antenatal care from a skilled provider for their most recent live birth or stillbirth in the 2-year period before the survey.
- Overall, $66 \%$ of women had four or more ANC visits for their most recent live birth or stillbirth.
- Nine in 10 women took iron-containing supplements during their most recent pregnancy.
- The percentage of women who had four or more ANC visits for their last live birth increases from $49 \%$ among those with no education to $83 \%$ among those with more than a secondary education.
- The percentage of women with four or more ANC visits for their last live birth is higher in urban areas than in rural areas ( $74 \%$ versus $62 \%$ ).
- At the county level, the proportion of women who had four or more ANC visits for their last live birth is lowest in Garissa (31\%) and highest in Nyeri (82\%).


### 3.9.2 Tetanus Toxoid

## Protection against neonatal tetanus

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

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

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

Tetanus toxoid injections are given during pregnancy to prevent neonatal tetanus, a major cause of early infant death in many countries. Neonatal tetanus is often caused by failure to observe hygienic procedures during delivery.

- Overall, $75 \%$ of women with a live birth in the 2 years preceding the survey received sufficient tetanus toxoid injections to protect their baby against neonatal tetanus.
- The percentage of women whose most recent live birth was protected from tetanus increases with increasing education and wealth, from $66 \%$ among women with no education to $81 \%$ among those with more than a secondary education and from $68 \%$ among women in the lowest wealth quintile to $81 \%$ among those in the highest quintile.
- By county, the percentage of women whose most recent live birth was protected from tetanus ranges from $54 \%$ in Mandera to $92 \%$ in Busia.


## Table 10 Maternal care indicators

Among women age 15-49 who had a live birth and/or a stillbirth in the 2 years preceding the survey, percentage who received antenatal care (ANC) from a skilled provider for the most recent live birth or stillbirth, percentage with four or more ANC visits for the most recent live birth or stillbirth, percentage who took any ironcontaining supplements during the pregnancy for the most recent live birth or stillbirth, and percentage whose most recent live birth was protected against neonatal tetanus; among all live births and stillbirths in the 2 years preceding the survey, percentage delivered by a skilled provider and percentage delivered in a health facility; and among women age 15-49 with a live birth or stillbirth in the 2 years preceding the survey, percentage who received a postnatal check during the first 2 days after giving birth, according to background characteristics, Kenya DHS 2022

| Background characteristic | Women who had a live birth and/or a stillbirth in the 2 years preceding the survey |  |  |  |  | Live births and stillbirths in the 2 years preceding the survey |  |  | Women who had a live birth and/or a stillbirth in the 2 years preceding the survey |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage receiving antenatal care from a skilled provider ${ }^{1}$ | Percentage with 4+ ANC visits | Percentage who took any ironcontaining supplements during pregnancy ${ }^{2}$ | Percentage whose most recent live birth was protected against neonatal tetanus ${ }^{3}$ | Number of women | Percentage delivered by a skilled provider ${ }^{1}$ | Percentage delivered in a health facility | Number of births | Percentage with a postnatal check during the first 2 days after birth ${ }^{4}$ | Number of women |
| LIVE BIRTHS |  |  |  |  |  |  |  |  |  |  |
| Mother's age at birth |  |  |  |  |  |  |  |  |  |  |
| <20 | 97.0 | 57.1 | 86.3 | 67.9 | 891 | 88.1 | 83.8 | 920 | 71.9 | 891 |
| 20-34 | 98.4 | 68.7 | 91.4 | 77.2 | 5,074 | 90.2 | 83.1 | 5,274 | 73.5 | 5,074 |
| 35-49 | 95.8 | 59.9 | 86.8 | 69.7 | 882 | 85.2 | 76.0 | 907 | 67.4 | 882 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 98.9 | 74.1 | 91.1 | 77.0 | 2,470 | 97.3 | 91.7 | 2,562 | 79.0 | 2,470 |
| Rural | 97.3 | 61.5 | 89.7 | 73.9 | 4,377 | 84.8 | 77.0 | 4,539 | 68.8 | 4,377 |
| Mother's education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 90.2 | 49.1 | 79.0 | 66.1 | 639 | 54.6 | 47.9 | 666 | 50.2 | 639 |
| Primary | 97.7 | 59.6 | 88.7 | 71.8 | 2,417 | 87.2 | 81.0 | 2,501 | 70.7 | 2,417 |
| Secondary | 99.1 | 67.8 | 92.5 | 77.0 | 2,473 | 95.2 | 89.5 | 2,570 | 77.0 | 2,473 |
| More than secondary | 99.6 | 83.2 | 93.6 | 81.4 | 1,239 | 99.1 | 88.1 | 1,281 | 78.5 | 1,239 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 95.1 | 53.9 | 86.2 | 68.4 | 1,538 | 69.3 | 62.6 | 1,593 | 58.9 | 1,538 |
| Second | 97.8 | 59.5 | 89.1 | 73.3 | 1,244 | 89.0 | 81.9 | 1,296 | 72.2 | 1,244 |
| Middle | 98.3 | 65.3 | 89.8 | 74.8 | 1,234 | 94.0 | 87.0 | 1,284 | 73.8 | 1,234 |
| Fourth | 98.8 | 69.6 | 92.0 | 77.8 | 1,414 | 97.8 | 91.0 | 1,466 | 76.0 | 1,414 |
| Highest | 99.7 | 82.0 | 93.8 | 81.2 | 1,417 | 98.8 | 91.3 | 1,462 | 82.8 | 1,417 |
| Total | 97.9 | 66.0 | 90.2 | 75.0 | 6,847 | 89.3 | 82.3 | 7,101 | 72.5 | 6,847 |
| STILLBIRTHS |  |  |  |  |  |  |  |  |  |  |
| Total | 89.9 | 47.0 | 79.3 | na | 110 | 89.7 | 81.5 | 118 | 58.6 | 110 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |
| Total | 97.7 | 65.7 | 90.0 | na | 6,957 | 89.3 | 82.3 | 7,219 | 72.3 | 6,957 |

Note: If more than one source of assistance was mentioned, only the provider with the highest qualifications is considered in this tabulation
na = not applicable
${ }^{1}$ Skilled provider includes a doctor, a nurse, a midwife, or a clinical officer.
${ }^{2}$ Iron tablets, iron syrup, or iron and folic acid supplements
${ }^{3}$ 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 last live birth
${ }^{4}$ Includes women who received a check from a doctor, a nurse, a midwife, a clinical officer, a community health worker, a fieldworker, or a traditional birth attendant
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.
${ }^{6}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data on antenatal care and postnatal checks are tabulated for the most recent birth only.

Table 10C Maternal care indicators by county
Among women age 15-49 who had a live birth in the 2 years preceding the survey, percentage who received antenatal care (ANC) from a skilled provider for the most recent live birth, percentage with four or more ANC visits for the most recent live birth, percentage who took any iron-containing supplements during pregnancy, and percentage whose most recent live birth was protected against neonatal tetanus; among all live births in the 2 years before the survey, percentage delivered by a skilled provider and percentage delivered in a health facility; and among women age 15-49 with a live birth in the 2 years preceding the survey, percentage who received a postnatal check during the first 2 days after giving birth, according to county, Kenya DHS 2022

| County | Women who had a live birth in the 2 years preceding the survey |  |  |  |  | Live births in the 2 years preceding the survey |  |  | Women who had a live birth in the 2 years preceding the survey |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage receiving antenatal care from a skilled provider ${ }^{1}$ | Percentage with 4+ ANC visits | Percentage who took any ironcontaining supplements during pregnancy ${ }^{2}$ | Percentage whose most recent live birth was protected against neonatal tetanus ${ }^{3}$ | Number of women | Percentage delivered by a skilled provider ${ }^{1}$ | Percentage delivered in a health facility | Number of births | Percentage with a postnatal check during the first 2 days after birth ${ }^{4}$ | Number of women |
| Mombasa | 99.4 | 65.3 | 94.1 | 62.3 | 170 | 95.5 | 94.1 | 187 | 75.0 | 170 |
| Kwale | 99.3 | 71.9 | 96.2 | 75.2 | 113 | 89.3 | 84.1 | 119 | 89.7 | 113 |
| Kilifi | 99.3 | 77.3 | 95.1 | 71.0 | 188 | 84.5 | 83.8 | 191 | 82.5 | 188 |
| Tana River | 95.3 | 61.2 | 86.6 | 62.2 | 55 | 59.2 | 51.1 | 56 | 59.4 | 55 |
| Lamu | 97.9 | 70.5 | 87.1 | 81.8 | 27 | 92.5 | 90.3 | 29 | 87.5 | 27 |
| Taita Taveta | 100.0 | 64.9 | 92.8 | 91.3 | 52 | 95.7 | 93.3 | 54 | 86.7 | 52 |
| Garissa | 77.5 | 31.2 | 48.0 | 57.2 | 85 | 68.1 | 61.4 | 94 | 45.4 | 85 |
| Wajir | 84.0 | 44.9 | 72.0 | 60.7 | 52 | 56.6 | 53.6 | 56 | 37.0 | 52 |
| Mandera | 76.4 | 40.4 | 61.4 | 53.6 | 89 | 54.7 | 50.4 | 95 | 45.7 | 89 |
| Marsabit | 93.8 | 67.1 | 87.0 | 67.0 | 53 | 68.7 | 59.3 | 54 | 40.6 | 53 |
| Isiolo | 99.3 | 52.9 | 84.7 | 77.8 | 36 | 85.0 | 83.7 | 37 | 75.1 | 36 |
| Meru | 99.2 | 45.0 | 83.7 | 69.4 | 206 | 90.9 | 71.6 | 207 | 41.3 | 206 |
| Tharaka-Nithi | 98.0 | 63.2 | 93.3 | 79.9 | 49 | 95.1 | 74.9 | 50 | 66.0 | 49 |
| Embu | 100.0 | 62.0 | 88.2 | 89.6 | 64 | 96.3 | 86.3 | 69 | 85.9 | 64 |
| Kitui | 94.1 | 68.2 | 88.6 | 65.7 | 142 | 86.0 | 76.2 | 145 | 75.4 | 142 |
| Machakos | 98.0 | 76.9 | 92.5 | 64.2 | 154 | 95.3 | 93.1 | 166 | 90.1 | 154 |
| Makueni | 99.1 | 75.7 | 93.1 | 83.5 | 121 | 92.1 | 88.1 | 126 | 83.8 | 121 |
| Nyandarua | 98.3 | 60.6 | 92.2 | 75.8 | 82 | 98.0 | 95.3 | 84 | 80.1 | 82 |
| Nyeri | 97.3 | 82.2 | 90.6 | 73.7 | 85 | 99.1 | 99.1 | 88 | 80.4 | 85 |
| Kirinyaga | 100.0 | 67.6 | 92.7 | 64.6 | 81 | 97.3 | 91.6 | 84 | 88.3 | 81 |
| Murang'a | 100.0 | 58.3 | 90.9 | 86.0 | 134 | 96.2 | 83.9 | 142 | 77.6 | 134 |
| Kiambu | 98.4 | 66.8 | 93.2 | 86.1 | 412 | 98.2 | 89.2 | 420 | 83.1 | 412 |
| Turkana | 99.5 | 57.7 | 96.9 | 86.4 | 126 | 52.6 | 43.2 | 130 | 52.1 | 126 |
| West Pokot | 97.9 | 35.0 | 87.2 | 70.6 | 174 | 65.3 | 55.5 | 177 | 65.9 | 174 |
| Samburu | 92.9 | 56.3 | 84.5 | 62.1 | 59 | 56.6 | 49.1 | 62 | 54.1 | 59 |
| Trans Nzoia | 98.8 | 68.1 | 92.9 | 62.3 | 135 | 93.3 | 85.2 | 137 | 74.4 | 135 |
| Uasin Gishu | 98.9 | 71.9 | 93.5 | 67.4 | 210 | 95.3 | 91.0 | 219 | 71.2 | 210 |
| Elgeyo Marakwet | 99.3 | 51.5 | 86.0 | 69.3 | 67 | 97.5 | 85.4 | 69 | 78.2 | 67 |
| Nandi | 97.6 | 62.1 | 80.7 | 75.7 | 116 | 87.1 | 80.9 | 118 | 63.0 | 116 |
| Baringo | 99.3 | 49.4 | 84.2 | 76.0 | 99 | 83.0 | 58.1 | 103 | 61.7 | 99 |
| Laikipia | 99.0 | 65.5 | 91.7 | 84.2 | 64 | 92.6 | 87.1 | 65 | 66.8 | 64 |
| Nakuru | 97.7 | 73.4 | 93.5 | 90.7 | 334 | 93.4 | 93.5 | 342 | 82.0 | 334 |
| Narok | 96.5 | 55.3 | 83.8 | 75.1 | 235 | 70.1 | 64.2 | 242 | 65.6 | 235 |
| Kajiado | 100.0 | 81.2 | 94.8 | 78.3 | 204 | 85.3 | 82.7 | 205 | 80.8 | 204 |
| Kericho | 95.7 | 58.6 | 90.4 | 87.7 | 141 | 92.3 | 89.7 | 147 | 65.3 | 141 |
| Bomet | 96.6 | 53.3 | 90.8 | 82.8 | 128 | 88.2 | 56.5 | 137 | 52.3 | 128 |
| Kakamega | 100.0 | 73.3 | 92.7 | 79.4 | 287 | 95.7 | 90.0 | 298 | 60.5 | 287 |
| Vihiga | 99.1 | 79.4 | 98.2 | 84.8 | 63 | 97.2 | 90.9 | 67 | 86.8 | 63 |
| Bungoma | 98.6 | 72.5 | 90.3 | 74.2 | 228 | 87.2 | 79.3 | 243 | 51.6 | 228 |
| Busia | 99.4 | 70.7 | 94.5 | 91.5 | 139 | 87.6 | 83.7 | 145 | 90.5 | 139 |
| Siaya | 99.1 | 65.1 | 89.3 | 64.9 | 119 | 94.9 | 84.4 | 125 | 80.1 | 119 |
| Kisumu | 98.0 | 63.3 | 94.8 | 73.5 | 172 | 97.9 | 94.4 | 177 | 87.9 | 172 |
| Homa Bay | 95.1 | 68.8 | 89.1 | 57.3 | 152 | 91.2 | 86.4 | 156 | 72.2 | 152 |
| Migori | 100.0 | 58.5 | 92.2 | 59.2 | 182 | 92.6 | 89.2 | 190 | 70.5 | 182 |
| Kisii | 98.5 | 62.7 | 94.7 | 84.4 | 164 | 93.5 | 76.0 | 168 | 71.5 | 164 |
| Nyamira | 100.0 | 65.8 | 93.6 | 76.9 | 55 | 92.6 | 91.5 | 57 | 85.2 | 55 |
| Nairobi City | 100.0 | 80.5 | 91.2 | 74.5 | 746 | 99.4 | 93.4 | 773 | 80.1 | 746 |
| Total | 97.9 | 66.0 | 90.2 | 75.0 | 6,847 | 89.3 | 82.3 | 7,101 | 72.5 | 6,847 |

Note: If more than one source of assistance was mentioned, only the provider with the highest qualifications is considered in this tabulation.
${ }^{1}$ Skilled provider includes a doctor, a nurse, a midwife, or a clinical officer.
${ }^{2}$ Iron tablets, iron syrup, or iron and folic acid supplements.
${ }^{3}$ 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 last live birth
${ }^{4}$ Includes women who received a check from a doctor, a nurse, a midwife, a clinical officer, a community health worker, a fieldworker, or a traditional birth attendant

### 3.9.3 Delivery Care

## Institutional deliveries

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

## Skilled assistance during delivery

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

Access to proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that could lead to death or serious illness for the mother and the baby (Van Lerberghe and De Brouwere 2001; WHO 2006a). Overall, $89 \%$ of live births and stillbirths were assisted by a skilled provider, and $82 \%$ of live births and stillbirths occurred at a health facility.

Trends: The percentage of live births that are assisted by a skilled provider has increased markedly over the past two decades, from $41 \%$ in 2003 to $89 \%$ in 2022
(Figure 3).

- Almost all live births to mothers with more than a secondary education were delivered by a skilled attendant ( $99 \%$ ), as compared with $55 \%$ of births to mothers with no education.
- The percentage of live births delivered by a skilled provider increases with increasing household wealth, from $69 \%$ among births in the lowest wealth quintile to $99 \%$ in the highest quintile.
- Live births to women in urban areas ( $97 \%$ ) are more likely to be delivered by a skilled provider than births to women in rural areas ( $85 \%$ ).
- At the county level, the proportion of live births delivered by a skilled provider is lowest in Turkana (53\%), Mandera (55\%), Wajir (57\%), Samburu (57\%), and Tana River (59\%) (Map 1).

Map 1 Delivery by skilled provider by county
Percentage of live births in the 2 years before the survey that were delivered by a skilled provider


### 3.9.4 Postnatal Care for the Mother

A large proportion of maternal and neonatal deaths occur during the first 48 hours after delivery. Thus, prompt postnatal care (PNC) for both the mother and the child is important to treat any complications arising from the delivery, as well as to provide the mother with important information on how to care for herself and her child. Safe motherhood programs recommend that all women receive a check of their health during the first 2 days after birth.

- Overall, $73 \%$ of women with a live birth in the 2 years preceding the survey received a postnatal check within 2 days after delivery; only $59 \%$ of women with a stillbirth received a postnatal check.
- The proportion of women with a live birth who received a postnatal check during the first 2 days after birth increases with increasing wealth, from $59 \%$ among those in the lowest quintile to $83 \%$ among those in the highest quintile.
- Seventy-nine percent of women in urban areas received a postnatal check in the first 2 days after delivery, as compared with $69 \%$ of their counterparts in rural areas.
- The proportions of women who received a postnatal check during the first 2 days after a live birth are lowest in Wajir (37\%), Marsabit (41\%), Meru (41\%), Garissa (45\%), and Mandera (46\%).


### 3.10 Vaccination Coverage

Vaccination is one of the most cost-effective interventions implemented to prevent diseases, especially among children. Universal immunization of children against common vaccine-preventable diseases is crucial to reducing infant and child morbidity and mortality. In Kenya, routine childhood vaccines are guided by the Expanded Immunization Program, which outlines the childhood vaccination schedule as follows:

- BCG (bacillus Calmette-Guérin) for tuberculosis at birth
- Rotarix (rotavirus vaccine) at weeks 6 and 10
- DPT (diphtheria, pertussis [whooping cough], and tetanus), hepatitis B, and Haemophilus influenzae type B (Hib), all given together as the pentavalent vaccine;
- Pneumococcal vaccine (PCV 10) and oral polio vaccine at weeks 6, 10, and 14
- Inactivated polio vaccine (IPV), which was introduced as part of routine childhood vaccines in 2015 and is co-administered with OPV 3 at 14 weeks
- Measles and rubella vaccine (MR 1 and 2) at 9 and 18 months

In the 2022 KDHS, information on vaccination coverage was obtained in two ways: from written vaccination records, including the mother and child health handbook or other home-based record, and from mothers' verbal reports. In this survey, a vaccination record was seen for $76 \%$ of children age 12-23 months and $61 \%$ of children age $24-35$ months (data not shown).

### 3.10.1 Basic Antigen Coverage

## Fully vaccinated: basic antigens

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

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

Sample: Children age 12-23 months

Historically, an important measure of vaccination coverage has been the proportion of children receiving all "basic" antigens. Children are considered fully vaccinated against all basic antigens if they have received the BCG vaccine, three doses each of polio vaccine (excluding OPV given at birth) and DPTcontaining vaccine, and a single dose of measles-containing vaccine. In Kenya, the BCG vaccine is usually given at birth or at first clinic contact, while the polio and DPT-containing vaccines are given at approximately age 6,10 , and 14 weeks. A first measles-containing vaccination should be given at or soon after age 9 months. Table 11 and Table 11C present vaccination information that includes children fully vaccinated for basic antigens as per the national schedule.

- Eight in 10 children age 12-23 months are fully vaccinated with the basic antigens. With respect to individual vaccine antigens, $97 \%$ each of children have received BCG, the first dose of pentavalent, and the first dose of OPV, and $89 \%$ have received the first dose of MR vaccine.
- The coverage rate for the OPV birth dose, co-administered with BCG as per the national schedule, is $86 \%$. This is 11 percentage points lower than BCG. BCG coverage is slightly lower among children whose mothers have no education ( $89 \%$ ) than among those whose mothers have more than a secondary education ( $99 \%$ ).
- The dropout rate between the second dose (94\%) and third dose (78\%) of OPV is 16 percentage points. This dropout rate is observable across demographic and social disaggregation subgroups.
- Eighty-seven percent of children have received IPV; this is 9 percentage points higher than the percentage of children who have received the third dose of OPV.
- Two percent of children age 12-23 months have received no vaccinations.

Trends: The vaccination coverage rate for basic antigens increased dramatically between 1989 and 1993 and dipped to a low of $52 \%$ in 2003. There has been a sustained upward trend since 2008-09, with coverage in 2022 at $80 \%$ (Figure 4). The percentage of children receiving no vaccinations dropped dramatically between 1989 and 1993 and has since stabilized.

Figure 4 Trends in childhood vaccinations
Percentage of children age 12-23 months


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions.

- At the county level, Vihiga has the highest vaccination coverage for basic antigens (96\%), while Garissa has the lowest (23\%) (Map 2 and Table 11C).


## Map 2 Vaccination coverage by county

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


### 3.10.2 Vaccination Coverage According to the National Schedule

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

The results displayed in Table 11 indicate that 55\% of children age 12-23 months and $38 \%$ of children age 24-35 months are fully vaccinated according to the national schedule.
Table 11 Vaccinations by background characteristics
 percentage fully vaccinated according to the national schedule, and percentage who received no vaccinations, according to background characteristics, Kenya DHS 2022

| Background characteristic | Children age 12-23 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Children age 24-35 months |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DPT-HepB-Hib |  |  |  | OPV ${ }^{1}$ |  |  |  | IPV | Pneumococcal |  |  | Rotavirus |  | MR 1 | $\begin{gathered} \text { Fully } \\ \text { vaccinated } \\ \text { (basic } \\ \text { antigens) }^{2} \\ \hline \end{gathered}$ | Fully vaccinated (according to national schedule) ${ }^{3}$ | No vaccinations | Number of children | MR 2 | Fully vaccinated (according to national schedule) ${ }^{4}$ | Number of children |
|  | BCG | 1 | 2 | 3 | 0 | 1 | 2 | 3 |  | 1 | 2 | 3 | 1 | 2 |  |  |  |  |  |  |  |  |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 96.4 | 96.9 | 93.8 | 88.8 | 86.0 | 95.9 | 93.6 | 77.5 | 88.2 | 96.2 | 95.2 | 91.2 | 95.8 | 92.1 | 89.5 | 80.2 | 56.0 | 2.5 | 1,672 | 69.7 | 38.1 | 1,677 |
| Female | 97.4 | 97.3 | 94.1 | 89.5 | 86.2 | 97.0 | 94.8 | 78.9 | 86.5 | 96.8 | 95.6 | 91.1 | 96.2 | 92.5 | 88.6 | 80.0 | 54.4 | 1.8 | 1,652 | 63.8 | 36.9 | 1,553 |
| Birth order |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 97.1 | 98.0 | 95.8 | 92.0 | 89.9 | 96.5 | 94.7 | 79.8 | 89.5 | 97.2 | 96.2 | 93.4 | 96.6 | 94.7 | 94.1 | 85.1 | 61.2 | 1.6 | 1,000 | 72.2 | 39.9 | 1,028 |
| 2-3 | 97.6 | 97.4 | 94.3 | 89.0 | 88.9 | 97.2 | 94.6 | 79.1 | 88.2 | 96.7 | 95.8 | 91.2 | 96.7 | 92.3 | 91.2 | 81.9 | 56.8 | 1.9 | 1,320 | 70.4 | 39.5 | 1,320 |
| 4-5 | 97.0 | 96.9 | 92.8 | 88.9 | 82.9 | 96.9 | 95.1 | 77.9 | 86.4 | 96.4 | 95.3 | 91.2 | 95.1 | 90.2 | 83.9 | 75.8 | 51.0 | 2.0 | 642 | 60.8 | 36.2 | 553 |
| 6+ | 93.5 | 93.9 | 89.4 | 82.5 | 71.1 | 93.0 | 89.5 | 70.8 | 80.3 | 93.9 | 92.2 | 84.8 | 93.1 | 89.1 | 76.2 | 67.0 | 40.3 | 4.9 | 361 | 46.0 | 24.4 | 329 |
| Vaccination card ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seen | 99.2 | 99.4 | 98.6 | 96.0 | 88.3 | 99.5 | 98.8 | 95.6 | 86.9 | 98.7 | 97.9 | 95.0 | 98.8 | 95.5 | 90.9 | 87.4 | 69.1 | 0.0 | 2,512 | 68.8 | 51.5 | 1,984 |
| Not seen or no longer has card | 94.6 | 94.3 | 83.6 | 72.0 | 84.2 | 90.8 | 83.8 | 25.9 | 93.7 | 94.2 | 92.3 | 83.7 | 91.5 | 86.6 | 88.1 | 60.9 | 13.4 | 4.3 | 749 | 66.3 | 16.2 | 1,177 |
| Never had card | 33.9 | 37.6 | 29.5 | 23.3 | 19.0 | 40.4 | 33.4 | 5.5 | 31.0 | 36.4 | 32.4 | 28.7 | 35.8 | 30.8 | 26.3 | 17.4 | 0.2 | 59.6 | 63 | 18.4 | 0.0 | 69 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 97.1 | 97.3 | 93.2 | 87.9 | 92.0 | 95.9 | 93.5 | 74.5 | 89.0 | 96.4 | 95.9 | 92.0 | 96.2 | 93.7 | 90.9 | 79.6 | 55.7 | 2.2 | 1,223 | 71.1 | 37.6 | 1,254 |
| Rural | 96.8 | 97.0 | 94.4 | 89.9 | 82.7 | 96.8 | 94.6 | 80.4 | 86.4 | 96.5 | 95.2 | 90.7 | 95.9 | 91.5 | 87.9 | 80.3 | 55.0 | 2.1 | 2,101 | 64.1 | 37.5 | 1,976 |
| Mother's education ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 88.5 | 88.3 | 80.7 | 73.0 | 54.4 | 87.4 | 81.8 | 57.8 | 75.3 | 88.5 | 84.7 | 77.9 | 87.1 | 78.9 | 64.0 | 53.6 | 22.7 | 9.6 | 331 | 33.4 | 14.7 | 340 |
| Primary | 98.3 | 98.2 | 95.1 | 90.6 | 87.5 | 98.2 | 96.0 | 80.6 | 88.9 | 97.2 | 96.5 | 92.2 | 97.1 | 94.0 | 89.4 | 80.8 | 55.9 | 0.8 | 1,235 | 63.0 | 34.1 | 1,188 |
| Secondary | 97.0 | 97.8 | 95.2 | 90.6 | 89.9 | 96.4 | 94.7 | 79.6 | 88.8 | 97.5 | 96.5 | 91.6 | 96.8 | 93.2 | 94.1 | 83.8 | 60.6 | 1.8 | 1,148 | 72.6 | 42.6 | 1,014 |
| More than secondary | 98.6 | 98.5 | 96.4 | 92.6 | 93.6 | 98.1 | 96.4 | 81.0 | 88.4 | 97.6 | 97.4 | 95.8 | 97.0 | 94.7 | 93.0 | 86.8 | 61.7 | 1.4 | 565 | 81.7 | 47.1 | 652 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 94.9 | 95.4 | 90.9 | 85.1 | 69.3 | 94.8 | 91.1 | 76.5 | 82.6 | 95.0 | 92.2 | 86.8 | 93.7 | 87.7 | 79.6 | 71.1 | 42.3 | 3.5 | 767 | 50.1 | 25.3 | 713 |
| Second | 97.3 | 97.6 | 96.2 | 92.3 | 90.1 | 97.5 | 96.2 | 81.3 | 86.8 | 97.2 | 96.7 | 93.1 | 96.9 | 94.0 | 90.5 | 82.6 | 59.6 | 1.2 | 620 | 66.5 | 40.1 | 556 |
| Middle | 96.8 | 96.9 | 94.2 | 88.8 | 87.9 | 96.3 | 93.4 | 79.9 | 89.6 | 95.7 | 95.1 | 90.1 | 95.3 | 91.3 | 91.5 | 82.5 | 58.4 | 2.6 | 572 | 68.4 | 40.5 | 547 |
| Fourth | 97.7 | 97.6 | 93.9 | 90.0 | 92.4 | 96.9 | 94.9 | 77.0 | 88.2 | 97.1 | 96.1 | 92.1 | 97.5 | 93.8 | 92.4 | 82.7 | 59.3 | 1.8 | 646 | 71.1 | 40.5 | 653 |
| Highest | 98.0 | 98.2 | 95.0 | 90.4 | 93.4 | 97.0 | 95.8 | 77.1 | 90.4 | 97.5 | 97.4 | 94.3 | 96.7 | 95.0 | 92.7 | 83.1 | 59.1 | 1.4 | 719 | 78.0 | 42.5 | 760 |
| Total | 96.9 | 97.1 | 93.9 | 89.2 | 86.1 | 96.5 | 94.2 | 78.2 | 87.4 | 96.5 | 95.4 | 91.2 | 96.0 | 92.3 | 89.0 | 80.1 | 55.2 | 2.1 | 3,324 | 66.8 | 37.5 | 3,230 |

 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. BCG = Bacillus Calmette-Guerin
DPT = Diphtheria-pertussis-tetanus
HepB $=$ Hepatitis B
Hib $=$ Haemophilus influenzae type $b$
$\mathrm{PV}=$ Inactivated polio vaccine
OPV 0 is the polio vaccination given at birth.
${ }^{3}$ BCG, three doses of DPT-HepB-Hib, four doses of OPV, one dose of IPV, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of MR ${ }^{4}$ BCG, three doses of DPT-HepB-Hib, four doses of OPV, one dose of IPV, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and two doses of MR ${ }^{5}$ Mother and child health handbook or other home-based record
${ }^{6}$ No education includes informal education (Madrassa/Duksi/adul








Table 11C-Continued

| County | BCG | Children age 12-23 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Children age 24-35 months |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DPT-HepB-Hib |  |  | OPV ${ }^{1}$ |  |  |  | IPV | Pneumococcal |  |  | Rotavirus |  | MR 1 | Fully vaccinated (basic antigens) ${ }^{2}$ | Fully vaccinated (according to national schedule) ${ }^{3}$ | No vaccinations | Number of children | MR 2 | Fully vaccinated (according to national schedule) ${ }^{4}$ | Number of children |
|  |  | 1 | 2 | 3 | 0 | 1 | 2 | 3 |  | 1 | 2 | 3 | 1 | 2 |  |  |  |  |  |  |  |  |
| Kisii | 99.1 | 99.1 | 95.7 | 95.7 | 98.5 | 99.1 | 95.6 | 88.5 | 93.6 | 97.6 | 95.5 | 95.5 | 97.6 | 95.5 | 94.6 | 89.7 | 81.6 | 0.9 | 71 | 79.9 | 50.9 | 62 |
| Nyamira | (100.0) | (100.0) | (96.0) | (95.5) | (94.8) | (97.4) | (94.8) | (88.8) | (79.0) | (97.0) | (97.0) | (93.9) | (96.6) | (96.6) | (92.5) | (82.7) | (55.8) | (0.0) | 24 | (75.3) | (48.5) | 21 |
| Nairobi City | 96.8 | 97.4 | 93.4 | 87.7 | 93.4 | 95.3 | 95.3 | 67.8 | 84.4 | 96.4 | 96.4 | 93.2 | 96.4 | 95.8 | 89.4 | 77.2 | 45.8 | 2.6 | 409 | 73.6 | 30.5 | 372 |
| Total | 96.9 | 97.1 | 93.9 | 89.2 | 86.1 | 96.5 | 94.2 | 78.2 | 87.4 | 96.5 | 95.4 | 91.2 | 96.0 | 92.3 | 89.0 | 80.1 | 55.2 | 2.1 | 3,324 | 66.8 | 37.5 | 3,230 |

 BCG = Bacillus Calmette-Guérin
$\mathrm{BCG}=$ Bacillus Calmette-Guerin
DPT $=$ Diphtheria-pertussis-tetanus
HepB $=$ Hepatitis B
Hib $=$ Haemophilus influenzae type $b$
OPV = Oral polio vaccine
IPV = Inactivated polio vaccine
OPV 0 is the polio vaccination given at birth.
${ }^{3}$ BCG, three doses of DPT-HepB-Hib, four doses of OPV, one dose of IPV, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and one dose of MR
${ }^{4}$ BCG, three doses of DPT-HepB-Hib, four doses of OPV, one dose of IPV, three doses of pneumococcal vaccine, two doses of rotavirus vaccine, and two doses of MR

### 3.11 Care Seeking and Treatment of Child Illness

Acute respiratory infection (ARI), fever, and dehydration from diarrhea are important contributing causes of childhood morbidity and mortality in developing countries (WHO 2003). Prompt medical attention when a child has the symptoms of these illnesses is, therefore, crucial in reducing child deaths.

During the 2 weeks before the survey, $2 \%$ of children under age 5 showed symptoms of an ARI, $17 \%$ exhibited fever, and $14 \%$ experienced diarrhea. Children with ARI symptoms were most often taken to a health facility or provider for advice or treatment $(82 \%)$. Advice or treatment was sought less often for children with fever (70\%) or diarrhea (57\%)
(Figure 5).

## Figure 5 Symptoms of childhood illness

 and care seeking| Percentage of | Among those with |
| :---: | :---: |
| children under age 5 | symptoms of illness, |
| with symptoms in the | percentage for whom |
| 2 weeks before the | advice or treatment |
| survey | was sought |

- Forty-eight percent of children with diarrhea received oral rehydration salts (ORS), $40 \%$ received zinc supplements, $32 \%$ received ORS and zinc supplements, and $26 \%$ were given ORS, zinc supplements, and continued feeding (Table 12 and Table 12C).
- The percentage of children with ARI symptoms for whom advice or treatment was sought is higher in urban $(90 \%)$ than rural $(78 \%)$ areas. In contrast, differences by residence in care seeking for children with fever or diarrhea are minor (1-2 percentage points).

Table 12 Treatment for acute respiratory infection symptoms, fever, and diarrhea
Among children under age 5 who had symptoms of acute respiratory infection (ARI) or had a fever during the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, and among children under age 5 who had diarrhea during the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, percentage given a fluid made from oral rehydration salt (ORS) packets or given prepackaged ORS fluid, percentage given zinc, percentage given ORS and zinc, and percentage given ORS, zinc, and continued feeding, according to background characteristics, Kenya DHS 2022

| Background characteristic | Children with symptoms of $\mathrm{ARI}^{1}$ |  | Children with fever |  | Children with diarrhea |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage for whom advice or treatment was sought ${ }^{2}$ | Number of children | Percentage for whom advice or treatment was sought ${ }^{2}$ | Number of children | Percentage for whom advice or treatment was sought ${ }^{2}$ | Percentage given fluid from ORS packet or prepackaged ORS fluid | Percentage given zinc | Percentage given ORS and zinc | Percentage given ORS, zinc, and continued feeding ${ }^{3}$ | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |
| <6 | (75.1) | 24 | 53.4 | 228 | 36.8 | 25.2 | 21.1 | 12.9 | 8.7 | 245 |
| 6-11 | (84.0) | 39 | 73.5 | 434 | 53.9 | 46.8 | 38.0 | 31.0 | 22.6 | 422 |
| 12-23 | 87.0 | 65 | 69.9 | 705 | 61.4 | 56.0 | 48.4 | 39.8 | 32.1 | 776 |
| 24-35 | 88.2 | 56 | 67.5 | 513 | 59.7 | 52.9 | 38.4 | 30.8 | 26.9 | 429 |
| 36-47 | 81.8 | 61 | 71.6 | 582 | 60.0 | 46.4 | 37.6 | 30.7 | 25.2 | 341 |
| 48-59 | 72.5 | 49 | 72.6 | 427 | 57.6 | 43.1 | 36.6 | 27.4 | 24.3 | 204 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Male | 84.7 | 161 | 70.2 | 1,478 | 56.2 | 48.8 | 38.7 | 31.1 | 24.6 | 1,272 |
| Female | 79.4 | 132 | 68.7 | 1,412 | 57.5 | 47.7 | 40.4 | 32.2 | 26.5 | 1,145 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 89.5 | 109 | 68.9 | 1,071 | 57.9 | 46.6 | 42.5 | 31.0 | 26.3 | 934 |
| Rural | 78.1 | 184 | 69.8 | 1,818 | 56.1 | 49.4 | 37.7 | 32.0 | 25.0 | 1,482 |
| Mother's education ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 69.3 | 34 | 56.8 | 255 | 59.2 | 52.5 | 44.0 | 37.8 | 29.4 | 233 |
| Primary | 80.7 | 135 | 67.5 | 1,147 | 54.8 | 49.6 | 35.2 | 31.1 | 23.8 | 969 |
| Secondary | 83.1 | 80 | 73.2 | 990 | 54.3 | 44.8 | 39.8 | 30.1 | 25.1 | 848 |
| More than secondary | (95.2) | 40 | 71.9 | 464 | 67.2 | 51.2 | 48.4 | 33.3 | 29.4 | 339 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 78.5 | 96 | 64.2 | 643 | 59.7 | 54.1 | 45.2 | 40.5 | 25.1 | 577 |
| Second | 73.0 | 63 | 69.5 | 535 | 53.1 | 44.7 | 30.6 | 24.5 | 12.6 | 427 |
| Middle | 82.6 | 40 | 74.2 | 509 | 53.6 | 47.7 | 34.9 | 29.5 | 18.3 | 425 |
| Fourth | 88.6 | 48 | 70.2 | 636 | 55.1 | 49.1 | 41.6 | 32.5 | 19.9 | 510 |
| Highest | (96.3) | 46 | 70.4 | 566 | 61.1 | 44.1 | 42.6 | 28.2 | 22.4 | 478 |
| Total | 82.3 | 293 | 69.5 | 2,890 | 56.8 | 48.3 | 39.5 | 31.6 | 25.5 | 2,416 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. Figures in parentheses are based on 25-49 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, nongovernmental organization (NGO) medical sector, faith-based sector/organization (FBO) medical sector, shop, market, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.
${ }^{3}$ Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhea episode.
${ }^{4}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 12C Treatment for acute respiratory infection symptoms, fever, and diarrhea by county
Among children under age 5 who had symptoms of acute respiratory infection (ARI) or had a fever during the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, and among children under age 5 who had diarrhea during the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, percentage given a fluid made from oral rehydration salt (ORS) packets or given prepackaged ORS fluid, percentage given zinc, percentage given ORS and zinc, and percentage given ORS, zinc, and continued feeding, according to county, Kenya DHS 2022

| County | Children with symptoms of ARI ${ }^{1}$ |  | Children with fever |  | Children with diarrhea |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage for whom advice or treatment was sought ${ }^{2}$ | Number of children | Percentage for whom advice or treatment was sought $^{2}$ | Number of children | Percentage for whom advice or treatment was sought $^{2}$ | Percentage given fluid from ORS packet or prepackaged ORS fluid | Percentage given zinc | Percentage given ORS and zinc | Percentage given ORS, zinc, and continued feeding ${ }^{3}$ | Number of children |
| Mombasa | * | 4 | 41.7 | 88 | 53.5 | 47.1 | 40.2 | 31.2 | 23.7 | 76 |
| Kwale | * | 0 | * | 17 | * | * |  |  |  | 10 |
| Kilifi | * | 28 | 61.0 | 81 | 60.4 | 59.9 | 51.2 | 49.8 | 29.5 | 100 |
| Tana River | * | 5 | 54.0 | 24 | 60.2 | 54.1 | 53.8 | 48.4 | 24.2 | 22 |
| Lamu | (65.0) | 3 | 78.6 | 18 | 75.7 | 61.2 | 51.9 | 43.0 | 24.3 | 16 |
| Taita Taveta | * | 2 | (57.6) | 13 | * | * | * | * | * | 11 |
| Garissa | * | 3 | (55.0) | 15 | (72.5) | (63.3) | (69.9) | (61.3) | (21.3) | 15 |
| Wajir | * | 4 | 56.9 | 34 | 57.7 | 46.1 | 30.7 | 26.6 | 10.6 | 39 |
| Mandera | * | 5 | 37.5 | 32 | (66.2) | (58.5) | (42.2) | (38.4) | (26.9) | 13 |
| Marsabit | * | 1 | (46.1) | 9 | (71.2) | (63.5) | (60.2) | (57.6) | (32.7) | 9 |
| Isiolo | * | 2 | 59.9 | 16 | 81.2 | 76.7 | 69.9 | 68.7 | 35.7 | 18 |
| Meru | * | 20 | 66.5 | 98 | (47.5) | (36.7) | (32.3) | (23.8) | (6.3) | 74 |
| Tharaka-Nithi | * | 5 | 74.4 | 39 | (52.1) | (39.4) | (36.4) | (28.4) | (10.3) | 21 |
| Embu | * | 1 | (79.5) | 19 | (90.6) | (85.2) | (74.2) | (74.2) | (61.8) | 14 |
| Kitui | * | 8 | (54.4) | 33 | (62.1) | (63.1) | (47.1) | (42.8) | (20.5) | 29 |
| Machakos | * | 2 | (78.0) | 63 | (40.8) | (45.3) | (30.7) | (25.5) | (18.3) | 58 |
| Makueni | * | 0 |  | 12 |  |  |  |  |  | 11 |
| Nyandarua | * | 3 | (73.3) | 18 | * | * | * | * | * | 12 |
| Nyeri | * | 2 | (97.6) | 34 | (88.6) | (73.1) | (58.2) | (52.8) | (25.3) | 27 |
| Kirinyaga | * | 1 | * | 11 | (52.5) | (53.3) | (38.9) | (33.1) | (18.2) | 24 |
| Murang'a | * | 5 | (71.3) | 51 | (53.2) | (39.3) | (24.0) | (20.8) | (16.3) | 34 |
| Kiambu | * | 27 | 68.0 | 181 | 30.5 | 34.6 | 25.9 | 18.0 | 15.0 | 182 |
| Turkana | * | 9 | 76.2 | 69 | 68.2 | 64.6 | 70.6 | 61.3 | 50.6 | 53 |
| West Pokot | * | 5 | 72.0 | 34 | 77.7 | 47.1 | 45.3 | 30.9 | 4.5 | 32 |
| Samburu | * | 1 | 51.0 | 20 | 45.8 | 32.3 | 34.6 | 26.9 | 12.1 | 23 |
| Trans Nzoia | * | 4 | 74.0 | 62 | 63.1 | 43.7 | 49.6 | 38.3 | 27.4 | 59 |
| Uasin Gishu | * | 7 | 77.9 | 121 | 69.7 | 61.0 | 49.3 | 45.6 | 31.1 | 85 |
| Elgeyo Marakwet | * | 0 | (64.6) | 14 | (69.5) | (71.5) | (58.3) | (51.4) | (2.4) | 16 |
| Nandi | * | 6 | 72.5 | 38 | (61.6) | (53.0) | (30.0) | (23.4) | (15.9) | 28 |
| Baringo | * | 3 | 85.3 | 42 | 77.2 | 61.3 | 52.3 | 44.1 | 26.5 | 31 |
| Laikipia | * | 1 | (77.9) | 14 | (50.3) | (45.2) | (44.0) | (31.1) | (19.4) | 19 |
| Nakuru | * | 13 | 66.2 | 167 | 51.6 | 42.5 | 39.4 | 32.1 | 17.1 | 122 |
| Narok | * | 9 | 58.0 | 60 | 59.1 | 56.3 | 28.0 | 25.0 | 16.1 | 89 |
| Kajiado | * | 9 | 60.1 | 108 | 44.0 | 41.9 | 31.5 | 23.8 | 16.6 | 76 |
| Kericho | * | 3 | * | 17 | 54.5 | 58.5 | 22.9 | 21.2 | 5.4 | 52 |
| Bomet | * | 1 | 67.0 | 68 | 58.5 | 47.0 | 42.6 | 40.5 | 30.4 | 46 |
| Kakamega | * | 5 | 72.2 | 144 | 55.0 | 54.6 | 37.5 | 33.6 | 24.9 | 111 |
| Vihiga | * | 3 | 64.2 | 26 | 24.9 | 32.4 | 16.4 | 13.6 | 9.5 | 24 |
| Bungoma | * | 11 | 71.4 | 110 | 54.3 | 45.2 | 34.9 | 29.6 | 24.7 | 102 |
| Busia | * | 9 | 85.0 | 93 | 66.6 | 65.1 | 39.4 | 35.7 | 21.9 | 51 |
| Siaya | * | 2 | 84.1 | 41 | * | * |  | * | * | 16 |
| Kisumu | * | 2 | 66.3 | 80 | (56.6) | (49.3) | (24.1) | (15.6) | (0.0) | 44 |
| Homa Bay | * | 22 | 78.2 | 131 | 54.5 | 40.7 | 36.9 | 30.7 | 23.8 | 77 |
| Migori | * | 10 | 73.7 | 166 | 62.7 | 46.2 | 39.9 | 32.9 | 17.3 | 96 |
| Kisii | * | 3 | (69.2) | 42 | (58.9) | (29.0) | (31.5) | (12.1) | (3.2) | 36 |
| Nyamira | * | 2 | (67.2) | 20 | (50.0) | (53.2) | (34.9) | (29.2) | (0.0) | 13 |
| Nairobi City | * | 24 | 72.3 | 296 | 64.9 | 43.6 | 45.1 | 25.5 | 22.4 | 298 |
| Total | 82.3 | 293 | 69.5 | 2,890 | 56.8 | 48.3 | 39.5 | 31.6 | 25.5 | 2,416 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. 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.
${ }^{1}$ 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, nongovernmental organization (NGO) medical sector, faith-based sector/organization (FBO) medical sector, shop, market, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.
${ }^{3}$ Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhea episode.

### 3.12 Early Childhood Development

## Early Childhood Development Index

Children are considered to be developmentally on track if they have achieved the minimum number of milestones expected for their age group. Each of the three general domains is composed of a set of core subdomains:
Health subdomains: gross motor development, fine motor development, and self-care.
Learning subdomains: expressive language, literacy, numeracy, pre-writing, and executive functioning.
Psychosocial well-being subdomains: emotional skills, social skills, internalizing behavior, and externalizing behavior.

Early childhood development is a multidimensional process that involves an ordered progression of motor, cognitive, language, socioemotional, and regulatory skills and capacities across the first few years of life (UNICEF 2016). While these are distinct domains of early childhood development, they are interconnected. Nurturing and supporting all of these dimensions in a holistic manner is key to ensuring that children have the best chance to reach their full potential. Physical growth, literacy and numeracy skills, socioemotional development, and learning readiness set the trajectory for lifelong health, learning, and well-being (Shonkoff and Phillips 2000).

The Early Childhood Development Index 2030 (ECDI2030) module, which captures the achievement of key developmental milestones by children between age 24 months and age 59 months, was included in the 2022 KDHS. Mothers were asked 20 questions about their children age 24-59 months. These questions focused on the way children behave in certain everyday situations and the skills and knowledge they have acquired, reflecting the increasing difficulty of the skills children acquire as they grow. The 20 items are organized according to the three general domains of health, learning, and psychosocial well-being.

The ECDI2030 module is not designed to report on individual domains separately. Rather, it is meant to produce a single summary score that captures the interlinked developmental concepts embedded in the three domains mentioned in SDG 4.2.1.

In 2022, Kenya launched the Early Childhood Development Policy, which addresses the development, planning, implementation, and monitoring of integrated programs targeting children age $0-8$. The policy addresses sectors critical to the survival and thriving of young children such as health, nutrition, child protection, and early learning. Within the domain of health, the

| Table 13 Early Childhood Development Index 2030 |  |  |
| :---: | :---: | :---: |
| Percentage of children age 24-59 months who are developmentally on track in health, learning, and psychosocial well-being, Kenya DHS 2022 |  |  |
| Background characteristic | Percentage of children age 24-59 months who are developmentally on track in health, learning, and psychosocial well-being ${ }^{1}$ | Number of children age 24-59 months |
| Age in months |  |  |
| 24-35 | 82.8 | 1,537 |
| 36-47 | 77.4 | 1,693 |
| 48-59 | 73.8 | 1,566 |
| Sex |  |  |
| Male | 76.3 | 2,484 |
| Female | 79.7 | 2,313 |
| Residence |  |  |
| Urban | 87.4 | 1,717 |
| Rural | 72.7 | 3,080 |
| Early childhood education attendance |  |  |
| Attending | 85.1 | 1,259 |
| Not attending | 71.0 | 2,061 |
| Information not available | 81.6 | 1,477 |
| Mother's education ${ }^{2}$ |  |  |
| No education | 51.4 | 568 |
| Primary | 75.7 | 1,899 |
| Secondary | 84.7 | 1,468 |
| More than secondary | 91.0 | 813 |
| Wealth quintile |  |  |
| Lowest | 61.0 | 1,136 |
| Second | 74.2 | 898 |
| Middle | 79.8 | 801 |
| Fourth | 84.0 | 917 |
| Highest | 92.8 | 1,045 |
| Total | 77.9 | 4,797 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire.
${ }^{1}$ SDG Indicator 4.2.1
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.
policy stipulates that every child should be monitored for developmental milestones and that, where delays are detected, immediate appropriate interventions are implemented.

- Table 13 presents information on developmental growth among children age 24-59 months. Seventyeight percent of children are developmentally on track in health, learning, and psychosocial wellbeing.
- The percentage of children who are developmentally on track decreases with age; $83 \%$ of children age 24-35 months are developmentally on track, as compared with $74 \%$ of children age 48-59 months.
- A higher percentage of children in urban (87\%) than rural (73\%) areas are developmentally on track.
- The percentage of children developmentally on track increases with increasing mother's education, from $51 \%$ among children whose mothers have no education to $91 \%$ among those whose mothers have more than a secondary education.
- The percentage of children developmentally on track also increases with increasing household wealth, from $61 \%$ among those in the lowest wealth quintile to $93 \%$ among those in the highest quintile.


### 3.13 Child Nutritional Status

Anthropometry is commonly used to measure child nutritional status. Anthropometric measurements are used to report on child growth indicators. The distribution of height and weight among children under age 5 was compared with the WHO Child Growth Standards reference population (WHO 2006b). The distribution of a well-nourished population will be similar to the reference population, while the distribution of a poorly nourished population will not. 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. Values that are greater than two standard deviations below the median of the WHO Child Growth Standards are used to define malnutrition.

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

Height-for-age is a measure of growth faltering. Children whose height-for-age $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are considered short for their age (stunted). Children whose $z$ score is below minus three standard deviations (-3 SD) from the median are considered severely stunted.
Sample: Children under age 5

## Wasting (assessed via weight-for-height)

The weight-for-height index measures body mass in relation to body height or length and describes acute undernutrition. Children whose $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted). Children whose $z$ score is below minus three standard deviations ( -3 SD) from the median are considered severely wasted.

## Sample: Children under age 5

## Underweight (assessed via weight-for-age)

Weight-for-age is a composite index of height-for-age and weight-for-height that takes into account both wasting and stunting. Children whose weight-forage $z$ score is below minus two standard deviations (-2 SD) from the median of the reference population are classified as underweight. Children whose $z$ score is below minus three standard deviations ( -3 SD) from the median are considered severely underweight.
Sample: Children under age 5

## Overweight (assessed via weight-for-height)

Children whose weight-for-height $z$ score is more than two standard deviations (+2 SD) above the median of the reference population are considered overweight.
Sample: Children under age 5

Height and weight measurements were obtained for 20,319 children under age 5 (unweighted). The percentages of children with valid data for height-for-age, weight-for-height, and weight-for-age were $96 \%, 97 \%$, and $97 \%$ respectively (data not shown).

The results displayed in Table 14 show that $18 \%$ of children under age 5 are stunted, or too short for their age. This is a sign of chronic undernutrition. Five percent of children under age 5 are wasted (too thin for their height), which is a sign of acute undernutrition, while $3 \%$ of children under age 5 are overweight, which is a sign of overnutrition. Ten percent of children are underweight, or too thin for their age.

Trends: The prevalence of stunting has decreased markedly since 1993, with the greatest decrease between 2008-09 (35\%) and 2022 (18\%). Over this same time period, changes in the prevalence of wasting and overweight have been small,
although the prevalence of each is at its lowest point since 1993

## (Figure 6).

- Stunting is higher among children in rural areas ( $20 \%$ ) than children in urban areas (12\%).
- Stunting decreases with increasing wealth, from $28 \%$ in the lowest quintile to $9 \%$ in the highest quintile.

Figure 6 Percentage of children under age 5 who are malnourished


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions

- Twenty-two percent of children born to mothers with no education are stunted, as compared with $9 \%$ of children born to mothers with more than a secondary education.
- There are wide variations in stunting across counties. The highest percentages are in Kilifi, West Pokot, and Samburu ( $37 \%, 34 \%$, and $31 \%$, respectively) and the lowest in Kisumu and Garissa ( $9 \%$ each) (Map 3 and Table 14C).


## Map 3 Stunting in children by county

Percentage of children under age 5 who are stunted


Table 14 Nutritional status of children
Percentage of children under age 5 classified as malnourished according to three anthropometric indices of child growth: height-for-age, weight-for-height, and weight-for-age, according to background characteristics, Kenya DHS 2022

|  | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Background characteristic | $\begin{aligned} & \text { Percent- } \\ & \text { age } \\ & \text { below } \\ & -3 \text { SD } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Percent- } \\ & \text { age } \\ & \text { below } \\ & -2 \mathrm{SD}^{2} \end{aligned}$ | $\begin{gathered} \text { Mean } \\ z \text { score } \\ \text { (SD) } \\ \hline \end{gathered}$ | Number of children | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { below } \\ -3 \text { SD } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { below } \\ -2 \mathrm{SD}^{2} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Percent- } \\ & \text { age } \\ & \text { above } \\ & +2 \text { SD } \\ & \hline \end{aligned}$ | Mean z score (SD) | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { children } \end{aligned}$ | ```Percent-``` | $\begin{gathered} \text { Percent- } \\ \text { age } \\ \text { below } \\ -2 \mathrm{SD}^{2} \\ \hline \end{gathered}$ | Mean z score (SD) | Number of children |
| Age in months |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <6 | 3.3 | 12.0 | -0.5 | 1,649 | 0.8 | 3.6 | 11.9 | 0.5 | 1,652 | 1.5 | 5.5 | -0.1 | 1,662 |
| 6-11 | 3.2 | 12.7 | -0.6 | 1,842 | 0.6 | 4.7 | 5.1 | 0.1 | 1,841 | 1.6 | 9.0 | -0.3 | 1,842 |
| 12-23 | 5.4 | 22.5 | -1.1 | 3,396 | 0.7 | 4.4 | 3.0 | -0.1 | 3,399 | 2.0 | 9.9 | -0.6 | 3,402 |
| 24-35 | 5.3 | 22.8 | -1.1 | 3,288 | 0.4 | 4.2 | 1.9 | -0.2 | 3,315 | 1.6 | 11.0 | -0.7 | 3,307 |
| 36-47 | 4.4 | 18.7 | -0.9 | 3,581 | 0.6 | 5.2 | 1.4 | -0.3 | 3,622 | 1.9 | 11.9 | -0.8 | 3,584 |
| 48-59 | 2.8 | 11.9 | -0.7 | 3,376 | 0.7 | 6.4 | 1.3 | -0.5 | 3,409 | 1.8 | 10.7 | -0.8 | 3,382 |
| 0-23 | 4.3 | 17.4 | -0.8 | 6,887 | 0.7 | 4.3 | 5.7 | 0.1 | 6,892 | 1.8 | 8.6 | -0.4 | 6,907 |
| 24-59 | 4.2 | 17.8 | -0.9 | 10,245 | 0.6 | 5.2 | 1.6 | -0.3 | 10,346 | 1.8 | 11.2 | -0.7 | 10,273 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.1 | 19.6 | -1.0 | 8,679 | 0.6 | 5.4 | 2.9 | -0.2 | 8,742 | 2.0 | 11.1 | -0.7 | 8,692 |
| Female | 3.3 | 15.6 | -0.8 | 8,453 | 0.6 | 4.3 | 3.6 | -0.1 | 8,496 | 1.6 | 9.2 | -0.5 | 8,488 |
| Mother's interview status |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Interviewed | 4.0 | 17.4 | -0.9 | 15,028 | 0.6 | 4.9 | 3.4 | -0.1 | 15,028 | 1.7 | 10.1 | -0.6 | 15,060 |
| Not interviewed but in household | 7.1 | 19.4 | -0.8 | 521 | 1.0 | 4.7 | 2.3 | -0.3 | 541 | 2.3 | 11.4 | -0.6 | 522 |
| Not interviewed, not in household ${ }^{3}$ | 5.5 | 18.9 | -0.9 | 1,583 | 0.7 | 4.3 | 1.5 | -0.2 | 1,669 | 1.9 | 10.2 | -0.6 | 1,598 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.7 | 12.1 | -0.6 | 5,679 | 0.7 | 4.0 | 4.0 | -0.0 | 5,714 | 1.2 | 6.7 | -0.3 | 5,701 |
| Rural | 4.9 | 20.3 | -1.0 | 11,453 | 0.6 | 5.3 | 2.8 | -0.2 | 11,524 | 2.1 | 11.9 | -0.7 | 11,478 |
| Mother's education ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 6.9 | 22.2 | -1.0 | 1,695 | 2.0 | 15.4 | 0.7 | -0.9 | 1,710 | 5.3 | 22.1 | -1.2 | 1,703 |
| Primary | 5.2 | 22.1 | -1.1 | 5,898 | 0.6 | 4.3 | 3.5 | -0.2 | 5,909 | 2.0 | 11.9 | -0.7 | 5,912 |
| Secondary | 3.1 | 14.8 | -0.8 | 5,037 | 0.3 | 3.1 | 4.0 | -0.0 | 5,037 | 0.9 | 6.8 | -0.4 | 5,048 |
| More than secondary | 1.6 | 8.6 | -0.4 | 2,716 | 0.4 | 3.2 | 3.7 | 0.0 | 2,712 | 0.8 | 5.0 | -0.2 | 2,716 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 7.6 | 27.6 | -1.3 | 4,039 | 1.3 | 9.5 | 1.9 | -0.5 | 4,064 | 4.4 | 19.3 | -1.1 | 4,052 |
| Second | 5.2 | 21.5 | -1.1 | 3,343 | 0.2 | 3.0 | 2.6 | -0.1 | 3,377 | 1.1 | 10.0 | -0.7 | 3,353 |
| Middle | 3.7 | 16.2 | -0.9 | 3,143 | 0.5 | 4.2 | 3.9 | -0.1 | 3,159 | 1.2 | 8.9 | -0.6 | 3,149 |
| Fourth | 2.0 | 11.6 | -0.7 | 3,315 | 0.4 | 3.8 | 3.3 | -0.1 | 3,326 | 0.8 | 6.3 | -0.4 | 3,325 |
| Highest | 1.7 | 8.7 | -0.4 | 3,292 | 0.6 | 2.7 | 4.7 | 0.1 | 3,311 | 0.6 | 4.2 | -0.2 | 3,301 |
| Total | 4.2 | 17.6 | -0.9 | 17,132 | 0.6 | 4.9 | 3.2 | -0.2 | 17,238 | 1.8 | 10.1 | -0.6 | 17,180 |

Note: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards. The total includes seven children for whom information on mother's education is missing.
Recumbent length is measured for children under age 2; standing height is measured for all other children
${ }^{2}$ Includes children who are below -3 SD from the WHO Child Growth Standards population median
${ }^{3}$ Includes children whose mothers are deceased
${ }^{4}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended. 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 14C Nutritional status of children by county
Percentage of children under age 5 classified as malnourished according to three anthropometric indices of child growth: height-for-age, weight-for-height, and weight-for-age, according to county, Kenya DHS 2022

|  | Height-for-age ${ }^{1}$ |  |  |  | Weight-for-height |  |  |  |  | Weight-for-age |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | $\begin{gathered} \text { Mean } \\ z \text { score } \\ \text { (SD) } \end{gathered}$ | Number of children | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | Percentage above +2 SD | $\begin{gathered} \text { Mean } \\ z \text { score } \\ \text { (SD) } \end{gathered}$ | Number of children | Percentage below -3 SD | Percentage below -2 SD $^{2}$ | $\begin{gathered} \text { Mean } \\ z \text { score } \\ \text { (SD) } \\ \hline \end{gathered}$ | Number of children |
| Mombasa | 3.5 | 13.5 | -0.7 | 419 | 0.2 | 4.6 | 3.1 | -0.3 | 418 | 1.5 | 9.8 | -0.6 | 423 |
| Kwale | 6.9 | 22.7 | -1.2 | 315 | 1.1 | 6.2 | 2.3 | -0.4 | 321 | 2.8 | 13.7 | -0.9 | 316 |
| Kilifi | 13.4 | 37.0 | -1.5 | 521 | 0.9 | 7.2 | 4.8 | -0.3 | 519 | 3.1 | 19.5 | -1.1 | 526 |
| Tana River | 5.6 | 21.1 | -1.0 | 144 | 1.3 | 11.3 | 2.6 | -0.6 | 144 | 2.6 | 16.8 | -1.0 | 144 |
| Lamu | 2.5 | 16.1 | -1.0 | 62 | 0.4 | 3.5 | 1.2 | -0.3 | 63 | 1.0 | 12.5 | -0.8 | 62 |
| Taita Taveta | 4.9 | 19.2 | -0.9 | 124 | 0.0 | 4.1 | 3.2 | -0.2 | 123 | 2.1 | 12.6 | -0.7 | 124 |
| Garissa | 0.6 | 9.0 | -0.4 | 222 | 2.6 | 15.3 | 0.4 | -0.9 | 224 | 1.2 | 14.1 | -0.8 | 222 |
| Wajir | 3.2 | 12.4 | -0.3 | 135 | 3.6 | 22.8 | 0.0 | -1.2 | 136 | 4.3 | 16.2 | -1.0 | 135 |
| Mandera | 6.3 | 20.5 | -0.9 | 240 | 2.9 | 17.3 | 0.4 | -1.1 | 238 | 5.4 | 23.2 | -1.2 | 241 |
| Marsabit | 4.9 | 18.9 | -0.8 | 133 | 3.8 | 20.4 | 0.3 | -1.1 | 134 | 6.2 | 25.9 | -1.2 | 134 |
| Isiolo | 4.3 | 14.1 | -0.6 | 95 | 1.1 | 7.2 | 1.0 | -0.7 | 95 | 2.4 | 11.5 | -0.8 | 96 |
| Meru | 4.6 | 25.2 | -1.1 | 499 | 0.0 | 6.0 | 4.2 | -0.1 | 505 | 1.0 | 10.8 | -0.7 | 499 |
| Tharaka-Nithi | 3.4 | 20.5 | -1.0 | 136 | 0.0 | 3.1 | 3.2 | -0.1 | 136 | 2.2 | 7.7 | -0.6 | 136 |
| Embu | 5.3 | 19.9 | -0.9 | 170 | 1.6 | 5.3 | 3.4 | -0.2 | 169 | 2.6 | 11.3 | -0.6 | 171 |
| Kitui | 8.8 | 25.1 | -1.2 | 382 | 1.1 | 4.9 | 4.0 | -0.4 | 383 | 2.6 | 13.9 | -0.9 | 383 |
| Machakos | 3.8 | 16.2 | -0.9 | 404 | 0.0 | 3.5 | 2.6 | -0.1 | 409 | 1.0 | 8.1 | -0.6 | 407 |
| Makueni | 4.2 | 19.8 | -1.1 | 306 | 0.0 | 4.0 | 3.2 | -0.2 | 312 | 1.2 | 8.7 | -0.7 | 306 |
| Nyandarua | 3.2 | 17.8 | -0.9 | 198 | 0.6 | 1.9 | 3.1 | 0.2 | 198 | 1.4 | 4.0 | -0.4 | 199 |
| Nyeri | 2.2 | 12.5 | -0.7 | 231 | 0.0 | 2.7 | 5.5 | 0.2 | 231 | 0.5 | 4.0 | -0.2 | 232 |
| Kirinyaga | 1.9 | 11.2 | -0.8 | 200 | 0.0 | 2.2 | 2.8 | -0.0 | 200 | 0.0 | 5.7 | -0.4 | 200 |
| Murang'a | 1.1 | 10.1 | -0.7 | 326 | 0.0 | 1.7 | 2.5 | -0.1 | 326 | 0.4 | 5.9 | -0.5 | 326 |
| Kiambu | 3.8 | 15.3 | -0.8 | 916 | 1.0 | 3.2 | 3.9 | 0.1 | 929 | 2.1 | 6.0 | -0.3 | 920 |
| Turkana | 7.3 | 23.0 | -1.1 | 305 | 3.5 | 22.6 | 1.0 | -1.2 | 306 | 8.8 | 31.7 | -1.5 | 306 |
| West Pokot | 10.4 | 33.5 | -1.5 | 420 | 0.9 | 11.0 | 0.8 | -0.8 | 423 | 6.0 | 27.1 | -1.4 | 420 |
| Samburu | 8.9 | 31.4 | -1.4 | 144 | 1.4 | 15.4 | 0.4 | -0.9 | 147 | 7.4 | 30.2 | -1.4 | 146 |
| Trans Nzoia | 4.8 | 21.3 | -1.0 | 366 | 0.0 | 3.2 | 1.5 | -0.2 | 368 | 0.5 | 11.1 | -0.6 | 366 |
| Uasin Gishu | 2.7 | 14.2 | -0.8 | 486 | 0.9 | 4.0 | 2.1 | -0.1 | 486 | 1.0 | 6.4 | -0.5 | 486 |
| Elgeyo Marakwet | 3.1 | 21.8 | -1.2 | 165 | 1.0 | 4.8 | 3.5 | -0.4 | 168 | 2.5 | 13.9 | -0.9 | 165 |
| Nandi | 2.6 | 15.1 | -0.8 | 313 | 0.3 | 4.0 | 2.6 | -0.2 | 314 | 0.9 | 9.0 | -0.6 | 313 |
| Baringo | 4.7 | 21.2 | -1.1 | 257 | 2.3 | 13.6 | 0.7 | -0.8 | 260 | 5.8 | 19.9 | -1.1 | 258 |
| Laikipia | 2.5 | 12.6 | -0.8 | 158 | 0.0 | 2.6 | 3.3 | -0.1 | 160 | 0.5 | 6.6 | -0.5 | 158 |
| Nakuru | 5.3 | 18.5 | -0.9 | 913 | 0.9 | 3.0 | 3.9 | -0.1 | 915 | 2.1 | 9.2 | -0.6 | 913 |
| Narok | 3.5 | 21.5 | -1.2 | 553 | 0.2 | 2.1 | 3.1 | -0.1 | 556 | 1.0 | 10.7 | -0.7 | 554 |
| Kajiado | 4.5 | 14.0 | -0.5 | 506 | 1.3 | 7.6 | 2.7 | -0.2 | 514 | 1.3 | 9.6 | -0.4 | 509 |
| Kericho | 3.7 | 19.3 | -1.0 | 338 | 0.3 | 2.5 | 1.6 | -0.1 | 338 | 1.4 | 9.2 | -0.7 | 339 |
| Bomet | 4.5 | 22.1 | -1.1 | 341 | 0.2 | 3.3 | 4.5 | -0.0 | 343 | 1.3 | 9.8 | -0.6 | 341 |
| Kakamega | 2.1 | 11.5 | -0.7 | 698 | 0.0 | 1.5 | 4.5 | 0.1 | 707 | 0.8 | 6.4 | -0.3 | 702 |
| Vihiga | 4.2 | 16.6 | -1.0 | 176 | 0.0 | 2.4 | 3.5 | 0.1 | 178 | 0.8 | 9.2 | -0.4 | 176 |
| Bungoma | 4.0 | 19.0 | -1.0 | 665 | 0.0 | 2.3 | 1.6 | -0.0 | 663 | 1.2 | 9.6 | -0.5 | 665 |
| Busia | 3.1 | 15.0 | -0.7 | 385 | 0.0 | 2.8 | 3.1 | -0.0 | 386 | 0.7 | 6.3 | -0.4 | 387 |
| Siaya | 5.3 | 19.2 | -1.0 | 325 | 1.1 | 1.7 | 2.6 | 0.1 | 327 | 2.1 | 7.0 | -0.5 | 326 |
| Kisumu | 1.3 | 9.1 | -0.5 | 419 | 0.5 | 3.0 | 2.1 | -0.0 | 418 | 0.8 | 3.5 | -0.3 | 419 |
| Homa Bay | 2.3 | 12.5 | -0.7 | 408 | 0.0 | 1.8 | 5.2 | 0.1 | 407 | 1.0 | 6.1 | -0.3 | 408 |
| Migori | 2.5 | 14.8 | -0.9 | 450 | 0.0 | 2.4 | 2.2 | 0.0 | 449 | 0.3 | 5.0 | -0.4 | 450 |
| Kisii | 4.3 | 16.3 | -0.8 | 411 | 0.3 | 2.9 | 5.7 | 0.1 | 412 | 1.5 | 7.8 | -0.4 | 411 |
| Nyamira | 3.0 | 13.5 | -0.9 | 153 | 0.1 | 1.2 | 6.0 | 0.2 | 156 | 0.2 | 3.4 | -0.4 | 153 |
| Nairobi City | 2.0 | 11.1 | -0.6 | 1,600 | 0.0 | 2.5 | 5.6 | 0.1 | 1,623 | 0.4 | 5.3 | -0.2 | 1,606 |
| Total | 4.2 | 17.6 | -0.9 | 17,132 | 0.6 | 4.9 | 3.2 | -0.2 | 17,238 | 1.8 | 10.1 | -0.6 | 17,180 |

Note: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards.
${ }^{1}$ Recumbent length is measured for children under age 2; standing height is measured for all other children.
${ }^{2}$ Includes children who are below -3 SD from the WHO Child Growth Standards population median

### 3.14 Infant and Young Child Feeding

Optimal infant and young child feeding (IYCF) practices are critical to the health and survival of young children. Recommended IYCF practices include early initiation of breastfeeding (within the first hour of life), exclusively breastfeeding for the first 6 months of life, and feeding children a diet that meets a minimum diversity standard (WHO and UNICEF 2021).

### 3.14.1 Early Initiation of Breastfeeding and Exclusive Breastfeeding

Breastfeeding supports children's growth and development and also benefits the mother's health. Initiation of breastfeeding within the first hour of birth is important for both the mother and the child. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from
infections. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, especially through skin-to-skin contact, which facilitates the production of breast milk.

In the first 6 months, children should be exclusively breastfed, meaning that they should be given nothing but breast milk. Exclusive breastfeeding for 6 months lowers the risk of infections that can lead to diarrhea and respiratory illnesses and provides all of the nutrients and liquid an infant requires for optimal growth and development (WHO and UNICEF 2021).

## Early initiation of breastfeeding

Percentage of children age 0-23 months who were put to the breast within 1 hour of birth.
Sample: Children age 0-23 months

## Exclusive breastfeeding under 6 months

Percentage of children age 0-5 months who were fed exclusively with breast milk during the previous day.
Sample: Youngest children age 0-5 months living with their mother

- Sixty percent of children born in the last 2 years were put to the breast within 1 hour of birth.
- Sixty percent of children under age 6 months are exclusively breastfed.

Trends: Figure 7 shows that there has been a substantial increase in exclusive breastfeeding since 2003 (from $13 \%$ to $60 \%$ ) following a decline between 1989 and 2003. Exclusive breastfeeding is essentially unchanged between 2014 and 2022.

### 3.14.2 Bottle Feeding

Bottle feeding is not recommended for children under age 2. The nipple on a feeding bottle is susceptible to contamination and increases the risk of disease among children (WHO and UNICEF 2021).

## Bottle feeding

Percentage of children age 0-23 months who were fed from a bottle with a nipple during the previous day.
Sample: Children age 0-23 months

- Thirty-four percent of children below age 24 months were fed from a bottle with a nipple.


### 3.14.3 Minimum Dietary Diversity, Minimum Meal Frequency, Minimum Milk Feeding Frequency, and Minimum Acceptable Diet

Infants and young children should be fed a minimum acceptable diet, which means that they should be fed meals with appropriate frequency and a variety of foods to meet their energy and nutrient needs. The
minimum acceptable diet indicator is a combination of minimum dietary diversity and minimum meal frequency for breastfeeding children and the same combination in addition to minimum milk feeding frequency for nonbreastfed children.

Minimum dietary diversity is a proxy for adequate micronutrient density of foods. Consumption of food from at least five food groups out of eight food groups, means that the child has a higher likelihood of consuming at least one animal source of food and at least one fruit or vegetable in addition to a staple food such as grains, roots, or tubers. The five groups come from a list of eight food groups: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

Minimum meal frequency is a proxy for meeting energy requirements. Breastfed children age 6-8 months are considered to be consuming the 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 consuming the minimum meal frequency if they receive solid, semisolid, or soft foods at least three times a day. Nonbreastfed children age 6-23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods or milk feeds at least four times a day and if at least one of the feeds is a solid, semisolid, or soft food.

Minimum milk feeding frequency is a proxy for meeting the nutrient needs of nonbreastfed children. Milk and milk products are important sources of nutrients. Nonbreastfed children age 6-23 months are considered to be fed with a minimum milk feeding frequency if they receive at least two feeds of milk and/or milk products.

## Minimum dietary diversity

Percentage of children age 6-23 months who were fed a minimum of five out of eight defined food groups during the previous day. The eight food groups are as follows: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

## Minimum meal frequency

Percentage of children age 6-23 months who were fed solid, semisolid, or soft foods (including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day.

## Minimum milk feeding frequency

Percentage of nonbreastfed children age 6-23 months who were given at least two milk feeds during the previous day.

## Minimum acceptable diet

Percentage of children age 6-23 months who were fed a minimum acceptable diet during the previous day. This indicator is a composite of children fed with a minimum dietary diversity and a minimum meal frequency, with the additional requirement that nonbreastfed children be fed with a minimum milk feeding frequency.
Sample: Youngest children age 6-23 months living with their mother

- Thirty-seven percent of children age 6-23 months had an adequately diverse diet and had been given foods from the appropriate number of food groups, while $71 \%$ had been fed the minimum number of times appropriate for their age. Additionally, $52 \%$ of nonbreastfed children age 6-23 months were given at least two milk feeds.
- Only $31 \%$ of children age 6-23 months were fed a minimum acceptable diet.


### 3.14.4 Sweet Beverage Consumption and Unhealthy Food Consumption

Unhealthy infant and young child feeding practices should be avoided because they can promote unhealthy weight gain and replace nutritious foods that provide important nutrients for children. For infants and young children, the consumption of sweet foods and beverages increases the risk of dental caries and childhood obesity. The indicator definition below for unhealthy food consumption describes sentinel unhealthy foods-foods that are high in sugar, salt, or unhealthy fats-that are commonly consumed by infants and young children (WHO and UNICEF 2021).

## Sweet beverage consumption

Percentage of children age 6-23 months who were given a sweet beverage during the previous day.
Unhealthy food consumption
Percentage of children age 6-23 months who were fed sentinel unhealthy foods during the previous day.
Sample: Youngest children age 6-23 months living with their mother

- Forty-nine percent of children age 6-23 months were fed a sweet beverage the day preceding the survey (Table 15).
- Twenty-six percent of children were given unhealthy foods during the previous day.

Table 15 Infant and young child feeding (IYCF) indicators
Percentage of children fed according to various IYCF practices, Kenya DHS 2022

| Indicator | Indicator numerator and denominator | Value |
| :---: | :---: | :---: |
| Early initiation of breastfeeding ${ }^{1}$ | Percentage of children born in the last 2 years who were put to the breast within 1 hour of birth Number of children born in the last 2 years | $\begin{array}{r} 60.1 \\ 3,658 \end{array}$ |
| Exclusive breastfeeding under 6 months | Percentage of children age 0-5 months who were fed exclusively with breast milk during the previous day <br> Number of youngest children age 0-5 months living with their mother | 59.7 888 |
| Minimum dietary diversity | Percentage of children age 6-23 months who were given foods and beverages from at least five out of eight defined food groups during the previous day Number of youngest children age 6-23 months living with their mother | 36.9 2,501 |
| Minimum meal frequency | Percentage of children age 6-23 months who were given solid, semisolid, or soft foods (also including milk feeds for non-breastfed children) the minimum number of times or more during the previous day Number of youngest children age 6-23 months living with their mother | 71.2 2,501 |
| Minimum milk feeding frequency for non-breastfed children | Percentage of non-breastfed children age 6-23 months who were given at least two milk feeds during the previous day <br> Number of youngest children age 6-23 months living with their mother who were not breastfed | 52.0 517 |
| Minimum acceptable diet | Percentage of children age 6-23 months who were fed a minimum acceptable diet during the previous day <br> Number of youngest children age 6-23 months living with their mother | 30.8 2,501 |
| Sweet beverage consumption | Percentage of children age 6-23 months who were given a sweet beverage during the previous day <br> Number of youngest children age 6-23 months living with their mother | 49.1 2,501 |
| Unhealthy food consumption | Percentage of children age 6-23 months who were given unhealthy foods during the previous day <br> Number of youngest children age 6-23 months living with their mother | 26.4 2,501 |
| Bottle feeding | Percentage of children age 0-23 months who were fed from a bottle with a nipple during the previous day <br> Number of children age 0-23 months | 33.6 3,545 |

[^2]
### 3.15 EARLY Childhood 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.

Table 16 presents childhood mortality estimates for three successive 5-year periods prior to the 2022 KDHS. Rates were estimated directly from information collected as part of a retrospective pregnancy history in which female respondents listed all of the children to whom they have given birth along with each child's date of birth, survivorship status, and current age or age at death.

In the 5 -year period prior to the survey, the under- 5 mortality rate was 41 deaths per 1,000 live births, the infant mortality rate was 32 deaths per 1,000 live births, and the neonatal mortality rate was 21 deaths per 1,000 live births. Neonatal deaths account for $66 \%$ of infant deaths and $51 \%$ of under- 5 deaths.

| Table 16 Early childhood mortality rates |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Neonatal, postneonatal, infant, child, and under-5 |

Trends: Childhood mortality peaked in 2003 and has since declined steadily (Figure 8). For example, under-5 mortality declined from 115 deaths per 1,000 live births in 2003 to 41 deaths per 1,000 live births in the 5 years preceding the 2022 survey. During this same period, neonatal mortality declined from 33 deaths per 1,000 live births to 21 deaths per 1,000 births.

- Under-5 mortality does not differ by urban-rural residence (Table 17).
- Under-5 mortality rates are higher for males than females (45 deaths versus 38 deaths per 1,000 live births).

Figure 8 Trends in early childhood mortality rates


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions.

Table 17 Five-year early childhood mortality rates according to background characteristics
Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 5 -year period preceding the survey, according to background characteristics, Kenya DHS 2022

| Background <br> characteristic | Neonatal <br> mortality <br> $(\mathrm{NN})$ | Postneonatal <br> mortality <br> $(\mathrm{PNN})^{1}$ | Infant <br> mortality <br> $\left(1 \mathrm{q}_{0}\right)$ | Child <br> mortality <br> $\left(4 \mathrm{q}_{1}\right)$ | Under-5 <br> mortality <br> $\left(5 q_{0}\right)$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Child's sex | 24 | 12 | 35 |  |  |
| Male | 19 | 11 | 29 | 9 | 45 |
| Female |  |  | 9 | 38 |  |
| Residence | 21 | 12 | 33 | 8 | 41 |
| Urban | 11 | 32 | 9 | 41 |  |
| Rural | 22 | 11 | 32 | 9 | 41 |
| Total | 21 |  |  |  |  |

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

### 3.16 MALARIA

Malaria risk in Kenya is heterogeneous, and its epidemiology is influenced by altitude, rainfall patterns, and temperature. Therefore, malaria prevalence varies considerably by season and across geographic regions. Whereas the overall national prevalence of malaria among children age 6 months to age 14 is low ( $7 \%$ in 2020), the areas around Lake Victoria in western Kenya ( $19 \%$ prevalence in 2020) and, to a lesser extent, the coastal region ( $5 \%$ prevalence in 2020) have a higher burden of malaria than the rest of the country ( $2 \%$ or lower prevalence in 2020).

### 3.16.1 Ownership and Use of Insecticide-treated Nets

## Ownership of Insecticide-treated Nets

Insecticide-treated nets (ITNs) repel and kill mosquitoes, thus providing protection against mosquito bites and reducing the transmission of malaria parasites. High coverage of ITNs helps to decrease malaria risk at the individual level as well as the community level by reducing the vector population. The distribution and use of ITNs is one of the core interventions for preventing malaria infection in Kenya.

## Ownership of insecticide-treated nets

Households that have at least one insecticide-treated net (ITN). An ITN is a factory-treated net that does not require any further treatment.

## Sample: Households

## Full household ITN coverage

Percentage of households with at least one ITN for every two people.
Sample: Households (with at least one person who stayed in the household the night before the survey)

Table 18 and Table 18C present information on household ownership of ITNs.

- Fifty-four percent of households own at least one ITN.
- Thirty-seven percent of households had at least one ITN for every two people who stayed in the household the night preceding the survey.

Trends: ITN ownership has been fairly steady since 2008-09, with at least half of households owning one net (with the exception of 2020 , when $49 \%$ of households owned an ITN). The pattern of full ITN coverage has followed that of ITN ownership, peaking at $40 \%$ in 2015 (Figure 9).

- Household ownership of ITNs is higher in rural areas than urban areas ( $64 \%$ versus $41 \%$ ).
- The percentage of households with at least one ITN generally decreases with increasing wealth, from $68 \%$ in the second wealth quintile to $40 \%$ in the highest wealth quintile.
- By endemicity, the percentage of households with full ITN coverage is highest in the lake endemic and highland epidemic prone zones (63\%) and lowest in the seasonal (18\%) and low risk (19\%) zones (Map 4).

Figure 9 Trends in household ownership of ITNs

Percentage of households owning at least one insecticide-treated net (ITN) and percentage of households with at least one net for every two persons


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions.

## Map 4 ITN ownership by malaria endemicity zone

Percentage of households with at least one ITN for every two persons who stayed in the household last night


The boundaries used in this map are not an authority on administrative units

Table 18 Household possession of insecticide-treated nets
Percentage of households with at least one insecticide-treated net (ITN), average number of ITNs per household, and percentage of households with at least one ITN per two persons who stayed in the household last night, according to background characteristics, Kenya DHS 2022
$\left.\begin{array}{lllll}\hline & & & & \begin{array}{c}\text { Percentage of } \\ \text { households with } \\ \text { at least one ITN } 1\end{array} \\ \text { for every two }\end{array} \begin{array}{c}\text { Number of } \\ \text { persons who } \\ \text { souseholds with } \\ \text { at least one } \\ \text { person who } \\ \text { stayed in the }\end{array}\right\}$

[^3]Table 18C Household possession of insecticide-treated nets by county
Percentage of households with at least one insecticide-treated net (ITN), average number of ITNs per household, and percentage of households with at least one ITN per two persons who stayed in the household last night, according to county, Kenya DHS 2022

| County | Percentage of households with at least one ITN ${ }^{1}$ | Average number of ITNs ${ }^{1}$ per household | Number of households | Percentage of households with at least one ITN ${ }^{1}$ for every two persons who stayed in the household last night ${ }^{2}$ | Number of households with at least one person who stayed in the household last night |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mombasa | 63.3 | 1.2 | 1,071 | 45.5 | 1,051 |
| Kwale | 74.0 | 1.8 | 504 | 47.5 | 502 |
| Kilifi | 74.4 | 1.8 | 996 | 48.2 | 989 |
| Tana River | 71.3 | 1.4 | 182 | 34.3 | 180 |
| Lamu | 65.9 | 1.5 | 109 | 43.3 | 107 |
| Taita Taveta | 87.3 | 2.0 | 332 | 74.3 | 331 |
| Garissa | 19.7 | 0.3 | 269 | 6.8 | 269 |
| Wajir | 43.6 | 1.0 | 137 | 15.5 | 137 |
| Mandera | 15.7 | 0.3 | 204 | 4.8 | 203 |
| Marsabit | 27.1 | 0.4 | 171 | 7.4 | 170 |
| Isiolo | 51.7 | 0.9 | 150 | 23.4 | 149 |
| Meru | 36.2 | 0.5 | 1,373 | 16.8 | 1,359 |
| Tharaka-Nithi | 52.8 | 1.0 | 378 | 34.7 | 373 |
| Embu | 40.1 | 0.7 | 523 | 24.1 | 522 |
| Kitui | 33.0 | 0.5 | 898 | 15.1 | 895 |
| Machakos | 55.9 | 1.1 | 1,230 | 38.8 | 1,227 |
| Makueni | 48.1 | 0.8 | 775 | 25.8 | 769 |
| Nyandarua | 9.9 | 0.2 | 578 | 5.8 | 573 |
| Nyeri | 18.1 | 0.3 | 802 | 12.1 | 790 |
| Kirinyaga | 57.3 | 1.3 | 642 | 47.4 | 635 |
| Murang'a | 35.9 | 0.6 | 1,004 | 22.0 | 1,000 |
| Kiambu | 27.8 | 0.4 | 2,699 | 16.0 | 2,662 |
| Turkana | 49.4 | 0.8 | 391 | 18.8 | 383 |
| West Pokot | 78.8 | 1.9 | 416 | 41.5 | 416 |
| Samburu | 19.9 | 0.3 | 175 | 7.4 | 174 |
| Trans Nzoia | 86.0 | 2.5 | 753 | 69.3 | 747 |
| Uasin Gishu | 69.3 | 1.9 | 1,145 | 56.8 | 1,112 |
| Elgeyo Marakwet | 25.3 | 0.4 | 290 | 10.1 | 290 |
| Nandi | 84.0 | 2.1 | 732 | 69.0 | 728 |
| Baringo | 63.8 | 1.4 | 432 | 37.6 | 429 |
| Laikipia | 24.9 | 0.4 | 452 | 15.9 | 445 |
| Nakuru | 27.5 | 0.5 | 2,018 | 15.3 | 2,006 |
| Narok | 76.0 | 2.1 | 790 | 54.0 | 776 |
| Kajiado | 38.8 | 0.6 | 1,083 | 20.9 | 1,072 |
| Kericho | 84.1 | 2.3 | 748 | 65.9 | 745 |
| Bomet | 92.3 | 2.8 | 665 | 77.3 | 659 |
| Kakamega | 89.1 | 2.4 | 1,382 | 66.9 | 1,381 |
| Vihiga | 92.5 | 2.6 | 412 | 75.8 | 412 |
| Bungoma | 89.4 | 2.7 | 1,169 | 70.6 | 1,157 |
| Busia | 93.5 | 2.6 | 653 | 67.4 | 653 |
| Siaya | 86.7 | 1.9 | 703 | 58.6 | 703 |
| Kisumu | 76.0 | 1.5 | 897 | 47.0 | 888 |
| Homa Bay | 89.2 | 2.1 | 770 | 60.2 | 766 |
| Migori | 87.7 | 2.1 | 710 | 54.2 | 706 |
| Kisii | 85.0 | 2.3 | 925 | 67.4 | 917 |
| Nyamira | 93.6 | 2.6 | 424 | 80.0 | 422 |
| Nairobi City | 23.4 | 0.4 | 4,749 | 14.3 | 4,691 |
| Total | 54.2 | 1.2 | 37,911 | 37.1 | 37,571 |

${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In KDHS and
KMIS surveys conducted prior to 2020, this was known as a long-lasting insecticidal net (LLIN).
${ }^{2}$ De facto household members

## Use of Insecticide-treated Nets

ITNs act as both a physical and a chemical barrier against mosquitoes. By reducing the vector population, ITNs can help reduce malaria risk at the community level as well as reduce risk to the individuals who use them. Table 19 and Table 19C present information on use of ITNs by children under age 5 and pregnant women.

- Fifty-one percent of children under age 5 and $45 \%$ of pregnant women ( $45 \%$ ) slept under an ITN the night before the survey.
- As expected, ITN use is higher in households with at least one ITN. For example, $77 \%$ of children under age 5 and $75 \%$ of pregnant women in households with at least one ITN slept under an ITN the night before the survey.
- Utilization of ITN is higher in rural areas than in urban areas. More than half (57\%) of children in rural areas slept under an ITN, as compared with $40 \%$ of children in urban areas. Similarly, $57 \%$ of pregnant women in rural areas slept under an ITN, compared with $29 \%$ of pregnant women in urban areas.
- Use of ITNs among children under age 5 is highest (75\%) in the lake endemic region, which has the highest burden of malaria nationally. An identical percentage of pregnant women (75\%) in the lake endemic region slept under an ITN the night before the survey.

Table 19 Use of insecticide-treated nets by children and pregnant women
Percentage of children under age 5 who slept under an insecticide-treated net (ITN) the night before the survey; among children under age 5 in households with at least one ITN, percentage who slept under an ITN the night before the survey; percentage of pregnant women age 15-49 who slept under an ITN the night before the survey; and among pregnant women age 15-49 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Kenya DHS 2022

| Background characteristic | Children under age 5 in all households |  | Children under age 5 in households with at least one ITN ${ }^{1}$ |  | Pregnant women age 15-49 in all households |  | Pregnant women age 15-49 in households with at least one ITN ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | 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 | 39.7 | 5,989 | 75.5 | 3,148 | 29.0 | 733 | 70.3 | 302 |
| Rural | 56.9 | 11,824 | 77.2 | 8,720 | 56.7 | 995 | 77.0 | 733 |
| Endemicity zone |  |  |  |  |  |  |  |  |
| Highland epidemic prone | 67.2 | 3,699 | 76.4 | 3,254 | 64.3 | 329 | 78.2 | 270 |
| Lake endemic | 74.6 | 3,399 | 80.1 | 3,165 | 75.3 | 317 | 82.2 | 290 |
| Coastal endemic | 66.4 | 1,500 | 81.8 | 1,218 | 61.1 | 158 | 82.3 | 118 |
| Seasonal | 35.3 | 3,200 | 71.4 | 1,583 | 35.2 | 288 | 69.8 | 145 |
| Low risk | 32.6 | 6,016 | 74.1 | 2,649 | 20.2 | 637 | 60.7 | 212 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 48.4 | 4,189 | 72.8 | 2,786 | 50.9 | 355 | 74.8 | 241 |
| Second | 60.9 | 3,459 | 78.6 | 2,680 | 59.3 | 279 | 73.3 | 226 |
| Middle | 62.2 | 3,235 | 81.0 | 2,486 | 56.5 | 303 | 82.0 | 209 |
| Fourth | 48.7 | 3,457 | 78.8 | 2,136 | 41.0 | 374 | 75.7 | 203 |
| Highest | 36.9 | 3,474 | 71.9 | 1,781 | 25.4 | 417 | 67.8 | 156 |
| Total | 51.1 | 17,814 | 76.8 | 11,869 | 44.9 | 1,728 | 75.0 | 1,035 |

Note: Table is based on children and pregnant women 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 KDHS and KMIS surveys conducted prior to 2020, this was known as a long-lasting insecticidal net (LLIN).

Table 19C Use of insecticide-treated nets by children and pregnant women by county
Percentage of children under age 5 who slept under an insecticide-treated net (ITN) the night before the survey; among children under age 5 in households with at least one ITN, percentage who slept under an ITN the night before the survey; percentage of pregnant women age 15-49 who slept under an ITN the night before the survey; and among pregnant women age 15-49 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to county, Kenya DHS 2022

| County | Children under age 5 in all households |  | Children under age 5 in households with at least one ITN ${ }^{1}$ |  | Pregnant women age 15-49 in all households |  | Pregnant women age 15-49 in households with at least one ITN |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | Percentage who slept under an ITN ${ }^{1}$ last night | Number of children | 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 |
| Mombasa | 54.7 | 434 | 76.4 | 311 | (48.3) | 45 | * | 26 |
| Kwale | 66.4 | 329 | 82.7 | 265 | 60.1 | 35 | (82.8) | 25 |
| Kilifi | 72.4 | 541 | 82.5 | 475 | (70.0) | 61 | (81.2) | 53 |
| Tana River | 65.5 | 146 | 84.3 | 114 | 68.5 | 13 | (88.9) | 10 |
| Lamu | 60.9 | 65 | 83.0 | 48 | 46.9 | 9 | (79.5) | 5 |
| Taita Taveta | 83.3 | 130 | 90.2 | 120 | * | 8 |  | 8 |
| Garissa | 12.8 | 241 | 58.5 | 53 | 21.4 | 19 | * | 5 |
| Wajir | 20.9 | 146 | 49.6 | 62 | 16.6 | 17 | (47.9) | 6 |
| Mandera | 9.0 | 257 | 53.3 | 43 | 15.2 | 21 |  | 5 |
| Marsabit | 8.9 | 138 | 31.2 | 40 | (12.1) | 11 | * | 4 |
| Isiolo | 48.9 | 99 | 78.8 | 62 | (43.9) | 7 | (72.2) | 5 |
| Meru | 45.7 | 520 | 75.0 | 317 | * | 46 |  | 20 |
| Tharaka-Nithi | 56.6 | 139 | 81.7 | 96 | * | 11 | * | 7 |
| Embu | 58.2 | 173 | 85.4 | 118 | * | 14 | * | 9 |
| Kitui | 42.3 | 387 | 77.3 | 212 | * | 18 | * | 8 |
| Machakos | 64.7 | 423 | 85.5 | 320 | (54.8) | 40 | * | 32 |
| Makueni | 46.9 | 316 | 74.9 | 198 | (55.3) | 33 | (72.2) | 26 |
| Nyandarua | 8.6 | 207 | (69.3) | 26 | * | 15 | * | 3 |
| Nyeri | 19.0 | 240 | 66.6 | 68 | * | 17 | * | 6 |
| Kirinyaga | 66.4 | 207 | 85.1 | 161 | * | 19 | * | 16 |
| Murang'a | 45.1 | 333 | 68.7 | 218 | * | 24 | * | 18 |
| Kiambu | 28.9 | 998 | 70.2 | 410 | (8.1) | 92 | * | 33 |
| Turkana | 33.3 | 320 | 65.1 | 164 | (25.7) | 25 | * | 13 |
| West Pokot | 57.6 | 431 | 70.9 | 350 | 59.2 | 50 | 76.2 | 39 |
| Samburu | 9.9 | 153 | 51.5 | 29 | (1.7) | 10 | * | 1 |
| Trans Nzoia | 75.7 | 379 | 84.0 | 341 | (71.0) | 29 | (76.4) | 27 |
| Uasin Gishu | 65.8 | 503 | 74.5 | 444 | (54.2) | 65 | (75.5) | 47 |
| Elgeyo Marakwet | 16.6 | 170 | 41.3 | 69 | * | 10 | * | 4 |
| Nandi | 71.4 | 323 | 78.2 | 295 | (77.8) | 24 | (94.0) | 20 |
| Baringo | 53.5 | 265 | 76.3 | 186 | (63.1) | 29 | (90.0) | 20 |
| Laikipia | 23.7 | 162 | 71.6 | 54 | (6.5) | 20 | * | 3 |
| Nakuru | 22.9 | 930 | 67.7 | 315 | (7.6) | 87 | * | 15 |
| Narok | 56.6 | 579 | 67.1 | 489 | 50.6 | 52 | (57.9) | 45 |
| Kajiado | 39.9 | 538 | 73.5 | 292 | 34.5 | 64 | (59.8) | 37 |
| Kericho | 72.2 | 353 | 79.7 | 319 | (69.5) | 33 | (93.8) | 24 |
| Bomet | 75.8 | 349 | 79.5 | 333 | (94.3) | 26 | (98.9) | 24 |
| Kakamega | 71.8 | 717 | 77.5 | 665 | (77.5) | 70 | (80.5) | 68 |
| Vihiga | 79.0 | 179 | 81.8 | 173 | (91.7) | 16 | (93.3) | 15 |
| Bungoma | 74.2 | 671 | 77.8 | 641 | 73.3 | 69 | (76.9) | 66 |
| Busia | 83.8 | 393 | 85.6 | 385 | 81.3 | 39 | (85.0) | 37 |
| Siaya | 77.0 | 333 | 82.3 | 312 | (72.4) | 26 | (79.5) | 23 |
| Kisumu | 68.9 | 426 | 81.1 | 362 | (72.4) | 43 | (92.3) | 34 |
| Homa Bay | 69.6 | 415 | 74.8 | 386 | (64.2) | 36 | (67.3) | 34 |
| Migori | 75.5 | 457 | 81.4 | 424 | (78.0) | 34 | (96.6) | 27 |
| Kisii | 75.4 | 424 | 82.7 | 386 | (69.8) | 33 | (74.5) | 31 |
| Nyamira | 81.1 | 162 | 83.3 | 157 | * | 9 | * | 8 |
| Nairobi City | 23.9 | 1,712 | 72.9 | 562 | 10.3 | 252 | * | 40 |
| Total | 51.1 | 17,814 | 76.8 | 11,869 | 44.9 | 1,728 | 75.0 | 1,035 |

Note: Table is based on children and pregnant 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 KDHS and KMIS surveys conducted prior to 2020, this was known as a long-lasting insecticidal net (LLIN).

### 3.16.2 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 or a stillbirth in the 2 years before the survey

Malaria infection during pregnancy poses substantial risk for the mother and her unborn child. Notable complications include spontaneous abortions, maternal and fetal anemia, and low birth weight babies. According to the Kenya Malaria Strategy 2019-2023, pregnant women living in malaria-endemic counties should receive intermittent preventive treatment of malaria in pregnancy (IPTp). This is a full therapeutic course of antimalarial medicine (sulfadoxine-pyrimethamine) given to pregnant women at routine antenatal care visits to prevent malaria. Pregnant women should receive at least three doses of IPTp for maximum protection. Notably, IPTp is provided only in the lake and coastal endemic regions in Kenya.

- Twenty-eight percent of women with a live birth and/or a stillbirth in the 2 years before the survey reported receiving one or more doses of $\mathrm{SP} / F$ Fansidar during the pregnancy that resulted in the last live birth or stillbirth, while $20 \%$ received two or more doses. Nationally, $13 \%$ of women received three or more doses of SP/Fansidar (Table 20 and Table 20C).
- The percentages of women with a live birth in the 2 years preceding the survey who received three or more doses of SP/Fansidar are highest in the lake endemic zone (38\%) and the coastal endemic zone (29\%).

Table 20 Use of intermittent preventive treatment (IPTP) by women during pregnancy
Percentage of women age 15-49 with a live birth and/or a stillbirth in the 2 years preceding the survey who 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 during the pregnancy that resulted in the last live birth or stillbirth, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who received one or more doses of SP/Fansidar | Percentage who received two or more doses of SP/Fansidar | Percentage who received three or more doses of SP/Fansidar | Number of women with a live birth and/or a stillbirth in the 2 years preceding the survey |
| :---: | :---: | :---: | :---: | :---: |
| LIVE BIRTHS |  |  |  |  |
| Residence |  |  |  |  |
| Urban | 24.2 | 16.1 | 9.7 | 1,273 |
| Rural | 30.4 | 21.9 | 14.1 | 2,251 |
| Endemicity zone |  |  |  |  |
| Highland epidemic prone | 14.2 | 9.3 | 6.3 | 752 |
| Lake endemic | 70.6 | 56.7 | 38.1 | 636 |
| Coastal endemic | 75.8 | 50.1 | 29.2 | 286 |
| Seasonal | 12.7 | 8.5 | 5.3 | 608 |
| Low risk | 11.5 | 5.8 | 2.9 | 1,242 |
| Total | 28.2 | 19.8 | 12.5 | 3,523 |
| STILLBIRTHS |  |  |  |  |
| Total | 25.6 | 21.8 | 10.5 | 58 |
| LIVE BIRTHS AND STILLBIRTHS ${ }^{1}$ |  |  |  |  |
| Total | 28.2 | 19.8 | 12.5 | 3,575 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire.
${ }^{1}$ For women who had both a live birth and a stillbirth in the 2 years preceding the survey, data are tabulated for the most recent birth only.

Table 20C Use of intermittent preventive treatment (IPTp) by women during pregnancy by county
Percentage of women age 15-49 with a live birth in the 2 years preceding the survey who 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 during the pregnancy that resulted in the last live birth, according to county, Kenya DHS 2022

|  |  |  |  | Number of |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who | Percentage who | Percentage who | women with a |
| received one or | received two or | received three or | live birth in the 2 |  |
| more doses of | more doses of | more doses of | years preceding |  |
| County | SP/Fansidar | SP/Fansidar | SP/Fansidar | the survey |


| Areas where IPTp is |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| implemented | 70.4 | 52.7 | 33.8 | 983 |
| Mombasa | 80.1 | 51.2 | 31.2 | 94 |
| Kwale | 75.3 | 48.1 | 27.7 | 60 |
| Kilifi | 74.7 | 49.2 | 27.6 | 93 |
| Tana River | 40.3 | 24.3 | 5.8 | 29 |
| Lamu | 81.0 | 67.2 | 42.2 | 16 |
| Taita Taveta | 61.7 | 43.1 | 22.7 | 24 |
| Kakamega | 74.4 | 62.2 | 45.7 | 152 |
| Vihiga | 88.3 | 77.0 | 59.1 | 36 |
| Bungoma | 75.3 | 58.2 | 40.6 | 106 |
| Busia | 73.5 | 54.2 | 34.7 | 74 |
| Siaya | 68.7 | 56.8 | 33.8 | 53 |
| Kisumu | 48.4 | 38.4 | 25.5 | 79 |
| Homa Bay | 61.7 | 49.6 | 34.2 | 72 |
| Migori | 68.2 | 49.7 | 25.4 | 97 |
| Areas where IPTp is not |  |  |  |  |
| implemented | 11.8 | 7.0 | 4.3 | 2,540 |
| Garissa | 0.6 | 0.6 | 0.6 | 47 |
| Wajir | 4.2 | 2.6 | 2.2 | 27 |
| Mandera | 0.0 | 0.0 | 0.0 | 47 |
| Marsabit | 3.1 | 3.1 | 3.1 | 28 |
| Isiolo | 28.0 | 22.1 | 21.4 | 21 |
| Meru | 7.3 | 7.3 | 6.5 | 98 |
| Tharaka-Nithi | 12.9 | 3.8 | 2.9 | 26 |
| Embu | 25.6 | 13.8 | 4.3 | 31 |
| Kitui | 8.6 | 6.9 | 4.9 | 72 |
| Machakos | 8.8 | 2.6 | 2.6 | 76 |
| Makueni | 15.6 | 5.7 | 0.0 | 60 |
| Nyandarua | 7.4 | 2.8 | 2.3 | 47 |
| Nyeri | 5.1 | 0.0 | 0.0 | 49 |
| Kirinyaga | 25.7 | 10.4 | 2.1 | 45 |
| Murang'a | 5.6 | 1.8 | 0.0 | 69 |
| Kiambu | 2.0 | 1.0 | 1.0 | 199 |
| Turkana | 30.2 | 18.2 | 9.9 | 64 |
| West Pokot | 0.0 | 0.0 | 0.0 | 87 |
| Samburu | 4.1 | 2.3 | 0.8 | 29 |
| Trans Nzoia | 32.3 | 20.7 | 11.9 | 77 |
| Uasin Gishu | 15.1 | 8.9 | 3.8 | 106 |
| Elgeyo Marakwet | 9.4 | 1.8 | 0.3 | 33 |
| Nandi | 21.9 | 20.5 | 20.5 | 58 |
| Baringo | 12.5 | 5.0 | 3.5 | 52 |
| Laikipia | 6.5 | 1.6 | 1.6 | 32 |
| Nakuru | 12.0 | 8.4 | 2.2 | 166 |
| Narok | 4.4 | 1.9 | 0.0 | 119 |
| Kajiado | 11.7 | 9.6 | 7.2 | 102 |
| Kericho | 11.1 | 9.8 | 5.2 | 79 |
| Bomet | 5.1 | 1.5 | 1.5 | 63 |
| Kisii | 16.6 | 12.5 | 11.2 | 94 |
| Nyamira | 6.8 | 2.1 | 2.1 | 32 |
| Nairobi City | 18.1 | 9.8 | 5.9 | 403 |
| Total | 28.2 | 19.8 | 12.5 | 3,523 |

Note: Data in this table were collected in the full woman's questionnaire but not in the short questionnaire.

### 3.16.3 Case Management of Malaria in Children

## Care seeking for children under age 5 with 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 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 fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey who received ACT.
Sample: Children under age 5 with a fever in the 2 weeks before the survey who took any antimalarial drug

Another recommendation of the Kenya Malaria Strategy 2019-2023 is that all individuals with suspected malaria cases be tested and that those confirmed as having malaria receive the recommended antimalarial treatment. According to the National Malaria Treatment Guidelines, caregivers of children under age 5 with fever should seek advice or treatment within 24 hours.

- Overall, $17 \%$ of children under age 5 had a fever in the 2 weeks before the survey; in the lake endemic zone, the zone with the highest burden of malaria, $26 \%$ of children had a fever in the past 2 weeks (Table 21 and Table 21C).
- Advice or treatment was sought for $70 \%$ of children with a fever, and $33 \%$ had blood taken from a finger or heel for testing. The percentage of children with fever for whom advice or treatment was sought and the percentage who had blood taken from a finger or heel for testing were highest in the lake endemic zone ( $74 \%$ and $49 \%$, respectively).
- The majority ( $84 \%$ ) of children with a fever who took any antimalarial drug received ACT. In the lake endemic zone, $91 \%$ of children who took an antimalarial received ACT.

Table 21 Children with fever and care seeking for, diagnosis of, and treatment of fever
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey; among children under age 5 with fever, percentage for whom advice or treatment was sought and percentage who had blood taken from a finger or heel for testing; and among children under age 5 with fever who took any antimalarial drug, percentage who received artemisinin-based combination therapy (ACT), according to background characteristics, Kenya DHS 2022

| Background characteristic | Children under age 5 |  | Children under age 5 with fever |  |  | Children under age 5 with fever who took any antimalarial drug |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with a fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage who had blood taken from a finger or heel for testing | Number of children | Percentage who received any ACT | Number of children |
| Residence |  |  |  |  |  |  |  |
| Urban | 17.0 | 6,316 | 68.9 | 33.5 | 1,071 | 75.5 | 109 |
| Rural | 17.2 | 10,567 | 69.8 | 33.3 | 1,818 | 85.9 | 475 |
| Endemicity zone |  |  |  |  |  |  |  |
| Highland epidemic prone | 14.3 | 3,427 | 71.1 | 30.4 | 491 | 85.7 | 68 |
| Lake endemic | 25.6 | 2,986 | 74.1 | 49.4 | 764 | 91.4 | 370 |
| Coastal endemic | 15.5 | 1,403 | 54.2 | 34.5 | 218 | * | 10 |
| Seasonal | 15.9 | 2,973 | 62.9 | 29.3 | 474 | 76.8 | 76 |
| Low risk | 15.5 | 6,095 | 71.7 | 23.8 | 942 | (46.6) | 59 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 17.0 | 3,784 | 64.2 | 33.5 | 643 | 83.6 | 165 |
| Second | 17.6 | 3,038 | 69.5 | 36.1 | 535 | 91.2 | 158 |
| Middle | 17.2 | 2,955 | 74.2 | 33.9 | 509 | 84.1 | 126 |
| Fourth | 18.7 | 3,410 | 70.2 | 29.9 | 636 | 78.9 | 84 |
| Highest | 15.3 | 3,697 | 70.4 | 34.2 | 566 | 70.6 | 50 |
| Total | 17.1 | 16,883 | 69.5 | 33.4 | 2,890 | 84.0 | 583 |

Note: Data in this table were collected in the full woman's questionnaire but not in the short questionnaire. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
${ }^{1}$ Includes advice or treatment from the following sources: public sector, private medical sector, nongovernmental organization (NGO) medical sector, faith-based sector/organization (FBO) medical sector, shop, market, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.

Table 21C Children with fever and care seeking for, diagnosis of, and treatment of fever by county
Percentage of children under age 5 with a fever in the 2 weeks preceding the survey; among children under age 5 with fever, percentage for whom advice or treatment was sought and percentage who had blood taken from a finger or heel for testing; and among children under age 5 with fever who took any antimalarial drug, percentage who received artemisinin-based combination therapy (ACT), according to county, Kenya DHS 2022

| County | Children under age 5 |  | Children under age 5 with fever |  |  | Children under age 5 with fever who took any antimalarial drug |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage with a fever in the 2 weeks preceding the survey | Number of children | Percentage for whom advice or treatment was sought ${ }^{1}$ | Percentage who had blood taken from a finger or heel for testing | Number of children | Percentage who received any ACT | Number of children |
| Mombasa | 20.6 | 429 | 41.7 | 43.6 | 88 | * | 0 |
| Kwale | 5.9 | 296 | * | * | 17 | * | 4 |
| Kilifi | 16.4 | 494 | 61.0 | 30.7 | 81 | * | 6 |
| Tana River | 17.7 | 137 | 54.0 | 27.8 | 24 | * | 2 |
| Lamu | 28.8 | 62 | 78.6 | 19.5 | 18 | * | 1 |
| Taita Taveta | 10.8 | 123 | (57.6) | (25.0) | 13 | * | 0 |
| Garissa | 6.5 | 233 | (55.0) | (54.1) | 15 | * | 1 |
| Wajir | 24.0 | 143 | 56.9 | 14.7 | 34 | * | 0 |
| Mandera | 13.1 | 246 | 37.5 | 24.7 | 32 | * | 3 |
| Marsabit | 6.9 | 130 | (46.1) | (32.3) | 9 | * | 0 |
| Isiolo | 17.3 | 94 | 59.9 | 34.3 | 16 | * | 3 |
| Meru | 21.3 | 461 | 66.5 | 17.8 | 98 | * | 12 |
| Tharaka-Nithi | 31.4 | 125 | 74.4 | 34.2 | 39 | * | 2 |
| Embu | 11.4 | 163 | (79.5) | (6.4) | 19 | * | 1 |
| Kitui | 10.0 | 334 | (54.4) | (12.4) | 33 | * | 6 |
| Machakos | 16.5 | 379 | (78.0) | (24.3) | 63 | * | 8 |
| Makueni | 4.0 | 291 | * | * | 12 | * | 2 |
| Nyandarua | 9.4 | 193 | (73.3) | (23.2) | 18 | * | 1 |
| Nyeri | 15.2 | 222 | (97.6) | (23.0) | 34 | * | 0 |
| Kirinyaga | 5.6 | 198 | * | * | 11 | * | 1 |
| Murang'a | 16.1 | 317 | (71.3) | (11.3) | 51 | * | 3 |
| Kiambu | 17.1 | 1,058 | 68.0 | 28.8 | 181 | * | 0 |
| Turkana | 23.1 | 299 | 76.2 | 56.0 | 69 | 78.3 | 24 |
| West Pokot | 8.3 | 403 | 72.0 | 52.6 | 34 | * | 13 |
| Samburu | 13.6 | 144 | 51.0 | 23.7 | 20 | * | 2 |
| Trans Nzoia | 17.8 | 348 | 74.0 | 41.9 | 62 | * | 22 |
| Uasin Gishu | 24.7 | 490 | 77.9 | 29.6 | 121 | * | 10 |
| Elgeyo Marakwet | 8.7 | 160 | (64.6) | (15.1) | 14 | * | 0 |
| Nandi | 13.2 | 289 | 72.5 | 34.6 | 38 | * | 8 |
| Baringo | 17.4 | 243 | 85.3 | 35.4 | 42 | * | 11 |
| Laikipia | 9.0 | 155 | (77.9) | (13.8) | 14 | * | 0 |
| Nakuru | 19.6 | 853 | 66.2 | 18.6 | 167 | * | 16 |
| Narok | 10.8 | 554 | 58.0 | 29.5 | 60 | * | 5 |
| Kajiado | 21.1 | 511 | 60.1 | 21.5 | 108 | * | 9 |
| Kericho | 4.7 | 360 | * | * | 17 | * | 2 |
| Bomet | 20.9 | 325 | 67.0 | 9.6 | 68 | * | 3 |
| Kakamega | 23.6 | 609 | 72.2 | 38.4 | 144 | (80.2) | 50 |
| Vihiga | 16.2 | 159 | 64.2 | 23.8 | 26 | , | 4 |
| Bungoma | 19.6 | 561 | 71.4 | 50.5 | 110 | (99.0) | 59 |
| Busia | 29.3 | 317 | 85.0 | 79.7 | 93 | 95.2 | 56 |
| Siaya | 13.6 | 302 | 84.1 | 65.6 | 41 | (95.9) | 31 |
| Kisumu | 19.4 | 413 | 66.3 | 49.6 | 80 | (66.9) | 32 |
| Homa Bay | 36.4 | 360 | 78.2 | 43.6 | 131 | 97.7 | 70 |
| Migori | 39.4 | 422 | 73.7 | 44.5 | 166 | 93.1 | 74 |
| Kisii | 11.3 | 368 | (69.2) | (30.4) | 42 | * | 4 |
| Nyamira | 15.7 | 129 | (67.2) | (26.8) | 20 | * | 1 |
| Nairobi City | 15.0 | 1,982 | 72.3 | 27.5 | 296 | * | 21 |
| Total | 17.1 | 16,883 | 69.5 | 33.4 | 2,890 | 84.0 | 583 |

Note: Data in this table were collected in the full woman's questionnaire but not in the short questionnaire. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed
${ }^{1}$ Includes advice or treatment from the following sources: public sector, private medical sector, nongovernmental organization (NGO) medical sector, faith-based sector/organization (FBO) medical sector, shop, market, and itinerant drug seller. Excludes advice or treatment from a traditional practitioner.

### 3.17 TB AND HIV

### 3.17.1 Knowledge and Diagnosis of Tuberculosis

Tuberculosis (TB) remains a major health concern in Kenya and is associated with high levels of morbidity and mortality. Table 22 presents the percentage of women and men age 15-49 by knowledge of TB according to background characteristics.

- Awareness of TB is almost universal in Kenya; $97 \%$ of women and $98 \%$ of men age 15-49 have heard of TB.
- Five percent of women and $4 \%$ of men think that all people with TB also have HIV.
- Less than $1 \%$ of women and men were diagnosed with TB in the 12 months prior to the survey.

Table 22 Knowledge of, beliefs about, and diagnosis of tuberculosis
Percentage of women and men age 15-49 who have heard of TB, and among those who have heard of TB, percentage who think that all people with TB have HIV and percentage who were diagnosed with TB in the past 12 months, according to background characteristics, Kenya DHS 2022

| Background characteristic | Have heard of TB | Number of women | Among women who have heard of TB |  |  | Have heard of TB | Number of men | Among men who have heard of TB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Think all people with TB have HIV | Percentage diagnosed with TB in past 12 months | Number of women |  |  | Think all people with TB have HIV | Percentage diagnosed with TB in past 12 months | Number of men |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 96.2 | 6,188 | 3.6 | 0.3 | 5,955 | 97.3 | 5,579 | 4.5 | 0.3 | 5,426 |
| 15-19 | 95.6 | 3,125 | 3.4 | 0.3 | 2,987 | 97.2 | 3,175 | 4.9 | 0.4 | 3,086 |
| 20-24 | 96.9 | 3,063 | 3.8 | 0.3 | 2,967 | 97.3 | 2,404 | 4.0 | 0.2 | 2,340 |
| 25-29 | 97.4 | 2,916 | 4.4 | 0.2 | 2,840 | 99.1 | 2,268 | 2.4 | 0.3 | 2,247 |
| 30-39 | 97.2 | 4,652 | 6.1 | 0.6 | 4,523 | 98.8 | 3,364 | 4.8 | 0.4 | 3,325 |
| 40-49 | 96.6 | 2,960 | 5.4 | 0.7 | 2,859 | 98.9 | 2,441 | 5.3 | 1.6 | 2,413 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 96.7 | 5,348 | 3.0 | 0.3 | 5,173 | 97.4 | 6,576 | 4.3 | 0.3 | 6,407 |
| Ever had sex | 97.6 | 2,775 | 2.9 | 0.2 | 2,709 | 97.8 | 4,303 | 4.0 | 0.4 | 4,207 |
| Never had sex | 95.7 | 2,573 | 3.1 | 0.3 | 2,464 | 96.8 | 2,273 | 5.0 | 0.1 | 2,200 |
| Married or living together | 96.9 | 9,319 | 5.5 | 0.4 | 9,031 | 99.0 | 6,257 | 4.2 | 0.6 | 6,193 |
| Divorced/separated/ widowed | 96.3 | 2,049 | 6.1 | 1.1 | 1,973 | 99.0 | 819 | 6.0 | 2.0 | 811 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 98.3 | 6,850 | 3.8 | 0.4 | 6,733 | 98.2 | 5,382 | 2.9 | 0.7 | 5,285 |
| Rural | 95.7 | 9,866 | 5.4 | 0.4 | 9,444 | 98.3 | 8,270 | 5.4 | 0.5 | 8,127 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 88.7 | 920 | 6.9 | 0.3 | 817 | 92.8 | 369 | 7.2 | 0.6 | 342 |
| Primary | 95.5 | 6,107 | 6.5 | 0.7 | 5,835 | 97.7 | 4,894 | 6.7 | 0.7 | 4,780 |
| Secondary | 98.0 | 6,320 | 3.9 | 0.4 | 6,191 | 98.9 | 5,386 | 3.3 | 0.6 | 5,326 |
| More than secondary | 99.0 | 3,208 | 2.7 | 0.2 | 3,177 | 98.7 | 2,797 | 2.1 | 0.3 | 2,762 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 93.3 | 2,599 | 6.9 | 0.5 | 2,425 | 96.8 | 2,062 | 7.1 | 0.8 | 1,996 |
| Second | 96.0 | 2,974 | 5.0 | 0.7 | 2,854 | 98.4 | 2,584 | 5.8 | 0.4 | 2,542 |
| Middle | 96.5 | 3,086 | 5.5 | 0.3 | 2,979 | 98.2 | 2,754 | 3.9 | 0.5 | 2,704 |
| Fourth | 97.8 | 3,729 | 4.2 | 0.5 | 3,646 | 99.0 | 3,325 | 3.2 | 0.7 | 3,291 |
| Highest | 98.7 | 4,328 | 3.3 | 0.2 | 4,272 | 98.4 | 2,927 | 3.1 | 0.5 | 2,880 |
| Total 15-49 | 96.8 | 16,716 | 4.7 | 0.4 | 16,177 | 98.2 | 13,652 | 4.4 | 0.6 | 13,412 |
| 50-54 | na | na | na | na | na | 98.6 | 801 | 5.6 | 1.2 | 789 |
| Total 15-54 | na | na | na | na | na | 98.3 | 14,453 | 4.5 | 0.6 | 14,201 |

Note: Data in this table were collected in the full woman's and man's questionnaires but not in the short questionnaires.
na $=$ not applicable
${ }^{1}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

### 3.17.2 HIV Prevention Knowledge among Young People

## Knowledge about HIV prevention

Knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two major misconceptions about HIV transmission: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.
Sample: Women and men age 15-24

Knowledge of how HIV is transmitted is crucial to enabling people to avoid HIV infection, and this is especially true for young people, who are often at greater risk of infection because they may have shorter
sexual relationships with multiple partners or engage in other risky behavior. Table 23 and Table 23C present information on knowledge of HIV prevention among young people age 15-24.

- Slightly more than half of young people in Kenya know about HIV prevention (54\% of women and $55 \%$ of men).
- Knowledge of prevention is lowest among respondents age 15-17 (44\% each of women and men) and among those who have never had sex ( $47 \%$ of women and $48 \%$ of men).
- Young women and men in urban areas are more likely than their counterparts in rural areas to have knowledge about HIV prevention; $57 \%$ of young women and $63 \%$ of young men in urban areas have knowledge about prevention, as compared with $52 \%$ of young women and $51 \%$ of young men in rural areas.
- Knowledge about HIV prevention increases with increasing education, from $13 \%$ among young women with no education to $69 \%$ among those with more than a secondary education and from $14 \%$ among young men with no education to $80 \%$ among those with more than a secondary education.

Table 23 Knowledge about HIV prevention methods among young people
Percentage of young women and young men age 15-24 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, and percentage who correctly identify both ways of preventing sexual transmission of HIV and reject major misconceptions about HIV transmission, according to background characteristics, Kenya DHS 2022

| Background characteristic | Women age 15-24 |  |  |  | Men age 15-24 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who say HIV can be prevented by: |  | Percentage with knowledge about HIV prevention ${ }^{3}$ | Number of women | Percentage who say HIV can be prevented by: |  | Percentage with knowledge about HIV prevention ${ }^{3}$ | Number of men |
|  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ |  |  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 72.8 | 84.1 | 47.3 | 3,125 | 79.7 | 85.7 | 48.7 | 3,175 |
| 15-17 | 69.7 | 82.2 | 43.9 | 1,822 | 76.5 | 83.0 | 43.8 | 1,954 |
| 18-19 | 77.2 | 86.9 | 52.1 | 1,303 | 84.7 | 90.1 | 56.5 | 1,221 |
| 20-24 | 86.0 | 91.9 | 61.1 | 3,063 | 87.8 | 92.3 | 63.8 | 2,404 |
| 20-22 | 83.9 | 91.2 | 59.5 | 1,850 | 87.7 | 91.8 | 64.1 | 1,484 |
| 23-24 | 89.2 | 93.1 | 63.7 | 1,212 | 87.8 | 93.0 | 63.3 | 920 |
| Marital status |  |  |  |  |  |  |  |  |
| Never married | 77.5 | 87.3 | 52.9 | 4,381 | 82.9 | 88.1 | 54.7 | 5,140 |
| Ever had sex | 86.4 | 92.6 | 60.9 | 1,883 | 87.1 | 91.5 | 59.8 | 2,934 |
| Never had sex | 70.8 | 83.4 | 46.9 | 2,498 | 77.3 | 83.6 | 48.0 | 2,207 |
| Ever married | 83.8 | 89.6 | 57.1 | 1,807 | 86.1 | 93.9 | 60.6 | 439 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 82.4 | 88.9 | 57.2 | 2,430 | 86.1 | 92.7 | 63.3 | 1,830 |
| Rural | 77.4 | 87.4 | 52.2 | 3,758 | 81.7 | 86.5 | 51.2 | 3,750 |
| Education ${ }^{4}$ |  |  |  |  |  |  |  |  |
| No education | 37.1 | 55.0 | 13.3 | 160 | 58.7 | 63.6 | 13.8 | 63 |
| Primary | 73.1 | 84.3 | 42.9 | 1,591 | 75.5 | 82.5 | 38.3 | 1,713 |
| Secondary | 81.0 | 89.4 | 56.7 | 3,384 | 85.4 | 90.8 | 59.7 | 3,007 |
| More than secondary | 90.6 | 93.8 | 69.4 | 995 | 94.3 | 95.5 | 79.8 | 725 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 69.6 | 80.3 | 40.8 | 1,062 | 75.0 | 84.1 | 44.9 | 935 |
| Second | 78.2 | 89.2 | 51.4 | 1,203 | 84.1 | 86.3 | 50.4 | 1,211 |
| Middle | 82.3 | 89.8 | 58.3 | 1,146 | 81.6 | 86.5 | 52.5 | 1,288 |
| Fourth | 81.2 | 91.0 | 60.5 | 1,371 | 86.1 | 92.6 | 61.7 | 1,273 |
| Highest | 83.5 | 88.4 | 57.0 | 1,406 | 88.8 | 93.5 | 67.4 | 872 |
| Total 15-24 | 79.4 | 88.0 | 54.2 | 6,188 | 83.2 | 88.6 | 55.2 | 5,579 |

[^4]Table 23C Knowledge about HIV prevention methods among young people by county
Percentage of young women and young men age 15-24 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, and percentage who correctly identify both ways of preventing sexual transmission of HIV and reject major misconceptions about HIV transmission, according to county, Kenya DHS 2022

| County | Women age 15-24 |  |  |  | Men age 15-24 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who say HIV can be prevented by: |  | Percentage with knowledge about HIV prevention ${ }^{3}$ | Number of women | Percentage who say HIV can be prevented by: |  |  |  |
|  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ |  |  | Using condoms ${ }^{1}$ | Limiting sexual intercourse to one uninfected partner ${ }^{2}$ | Percentage with knowledge about HIV prevention ${ }^{3}$ | Number of men |
| Mombasa | 75.6 | 83.5 | 45.3 | 173 | 70.0 | 97.2 | 60.9 | 159 |
| Kwale | 86.2 | 87.4 | 63.4 | 111 | 63.5 | 95.1 | 42.8 | 104 |
| Kilifi | 75.7 | 90.8 | 57.1 | 208 | 74.1 | 84.5 | 51.0 | 197 |
| Tana River | 49.9 | 71.8 | 35.2 | 31 | 57.3 | 53.7 | 32.3 | 29 |
| Lamu | 49.7 | 81.6 | 34.7 | 21 | 97.9 | 95.5 | 84.7 | 14 |
| Taita Taveta | 82.3 | 85.3 | 61.0 | 37 | 82.4 | 89.5 | 49.0 | 37 |
| Garissa | 27.7 | 55.3 | 15.0 | 78 | 95.4 | 99.8 | 88.7 | 56 |
| Wajir | 45.9 | 76.3 | 26.9 | 39 | 73.9 | 87.1 | 43.1 | 38 |
| Mandera | 15.0 | 26.2 | 4.5 | 46 | 57.3 | 61.5 | 16.8 | 41 |
| Marsabit | 58.2 | 58.6 | 26.0 | 24 | 58.4 | 89.5 | 34.7 | 17 |
| Isiolo | 68.0 | 75.7 | 35.7 | 31 | 83.7 | 95.9 | 58.6 | 19 |
| Meru | 66.2 | 84.8 | 41.1 | 162 | 81.6 | 86.8 | 50.2 | 179 |
| Tharaka-Nithi | 74.4 | 90.1 | 51.5 | 33 | 80.9 | 92.5 | 51.8 | 49 |
| Embu | 79.6 | 84.5 | 49.4 | 51 | 75.0 | 75.5 | 56.5 | 58 |
| Kitui | 75.4 | 86.5 | 65.6 | 140 | 96.7 | 94.4 | 80.9 | 142 |
| Machakos | 88.1 | 98.1 | 68.1 | 205 | 84.9 | 86.8 | 54.5 | 200 |
| Makueni | 76.3 | 88.2 | 55.0 | 133 | 86.9 | 98.4 | 52.5 | 113 |
| Nyandarua | 80.2 | 96.2 | 59.1 | 79 | 85.3 | 79.7 | 47.0 | 73 |
| Nyeri | 88.2 | 86.8 | 62.0 | 85 | 88.0 | 80.2 | 53.7 | 81 |
| Kirinyaga | 82.2 | 92.9 | 65.0 | 79 | 93.3 | 90.6 | 74.0 | 70 |
| Murang'a | 81.7 | 89.5 | 47.3 | 118 | 96.0 | 97.4 | 64.0 | 114 |
| Kiambu | 80.3 | 85.3 | 50.8 | 368 | 72.2 | 80.7 | 37.5 | 309 |
| Turkana | 67.0 | 75.6 | 23.2 | 63 | 70.1 | 73.8 | 49.4 | 38 |
| West Pokot | 74.7 | 79.6 | 43.7 | 77 | 90.8 | 94.9 | 77.2 | 61 |
| Samburu | 67.3 | 84.8 | 31.8 | 32 | 73.5 | 88.5 | 30.6 | 22 |
| Trans Nzoia | 91.1 | 98.6 | 74.0 | 144 | 82.9 | 93.7 | 64.3 | 129 |
| Uasin Gishu | 79.5 | 90.5 | 56.6 | 218 | 85.5 | 82.6 | 63.0 | 164 |
| Elgeyo Marakwet | 82.1 | 92.4 | 53.6 | 38 | 77.8 | 69.6 | 43.7 | 46 |
| Nandi | 76.6 | 87.0 | 43.0 | 137 | 85.0 | 77.0 | 61.9 | 111 |
| Baringo | 69.5 | 88.4 | 46.8 | 76 | 78.6 | 69.9 | 45.2 | 87 |
| Laikipia | 81.1 | 88.0 | 50.0 | 62 | 75.9 | 90.2 | 44.4 | 67 |
| Nakuru | 84.2 | 89.1 | 54.3 | 262 | 75.9 | 76.5 | 35.1 | 294 |
| Narok | 76.2 | 87.8 | 49.7 | 156 | 69.5 | 87.3 | 35.6 | 138 |
| Kajiado | 80.2 | 90.6 | 60.0 | 149 | 88.5 | 92.3 | 50.4 | 114 |
| Kericho | 88.6 | 87.4 | 49.0 | 140 | 97.0 | 98.5 | 85.4 | 115 |
| Bomet | 82.3 | 94.5 | 58.2 | 129 | 94.1 | 91.7 | 54.2 | 110 |
| Kakamega | 75.1 | 88.8 | 50.6 | 251 | 86.0 | 97.3 | 44.3 | 279 |
| Vihiga | 75.5 | 83.7 | 58.5 | 99 | 76.5 | 81.6 | 50.1 | 82 |
| Bungoma | 68.7 | 85.3 | 32.4 | 237 | 69.4 | 80.0 | 36.1 | 231 |
| Busia | 83.1 | 93.3 | 63.3 | 147 | 75.9 | 82.9 | 38.3 | 136 |
| Siaya | 90.4 | 90.8 | 71.5 | 106 | 83.0 | 91.5 | 39.9 | 114 |
| Kisumu | 95.8 | 95.6 | 73.5 | 159 | 97.0 | 99.4 | 78.9 | 126 |
| Homa Bay | 86.7 | 90.8 | 58.4 | 143 | 82.3 | 77.0 | 49.4 | 122 |
| Migori | 71.9 | 82.8 | 44.8 | 144 | 94.5 | 99.1 | 62.7 | 106 |
| Kisii | 92.1 | 97.3 | 78.8 | 182 | 97.7 | 99.2 | 95.0 | 150 |
| Nyamira | 86.9 | 96.6 | 78.2 | 68 | 75.6 | 84.6 | 51.9 | 62 |
| Nairobi City | 87.8 | 89.7 | 58.0 | 715 | 95.6 | 98.9 | 74.2 | 578 |
| Total 15-24 | 79.4 | 88.0 | 54.2 | 6,188 | 83.2 | 88.6 | 55.2 | 5,579 |

Note: Data in this table were collected in the full woman's and man's questionnaires but not in the short questionnaires.
${ }^{1}$ Using condoms every time they have sexual intercourse
${ }^{2}$ Partner who has no other partners
${ }^{3}$ Knowledge about HIV prevention means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two common misconceptions about transmission or prevention of HIV: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.

### 3.17.3 Sexual Behavior

Information on sexual behavior is important in designing, implementing, and monitoring HIV prevention programs. Tables 24.1, 24C.1, 24.2, and 24C. 2 present information on multiple sexual partners and higher-risk sexual intercourse in the last 12 months among women and men who have ever had sexual intercourse.

- A higher proportion of men ( $15 \%$ ) than women ( $4 \%$ ) reported having two or more sexual partners in the 12 months prior to the survey. Of those with more than one partner in the last 12 months, $24 \%$ of women and $45 \%$ of men reported using a condom during their last sexual intercourse.
- In the 12 months before the survey, $19 \%$ of women had sex with a person who neither was their husband nor lived with them, and just $37 \%$ of these women reported using a condom during their last sexual intercourse with such a partner.
- Thirty-five percent of men reported having sex in last 12 months with a person who neither was their wife nor lived with them, and $68 \%$ of these men reported using a condom during their last sexual intercourse with such a partner.
- Average numbers of sexual partners are 2.3 among women and 7.4 among men.
- Among women but not men, the percentage who reported using a condom at last sex with a person who neither was their spouse nor lived with them decreases with age, from $46 \%$ among women age $15-19$ to $29 \%$ among women age $30-49$.


## Table 24.1 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Women

Among all women age 15-49, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them; among women having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among women who had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who had 2+ partners in the last 12 months | All women |  | Women who had $2+$ partners in the last 12 months |  | Women who had intercourse in the last 12 months with a person who neither was their husband nor lived with them |  | Women who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual intercourse | 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 | 3.7 | 24.2 | 6,188 | 35.5 | 227 | 42.6 | 1,498 | 2.0 | 3,669 |
| 15-19 | 1.5 | 17.5 | 3,125 | 30.7 | 48 | 46.3 | 546 | 1.6 | 1,029 |
| 20-24 | 5.8 | 31.1 | 3,063 | 36.8 | 179 | 40.4 | 952 | 2.1 | 2,640 |
| 25-29 | 4.7 | 19.9 | 2,916 | 13.4 | 137 | 35.2 | 581 | 2.5 | 2,825 |
| 30-39 | 3.2 | 14.8 | 4,652 | 15.6 | 147 | 29.2 | 688 | 2.4 | 4,541 |
| 40-49 | 2.4 | 12.4 | 2,960 | 26.0 | 72 | 29.3 | 367 | 2.5 | 2,912 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 4.3 | 35.8 | 5,348 | 39.2 | 232 | 38.0 | 1,913 | 2.4 | 2,715 |
| Married/living together | 2.2 | 2.7 | 9,319 | 4.8 | 208 | 44.7 | 255 | 2.1 | 9,229 |
| Divorced/separated/widowed | 6.9 | 47.1 | 2,049 | 27.7 | 142 | 32.1 | 966 | 3.1 | 2,003 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 4.3 | 22.5 | 6,850 | 29.1 | 292 | 39.9 | 1,543 | 2.5 | 5,752 |
| Rural | 2.9 | 16.1 | 9,866 | 19.1 | 290 | 33.6 | 1,591 | 2.2 | 8,195 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| No education | 1.6 | 7.0 | 920 | * | 15 | 23.6 | 64 | 1.6 | 870 |
| Primary | 3.3 | 16.3 | 6,107 | 21.2 | 204 | 32.1 | 993 | 2.4 | 5,371 |
| Secondary | 3.0 | 18.4 | 6,320 | 22.7 | 188 | 39.3 | 1,164 | 2.2 | 4,666 |
| More than secondary | 5.3 | 27.2 | 3,208 | 31.5 | 172 | 39.9 | 872 | 2.6 | 2,892 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 2.5 | 13.7 | 2,599 | 16.5 | 64 | 29.1 | 356 | 1.9 | 2,168 |
| Second | 2.9 | 16.6 | 2,974 | 14.8 | 88 | 40.7 | 494 | 2.2 | 2,414 |
| Middle | 3.2 | 18.4 | 3,086 | 21.8 | 100 | 33.7 | 567 | 2.3 | 2,549 |
| Fourth | 3.7 | 20.1 | 3,729 | 28.4 | 139 | 37.2 | 751 | 2.4 | 3,197 |
| Highest | 4.4 | 22.3 | 4,328 | 29.0 | 192 | 38.9 | 966 | 2.6 | 3,620 |
| Total | 3.5 | 18.7 | 16,716 | 24.1 | 582 | 36.7 | 3,134 | 2.3 | 13,948 |

[^5]Table 24C. 1 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months by county: Women
Among all women age 15-49, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them; among women having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among women who had sexual intercourse in the last 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to county, Kenya DHS 2022

| County | All women |  |  | Women who had 2+ partners in the last 12 months |  | Women who had intercourse in the last 12 months with a person who neither was their husband nor lived with them |  | Women who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the last 12 months | Percentage who had intercourse in the last 12 months with a person who neither was their husband nor lived with them | Number of women | Percentage who reported using a condom during last sexual intercourse | 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 |
| Mombasa | 2.1 | 14.6 | 494 | * | 11 | 49.7 | 72 | 1.9 | 401 |
| Kwale | 0.5 | 7.8 | 260 | * | 1 | (12.3) | 20 | 1.3 | 195 |
| Kilifi | 4.7 | 19.9 | 489 | * | 23 | 30.7 | 97 | 2.2 | 379 |
| Tana River | 0.5 | 3.9 | 80 | * | 0 | * | 3 | 1.5 | 67 |
| Lamu | 3.8 | 11.2 | 54 | * | 2 | (36.4) | 6 | 2.3 | 43 |
| Taita Taveta | 1.4 | 18.7 | 122 | * | 2 | (33.9) | 23 | 2.2 | 105 |
| Garissa | 3.0 | 4.3 | 163 | * | 5 | * | 7 | 1.3 | 111 |
| Wajir | 0.8 | 0.8 | 90 | * | 1 | * | 1 | 1.3 | 61 |
| Mandera | 0.0 | 0.5 | 113 | * | 0 | * | 1 | 1.3 | 85 |
| Marsabit | 2.4 | 2.5 | 72 | * | 2 | ** | 2 | 1.2 | 61 |
| Isiolo | 3.3 | 9.3 | 77 | * | 3 | (28.1) | 7 | 2.0 | 58 |
| Meru | 2.3 | 20.2 | 488 | * | 11 | 22.1 | 99 | 2.2 | 423 |
| Tharaka-Nithi | 1.4 | 10.7 | 132 | * | 2 | (49.0) | 14 | 1.8 | 120 |
| Embu | 2.7 | 13.2 | 180 | * | 5 | (29.8) | 24 | 2.1 | 151 |
| Kitui | 3.0 | 11.8 | 374 | * | 11 | (12.0) | 44 | 2.6 | 296 |
| Machakos | 3.4 | 17.8 | 544 | * | 19 | 32.9 | 97 | 2.5 | 443 |
| Makueni | 1.5 | 13.8 | 356 |  | 5 | 23.0 | 49 | 2.2 | 292 |
| Nyandarua | 1.4 | 13.1 | 225 | * | 3 | (19.7) | 30 | 2.7 | 177 |
| Nyeri | 2.0 | 19.6 | 261 | * | 5 | 32.6 | 51 | 2.6 | 217 |
| Kirinyaga | 2.7 | 20.2 | 262 | * | 7 | 24.9 | 53 | 2.5 | 224 |
| Murang'a | 11.0 | 27.7 | 339 | (19.6) | 37 | 43.4 | 94 | 3.3 | 276 |
| Kiambu | 5.8 | 22.8 | 1095 |  | 63 | 30.4 | 250 | 2.6 | 917 |
| Turkana | 0.9 | 7.0 | 172 | * | 2 | (28.0) | 12 | 1.4 | 147 |
| West Pokot | 0.9 | 13.4 | 197 | * | 2 | 5.3 | 26 | 1.5 | 179 |
| Samburu | 0.8 | 21.1 | 79 | * | 1 | 25.4 | 17 | 1.9 | 74 |
| Trans Nzoia | 1.2 | 16.1 | 359 | * | 4 | 34.4 | 58 | 2.1 | 298 |
| Uasin Gishu | 3.7 | 24.5 | 527 | * | 19 | 45.1 | 129 | 2.5 | 452 |
| Elgeyo Marakwet | 3.2 | 22.1 | 116 | * | 4 | 41.1 | 26 | 2.6 | 106 |
| Nandi | 1.4 | 25.0 | 332 | * | 5 | 31.0 | 83 | 2.1 | 274 |
| Baringo | 3.4 | 18.0 | 193 | * | 7 | 25.0 | 35 | 2.2 | 162 |
| Laikipia | 4.6 | 20.5 | 173 | * | 8 | 36.4 | 36 | 2.3 | 141 |
| Nakuru | 1.9 | 19.9 | 862 | * | 16 | 41.6 | 172 | 2.2 | 772 |
| Narok | 4.7 | 19.1 | 374 | * | 18 | 39.1 | 71 | 2.1 | 337 |
| Kajiado | 3.0 | 20.6 | 451 | * | 14 | 36.7 | 93 | 2.2 | 401 |
| Kericho | 6.5 | 27.9 | 372 | (16.9) | 24 | 29.5 | 104 | 2.6 | 330 |
| Bomet | 1.3 | 10.5 | 327 | * | 4 | 45.7 | 35 | 1.6 | 262 |
| Kakamega | 1.5 | 16.5 | 652 | * | 10 | 43.6 | 108 | 2.4 | 545 |
| Vihiga | 0.7 | 13.5 | 201 | * | 1 | 40.3 | 27 | 1.9 | 143 |
| Bungoma | 5.5 | 23.6 | 572 | * | 32 | 43.2 | 135 | 2.8 | 483 |
| Busia | 6.2 | 17.3 | 336 | (23.4) | 21 | 29.0 | 58 | 2.8 | 262 |
| Siaya | 3.1 | 15.1 | 275 | * | 9 | 37.7 | 42 | 3.0 | 221 |
| Kisumu | 3.8 | 18.4 | 396 | * | 15 | 46.9 | 73 | 2.2 | 321 |
| Homa Bay | 4.3 | 21.2 | 344 | * | 15 | 62.6 | 73 | 2.4 | 297 |
| Migori | 4.6 | 19.0 | 350 | * | 16 | 42.6 | 66 | 2.4 | 300 |
| Kisii | 3.1 | 19.8 | 463 | * | 14 | 40.3 | 92 | 2.2 | 402 |
| Nyamira | 1.2 | 19.9 | 169 | * | 2 | 45.0 | 34 | 2.4 | 143 |
| Nairobi City | 4.8 | 22.7 | 2157 | * | 103 | 39.7 | 491 | 2.6 | 1793 |
| Total | 3.5 | 18.7 | 16,716 | 24.1 | 582 | 36.7 | 3,134 | 2.3 | 13,948 |

Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. 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 24.2 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months: Men
Among all men age 15-49, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their wife nor lived with them; among men having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among men who had sexual intercourse in the last 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among men who ever had sexual intercourse, mean number of sexual partners during their lifetime according to background characteristics, Kenya DHS 2022

| Background characteristic | All men |  |  | Men who had 2+ partners in the last 12 months |  | Men who had intercourse in the last 12 months with a person who neither was their wife nor lived with them |  | Men who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the last 12 months | Percentage who had inter- <br> course in the last 12 months with a person who neither was their wife nor lived with them | Number of men | Percentage who reported using a condom during last sexual intercourse | Number of men | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of men | Mean number of sexual partners in lifetime | Number of men |
| Age |  |  |  |  |  |  |  |  |  |
| 15-24 | 12.2 | 40.8 | 5,579 | 63.5 | 682 | 69.6 | 2,275 | 5.1 | 3,342 |
| 15-19 | 5.3 | 25.2 | 3,175 | 62.2 | 170 | 67.0 | 801 | 3.1 | 1,259 |
| 20-24 | 21.3 | 61.3 | 2,404 | 64.0 | 512 | 71.1 | 1,474 | 6.3 | 2,083 |
| 25-29 | 21.7 | 48.6 | 2,268 | 48.4 | 492 | 66.1 | 1,102 | 8.0 | 2,194 |
| 30-39 | 17.1 | 27.7 | 3,364 | 31.5 | 575 | 67.3 | 931 | 8.6 | 3,235 |
| 40-49 | 13.1 | 17.5 | 2,441 | 27.2 | 319 | 65.2 | 428 | 8.7 | 2,323 |
| Marital status |  |  |  |  |  |  |  |  |  |
| Never married | 13.8 | 48.9 | 6,576 | 69.5 | 909 | 67.4 | 3,219 | 6.1 | 4,258 |
| Married/living together | 15.0 | 15.1 | 6,257 | 19.7 | 939 | 72.6 | 945 | 7.7 | 6,050 |
| Divorced/separated/ widowed | 26.7 | 69.9 | 819 | 55.9 | 219 | 63.4 | 573 | 12.5 | 785 |
| Type of union |  |  |  |  |  |  |  |  |  |
| In polygynous union | 51.2 | 16.2 | 285 | 8.3 | 146 | 59.4 | 46 | 12.3 | 269 |
| Not in polygynous union | 13.3 | 15.0 | 5,973 | 21.8 | 794 | 73.3 | 898 | 7.5 | 5,781 |
| Not currently in union | 15.3 | 51.3 | 7,395 | 66.8 | 1,128 | 66.8 | 3,792 | 7.1 | 5,043 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | 17.2 | 37.0 | 5,382 | 47.9 | 927 | 67.0 | 1,991 | 8.2 | 4,574 |
| Rural | 13.8 | 33.2 | 8,270 | 43.4 | 1,140 | 68.7 | 2,746 | 6.9 | 6,520 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| No education | 14.8 | 19.5 | 369 | 11.4 | 54 | 37.4 | 72 | 5.8 | 320 |
| Primary | 15.0 | 29.7 | 4,894 | 36.2 | 735 | 65.2 | 1,456 | 7.9 | 3,911 |
| Secondary | 12.7 | 35.2 | 5,386 | 48.8 | 685 | 68.6 | 1,897 | 6.5 | 4,055 |
| More than secondary | 20.1 | 43.4 | 2,797 | 56.8 | 563 | 71.9 | 1,215 | 8.4 | 2,616 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |
| Lowest | 15.6 | 32.2 | 2,062 | 33.1 | 321 | 62.4 | 663 | 7.0 | 1,598 |
| Second | 12.3 | 33.5 | 2,584 | 45.5 | 318 | 70.2 | 865 | 6.6 | 2,032 |
| Middle | 14.4 | 34.4 | 2,754 | 48.8 | 397 | 69.7 | 947 | 7.4 | 2,191 |
| Fourth | 16.9 | 36.9 | 3,325 | 45.9 | 561 | 65.2 | 1,226 | 7.6 | 2,796 |
| Highest | 16.1 | 35.4 | 2,927 | 50.4 | 471 | 71.4 | 1,035 | 8.2 | 2,477 |
| Total 15-49 | 15.1 | 34.7 | 13,652 | 45.4 | 2,067 | 68.0 | 4,736 | 7.4 | 11,093 |
| 50-54 | 9.9 | 14.2 | 801 | 16.0 | 79 | 65.1 | 114 | 9.9 | 758 |
| Total 15-54 | 14.9 | 33.6 | 14,453 | 44.3 | 2,147 | 67.9 | 4,850 | 7.6 | 11,851 |

${ }^{1}$ Means are calculated excluding respondents who gave non-numeric responses.
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 24C. 2 Multiple sexual partners and higher-risk sexual intercourse in the last 12 months by county: Men
Among all men age 15-49, percentage who had sexual intercourse with more than one sexual partner in the last 12 months and percentage who had intercourse in the last 12 months with a person who neither was their wife nor lived with them; among men having more than one partner in the last 12 months, percentage reporting that a condom was used during last intercourse; among men who had sexual intercourse in the last 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among men who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to county, Kenya DHS 2022

| County | All men |  |  | Men who had 2+ partners in the last 12 months |  | Men who had intercourse in the last 12 months with a person who neither was their wife nor lived with them |  | Men who ever had sexual intercourse ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who had 2+ partners in the last 12 months | Percentage who had intercourse in the last 12 months with a person who neither was their wife nor lived with them | Number of men | Percentage who reported using a condom during last sexual intercourse | Number of men | Percentage who reported using a condom during last sexual intercourse with such a partner | Number of men | Mean number of sexual partners in lifetime | Number of men |
| Mombasa | 20.9 | 36.7 | 442 | 46.7 | 93 | 68.7 | 162 | 6.6 | 379 |
| Kwale | 13.7 | 35.1 | 209 | (36.6) | 29 | 58.8 | 73 | 7.0 | 150 |
| Kilifi | 16.9 | 38.2 | 405 | 38.0 | 68 | 65.7 | 155 | 5.7 | 323 |
| Tana River | 6.1 | 6.8 | 64 | * | 4 | * | 4 | 2.4 | 44 |
| Lamu | 7.7 | 20.3 | 41 | * | 3 | (44.6) | 8 | 4.0 | 31 |
| Taita Taveta | 16.0 | 36.8 | 103 | (43.5) | 17 | 67.3 | 38 | 7.3 | 76 |
| Garissa | 2.3 | 3.4 | 117 |  | 3 | * | 4 | 2.3 | 67 |
| Wajir | 6.6 | 17.9 | 63 | * | 4 | 54.3 | 11 | 1.8 | 40 |
| Mandera | 8.1 | 3.9 | 81 | (4.9) | 7 | * | 3 | 1.5 | 45 |
| Marsabit | 9.5 | 24.2 | 45 |  | 4 | (57.3) | 11 | 4.2 | 35 |
| Isiolo | 18.9 | 32.6 | 55 | (57.7) | 10 | 78.4 | 18 | 7.1 | 48 |
| Meru | 11.2 | 31.0 | 489 | (36.3) | 55 | 58.9 | 151 | 7.5 | 384 |
| Tharaka-Nithi | 20.1 | 41.3 | 137 | 27.8 | 27 | 66.6 | 57 | 12.3 | 123 |
| Embu | 25.5 | 36.0 | 176 | 42.4 | 45 | 55.4 | 63 | 6.6 | 147 |
| Kitui | 6.6 | 28.9 | 312 |  | 21 | 73.5 | 90 | 4.8 | 255 |
| Machakos | 18.5 | 37.1 | 480 | 52.7 | 89 | 74.3 | 178 | 9.2 | 390 |
| Makueni | 16.4 | 36.4 | 279 | 67.4 | 46 | 81.8 | 102 | 6.7 | 233 |
| Nyandarua | 16.0 | 30.5 | 169 | (61.1) | 27 | 77.8 | 52 | 7.6 | 126 |
| Nyeri | 6.9 | 32.8 | 235 |  | 16 | 68.3 | 77 | 6.0 | 189 |
| Kirinyaga | 1.6 | 24.9 | 191 | * | 3 | 72.2 | 48 | 3.7 | 153 |
| Murang'a | 22.6 | 43.3 | 297 | 45.4 | 67 | 69.7 | 129 | 14.1 | 253 |
| Kiambu | 17.7 | 33.4 | 911 | (36.1) | 161 | 64.2 | 304 | 8.2 | 710 |
| Turkana | 5.0 | 18.2 | 111 |  | 6 | (41.9) | 20 | 6.8 | 95 |
| West Pokot | 27.2 | 44.5 | 150 | 23.5 | 41 | 47.5 | 67 | 7.3 | 145 |
| Samburu | 21.1 | 33.9 | 51 | (39.0) | 11 | 65.4 | 17 | 6.8 | 39 |
| Trans Nzoia | 7.6 | 31.8 | 272 | * | 21 | 80.3 | 87 | 6.7 | 216 |
| Uasin Gishu | 19.2 | 45.0 | 451 | 61.0 | 87 | 81.4 | 203 | 7.7 | 391 |
| Elgeyo Marakwet | 28.5 | 49.4 | 110 | 49.9 | 32 | 65.9 | 55 | 10.2 | 102 |
| Nandi | 15.1 | 41.0 | 265 | 66.3 | 40 | 88.2 | 109 | 6.0 | 231 |
| Baringo | 8.2 | 27.7 | 165 | (46.6) | 14 | 83.0 | 46 | 7.7 | 130 |
| Laikipia | 13.8 | 39.2 | 145 | (39.5) | 20 | 69.6 | 57 | 7.5 | 123 |
| Nakuru | 9.5 | 22.3 | 670 | (30.6) | 64 | 70.1 | 149 | 7.1 | 515 |
| Narok | 42.5 | 61.9 | 314 | 29.3 | 133 | 64.5 | 194 | 8.0 | 284 |
| Kajiado | 11.3 | 33.2 | 339 | (34.1) | 38 | 52.4 | 112 | 7.7 | 275 |
| Kericho | 2.2 | 38.1 | 330 | * | 7 | 61.1 | 126 | 4.0 | 300 |
| Bomet | 14.3 | 34.0 | 268 | 36.3 | 38 | 67.6 | 91 | 3.8 | 225 |
| Kakamega | 5.6 | 20.3 | 532 | * | 30 | 67.7 | 108 | 7.6 | 365 |
| Vihiga | 6.9 | 30.3 | 156 | (54.9) | 11 | 67.6 | 47 | 6.7 | 114 |
| Bungoma | 14.6 | 36.2 | 448 | (58.4) | 66 | 68.9 | 162 | 6.2 | 320 |
| Busia | 14.8 | 32.0 | 262 | (32.7) | 39 | 64.7 | 84 | 8.4 | 185 |
| Siaya | 13.2 | 22.8 | 228 | (40.4) | 30 | 88.2 | 52 | 7.1 | 162 |
| Kisumu | 19.7 | 37.6 | 345 | 48.7 | 68 | 84.6 | 130 | 9.6 | 272 |
| Homa Bay | 15.9 | 34.9 | 258 | (58.1) | 41 | 88.8 | 90 | 7.7 | 223 |
| Migori | 28.7 | 44.1 | 246 | 41.5 | 71 | 63.2 | 108 | 7.5 | 221 |
| Kisii | 6.4 | 22.2 | 326 | * | 21 | 86.6 | 72 | 4.6 | 267 |
| Nyamira | 13.1 | 28.9 | 133 | (55.7) | 17 | 80.5 | 38 | 5.5 | 107 |
| Nairobi City | 18.4 | 43.6 | 1,777 | 52.5 | 326 | 58.3 | 775 | 9.3 | 1,586 |
| Total 15-49 | 15.1 | 34.7 | 13,652 | 45.4 | 2,067 | 68.0 | 4,736 | 7.4 | 11,093 |

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.

### 3.17.4 Prior HIV Testing

HIV testing services function as the entry point to HIV prevention, care, and treatment. This is important since those newly diagnosed with HIV are linked to care and start antiretroviral therapy and those who test HIV negative are linked to age-appropriate HIV prevention services.

Tables 25.1, 25C.1, 25.2, and 25C. 2 present information on coverage of prior HIV testing among women and men age 15-49 by background characteristics.

- A greater percentage of women (85\%) than men (73\%) have ever been tested for HIV.
- In the 12 months preceding the survey, $47 \%$ of women and $39 \%$ of men were tested for HIV and received the results of the last test.
- The percentages of respondents who were tested in the last 12 months and received the test results vary widely by county, from a low of $5 \%$ in Mandera to a high of $72 \%$ in Turkana among women and from a low of $15 \%$ in Tana River and Wajir to a high of $59 \%$ in Kisumu among men.


## Table 25.1 Coverage of prior HIV testing: Women

Percent distribution of women age 15-49 by HIV testing status and by whether they received the results of the last test, percentage of women ever tested, and percentage of women who were tested in the last 12 months and received the results of the last test, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percent distribution of women by testing status and by whether they received the results of the last test |  |  | Total | Percentage ever tested | Percentage who were tested for HIV in the last 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 | 67.0 | 0.6 | 32.4 | 100.0 | 67.6 | 40.2 | 6,188 |
| 15-19 | 46.6 | 0.8 | 52.6 | 100.0 | 47.4 | 25.2 | 3,125 |
| 20-24 | 87.9 | 0.4 | 11.8 | 100.0 | 88.2 | 55.5 | 3,063 |
| 25-29 | 96.9 | 0.6 | 2.5 | 100.0 | 97.5 | 60.1 | 2,916 |
| 30-39 | 96.0 | 0.8 | 3.2 | 100.0 | 96.8 | 50.8 | 4,652 |
| 40-49 | 92.5 | 0.6 | 6.9 | 100.0 | 93.1 | 40.9 | 2,960 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 62.9 | 0.6 | 36.6 | 100.0 | 63.4 | 35.3 | 5,348 |
| Ever had sex | 84.9 | 0.4 | 14.7 | 100.0 | 85.3 | 52.1 | 2,775 |
| Never had sex | 39.1 | 0.7 | 60.2 | 100.0 | 39.8 | 17.3 | 2,573 |
| Married or living together | 95.1 | 0.7 | 4.2 | 100.0 | 95.8 | 52.0 | 9,319 |
| Divorced/separated/widowed | 95.4 | 0.5 | 4.1 | 100.0 | 95.9 | 52.8 | 2,049 |
| Residence |  |  |  |  |  |  |  |
| Urban | 88.4 | 0.5 | 11.1 | 100.0 | 88.9 | 49.7 | 6,850 |
| Rural | 82.3 | 0.7 | 16.9 | 100.0 | 83.1 | 44.7 | 9,866 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |
| No education | 72.3 | 1.4 | 26.4 | 100.0 | 73.6 | 32.4 | 920 |
| Primary | 86.1 | 0.7 | 13.1 | 100.0 | 86.9 | 45.4 | 6,107 |
| Secondary | 81.1 | 0.7 | 18.2 | 100.0 | 81.8 | 46.5 | 6,320 |
| More than secondary | 92.7 | 0.2 | 7.1 | 100.0 | 92.9 | 54.0 | 3,208 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 75.4 | 0.9 | 23.7 | 100.0 | 76.3 | 38.6 | 2,599 |
| Second | 80.7 | 1.0 | 18.3 | 100.0 | 81.7 | 43.3 | 2,974 |
| Middle | 85.9 | 0.6 | 13.5 | 100.0 | 86.5 | 48.2 | 3,086 |
| Fourth | 89.9 | 0.3 | 9.8 | 100.0 | 90.2 | 51.8 | 3,729 |
| Highest | 88.1 | 0.6 | 11.3 | 100.0 | 88.7 | 48.7 | 4,328 |
| Total | 84.8 | 0.6 | 14.6 | 100.0 | 85.4 | 46.8 | 16,716 |

[^6]Table 25C. 1 Coverage of prior HIV testing by county: Women
Percent distribution of women age $15-49$ by HIV testing status and by whether they received the results of the last test, percentage of women ever tested, and percentage of women who were tested in the last 12 months and received the results of the last test, according to county, Kenya DHS 2022

| County | Percent distribution of women by testing status and by whether they received the results of the last test |  |  |  |  | Percentage who were tested for HIV in the last 12 months and received the results of the last test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever tested and received results | Ever tested did not receive results | Never tested ${ }^{1}$ | Total | Percentage ever tested |  | Number of women |
| Mombasa | 89.9 | 0.4 | 9.7 | 100.0 | 90.3 | 49.0 | 494 |
| Kwale | 73.5 | 0.0 | 26.5 | 100.0 | 73.5 | 38.5 | 260 |
| Kilifi | 82.7 | 0.4 | 17.0 | 100.0 | 83.0 | 39.8 | 489 |
| Tana River | 73.2 | 0.4 | 26.4 | 100.0 | 73.6 | 29.3 | 80 |
| Lamu | 80.2 | 0.6 | 19.2 | 100.0 | 80.8 | 35.5 | 54 |
| Taita Taveta | 91.9 | 0.5 | 7.7 | 100.0 | 92.3 | 45.3 | 122 |
| Garissa | 52.4 | 0.0 | 47.6 | 100.0 | 52.4 | 18.6 | 163 |
| Wajir | 49.2 | 0.0 | 50.8 | 100.0 | 49.2 | 16.7 | 90 |
| Mandera | 16.5 | 4.5 | 79.0 | 100.0 | 21.0 | 4.9 | 113 |
| Marsabit | 53.1 | 2.0 | 44.9 | 100.0 | 55.1 | 17.4 | 72 |
| Isiolo | 75.9 | 0.2 | 23.9 | 100.0 | 76.1 | 28.8 | 77 |
| Meru | 85.3 | 2.1 | 12.6 | 100.0 | 87.4 | 38.8 | 488 |
| Tharaka-Nithi | 91.6 | 0.6 | 7.8 | 100.0 | 92.2 | 49.6 | 132 |
| Embu | 86.4 | 0.2 | 13.4 | 100.0 | 86.6 | 39.0 | 180 |
| Kitui | 76.6 | 0.0 | 23.4 | 100.0 | 76.6 | 25.2 | 374 |
| Machakos | 86.5 | 1.4 | 12.1 | 100.0 | 87.9 | 46.2 | 544 |
| Makueni | 85.0 | 0.5 | 14.5 | 100.0 | 85.5 | 53.5 | 356 |
| Nyandarua | 82.7 | 1.4 | 15.9 | 100.0 | 84.1 | 46.8 | 225 |
| Nyeri | 90.0 | 0.5 | 9.5 | 100.0 | 90.5 | 55.6 | 261 |
| Kirinyaga | 91.6 | 0.6 | 7.8 | 100.0 | 92.2 | 48.8 | 262 |
| Murang'a | 92.2 | 1.1 | 6.7 | 100.0 | 93.3 | 51.7 | 339 |
| Kiambu | 90.1 | 1.0 | 8.9 | 100.0 | 91.1 | 49.9 | 1,095 |
| Turkana | 92.0 | 0.0 | 8.0 | 100.0 | 92.0 | 71.7 | 172 |
| West Pokot | 79.0 | 1.3 | 19.8 | 100.0 | 80.2 | 37.6 | 197 |
| Samburu | 80.7 | 0.2 | 19.2 | 100.0 | 80.8 | 38.1 | 79 |
| Trans Nzoia | 81.5 | 0.0 | 18.5 | 100.0 | 81.5 | 48.0 | 359 |
| Uasin Gishu | 84.9 | 1.1 | 14.0 | 100.0 | 86.0 | 46.8 | 527 |
| Elgeyo Marakwet | 88.4 | 0.7 | 10.9 | 100.0 | 89.1 | 45.2 | 116 |
| Nandi | 79.9 | 0.3 | 19.8 | 100.0 | 80.2 | 42.4 | 332 |
| Baringo | 80.3 | 1.1 | 18.6 | 100.0 | 81.4 | 37.1 | 193 |
| Laikipia | 88.2 | 0.0 | 11.8 | 100.0 | 88.2 | 46.8 | 173 |
| Nakuru | 86.3 | 0.7 | 13.0 | 100.0 | 87.0 | 42.7 | 862 |
| Narok | 84.1 | 0.9 | 15.0 | 100.0 | 85.0 | 48.5 | 374 |
| Kajiado | 86.1 | 0.7 | 13.1 | 100.0 | 86.9 | 48.4 | 451 |
| Kericho | 81.8 | 3.0 | 15.2 | 100.0 | 84.8 | 36.8 | 372 |
| Bomet | 81.9 | 0.6 | 17.5 | 100.0 | 82.5 | 43.8 | 327 |
| Kakamega | 82.8 | 0.0 | 17.2 | 100.0 | 82.8 | 45.0 | 652 |
| Vihiga | 76.5 | 0.3 | 23.1 | 100.0 | 76.9 | 44.4 | 201 |
| Bungoma | 74.3 | 1.3 | 24.5 | 100.0 | 75.5 | 39.3 | 572 |
| Busia | 77.9 | 0.3 | 21.8 | 100.0 | 78.2 | 46.2 | 336 |
| Siaya | 87.7 | 0.4 | 11.9 | 100.0 | 88.1 | 59.2 | 275 |
| Kisumu | 95.1 | 0.0 | 4.9 | 100.0 | 95.1 | 66.5 | 396 |
| Homa Bay | 93.1 | 0.7 | 6.2 | 100.0 | 93.8 | 66.3 | 344 |
| Migori | 91.3 | 0.5 | 8.2 | 100.0 | 91.8 | 59.1 | 350 |
| Kisii | 91.5 | 0.3 | 8.3 | 100.0 | 91.7 | 63.5 | 463 |
| Nyamira | 88.3 | 0.4 | 11.4 | 100.0 | 88.6 | 56.2 | 169 |
| Nairobi City | 90.1 | 0.1 | 9.8 | 100.0 | 90.2 | 50.3 | 2,157 |
| Total | 84.8 | 0.6 | 14.6 | 100.0 | 85.4 | 46.8 | 16,716 |

Note: Data for this table were collected in the woman's full questionnaire but not in the short questionnaire.
${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing

Table 25.2 Coverage of prior HIV testing: Men
Percent distribution of men age $15-49$ by HIV testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men who were tested in the last 12 months and received the results of the last test, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percent distribution of men by testing status and by whether they received the results of the last test |  |  | Total | Percentage ever tested | Percentage who were tested for HIV in the last 12 months and received the results of the last test | Number of men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |
| 15-24 | 49.9 | 0.6 | 49.5 | 100.0 | 50.5 | 25.0 | 5,579 |
| 15-19 | 32.5 | 0.8 | 66.7 | 100.0 | 33.3 | 12.3 | 3,175 |
| 20-24 | 72.9 | 0.3 | 26.8 | 100.0 | 73.2 | 41.8 | 2,404 |
| 25-29 | 89.1 | 0.4 | 10.6 | 100.0 | 89.4 | 55.6 | 2,268 |
| 30-39 | 89.3 | 0.3 | 10.4 | 100.0 | 89.6 | 49.3 | 3,364 |
| 40-49 | 84.8 | 0.4 | 14.9 | 100.0 | 85.1 | 40.5 | 2,441 |
| Marital status |  |  |  |  |  |  |  |
| Never married | 55.0 | 0.5 | 44.5 | 100.0 | 55.5 | 28.1 | 6,576 |
| Ever had sex | 68.8 | 0.4 | 30.8 | 100.0 | 69.2 | 37.8 | 4,303 |
| Never had sex | 28.8 | 0.8 | 70.4 | 100.0 | 29.6 | 9.7 | 2,273 |
| Married or living together | 89.0 | 0.4 | 10.6 | 100.0 | 89.4 | 49.6 | 6,257 |
| Divorced/separated/widowed | 84.5 | 0.3 | 15.2 | 100.0 | 84.8 | 43.5 | 819 |
| Residence |  |  |  |  |  |  |  |
| Urban | 82.0 | 0.3 | 17.7 | 100.0 | 82.3 | 44.7 | 5,382 |
| Rural | 66.0 | 0.5 | 33.4 | 100.0 | 66.6 | 35.1 | 8,270 |
| Education ${ }^{2}$ |  |  |  |  |  |  |  |
| No education | 56.6 | 0.1 | 43.3 | 100.0 | 56.7 | 28.6 | 369 |
| Primary | 66.6 | 0.6 | 32.8 | 100.0 | 67.2 | 32.1 | 4,894 |
| Secondary | 68.8 | 0.5 | 30.7 | 100.0 | 69.3 | 36.7 | 5,386 |
| More than secondary | 90.5 | 0.1 | 9.4 | 100.0 | 90.6 | 55.5 | 2,797 |
| Wealth quintile |  |  |  |  |  |  |  |
| Lowest | 58.7 | 0.5 | 40.8 | 100.0 | 59.2 | 29.4 | 2,062 |
| Second | 64.9 | 0.5 | 34.7 | 100.0 | 65.3 | 34.1 | 2,584 |
| Middle | 68.5 | 0.5 | 31.1 | 100.0 | 68.9 | 36.3 | 2,754 |
| Fourth | 80.2 | 0.6 | 19.2 | 100.0 | 80.8 | 44.2 | 3,325 |
| Highest | 83.3 | 0.2 | 16.5 | 100.0 | 83.5 | 46.1 | 2,927 |
| Total 15-49 | 72.3 | 0.4 | 27.2 | 100.0 | 72.8 | 38.9 | 13,652 |
| 50-54 | 85.6 | 0.5 | 13.9 | 100.0 | 86.1 | 39.3 | 801 |
| Total 15-54 | 73.1 | 0.5 | 26.5 | 100.0 | 73.5 | 38.9 | 14,453 |

${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 25C. 2 Coverage of prior HIV testing by county: Men
Percent distribution of men age 15-49 by HIV testing status and by whether they received the results of the last test, percentage of men ever tested, and percentage of men who were tested in the last 12 months and received the results of the last test, according to county, Kenya DHS 2022

| County | Percent distribution of men by testing status and by whether they received the results of the last test |  |  |  |  | Percentage who were tested for HIV in the last 12 months and received the results of the last test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever tested and received results | Ever tested, did not receive results | Never tested ${ }^{1}$ | Total | Percentage ever tested |  | $\begin{gathered} \text { Number of } \\ \text { men } \end{gathered}$ |
| Mombasa | 80.2 | 0.4 | 19.4 | 100.0 | 80.6 | 44.3 | 442 |
| Kwale | 65.2 | 0.5 | 34.3 | 100.0 | 65.7 | 40.0 | 209 |
| Kilifi | 64.8 | 0.7 | 34.5 | 100.0 | 65.5 | 34.3 | 405 |
| Tana River | 53.3 | 0.1 | 46.6 | 100.0 | 53.4 | 14.6 | 64 |
| Lamu | 68.1 | 0.0 | 31.9 | 100.0 | 68.1 | 37.5 | 41 |
| Taita Taveta | 76.0 | 0.0 | 24.0 | 100.0 | 76.0 | 45.6 | 103 |
| Garissa | 51.6 | 0.0 | 48.4 | 100.0 | 51.6 | 24.4 | 117 |
| Wajir | 38.8 | 0.7 | 60.5 | 100.0 | 39.5 | 14.9 | 63 |
| Mandera | 45.9 | 0.2 | 53.9 | 100.0 | 46.1 | 24.3 | 81 |
| Marsabit | 61.8 | 0.3 | 37.9 | 100.0 | 62.1 | 25.3 | 45 |
| Isiolo | 73.0 | 0.7 | 26.3 | 100.0 | 73.7 | 39.6 | 55 |
| Meru | 69.5 | 0.0 | 30.5 | 100.0 | 69.5 | 31.1 | 489 |
| Tharaka-Nithi | 69.9 | 0.3 | 29.8 | 100.0 | 70.2 | 33.9 | 137 |
| Embu | 68.7 | 0.3 | 30.9 | 100.0 | 69.1 | 35.1 | 176 |
| Kitui | 59.6 | 0.0 | 40.4 | 100.0 | 59.6 | 29.6 | 312 |
| Machakos | 76.9 | 0.0 | 23.1 | 100.0 | 76.9 | 34.8 | 480 |
| Makueni | 76.7 | 1.0 | 22.3 | 100.0 | 77.7 | 41.0 | 279 |
| Nyandarua | 68.0 | 1.3 | 30.6 | 100.0 | 69.4 | 34.8 | 169 |
| Nyeri | 77.7 | 0.8 | 21.5 | 100.0 | 78.5 | 40.2 | 235 |
| Kirinyaga | 75.4 | 0.0 | 24.6 | 100.0 | 75.4 | 35.7 | 191 |
| Murang'a | 78.0 | 2.6 | 19.5 | 100.0 | 80.5 | 42.0 | 297 |
| Kiambu | 76.1 | 0.6 | 23.3 | 100.0 | 76.7 | 31.7 | 911 |
| Turkana | 72.7 | 0.0 | 27.3 | 100.0 | 72.7 | 49.6 | 111 |
| West Pokot | 61.4 | 0.1 | 38.6 | 100.0 | 61.4 | 34.1 | 150 |
| Samburu | 68.6 | 0.0 | 31.4 | 100.0 | 68.6 | 41.4 | 51 |
| Trans Nzoia | 65.8 | 0.3 | 33.8 | 100.0 | 66.2 | 33.4 | 272 |
| Uasin Gishu | 79.0 | 0.2 | 20.8 | 100.0 | 79.2 | 44.9 | 451 |
| Elgeyo Marakwet | 65.6 | 1.2 | 33.1 | 100.0 | 66.9 | 38.8 | 110 |
| Nandi | 51.2 | 2.6 | 46.2 | 100.0 | 53.8 | 28.1 | 265 |
| Baringo | 52.1 | 0.5 | 47.4 | 100.0 | 52.6 | 26.3 | 165 |
| Laikipia | 73.5 | 0.7 | 25.8 | 100.0 | 74.2 | 33.7 | 145 |
| Nakuru | 60.1 | 0.3 | 39.7 | 100.0 | 60.3 | 30.5 | 670 |
| Narok | 74.9 | 0.0 | 25.1 | 100.0 | 74.9 | 55.3 | 314 |
| Kajiado | 75.5 | 0.0 | 24.5 | 100.0 | 75.5 | 35.7 | 339 |
| Kericho | 69.7 | 0.9 | 29.3 | 100.0 | 70.7 | 38.3 | 330 |
| Bomet | 72.6 | 0.5 | 26.9 | 100.0 | 73.1 | 35.6 | 268 |
| Kakamega | 55.4 | 0.0 | 44.6 | 100.0 | 55.4 | 32.2 | 532 |
| Vihiga | 60.0 | 0.0 | 40.0 | 100.0 | 60.0 | 26.7 | 156 |
| Bungoma | 56.9 | 0.3 | 42.8 | 100.0 | 57.2 | 30.8 | 448 |
| Busia | 62.2 | 1.2 | 36.6 | 100.0 | 63.4 | 30.2 | 262 |
| Siaya | 78.1 | 0.0 | 21.9 | 100.0 | 78.1 | 42.7 | 228 |
| Kisumu | 84.0 | 0.3 | 15.7 | 100.0 | 84.3 | 59.0 | 345 |
| Homa Bay | 85.1 | 1.5 | 13.4 | 100.0 | 86.6 | 53.5 | 258 |
| Migori | 82.4 | 0.5 | 17.1 | 100.0 | 82.9 | 53.7 | 246 |
| Kisii | 80.7 | 0.3 | 19.0 | 100.0 | 81.0 | 47.2 | 326 |
| Nyamira | 73.6 | 0.0 | 26.4 | 100.0 | 73.6 | 44.0 | 133 |
| Nairobi City | 89.1 | 0.2 | 10.8 | 100.0 | 89.2 | 50.3 | 1,777 |
| Total | 72.3 | 0.4 | 27.2 | 100.0 | 72.8 | 38.9 | 13,652 |

${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing

### 3.18 Women's and Men's Ownership of a House or Land and Documentation of OWNERSHIP

Women's access to land and property with secure tenure is central to their economic empowerment as it serves as a base for income as well as collateral for credit (Kabeer 2009). Ownership and control of land and other assets by women and men enhance their ability to access economic resources at the societal level and confer additional economic value, status, and bargaining power at the household level. For women in particular, ownership of assets may provide protection in case of marital dissolution or abandonment, positively influence their position in their homes, and decrease their vulnerability to various forms of violence or discrimination. In the 2022 KDHS , respondents were asked if they own a house and agricultural and nonagricultural land alone, jointly with someone else, both alone and jointly, or not at all.

## Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with their spouse, someone else, or both their spouse and someone else.
Documentation of ownership of a house or land
Respondents whose name is on the title/deed or other government-recognized document.

Sample: Women age 15-49 and men age 15-54

### 3.18.1 House and Land Ownership

Table 26.1 presents details on house and land ownership among women age 15-49 according to marital status.

- Thirty-three percent of women own a house, including $5 \%$ who do so alone and $28 \%$ who own it jointly with their spouse or partner only.
- Twenty-five percent of women own agricultural land. Three percent own land alone, while $20 \%$ own land jointly with their spouse or partner only.
- Only $7 \%$ of women own nonagricultural land.

Table 26.1 House and land ownership: Women
Percent distribution of women age 15-49 by house and land ownership, according to current marital status, Kenya DHS 2022

| Ownership status | Marital status |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married/living together | Widowed | Divorced/ separated |  |
| HOUSE OWNERSHIP |  |  |  |  |  |
| Owns | 1.8 | 52.5 | 65.2 | 14.0 | 32.8 |
| Alone | 1.6 | 2.5 | 54.7 | 11.8 | 4.5 |
| Jointly with spouse/partner only | na | 49.1 | 9.4 | 1.5 | 27.7 |
| Jointly with someone else only | 0.0 | 0.2 | 0.6 | 0.6 | 0.2 |
| Jointly with spouse/partner and someone else | na | 0.6 | 0.4 | 0.0 | 0.3 |
| Both alone and jointly | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 |
| Does not own | 98.2 | 47.5 | 34.8 | 86.0 | 67.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 10,438 | 17,822 | 908 | 2,989 | 32,156 |
| AGRICULTURAL LAND OWNERSHIP |  |  |  |  |  |
| Owns | 1.7 | 39.4 | 48.6 | 10.7 | 24.8 |
| Alone | 1.4 | 1.6 | 37.3 | 7.8 | 3.1 |
| Jointly with spouse/partner only | na | 34.9 | 7.7 | 1.6 | 19.7 |
| Jointly with someone else only | 0.3 | 0.9 | 2.1 | 1.3 | 0.8 |
| Jointly with spouse/partner and someone else | na | 1.8 | 1.1 | 0.0 | 1.1 |
| Both alone and jointly | 0.1 | 0.2 | 0.4 | 0.0 | 0.1 |
| Does not own | 98.3 | 60.6 | 51.4 | 89.3 | 75.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 10,438 | 17,822 | 908 | 2,989 | 32,156 |
| NONAGRICULTURAL LAND OWNERSHIP |  |  |  |  |  |
| Owns | 1.1 | 10.2 | 11.5 | 4.1 | 6.7 |
| Alone | 0.9 | 0.9 | 10.0 | 3.1 | 1.4 |
| Jointly with spouse/partner only | na | 8.5 | 1.1 | 0.4 | 4.8 |
| Jointly with someone else only | 0.2 | 0.3 | 0.2 | 0.5 | 0.3 |
| Jointly with spouse/partner and someone else | na | 0.4 | 0.0 | 0.0 | 0.2 |
| Both alone and jointly | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Does not own | 98.9 | 89.8 | 88.5 | 95.9 | 93.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number of women | 10,438 | 17,822 | 908 | 2,989 | 32,156 |
| na $=$ not applicable |  |  |  |  |  |

Table 26.2 presents details on house and land ownership among men by marital status. Forty-five percent of men age 15-49 own a house, $31 \%$ own agricultural land, and $8 \%$ own nonagricultural land.

Table 26.2 House and land ownership: Men
Percent distribution of men age 15-49 by house and land ownership, according to current marital status, Kenya DHS 2022

| Ownership status | Marital status |  |  |  | Total 15-49 | 50-54 | Total 15-54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Never married | Married/living together | Widowed | Divorced/ separated |  |  |  |
| HOUSE OWNERSHIP |  |  |  |  |  |  |  |
| Owns | 18.3 | 70.1 | (76.5) | 60.1 | 44.6 | 88.7 | 47.0 |
| Alone | 16.1 | 51.0 | (76.5) | 58.3 | 34.7 | 63.1 | 36.3 |
| Jointly with spouse/partner only | na | 18.4 | (0.0) | 0.4 | 8.5 | 24.7 | 9.4 |
| Jointly with someone else only | 0.0 | 0.3 | (0.0) | 1.3 | 0.2 | 0.5 | 0.2 |
| Jointly with spouse/partner and someone else | na | 0.3 | (0.0) | 0.0 | 0.6 | 0.4 | 0.6 |
| Both alone and jointly | 1.3 | 0.1 | (0.0) | 0.1 | 0.7 | 0.0 | 0.6 |
| Does not own | 81.7 | 29.9 | (23.5) | 39.9 | 55.4 | 11.3 | 53.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 6,576 | 6,257 | 49 | 771 | 13,652 | 801 | 14,453 |
| AGRICULTURAL LAND OWNERSHIP |  |  |  |  |  |  |  |
| Owns | 8.7 | 53.3 | (60.5) | 42.2 | 31.2 | 73.3 | 33.6 |
| Alone | 6.3 | 41.5 | (57.5) | 35.8 | 24.3 | 58.6 | 26.2 |
| Jointly with spouse/partner only | na | 7.6 | (0.0) | 0.2 | 3.5 | 10.3 | 3.9 |
| Jointly with someone else only | 2.3 | 3.2 | (3.0) | 5.6 | 2.9 | 3.3 | 2.9 |
| Jointly with spouse/partner and someone else | Na | 0.9 | (0.0) | 0.0 | 0.4 | 1.1 | 0.5 |
| Both alone and jointly | 0.2 | 0.2 | (0.0) | 0.6 | 0.2 | 0.0 | 0.2 |
| Does not own | 91.3 | 46.7 | (39.5) | 57.8 | 68.8 | 26.7 | 66.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 6,576 | 6,257 | 49 | 771 | 13,652 | 801 | 14,453 |
| NONAGRICULTURAL LAND OWNERSHIP |  |  |  |  |  |  |  |
| Owns | 2.1 | 14.0 | (18.9) | 8.3 | 8.0 | 22.6 | 8.8 |
| Alone | 1.5 | 11.3 | (18.0) | 7.3 | 6.4 | 18.3 | 7.0 |
| Jointly with spouse/partner only | Na | 1.9 | (0.0) | 0.3 | 0.9 | 2.9 | 1.0 |
| Jointly with someone else only | 0.6 | 0.5 | (0.8) | 0.7 | 0.6 | 0.5 | 0.6 |
| Jointly with spouse/partner and someone else | na | 0.3 | (0.0) | 0.0 | 0.1 | 0.0 | 0.1 |
| Both alone and jointly | 0.0 | 0.1 | (0.0) | 0.0 | 0.0 | 0.8 | 0.1 |
| Does not own | 97.9 | 86.0 | (81.1) | 91.7 | 92.0 | 77.4 | 91.2 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Number | 6,576 | 6,257 | 49 | 771 | 13,652 | 801 | 14,453 |

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

### 3.18.2 House Ownership and Documentation of Ownership

Table 27.1 presents the percentage distribution of women age 15-49 by house ownership and documentation of ownership. Five percent of women report owning a house alone, while $28 \%$ own a house jointly with their husband and/or with someone else. Among women who own a house, only $9 \%$ have a title/deed or any other government-recognized document with their name on it; $73 \%$ do not have a title/deed or any other government-recognized document.

- House ownership increases with age and is highest among women age 45-49 (63\%).
- Women in rural areas ( $44 \%$ ) are more likely to own a house than women in urban areas ( $17 \%$ ), although women in urban areas are much more likely to have a title/deed for the house they own than women in rural areas.
- House ownership among women increases with increasing wealth. Three percent of women in the lowest wealth quintile own a house and have their name on the ownership documents, as compared with $29 \%$ of women in the highest wealth quintile.

Table 27.1 House ownership and documentation of ownership: Women
Percent distribution of women age 15-49 by ownership of a house, and among women who own a house, percent distribution by whether the house owned has a title/deed and whether or not the woman's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number | House has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know ${ }^{3}$ | Total | Number of women who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Woman's name is on title/ deed ${ }^{1}$ | Woman's name is not on title/deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.3 | 2.8 | 0.1 | 96.8 | 100.0 | 6,025 | 6.0 | 9.8 | 80.6 | 3.6 | 100.0 | 196 |
| 20-24 | 1.0 | 16.7 | 0.1 | 82.1 | 100.0 | 6,001 | 3.5 | 10.5 | 82.9 | 3.1 | 100.0 | 1,072 |
| 25-29 | 2.0 | 30.3 | 0.1 | 67.6 | 100.0 | 5,687 | 6.9 | 13.0 | 78.1 | 2.0 | 100.0 | 1,842 |
| 30-34 | 4.5 | 37.4 | 0.1 | 57.9 | 100.0 | 4,530 | 9.8 | 13.9 | 74.6 | 1.7 | 100.0 | 1,906 |
| 35-39 | 8.1 | 41.7 | 0.2 | 50.0 | 100.0 | 4,311 | 11.1 | 16.9 | 71.2 | 0.9 | 100.0 | 2,155 |
| 40-44 | 11.4 | 46.9 | 0.1 | 41.7 | 100.0 | 3,084 | 11.7 | 18.3 | 68.7 | 1.3 | 100.0 | 1,799 |
| 45-49 | 14.0 | 48.8 | 0.2 | 37.1 | 100.0 | 2,518 | 11.2 | 20.4 | 67.3 | 1.1 | 100.0 | 1,584 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.4 | 14.6 | 0.1 | 82.9 | 100.0 | 13,143 | 22.0 | 23.7 | 52.5 | 1.8 | 100.0 | 2,253 |
| Rural | 6.0 | 37.5 | 0.1 | 56.3 | 100.0 | 19,013 | 5.9 | 13.4 | 79.1 | 1.6 | 100.0 | 8,300 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 10.2 | 36.3 | 0.4 | 53.1 | 100.0 | 1,770 | 5.3 | 8.9 | 84.8 | 0.9 | 100.0 | 830 |
| Primary | 6.7 | 36.6 | 0.1 | 56.7 | 100.0 | 11,687 | 5.3 | 14.4 | 78.6 | 1.7 | 100.0 | 5,065 |
| Secondary | 2.4 | 21.1 | 0.1 | 76.4 | 100.0 | 12,204 | 8.9 | 16.6 | 72.4 | 2.1 | 100.0 | 2,883 |
| More than secondary | 2.9 | 23.3 | 0.1 | 73.6 | 100.0 | 6,150 | 25.7 | 21.8 | 51.6 | 0.9 | 100.0 | 1,623 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 8.8 | 36.8 | 0.1 | 54.2 | 100.0 | 5,019 | 2.8 | 8.2 | 87.5 | 1.4 | 100.0 | 2,297 |
| Second | 5.7 | 38.3 | 0.1 | 56.0 | 100.0 | 5,698 | 3.5 | 12.7 | 81.9 | 2.0 | 100.0 | 2,509 |
| Middle | 4.6 | 34.0 | 0.1 | 61.3 | 100.0 | 6,069 | 6.3 | 15.2 | 77.2 | 1.3 | 100.0 | 2,351 |
| Fourth | 2.9 | 21.1 | 0.1 | 75.8 | 100.0 | 7,139 | 11.9 | 20.3 | 66.0 | 1.8 | 100.0 | 1,726 |
| Highest | 2.4 | 17.8 | 0.1 | 79.7 | 100.0 | 8,231 | 29.0 | 26.1 | 43.4 | 1.5 | 100.0 | 1,669 |
| Total | 4.5 | 28.2 | 0.1 | 67.2 | 100.0 | 32,156 | 9.4 | 15.6 | 73.4 | 1.6 | 100.0 | 10,553 |

${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have a house with a title/deed or other government-recognized document, but they do not know if their name is on it, and women who do not know if there is a title/deed or other government-recognized document for the house
${ }^{4}$ Includes women who own a house alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else, or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 27C. 1 presents information on house ownership and documentation of ownership status among women age 15-49 according to county. The percentage of women who own a house is highest in Samburu ( $61 \%$ ) and lowest in Garissa and Wajir ( $8 \%$ each).

Table 27C. 1 House ownership and documentation of ownership by county: Women
Percent distribution of women age 15-49 by ownership of a house, and among women who own a house, percent distribution by whether the house owned has a title/deed and whether or not the woman's name appears on the title/deed, according to county, Kenya DHS 2022

| County | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number | House has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of women who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Woman's name is on title/ deed ${ }^{1}$ | Woman's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Mombasa | 4.3 | 12.4 | 0.2 | 83.1 | 100.0 | 947 | 24.0 | 17.9 | 56.6 | 1.5 | 100.0 | 160 |
| Kwale | 3.7 | 29.9 | 0.0 | 66.4 | 100.0 | 498 | 7.3 | 3.1 | 89.2 | 0.4 | 100.0 | 167 |
| Kilifi | 5.1 | 24.4 | 0.0 | 70.5 | 100.0 | 928 | 7.5 | 6.4 | 82.8 | 3.3 | 100.0 | 274 |
| Tana River | 4.8 | 45.5 | 0.0 | 49.7 | 100.0 | 149 | 1.2 | 2.2 | 95.5 | 1.0 | 100.0 | 75 |
| Lamu | 6.7 | 28.7 | 0.2 | 64.4 | 100.0 | 101 | 14.4 | 8.0 | 76.7 | 0.8 | 100.0 | 36 |
| Taita Taveta | 6.7 | 20.5 | 0.1 | 72.7 | 100.0 | 234 | 12.6 | 37.8 | 48.7 | 0.9 | 100.0 | 64 |
| Garissa | 2.3 | 6.1 | 0.0 | 91.6 | 100.0 | 290 | 27.6 | 19.3 | 53.1 | 0.0 | 100.0 | 24 |
| Wajir | 5.7 | 2.0 | 0.1 | 92.2 | 100.0 | 160 | 1.2 | 0.0 | 97.4 | 1.4 | 100.0 | 13 |
| Mandera | 3.2 | 7.3 | 2.7 | 86.8 | 100.0 | 206 | 12.1 | 10.6 | 76.5 | 0.8 | 100.0 | 27 |
| Marsabit | 4.9 | 9.9 | 0.2 | 85.0 | 100.0 | 129 | 3.8 | 1.0 | 95.2 | 0.0 | 100.0 | 19 |
| Isiolo | 3.5 | 26.7 | 0.1 | 69.8 | 100.0 | 137 | 9.0 | 13.7 | 75.2 | 2.1 | 100.0 | 41 |
| Meru | 9.4 | 33.3 | 0.2 | 57.1 | 100.0 | 979 | 8.2 | 24.6 | 65.6 | 1.6 | 100.0 | 420 |
| Tharaka-Nithi | 6.1 | 36.8 | 0.6 | 56.4 | 100.0 | 271 | 3.7 | 9.7 | 85.7 | 0.9 | 100.0 | 118 |
| Embu | 4.4 | 23.0 | 0.0 | 72.6 | 100.0 | 358 | 11.2 | 16.4 | 72.4 | 0.0 | 100.0 | 98 |
| Kitui | 4.0 | 36.6 | 0.1 | 59.4 | 100.0 | 735 | 8.3 | 3.6 | 87.2 | 0.9 | 100.0 | 299 |
| Machakos | 3.3 | 42.8 | 0.0 | 53.9 | 100.0 | 992 | 8.8 | 11.8 | 77.0 | 2.4 | 100.0 | 457 |
| Makueni | 3.7 | 35.0 | 0.0 | 61.3 | 100.0 | 683 | 2.5 | 12.7 | 84.7 | 0.0 | 100.0 | 265 |
| Nyandarua | 5.5 | 35.5 | 0.0 | 59.0 | 100.0 | 409 | 11.0 | 44.6 | 44.4 | 0.0 | 100.0 | 168 |
| Nyeri | 2.9 | 23.9 | 0.0 | 73.2 | 100.0 | 501 | 15.4 | 21.9 | 62.8 | 0.0 | 100.0 | 134 |
| Kirinyaga | 5.4 | 28.2 | 0.0 | 66.4 | 100.0 | 481 | 15.3 | 16.1 | 66.5 | 2.1 | 100.0 | 162 |
| Murang'a | 3.9 | 25.9 | 0.3 | 69.9 | 100.0 | 692 | 6.0 | 21.2 | 72.2 | 0.7 | 100.0 | 209 |
| Kiambu | 4.2 | 18.1 | 0.5 | 77.2 | 100.0 | 2,094 | 15.4 | 15.9 | 68.7 | 0.0 | 100.0 | 477 |
| Turkana | 17.7 | 38.8 | 0.2 | 43.2 | 100.0 | 331 | 2.0 | 2.8 | 95.0 | 0.2 | 100.0 | 188 |
| West Pokot | 3.3 | 45.9 | 0.0 | 50.8 | 100.0 | 384 | 3.8 | 4.2 | 91.9 | 0.1 | 100.0 | 189 |
| Samburu | 10.7 | 50.4 | 0.0 | 38.9 | 100.0 | 156 | 2.3 | 4.5 | 93.0 | 0.2 | 100.0 | 95 |
| Trans Nzoia | 3.3 | 36.1 | 0.2 | 60.4 | 100.0 | 675 | 13.7 | 16.3 | 68.7 | 1.3 | 100.0 | 267 |
| Uasin Gishu | 3.3 | 23.8 | 0.1 | 72.8 | 100.0 | 983 | 15.8 | 19.3 | 64.4 | 0.5 | 100.0 | 267 |
| Elgeyo Marakwet | 1.6 | 20.9 | 0.2 | 77.3 | 100.0 | 228 | 4.7 | 30.5 | 63.2 | 1.6 | 100.0 | 52 |
| Nandi | 7.0 | 36.6 | 0.0 | 56.4 | 100.0 | 622 | 2.5 | 3.9 | 91.2 | 2.4 | 100.0 | 271 |
| Baringo | 10.6 | 23.1 | 0.0 | 66.3 | 100.0 | 378 | 4.4 | 9.1 | 85.1 | 1.4 | 100.0 | 127 |
| Laikipia | 7.1 | 9.0 | 0.0 | 83.9 | 100.0 | 332 | 19.7 | 28.7 | 51.6 | 0.0 | 100.0 | 53 |
| Nakuru | 3.6 | 24.2 | 0.0 | 72.2 | 100.0 | 1,658 | 9.8 | 22.6 | 66.8 | 0.8 | 100.0 | 461 |
| Narok | 5.5 | 53.6 | 0.3 | 40.6 | 100.0 | 718 | 8.8 | 32.4 | 57.4 | 1.4 | 100.0 | 427 |
| Kajiado | 5.6 | 25.1 | 0.2 | 69.1 | 100.0 | 887 | 20.6 | 19.2 | 58.4 | 1.8 | 100.0 | 274 |
| Kericho | 2.9 | 17.5 | 0.0 | 79.6 | 100.0 | 729 | 9.0 | 8.3 | 82.7 | 0.0 | 100.0 | 149 |
| Bomet | 5.4 | 23.7 | 0.1 | 70.8 | 100.0 | 650 | 2.2 | 1.5 | 96.3 | 0.0 | 100.0 | 190 |
| Kakamega | 3.2 | 30.4 | 0.0 | 66.4 | 100.0 | 1,283 | 7.2 | 2.9 | 89.3 | 0.5 | 100.0 | 431 |
| Vihiga | 5.5 | 34.2 | 0.1 | 60.2 | 100.0 | 371 | 2.5 | 11.4 | 85.4 | 0.7 | 100.0 | 148 |
| Bungoma | 3.7 | 42.8 | 0.1 | 53.4 | 100.0 | 1,138 | 6.1 | 7.0 | 85.0 | 1.9 | 100.0 | 531 |
| Busia | 6.4 | 44.6 | 0.0 | 49.0 | 100.0 | 622 | 4.8 | 10.7 | 84.5 | 0.0 | 100.0 | 317 |
| Siaya | 4.4 | 47.4 | 0.0 | 48.2 | 100.0 | 537 | 7.9 | 25.9 | 64.8 | 1.5 | 100.0 | 278 |
| Kisumu | 5.9 | 26.2 | 0.0 | 67.9 | 100.0 | 771 | 4.2 | 6.9 | 88.4 | 0.5 | 100.0 | 247 |
| Homa Bay | 8.2 | 51.1 | 0.0 | 40.7 | 100.0 | 662 | 7.7 | 26.7 | 60.9 | 4.7 | 100.0 | 392 |
| Migori | 9.8 | 31.9 | 0.0 | 58.3 | 100.0 | 674 | 6.7 | 18.9 | 72.8 | 1.6 | 100.0 | 281 |
| Kisii | 2.7 | 53.9 | 0.1 | 43.3 | 100.0 | 831 | 1.2 | 11.2 | 80.4 | 7.2 | 100.0 | 471 |
| Nyamira | 6.5 | 43.3 | 0.0 | 50.3 | 100.0 | 327 | 1.7 | 9.5 | 87.0 | 1.8 | 100.0 | 162 |
| Nairobi City | 1.4 | 12.2 | 0.0 | 86.4 | 100.0 | 4,235 | 29.8 | 32.0 | 34.4 | 3.8 | 100.0 | 576 |
| Total | 4.5 | 28.2 | 0.1 | 67.2 | 100.0 | 32,156 | 9.4 | 15.6 | 73.4 | 1.6 | 100.0 | 10,553 |

${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have a house with a title/deed or other government-recognized document, but they do not know if their name is on it, and women who do not know if there is a title/deed or other government-recognized document for the house
${ }^{4}$ Includes women who own a house alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else, or both alone and jointly

Tables 27.2 and 27C. 2 present the percent distribution of men by ownership of a house and, among those who own a house, ownership documentation.

- Thirty-five percent of men age 15-49 own a house alone, $9 \%$ own a house jointly with their wife or someone else, and $1 \%$ own a house alone and jointly with someone else.
- Among men who own a house, $83 \%$ report that the house does not have a title/deed or any other government-recognized document.
- Only $11 \%$ of men who own a house have a title/deed or any other government-recognized document with their name on it.

Table 27.2 House ownership and documentation of ownership: Men
Percent distribution of men age 15-49 by ownership of a house, and among men who own a house, percent distribution by whether the house owned has a title/deed and whether or not the man's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number of men | House has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/ deed ${ }^{1}$ | Man's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 10.5 | 0.9 | 1.4 | 87.2 | 100.0 | 3,175 | 0.4 | 0.6 | 98.6 | 0.4 | 100.0 | 408 |
| 20-24 | 19.3 | 3.1 | 1.1 | 76.5 | 100.0 | 2,404 | 2.9 | 3.4 | 93.5 | 0.2 | 100.0 | 566 |
| 25-29 | 33.4 | 9.0 | 0.6 | 57.1 | 100.0 | 2,268 | 5.1 | 6.4 | 88.1 | 0.3 | 100.0 | 973 |
| 30-34 | 47.9 | 13.1 | 0.1 | 38.9 | 100.0 | 1,787 | 9.8 | 6.9 | 82.9 | 0.3 | 100.0 | 1,091 |
| 35-39 | 56.4 | 15.1 | 0.1 | 28.5 | 100.0 | 1,577 | 13.4 | 6.8 | 79.6 | 0.2 | 100.0 | 1,128 |
| 40-44 | 58.7 | 19.6 | 0.0 | 21.6 | 100.0 | 1,332 | 16.6 | 7.1 | 76.1 | 0.1 | 100.0 | 1,044 |
| 45-49 | 59.0 | 20.1 | 0.1 | 20.8 | 100.0 | 1,109 | 17.8 | 5.4 | 76.5 | 0.3 | 100.0 | 878 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 21.7 | 7.1 | 0.1 | 71.1 | 100.0 | 5,382 | 18.9 | 3.7 | 76.9 | 0.5 | 100.0 | 1,558 |
| Rural | 43.1 | 10.7 | 1.0 | 45.2 | 100.0 | 8,270 | 8.0 | 6.6 | 85.2 | 0.2 | 100.0 | 4,532 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 46.7 | 20.7 | 0.3 | 32.3 | 100.0 | 369 | 15.6 | 4.0 | 80.3 | 0.1 | 100.0 | 250 |
| Primary | 42.6 | 12.1 | 0.5 | 44.8 | 100.0 | 4,894 | 7.5 | 6.7 | 85.6 | 0.2 | 100.0 | 2,701 |
| Secondary | 27.2 | 6.5 | 0.9 | 65.4 | 100.0 | 5,386 | 9.4 | 5.1 | 85.0 | 0.5 | 100.0 | 1,862 |
| More than secondary | 32.2 | 8.4 | 0.5 | 59.0 | 100.0 | 2,797 | 20.2 | 5.9 | 73.7 | 0.2 | 100.0 | 1,147 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 43.8 | 12.3 | 1.0 | 42.9 | 100.0 | 2,062 | 3.7 | 6.1 | 89.9 | 0.2 | 100.0 | 1,178 |
| Second | 43.9 | 10.3 | 1.5 | 44.3 | 100.0 | 2,584 | 5.4 | 6.5 | 87.9 | 0.1 | 100.0 | 1,439 |
| Middle | 38.2 | 9.7 | 0.4 | 51.7 | 100.0 | 2,754 | 8.9 | 6.8 | 84.1 | 0.2 | 100.0 | 1,331 |
| Fourth | 29.8 | 8.0 | 0.5 | 61.6 | 100.0 | 3,325 | 14.0 | 5.1 | 80.4 | 0.5 | 100.0 | 1,276 |
| Highest | 22.4 | 7.1 | 0.1 | 70.5 | 100.0 | 2,927 | 27.4 | 4.1 | 68.2 | 0.3 | 100.0 | 865 |
| Total 15-49 | 34.7 | 9.2 | 0.7 | 55.4 | 100.0 | 13,652 | 10.8 | 5.9 | 83.1 | 0.3 | 100.0 | 6,089 |
| 50-54 | 63.1 | 25.6 | 0.0 | 11.3 | 100.0 | 801 | 24.2 | 5.2 | 70.2 | 0.4 | 100.0 | 710 |
| Total 15-54 | 36.3 | 10.2 | 0.6 | 53.0 | 100.0 | 14,453 | 12.2 | 5.8 | 81.7 | 0.3 | 100.0 | 6,799 |

${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have a house with a title/deed or other government-recognized document, but they do not know if their name is on it, and men who do not know if there is a title/deed or other government-recognized document for the house
${ }^{4}$ Includes men who own a house alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 27C. 2 House ownership and documentation of ownership by county: Men
Percent distribution of men age 15-49 by ownership of a house, and among men who own a house, percent distribution by whether the house owned has a title/deed and whether or not the man's name appears on the title/deed, according to county, Kenya DHS 2022

| County | Percentage who own a house: |  |  | Percentage who do not own a house | Total | Number of men | House has a title/deed ${ }^{1}$ : |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own a house ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/ deed ${ }^{1}$ | Man's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Mombasa | 29.2 | 10.6 | 0.0 | 60.2 | 100.0 | 442 | 9.5 | 8.5 | 81.1 | 0.9 | 100.0 | 176 |
| Kwale | 11.6 | 16.7 | 0.0 | 71.7 | 100.0 | 209 | 6.4 | 4.9 | 88.7 | 0.0 | 100.0 | 59 |
| Kilifi | 48.4 | 4.1 | 0.0 | 47.4 | 100.0 | 405 | 9.7 | 0.0 | 90.3 | 0.0 | 100.0 | 213 |
| Tana River | 30.9 | 6.8 | 0.0 | 62.3 | 100.0 | 64 | 6.1 | 0.0 | 93.9 | 0.0 | 100.0 | 24 |
| Lamu | 29.8 | 15.1 | 0.0 | 55.2 | 100.0 | 41 | 37.0 | 7.5 | 55.6 | 0.0 | 100.0 | 18 |
| Taita Taveta | 31.7 | 15.3 | 0.0 | 53.0 | 100.0 | 103 | 7.8 | 5.5 | 85.4 | 1.4 | 100.0 | 49 |
| Garissa | 35.5 | 0.0 | 0.0 | 64.5 | 100.0 | 117 | 25.1 | 1.2 | 73.7 | 0.0 | 100.0 | 42 |
| Wajir | 27.5 | 0.4 | 0.0 | 72.1 | 100.0 | 63 | 13.9 | 1.6 | 84.6 | 0.0 | 100.0 | 18 |
| Mandera | 32.6 | 1.7 | 0.0 | 65.7 | 100.0 | 81 | 30.7 | 4.8 | 64.5 | 0.0 | 100.0 | 28 |
| Marsabit | 38.1 | 7.2 | 0.0 | 54.7 | 100.0 | 45 | 1.4 | 7.0 | 91.6 | 0.0 | 100.0 | 20 |
| Isiolo | 32.7 | 3.3 | 0.0 | 64.0 | 100.0 | 55 | 39.1 | 1.6 | 59.3 | 0.0 | 100.0 | 20 |
| Meru | 73.2 | 0.4 | 0.0 | 26.4 | 100.0 | 489 | 3.7 | 0.0 | 96.3 | 0.0 | 100.0 | 359 |
| Tharaka-Nithi | 59.0 | 2.0 | 0.0 | 39.1 | 100.0 | 137 | 1.5 | 1.4 | 97.2 | 0.0 | 100.0 | 83 |
| Embu | 45.4 | 10.5 | 0.0 | 44.1 | 100.0 | 176 | 29.3 | 9.8 | 60.2 | 0.7 | 100.0 | 98 |
| Kitui | 58.6 | 0.0 | 0.0 | 41.4 | 100.0 | 312 | 0.4 | 0.0 | 99.6 | 0.0 | 100.0 | 183 |
| Machakos | 63.6 | 0.0 | 0.0 | 36.4 | 100.0 | 480 | 2.2 | 0.0 | 97.4 | 0.4 | 100.0 | 305 |
| Makueni | 35.3 | 38.2 | 3.3 | 23.2 | 100.0 | 279 | 1.1 | 1.1 | 97.3 | 0.4 | 100.0 | 214 |
| Nyandarua | 38.2 | 4.1 | 0.6 | 57.1 | 100.0 | 168 | 30.8 | 5.0 | 64.2 | 0.0 | 100.0 | 72 |
| Nyeri | 44.5 | 0.5 | 0.0 | 54.9 | 100.0 | 235 | 25.3 | 46.5 | 28.2 | 0.0 | 100.0 | 106 |
| Kirinyaga | 22.9 | 1.1 | 0.0 | 76.0 | 100.0 | 191 | 63.8 | 1.2 | 35.1 | 0.0 | 100.0 | 46 |
| Murang'a | 48.8 | 1.3 | 0.0 | 50.0 | 100.0 | 297 | 8.5 | 2.2 | 88.9 | 0.4 | 100.0 | 148 |
| Kiambu | 39.5 | 12.6 | 0.0 | 47.9 | 100.0 | 911 | 5.0 | 0.5 | 94.5 | 0.0 | 100.0 | 475 |
| Turkana | 39.6 | 2.8 | 0.0 | 57.5 | 100.0 | 111 | 0.0 | 0.0 | 100.0 | 0.0 | 100.0 | 47 |
| West Pokot | 22.3 | 28.8 | 0.0 | 48.9 | 100.0 | 150 | 2.0 | 4.4 | 93.6 | 0.0 | 100.0 | 76 |
| Samburu | 13.0 | 36.3 | 0.0 | 50.7 | 100.0 | 51 | 11.1 | 8.5 | 79.1 | 1.4 | 100.0 | 25 |
| Trans Nzoia | 28.5 | 5.2 | 0.0 | 66.3 | 100.0 | 272 | 18.8 | 1.7 | 79.5 | 0.0 | 100.0 | 92 |
| Uasin Gishu | 39.5 | 0.7 | 0.0 | 59.8 | 100.0 | 451 | 7.7 | 10.5 | 81.8 | 0.0 | 100.0 | 181 |
| Elgeyo Marakwet | 49.5 | 0.8 | 0.4 | 49.2 | 100.0 | 110 | 10.1 | 49.4 | 40.4 | 0.0 | 100.0 | 56 |
| Nandi | 42.1 | 0.6 | 0.1 | 57.2 | 100.0 | 265 | 7.8 | 15.2 | 77.0 | 0.0 | 100.0 | 114 |
| Baringo | 56.3 | 0.4 | 0.0 | 43.3 | 100.0 | 165 | 0.0 | 0.0 | 100.0 | 0.0 | 100.0 | 93 |
| Laikipia | 36.8 | 1.8 | 0.0 | 61.4 | 100.0 | 145 | 30.9 | 7.1 | 60.4 | 1.7 | 100.0 | 56 |
| Nakuru | 19.6 | 1.7 | 0.0 | 78.7 | 100.0 | 670 | 32.7 | 17.2 | 50.0 | 0.0 | 100.0 | 143 |
| Narok | 19.2 | 39.1 | 1.0 | 40.6 | 100.0 | 313 | 36.1 | 41.3 | 22.5 | 0.0 | 100.0 | 186 |
| Kajiado | 28.5 | 2.0 | 0.5 | 69.0 | 100.0 | 339 | 59.1 | 2.1 | 36.9 | 2.0 | 100.0 | 105 |
| Kericho | 70.7 | 0.1 | 0.0 | 29.2 | 100.0 | 330 | 2.6 | 5.4 | 92.0 | 0.0 | 100.0 | 233 |
| Bomet | 87.2 | 1.0 | 0.0 | 11.9 | 100.0 | 268 | 1.8 | 2.3 | 95.8 | 0.0 | 100.0 | 236 |
| Kakamega | 23.0 | 14.1 | 0.0 | 62.9 | 100.0 | 532 | 6.2 | 1.0 | 92.8 | 0.0 | 100.0 | 198 |
| Vihiga | 33.4 | 3.0 | 0.0 | 63.5 | 100.0 | 156 | 4.7 | 4.9 | 90.4 | 0.0 | 100.0 | 57 |
| Bungoma | 45.0 | 22.1 | 14.3 | 18.7 | 100.0 | 448 | 4.2 | 0.8 | 94.5 | 0.4 | 100.0 | 364 |
| Busia | 44.0 | 3.9 | 0.0 | 52.1 | 100.0 | 262 | 11.5 | 9.5 | 79.0 | 0.0 | 100.0 | 126 |
| Siaya | 18.7 | 18.8 | 0.1 | 62.4 | 100.0 | 227 | 25.3 | 28.0 | 46.7 | 0.0 | 100.0 | 86 |
| Kisumu | 12.1 | 27.6 | 0.0 | 60.3 | 100.0 | 345 | 2.7 | 2.7 | 92.8 | 1.8 | 100.0 | 137 |
| Homa Bay | 12.5 | 35.4 | 1.7 | 50.5 | 100.0 | 258 | 7.7 | 7.7 | 84.7 | 0.0 | 100.0 | 128 |
| Migori | 37.0 | 27.2 | 2.4 | 33.4 | 100.0 | 246 | 4.8 | 3.0 | 91.5 | 0.7 | 100.0 | 164 |
| Kisii | 39.6 | 9.0 | 0.0 | 51.4 | 100.0 | 326 | 4.0 | 0.0 | 96.0 | 0.0 | 100.0 | 158 |
| Nyamira | 35.9 | 1.5 | 0.0 | 62.6 | 100.0 | 133 | 5.8 | 1.3 | 93.0 | 0.0 | 100.0 | 50 |
| Nairobi City | 5.4 | 7.0 | 0.0 | 87.6 | 100.0 | 1,777 | (25.3) | (0.0) | (73.9) | (0.8) | 100.0 | 221 |
| Total | 34.7 | 9.2 | 0.7 | 55.4 | 100.0 | 13,652 | 10.8 | 5.9 | 83.1 | 0.3 | 100.0 | 6,089 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
Title/deed or other government-recognized document
${ }^{2}$ Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have a house with a title/deed or other government-recognized document, but they do not know if their name is on it, and men who do not know if there is a title/deed or other government-recognized document for the house
${ }^{4}$ Includes men who own a house alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly

### 3.18.3 Agricultural Land Ownership and Documentation of Ownership

Women age 15-49 were asked if they own agricultural land alone, jointly with someone else, or both alone and jointly. Women who reported owning agricultural land were asked if they had a title/deed for the land and whether their name appeared on the title/deed. The results by background characteristics are shown in
Table 28.1.

- Twenty-five percent of women own agricultural land, including $3 \%$ who own agricultural land alone. Sixty-two percent of women do not have a title/deed for the agricultural land they own, and $13 \%$ who own agricultural land have a title/deed with their name on it.
- Thirty-two percent of women in rural areas own agricultural land, as compared with $14 \%$ of women in urban areas. However, women in urban areas who own agricultural land are three times more likely $(27 \%)$ to have their name on the title/deed than their counterparts in rural areas (9\%).
- Women's ownership of agricultural land does not vary consistently with wealth. the likelihood of women who own agricultural land having the title/deed in their name increases with increasing wealth, from $4 \%$ among women in the lowest quintile to $33 \%$ among those in the highest quintile.

Table 28.1 Agricultural land ownership and documentation of ownership: Women
Percent distribution of women age 15-49 by ownership of agricultural land, and among women who own agricultural land, percent distribution by whether the agricultural land owned has a title/deed and whether or not the woman's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number | Land has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of women who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Woman's name is on title/ deed ${ }^{1}$ | Woman's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.3 | 1.8 | 0.0 | 97.9 | 100.0 | 6,025 | 6.7 | 22.5 | 62.4 | 8.4 | 100.0 | 124 |
| 20-24 | 0.9 | 12.8 | 0.1 | 86.3 | 100.0 | 6,001 | 8.4 | 23.3 | 64.7 | 3.6 | 100.0 | 825 |
| 25-29 | 2.0 | 23.3 | 0.0 | 74.7 | 100.0 | 5,687 | 13.1 | 21.6 | 62.8 | 2.5 | 100.0 | 1,439 |
| 30-34 | 3.4 | 28.4 | 0.1 | 68.1 | 100.0 | 4,530 | 14.7 | 20.5 | 63.3 | 1.5 | 100.0 | 1,447 |
| 35-39 | 4.8 | 31.6 | 0.5 | 63.2 | 100.0 | 4,311 | 14.4 | 22.1 | 61.7 | 1.7 | 100.0 | 1,587 |
| 40-44 | 7.1 | 36.1 | 0.2 | 56.6 | 100.0 | 3,084 | 15.1 | 22.9 | 60.3 | 1.7 | 100.0 | 1,337 |
| 45-49 | 9.5 | 38.4 | 0.2 | 52.0 | 100.0 | 2,518 | 12.9 | 27.8 | 57.6 | 1.7 | 100.0 | 1,209 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 2.1 | 11.9 | 0.1 | 85.9 | 100.0 | 13,143 | 27.4 | 29.0 | 42.1 | 1.5 | 100.0 | 1,854 |
| Rural | 3.8 | 28.2 | 0.2 | 67.8 | 100.0 | 19,013 | 9.1 | 21.0 | 67.6 | 2.3 | 100.0 | 6,114 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 3.3 | 20.6 | 0.2 | 76.0 | 100.0 | 1,770 | 6.8 | 16.4 | 75.2 | 1.6 | 100.0 | 426 |
| Primary | 4.2 | 28.1 | 0.2 | 67.6 | 100.0 | 11,687 | 8.4 | 22.2 | 67.4 | 2.0 | 100.0 | 3,791 |
| Secondary | 2.1 | 16.4 | 0.1 | 81.4 | 100.0 | 12,204 | 13.3 | 23.6 | 60.4 | 2.7 | 100.0 | 2,270 |
| More than secondary | 2.9 | 19.1 | 0.2 | 77.8 | 100.0 | 6,150 | 30.2 | 26.4 | 41.8 | 1.5 | 100.0 | 1,366 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 4.0 | 25.1 | 0.1 | 70.8 | 100.0 | 5,019 | 4.3 | 16.0 | 77.7 | 2.0 | 100.0 | 1,466 |
| Second | 4.1 | 29.1 | 0.0 | 66.8 | 100.0 | 5,698 | 6.4 | 18.6 | 71.8 | 3.2 | 100.0 | 1,893 |
| Middle | 3.1 | 26.0 | 0.2 | 70.6 | 100.0 | 6,069 | 10.0 | 22.9 | 65.2 | 1.9 | 100.0 | 1,782 |
| Fourth | 2.2 | 16.7 | 0.2 | 80.9 | 100.0 | 7,139 | 16.7 | 29.8 | 51.8 | 1.7 | 100.0 | 1,362 |
| Highest | 2.6 | 15.1 | 0.1 | 82.2 | 100.0 | 8,231 | 32.6 | 28.6 | 37.3 | 1.4 | 100.0 | 1,465 |
| Total | 3.1 | 21.5 | 0.1 | 75.2 | 100.0 | 32,156 | 13.4 | 22.8 | 61.7 | 2.1 | 100.0 | 7,968 |

${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have land with a title/deed or other government-recognized document, but they do not know if their name is on it, and women who do not know if there is a title/deed or other government-recognized document for the land
${ }^{4}$ Includes women who own land alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 28.2 shows agricultural land ownership and documentation of ownership among men.

- Twenty-four percent of men age 15-49 own agricultural land alone and 7\% own land jointly with others.
- Twenty-two percent of men have their name on the title/deed, while $59 \%$ do not have a title/deed for their agricultural land.

Table 28.2 Agricultural land ownership and documentation of ownership: Men
Percent distribution of men age 15-49 by ownership of agricultural land, and among men who own agricultural land, percent distribution by whether the agricultural land owned has a title/deed and whether or not the man's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number of men | Land has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/ deed ${ }^{1}$ | Man's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 2.2 | 1.6 | 0.2 | 95.9 | 100.0 | 3,175 | 8.4 | 18.1 | 58.0 | 15.5 | 100.0 | 129 |
| 20-24 | 8.6 | 3.9 | 0.1 | 87.4 | 100.0 | 2,404 | 7.9 | 25.6 | 63.1 | 3.4 | 100.0 | 302 |
| 25-29 | 21.8 | 6.7 | 0.4 | 71.2 | 100.0 | 2,268 | 15.8 | 24.0 | 59.4 | 0.8 | 100.0 | 654 |
| 30-34 | 36.9 | 7.0 | 0.0 | 56.0 | 100.0 | 1,787 | 21.9 | 17.8 | 59.9 | 0.4 | 100.0 | 786 |
| 35-39 | 43.6 | 11.1 | 0.2 | 45.2 | 100.0 | 1,577 | 21.4 | 17.4 | 60.9 | 0.3 | 100.0 | 865 |
| 40-44 | 46.4 | 12.7 | 0.2 | 40.7 | 100.0 | 1,332 | 25.5 | 18.7 | 55.4 | 0.3 | 100.0 | 790 |
| 45-49 | 51.9 | 14.1 | 0.6 | 33.4 | 100.0 | 1,109 | 30.8 | 12.7 | 56.0 | 0.5 | 100.0 | 739 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 16.7 | 5.2 | 0.1 | 78.0 | 100.0 | 5,382 | 34.5 | 20.6 | 44.2 | 0.8 | 100.0 | 1,186 |
| Rural | 29.2 | 7.8 | 0.3 | 62.8 | 100.0 | 8,270 | 16.8 | 17.7 | 64.3 | 1.2 | 100.0 | 3,079 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 18.6 | 15.1 | 0.3 | 66.0 | 100.0 | 369 | 17.4 | 11.9 | 68.8 | 1.9 | 100.0 | 125 |
| Primary | 30.6 | 8.9 | 0.3 | 60.3 | 100.0 | 4,894 | 15.7 | 18.4 | 64.8 | 1.1 | 100.0 | 1,945 |
| Secondary | 17.1 | 4.6 | 0.3 | 78.0 | 100.0 | 5,386 | 20.5 | 19.8 | 58.0 | 1.7 | 100.0 | 1,184 |
| More than secondary | 27.1 | 5.9 | 0.1 | 66.9 | 100.0 | 2,797 | 36.5 | 18.5 | 44.8 | 0.2 | 100.0 | 925 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 26.1 | 9.7 | 0.3 | 63.9 | 100.0 | 2,062 | 8.1 | 16.0 | 74.3 | 1.5 | 100.0 | 744 |
| Second | 29.2 | 6.6 | 0.4 | 63.8 | 100.0 | 2,584 | 12.9 | 15.8 | 70.8 | 0.6 | 100.0 | 935 |
| Middle | 26.8 | 7.6 | 0.2 | 65.4 | 100.0 | 2,754 | 16.9 | 22.1 | 59.4 | 1.6 | 100.0 | 954 |
| Fourth | 20.0 | 6.1 | 0.2 | 73.7 | 100.0 | 3,325 | 31.0 | 20.0 | 47.5 | 1.5 | 100.0 | 874 |
| Highest | 21.0 | 4.8 | 0.1 | 74.1 | 100.0 | 2,927 | 41.1 | 18.1 | 40.4 | 0.4 | 100.0 | 758 |
| Total 15-49 | 24.3 | 6.8 | 0.2 | 68.8 | 100.0 | 13,652 | 21.7 | 18.5 | 58.7 | 1.1 | 100.0 | 4,265 |
| 50-54 | 58.6 | 14.7 | 0.0 | 26.7 | 100.0 | 801 | 34.9 | 13.2 | 51.9 | 0.0 | 100.0 | 587 |
| Total 15-54 | 26.2 | 7.2 | 0.2 | 66.4 | 100.0 | 14,453 | 23.3 | 17.9 | 57.9 | 1.0 | 100.0 | 4,852 |

${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have land with a title/deed or other government-recognized document, but they do not know if their name is on it, and men who do not know if there is a title/deed or other government-recognized document for the land
${ }^{4}$ Includes men who own land alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

### 3.18.4 Nonagricultural Land Ownership and Documentation of Ownership

Table 28.3 presents information on nonagricultural land ownership and documentation of ownership among women age 15-49. Women were asked if they own nonagricultural land alone, jointly with someone else, both alone and jointly, or not at all. Women who own nonagricultural land were asked if they had a title/deed for the land and whether or not their name appeared on the title/deed.

- Only $7 \%$ of women own nonagricultural land: $1 \%$ own land alone and $5 \%$ own land jointly with their husband and/or with someone else.
- Thirty-one percent of women who own nonagricultural land have their name on the title/deed, while $44 \%$ report that the land they own does not have a title/deed.

Table 28.3 Nonagricultural land ownership and documentation of ownership: Women
Percent distribution of women age 15-49 by ownership of nonagricultural land, and among women who own nonagricultural land, percent distribution by whether the nonagricultural land owned has a title/deed and whether or not the woman's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number | Land has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of women who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both <br> alone and jointly |  |  |  | Woman's name is on title/ deed ${ }^{1}$ | Woman's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.0 | 0.4 | 0.1 | 99.4 | 100.0 | 6,025 | (9.0) | (26.6) | (47.8) | (16.6) | 100.0 | 34 |
| 20-24 | 0.3 | 2.0 | 0.1 | 97.6 | 100.0 | 6,001 | 22.0 | 24.1 | 51.9 | 2.0 | 100.0 | 141 |
| 25-29 | 1.1 | 5.9 | 0.0 | 93.1 | 100.0 | 5,687 | 23.0 | 25.6 | 49.9 | 1.4 | 100.0 | 395 |
| 30-34 | 1.6 | 7.1 | 0.1 | 91.3 | 100.0 | 4,530 | 36.2 | 24.8 | 37.7 | 1.2 | 100.0 | 396 |
| 35-39 | 2.7 | 8.4 | 0.3 | 88.6 | 100.0 | 4,311 | 35.5 | 21.4 | 42.3 | 0.8 | 100.0 | 490 |
| 40-44 | 2.9 | 9.4 | 0.3 | 87.4 | 100.0 | 3,084 | 30.7 | 27.1 | 41.8 | 0.4 | 100.0 | 387 |
| 45-49 | 3.4 | 9.3 | 0.1 | 87.2 | 100.0 | 2,518 | 32.7 | 23.8 | 42.8 | 0.7 | 100.0 | 323 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 1.7 | 5.1 | 0.1 | 93.2 | 100.0 | 13,143 | 44.5 | 27.6 | 27.3 | 0.6 | 100.0 | 900 |
| Rural | 1.2 | 5.3 | 0.2 | 93.3 | 100.0 | 19,013 | 21.0 | 22.1 | 55.2 | 1.7 | 100.0 | 1,265 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 1.7 | 5.2 | 0.1 | 92.9 | 100.0 | 1,770 | 18.4 | 24.0 | 57.4 | 0.1 | 100.0 | 125 |
| Primary | 1.1 | 4.5 | 0.1 | 94.2 | 100.0 | 11,687 | 16.0 | 21.5 | 60.1 | 2.4 | 100.0 | 675 |
| Secondary More than | 0.8 | 3.8 | 0.1 | 95.2 | 100.0 | 12,204 | 30.3 | 26.9 | 41.6 | 1.2 | 100.0 | 584 |
| secondary | 2.8 | 9.4 | 0.2 | 87.7 | 100.0 | 6,150 | 47.1 | 25.7 | 26.9 | 0.4 | 100.0 | 755 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 0.8 | 3.8 | 0.1 | 95.3 | 100.0 | 5,019 | 9.0 | 21.1 | 67.9 | 2.0 | 100.0 | 236 |
| Second | 0.9 | 3.1 | 0.2 | 95.8 | 100.0 | 5,698 | 12.2 | 19.0 | 66.3 | 2.5 | 100.0 | 241 |
| Middle | 1.0 | 4.9 | 0.1 | 93.9 | 100.0 | 6,069 | 20.8 | 19.1 | 58.8 | 1.3 | 100.0 | 367 |
| Fourth | 1.6 | 5.5 | 0.1 | 92.8 | 100.0 | 7,139 | 27.2 | 26.9 | 44.6 | 1.3 | 100.0 | 513 |
| Highest | 2.1 | 7.6 | 0.1 | 90.2 | 100.0 | 8,231 | 49.5 | 27.8 | 22.1 | 0.5 | 100.0 | 807 |
| Total | 1.4 | 5.2 | 0.1 | 93.3 | 100.0 | 32,156 | 30.8 | 24.4 | 43.6 | 1.2 | 100.0 | 2,165 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with husband, someone else, or both husband and someone else
${ }^{3}$ Includes women who have land with a title/deed or other government-recognized document, but they do not know if their name is on it, and women who do not know if there is a title/deed or other government-recognized document for the land
${ }^{4}$ Includes women who own land alone, jointly with their husband only, jointly with someone else only, jointly with their husband and someone else, or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 28.4 shows ownership of nonagricultural land and documentation among men. Eight percent of men age 15-49 own non-agricultural land, including $6 \%$ who own non-agricultural land alone and $2 \%$ who own land jointly with others. Forty-six percent of men who own nonagricultural land have their name on the title/deed, and $43 \%$ report that their non-agricultural land does not have a title/deed.

Table 28.4 Nonagricultural land ownership and documentation of ownership: Men
Percent distribution of men age 15-49 by ownership of nonagricultural land, and among men who own nonagricultural land, percent distribution by whether the nonagricultural land owned has a title/deed and whether or not the man's name appears on the title/deed, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage who own land: |  |  | Percentage who do not own land | Total | Number of men | Land has a title/deed: ${ }^{1}$ |  | Does not have a title/ deed ${ }^{1}$ | Don't know $^{3}$ | Total | Number of men who own land ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alone | Jointly ${ }^{2}$ | Both alone and jointly |  |  |  | Man's name is on title/ deed ${ }^{1}$ | Man's name is not on title/ deed ${ }^{1}$ |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 0.5 | 0.4 | 0.0 | 99.1 | 100.0 | 3,175 | (15.6) | (23.4) | (46.5) | (14.5) | 100.0 | 28 |
| 20-24 | 2.3 | 1.1 | 0.1 | 96.5 | 100.0 | 2,404 | 24.4 | 23.4 | 50.6 | 1.5 | 100.0 | 83 |
| 25-29 | 4.4 | 1.3 | 0.0 | 94.2 | 100.0 | 2,268 | 30.1 | 15.1 | 54.7 | 0.0 | 100.0 | 131 |
| 30-34 | 8.8 | 1.9 | 0.0 | 89.2 | 100.0 | 1,787 | 54.2 | 11.7 | 34.1 | 0.0 | 100.0 | 193 |
| 35-39 | 12.6 | 2.4 | 0.0 | 85.0 | 100.0 | 1,577 | 53.9 | 7.1 | 38.8 | 0.1 | 100.0 | 237 |
| 40-44 | 12.9 | 3.3 | 0.3 | 83.6 | 100.0 | 1,332 | 46.5 | 9.2 | 44.1 | 0.2 | 100.0 | 218 |
| 45-49 | 15.0 | 3.2 | 0.0 | 81.8 | 100.0 | 1,109 | 49.6 | 7.7 | 42.8 | 0.0 | 100.0 | 202 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 6.9 | 1.3 | 0.1 | 91.7 | 100.0 | 5,382 | 58.8 | 8.3 | 32.6 | 0.3 | 100.0 | 444 |
| Rural | 6.0 | 1.8 | 0.0 | 92.2 | 100.0 | 8,270 | 36.5 | 12.9 | 49.8 | 0.7 | 100.0 | 648 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| No education | 6.4 | 2.3 | 0.0 | 91.3 | 100.0 | 369 | (34.9) | (4.1) | (61.0) | (0.0) | 100.0 | 32 |
| Primary | 5.5 | 1.5 | 0.0 | 92.9 | 100.0 | 4,894 | 29.9 | 12.5 | 57.2 | 0.4 | 100.0 | 345 |
| Secondary | 4.1 | 1.4 | 0.1 | 94.5 | 100.0 | 5,386 | 43.5 | 11.9 | 43.2 | 1.4 | 100.0 | 299 |
| More than secondary | 11.8 | 2.0 | 0.1 | 86.1 | 100.0 | 2,797 | 62.8 | 10.0 | 27.1 | 0.2 | 100.0 | 389 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |  |  |
| Lowest | 3.4 | 1.9 | 0.0 | 94.7 | 100.0 | 2,062 | 22.9 | 15.2 | 60.7 | 1.2 | 100.0 | 110 |
| Second | 5.1 | 1.1 | 0.0 | 93.8 | 100.0 | 2,584 | 25.1 | 11.9 | 62.2 | 0.7 | 100.0 | 161 |
| Middle | 6.0 | 2.0 | 0.0 | 92.0 | 100.0 | 2,754 | 32.0 | 14.7 | 52.4 | 0.8 | 100.0 | 221 |
| Fourth | 5.6 | 1.6 | 0.1 | 92.7 | 100.0 | 3,325 | 48.7 | 13.4 | 37.4 | 0.5 | 100.0 | 243 |
| Highest | 10.7 | 1.5 | 0.1 | 87.8 | 100.0 | 2,927 | 68.0 | 5.6 | 26.3 | 0.1 | 100.0 | 358 |
| Total 15-49 | 6.4 | 1.6 | 0.0 | 92.0 | 100.0 | 13,652 | 45.6 | 11.1 | 42.8 | 0.6 | 100.0 | 1,093 |
| 50-54 | 18.3 | 3.5 | 0.8 | 77.4 | 100.0 | 801 | 61.8 | 9.2 | 29.0 | 0.0 | 100.0 | 181 |
| Total 15-54 | 7.0 | 1.7 | 0.1 | 91.2 | 100.0 | 14,453 | 47.9 | 10.8 | 40.8 | 0.5 | 100.0 | 1,274 |

Note: Figures in parentheses are based on 25-49 unweighted cases.
${ }^{1}$ Title/deed or other government-recognized document
${ }^{2}$ Jointly with wife, someone else, or both wife and someone else
${ }^{3}$ Includes men who have land with a title/deed or other government-recognized document, but they do not know if their name is on it, and men who do not know if there is a title/deed or other government-recognized document for the land
${ }^{4}$ Includes men who own land alone, jointly with their wife only, jointly with someone else only, jointly with their wife and someone else, or both alone and jointly
${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

### 3.19 Gender-based Violence

Gender-based violence has been acknowledged worldwide as a violation of basic human rights. Research has highlighted the health burdens, intergenerational effects, and demographic consequences of such violence (United Nations 2006). Gender-based violence is defined as any act of violence that results in physical, sexual, economic, 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. This definition covers violence by both current and former spouses and partners.

The module on violence against women and men was implemented in separate subsamples of households. In keeping with ethical requirements, only one woman or man per household was randomly selected for the module. As a result of these restrictions, a total of 16,926 women age 15-49 (unweighted) and 5,583 men age 15-54 (unweighted) were eligible for the module. About $5 \%$ of eligible women and $1 \%$ of eligible men could not be successfully interviewed because privacy could not be obtained or for other
reasons. Specially constructed weights were used to adjust for the selection of only one respondent per household and to ensure that the subsample was nationally representative.

### 3.19.1 Measurement of Violence


#### Abstract

Terminology for this section Husband: a man with whom a woman is married or living with as if married. Wife: a woman with whom a man is married or living with as if married. Intimate partner for women: a man with whom a never-married woman is in a relationship that involves physical and/or emotional intimacy and for which the relationship is or has the expectation of being long lasting. As defined for the purposes of this chapter, an intimate partner is not a husband or a man a woman is living with and is also not a boyfriend with whom her relationship is casual or a man with whom she has a one-time encounter. Intimate partner for men: a woman with whom a never-married man is in a relationship that involves physical and/or emotional intimacy and for which the relationship is or has the expectation of being long lasting. As defined for the purposes of this chapter, an intimate partner is not a wife or a woman a man is living with and is also not a girlfriend with whom his relationship is casual or a woman with whom he has a one-time encounter.


Boyfriend: a man with whom a woman has a casual relationship and who she did not mention as an intimate partner.
Girlfriend: a woman with whom a man has a casual relationship and who he did not mention as an intimate partner.

In the 2022 KDHS, information was obtained from women and men age 15-49 on their experience of violence committed by any perpetrator, including current and former husbands, wives, or other intimate partners. To capture intimate partner violence, ever-married respondents were asked about experiences of violence committed by their current and former husbands/wives, and, if applicable, never-married respondents were asked about experiences of violence committed by their current and former intimate partners. More specifically, intimate partner violence was measured by asking women and men if their current or former spouse/intimate partner ever did the following to them:

- Physical violence: push you, shake you, or throw something at you; slap you; twist your arm or pull your hair; punch you with his/her 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 attack you with a knife, gun, or other weapon
- Sexual violence: physically force you to have sexual intercourse with him/her when you did not want to, physically force you to perform any other sexual acts you did not want to, or force you with threats or in any other way to perform sexual acts you did not want to
- Emotional violence: say or do something to humiliate you in front of others, threaten to hurt or harm you or someone you care about, or insult you or make you feel bad about yourself

In addition to the questions on different forms of intimate partner violence, information was also obtained from respondents about physical violence committed by anyone (other than a spouse/intimate partner) since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, respondents were asked about experiences of sexual violence committed by anyone (other than a spouse/intimate partner) by asking 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.

### 3.19.2 Experience of Physical Violence

## Physical violence by perpetrator

Percentage of women who have experienced any physical violence (committed by a husband, intimate partner, or anyone else) since age 15 and in the 12 months before the survey.
Sample: Women age 15-49
Percentage of men who have experienced any physical violence (committed by a wife, intimate partner, or anyone else) since age 15 and in the 12 months before the survey.
Sample: Men age 15-49

## Prevalence of Physical Violence

Thirty-four percent of women in Kenya have experienced physical violence since age 15, including $16 \%$ who experienced physical violence often or sometimes in the 12 months before the survey. Slightly lower proportions of men experienced physical violence; $27 \%$ of men have experienced physical violence since age 15 , including $10 \%$ who experienced such violence in the 12 months before the survey (Table 29).

Trends: The percentage of women who experienced physical violence in the 12 months before the survey declined from $20 \%$ in 2014 to $16 \%$ in 2022. Over the same period, the percentage among men declined slightly from $12 \%$ to $10 \%$.

- Experience of violence among women increases with age; 20\% of women age 15-19 have experienced physical violence since age 15 , as compared with $42 \%$ of women age 45-49.
- Marital status is linked to experiences of violence among women. Women who have ever been married are much more likely to have experienced violence since age 15 than those who have never been married ( $41 \%$ versus $20 \%$ ).
- By county, the percentage of women who have experienced physical violence since age 15 is highest in Bungoma (62\%) and lowest in Mandera (9\%) (Table 29C).

Table 29 Experience of physical violence
Percentage of women and men age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence in the 12 months preceding the survey, according to background characteristics, Kenya DHS 2022

| Background characteristic | Women |  |  |  |  | Men |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have experienced physical violence since age $15^{1}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of women | Percentage who have experienced physical violence since age $15^{3}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of men |
|  |  | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |  | Often | Sometimes | Often or sometimes ${ }^{4}$ |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 19.5 | 1.0 | 10.0 | 11.2 | 3,063 | 29.2 | 1.7 | 15.5 | 17.4 | 1,252 |
| 20-24 | 29.0 | 2.9 | 12.3 | 15.4 | 3,289 | 26.6 | 0.7 | 9.7 | 10.4 | 921 |
| 25-29 | 36.9 | 4.4 | 14.4 | 18.9 | 3,071 | 28.3 | 0.6 | 7.8 | 8.3 | 847 |
| 30-39 | 40.2 | 4.9 | 13.2 | 18.2 | 4,575 | 25.3 | 0.9 | 7.5 | 8.4 | 1,350 |
| 40-49 | 41.7 | 4.0 | 9.8 | 13.9 | 2,928 | 26.1 | 1.0 | 4.9 | 6.0 | 996 |
| Residence |  |  |  |  |  |  |  |  |  |  |
| Urban | 31.6 | 3.3 | 10.0 | 13.4 | 6,742 | 29.1 | 0.7 | 11.9 | 12.7 | 1,992 |
| Rural | 35.5 | 3.7 | 13.5 | 17.3 | 10,184 | 25.8 | 1.2 | 7.8 | 9.1 | 3,373 |
| Marital status |  |  |  |  |  |  |  |  |  |  |
| Never married | 19.8 | 0.9 | 8.0 | 9.0 | 5,465 | 28.1 | 1.2 | 12.0 | 13.4 | 2,524 |
| Never ever had intimate partner | 12.3 | 0.5 | 6.2 | 6.7 | 2,314 | 30.0 | 1.1 | 14.5 | 15.6 | 1,204 |
| Ever had intimate partner | 25.2 | 1.3 | 9.3 | 10.7 | 3,151 | 26.3 | 1.3 | 9.8 | 11.3 | 1,319 |
| Ever married | 40.7 | 4.8 | 14.0 | 19.0 | 11,461 | 26.1 | 0.9 | 6.9 | 7.8 | 2,842 |
| Married/living together | 37.0 | 4.1 | 14.7 | 18.9 | 9,492 | 23.5 | 0.6 | 5.9 | 6.5 | 2,510 |
| Divorced/separated/widowed | 58.4 | 8.1 | 10.8 | 19.3 | 1,969 | 45.5 | 2.6 | 14.3 | 17.1 | 332 |
| Education ${ }^{5}$ |  |  |  |  |  |  |  |  |  |  |
| No education | 35.9 | 4.9 | 12.7 | 17.6 | 896 | 11.5 | 0.0 | 5.1 | 5.1 | 148 |
| Primary | 42.7 | 5.5 | 15.7 | 21.4 | 6,126 | 26.3 | 1.4 | 9.1 | 10.6 | 2,024 |
| Secondary | 30.9 | 2.9 | 11.6 | 14.7 | 6,469 | 29.5 | 0.9 | 11.1 | 12.1 | 2,063 |
| More than secondary | 23.3 | 0.9 | 5.8 | 6.8 | 3,253 | 25.9 | 0.8 | 6.8 | 7.6 | 1,047 |
| Wealth quintile |  |  |  |  |  |  |  |  |  |  |
| Lowest | 36.9 | 5.3 | 15.8 | 21.2 | 2,716 | 23.0 | 1.1 | 8.1 | 9.2 | 828 |
| Second | 36.7 | 4.4 | 14.4 | 19.0 | 3,045 | 27.2 | 1.2 | 9.4 | 10.9 | 1,085 |
| Middle | 36.8 | 3.5 | 13.8 | 17.4 | 3,231 | 28.6 | 1.7 | 9.1 | 10.8 | 1,137 |
| Fourth | 33.6 | 2.8 | 11.0 | 14.1 | 3,775 | 27.4 | 0.3 | 8.5 | 8.8 | 1,230 |
| Highest | 28.1 | 2.4 | 7.6 | 10.0 | 4,159 | 27.9 | 0.9 | 11.3 | 12.2 | 1,085 |
| Total 15-49 | 33.9 | 3.5 | 12.1 | 15.8 | 16,926 | 27.0 | 1.0 | 9.3 | 10.4 | 5,365 |
| 50-54 | na | na | na | na | na | 22.8 | 0.6 | 4.2 | 4.8 | 318 |
| Total 15-54 | na | na | na | na | na | 26.8 | 1.0 | 9.0 | 10.1 | 5,683 |

[^7]Table 29C Experience of physical violence by county
Percentage of women and men age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence in the 12 months preceding the survey, according to county, Kenya DHS 2022

| County | Women |  |  |  |  | Men |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage who have experienced physical violence since age $15^{1}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of women | Percentage who have experienced physical violence since age $15^{3}$ | Percentage who experienced physical violence in the last 12 months |  |  | Number of men |
|  |  | Often | Sometimes | Often or sometimes ${ }^{2}$ |  |  | Often | Sometimes | Often or sometimes $^{4}$ |  |
| Mombasa | 24.5 | 2.1 | 9.4 | 11.5 | 500 | 39.5 | 0.4 | 10.5 | 10.8 | 181 |
| Kwale | 13.1 | 3.0 | 8.3 | 11.3 | 264 | 33.9 | 0.0 | 13.6 | 13.6 | 97 |
| Kilifi | 20.1 | 1.6 | 5.9 | 8.3 | 491 | 10.9 | 0.0 | 7.2 | 7.2 | 169 |
| Tana River | 35.8 | 1.5 | 21.8 | 23.2 | 81 | 2.6 | 0.0 | 0.0 | 0.0 | 27 |
| Lamu | 33.9 | 4.3 | 7.7 | 12.0 | 51 | 7.3 | 0.0 | 2.9 | 2.9 | 15 |
| Taita Taveta | 29.5 | 2.1 | 5.4 | 7.4 | 110 | 28.9 | 0.0 | 2.4 | 2.4 | 41 |
| Garissa | 21.0 | 6.4 | 6.4 | 12.8 | 148 | 29.0 | 0.0 | 3.8 | 3.8 | 52 |
| Wajir | 13.2 | 1.4 | 4.1 | 5.5 | 84 | 8.8 | 1.2 | 6.7 | 8.0 | 21 |
| Mandera | 8.6 | 0.7 | 2.6 | 3.3 | 104 | 7.3 | 0.0 | 4.9 | 4.9 | 34 |
| Marsabit | 16.4 | 1.7 | 12.3 | 14.2 | 68 | 22.9 | 0.0 | 5.2 | 5.2 | 16 |
| Isiolo | 45.6 | 9.8 | 19.5 | 29.3 | 69 | 75.1 | 0.0 | 11.9 | 11.9 | 19 |
| Meru | 35.8 | 4.9 | 10.2 | 15.1 | 547 | 44.4 | 3.2 | 10.8 | 13.9 | 178 |
| Tharaka-Nithi | 34.6 | 2.8 | 11.0 | 13.9 | 146 | 59.5 | 2.8 | 16.5 | 20.3 | 55 |
| Embu | 40.3 | 5.6 | 22.1 | 27.7 | 207 | 23.3 | 0.0 | 2.1 | 2.1 | 79 |
| Kitui | 11.5 | 0.5 | 4.1 | 4.7 | 391 | 7.8 | 0.0 | 1.3 | 1.3 | 135 |
| Machakos | 25.7 | 2.8 | 7.4 | 10.1 | 515 | 1.3 | 0.0 | 0.3 | 0.3 | 207 |
| Makueni | 22.7 | 2.2 | 9.7 | 11.9 | 362 | 5.6 | 0.0 | 0.9 | 0.9 | 109 |
| Nyandarua | 24.3 | 1.4 | 3.6 | 5.0 | 222 | 27.2 | 1.2 | 5.7 | 6.9 | 73 |
| Nyeri | 36.9 | 3.1 | 11.7 | 15.4 | 276 | 30.8 | 0.0 | 15.1 | 15.1 | 101 |
| Kirinyaga | 39.6 | 1.2 | 10.4 | 12.5 | 263 | 0.0 | 0.0 | 0.0 | 0.0 | 72 |
| Murang'a | 53.7 | 6.3 | 15.7 | 22.0 | 359 | 40.9 | 4.4 | 6.3 | 10.7 | 125 |
| Kiambu | 41.7 | 5.6 | 12.2 | 17.9 | 1,091 | 57.9 | 0.5 | 22.4 | 23.0 | 332 |
| Turkana | 42.4 | 5.0 | 14.9 | 19.9 | 176 | 17.7 | 0.0 | 13.4 | 13.4 | 41 |
| West Pokot | 27.1 | 4.2 | 14.8 | 19.1 | 205 | 22.7 | 1.5 | 6.3 | 7.8 | 58 |
| Samburu | 48.6 | 9.7 | 18.7 | 28.5 | 87 | 22.9 | 1.4 | 4.1 | 5.5 | 19 |
| Trans Nzoia | 40.8 | 5.0 | 12.2 | 17.2 | 351 | 26.2 | 0.0 | 2.6 | 2.6 | 116 |
| Uasin Gishu | 41.9 | 2.3 | 9.7 | 12.4 | 495 | 34.9 | 0.0 | 10.3 | 10.3 | 176 |
| Elgeyo Marakwet | 30.2 | 1.7 | 14.2 | 15.9 | 119 | 6.7 | 0.0 | 6.2 | 6.2 | 41 |
| Nandi | 39.4 | 2.5 | 12.5 | 15.0 | 334 | 41.1 | 3.4 | 12.6 | 15.9 | 111 |
| Baringo | 37.9 | 8.5 | 10.3 | 19.6 | 207 | 6.4 | 0.0 | 1.5 | 1.5 | 67 |
| Laikipia | 34.5 | 2.9 | 8.8 | 11.7 | 175 | 42.1 | 0.0 | 15.0 | 15.0 | 57 |
| Nakuru | 23.5 | 1.2 | 8.2 | 9.4 | 898 | 23.7 | 0.0 | 4.9 | 4.9 | 277 |
| Narok | 40.5 | 3.6 | 12.6 | 16.3 | 376 | 5.9 | 0.0 | 2.4 | 2.4 | 139 |
| Kajiado | 36.1 | 5.6 | 11.0 | 17.0 | 471 | 10.3 | 1.6 | 4.3 | 5.9 | 126 |
| Kericho | 16.3 | 2.1 | 8.0 | 10.2 | 386 | 15.5 | 0.0 | 2.8 | 2.8 | 125 |
| Bomet | 32.8 | 1.6 | 9.1 | 10.7 | 369 | 3.4 | 0.0 | 0.7 | 0.7 | 122 |
| Kakamega | 40.1 | 3.5 | 15.5 | 19.1 | 707 | 7.6 | 0.6 | 4.5 | 5.1 | 230 |
| Vihiga | 33.8 | 3.1 | 13.9 | 17.1 | 195 | 30.0 | 2.0 | 12.6 | 14.7 | 59 |
| Bungoma | 62.2 | 4.0 | 24.8 | 29.4 | 623 | 39.9 | 10.2 | 13.8 | 25.7 | 179 |
| Busia | 38.4 | 6.5 | 14.6 | 21.1 | 309 | 31.6 | 0.6 | 16.8 | 17.3 | 108 |
| Siaya | 23.6 | 2.1 | 14.8 | 16.9 | 291 | 72.4 | 0.3 | 18.4 | 18.7 | 99 |
| Kisumu | 36.0 | 1.7 | 24.1 | 26.0 | 420 | 32.1 | 1.3 | 13.9 | 15.2 | 144 |
| Homa Bay | 53.5 | 6.9 | 19.7 | 26.6 | 352 | 60.0 | 1.4 | 18.4 | 19.8 | 104 |
| Migori | 51.1 | 4.7 | 24.7 | 29.5 | 364 | 72.6 | 0.0 | 20.4 | 20.4 | 93 |
| Kisii | 35.7 | 4.9 | 14.8 | 19.8 | 404 | 15.4 | 0.0 | 3.4 | 3.4 | 128 |
| Nyamira | 33.3 | 1.8 | 7.1 | 11.3 | 176 | 3.1 | 0.0 | 2.3 | 2.3 | 54 |
| Nairobi City | 29.7 | 3.6 | 9.9 | 13.5 | 2,088 | 21.6 | 1.3 | 15.0 | 16.3 | 556 |
| Total | 33.9 | 3.5 | 12.1 | 15.8 | 16,926 | 27.0 | 1.0 | 9.3 | 10.4 | 5,365 |

[^8]
## Perpetrators of Physical Violence

Table 30 shows perpetrators of physical violence, according to marital status, among women and men age 15-49 who reported experiencing any physical violence since age 15.

- The most commonly reported perpetrator of physical violence among women who have ever been married or ever had an intimate partner was their current husband or intimate partner ( $54 \%$ ), followed by a former husband/intimate partner (34\%).
- The most common perpetrators of physical violence among men who have ever been married or ever had an intimate partner were teachers $(28 \%)$, followed by current wives/intimate partners $(20 \%)$ and former wives/intimate partners ( $19 \%$ ). Twenty-three percent of men who have ever been married or had an intimate partner experienced physical violence at the hands of other persons.
- Teachers ( $33 \%$ ) and mothers/stepmothers ( $25 \%$ ) were the most common perpetrators of physical violence against women who have never been married or never had an intimate partner. Teachers ( $46 \%$ ) and schoolmates/classmates ( $22 \%$ ) were the most common perpetrators of physical violence against men who have never been married or had an intimate partner.

Table 30 Persons committing physical violence
Among women and men age 15-49 who have experienced physical violence since age 15, percentage who report specific persons who committed the violence, according to the respondent's partnership status, Kenya DHS 2022

| Person | Partnership status |  | Total |
| :---: | :---: | :---: | :---: |
|  | Ever married/ ever had intimate partner | Never married/ never had intimate partner |  |
| WOMEN |  |  |  |
| Current husband/intimate partner | 53.9 | na | 51.2 |
| Former husband/intimate partner | 33.7 | na | 32.0 |
| Current boyfriend | 0.2 | 0.0 | 0.2 |
| Former boyfriend | 2.2 | 3.2 | 2.2 |
| Father/stepfather | 5.2 | 16.8 | 5.7 |
| Mother/stepmother | 8.1 | 24.8 | 8.9 |
| Sister/brother | 3.3 | 10.9 | 3.7 |
| Daughter/son | 0.1 | 0.0 | 0.1 |
| Other relative | 2.6 | 9.9 | 3.0 |
| Mother-in-law | 0.2 | na | 0.2 |
| Father-in-law | 0.1 | na | 0.1 |
| Other in-law | 1.0 | na | 0.9 |
| Teacher | 5.8 | 32.5 | 7.1 |
| Schoolmate/classmate | 1.8 | 14.3 | 2.4 |
| Employer/someone at work | 0.4 | 0.0 | 0.4 |
| Police/soldier | 0.3 | 0.9 | 0.3 |
| Other | 2.7 | 5.0 | 2.8 |
| Number of women who have experienced physical violence since age 15 | 5,458 | 286 | 5,744 |
| MEN |  |  |  |
| Current wife/intimate partner | 19.8 | na | 14.8 |
| Former wife/intimate partner | 19.3 | na | 14.5 |
| Current girlfriend | 0.3 | 0.0 | 0.2 |
| Former girlfriend | 1.5 | 0.0 | 1.2 |
| Father/stepfather | 13.1 | 13.5 | 13.2 |
| Mother/stepmother | 8.0 | 13.9 | 9.5 |
| Sister/brother | 3.4 | 7.3 | 4.4 |
| Daughter/son | 0.0 | 0.0 | 0.0 |
| Other relative | 5.7 | 7.9 | 6.2 |
| Mother-in-law | 0.1 | na | 0.1 |
| Father-in-law | 0.0 | na | 0.0 |
| Other in-law | 0.9 | na | 0.7 |
| Teacher | 27.9 | 46.2 | 32.5 |
| Schoolmate/classmate | 16.3 | 22.3 | 17.8 |
| Employer/someone at work | 5.4 | 0.5 | 4.2 |
| Police/soldier | 6.6 | 0.7 | 5.1 |
| Other | 22.5 | 18.9 | 21.6 |
| Number of men who have experienced physical violence since age 15 | 1,089 | 362 | 1,451 |

Note: The term husband includes a partner with whom a woman is living as if married; the term wife includes a partner with whom a man is living as if married. Percentages may add to more than $100 \%$ since the respondent can report more than one perpetrator. na $=$ not applicable

### 3.19.3 Experience of Sexual Violence

## Sexual violence by any perpetrator

Percentage of women who have experienced any sexual violence (committed by a husband, intimate partner, or anyone else) ever and in the 12 months before the survey.
Sample: Women age 15-49
Percentage of men who have experienced any sexual violence (committed by a wife, intimate partner, or anyone else) ever and in the 12 months before the survey.
Sample: Men age 15-49

## Prevalence of Sexual Violence

Thirteen percent of women reported that they had experienced sexual violence at some point in their lives, and $7 \%$ reported that they had experienced sexual violence in the last 12 months (Table 31). A slightly lower proportion of men reported experiencing sexual violence; $7 \%$ have ever experienced sexual violence, and $4 \%$ experienced sexual violence in the 12 months preceding the survey.

- The percentage of women who have experienced sexual violence increases with age, from $7 \%$ among those age $15-19$ to $18 \%$ among those age $40-49$.
- Three percent of women who have never been married and never had an intimate partner report sexual violence, as compared with $12 \%$ of never married women who ever had an intimate partner, $13 \%$ of currently married women, and $27 \%$ of formerly married women.
- By county, the percentages of women who have experienced sexual violence are highest in Bungoma (30\%), Murang'a (24\%), Homa Bay (23\%), and Embu (22\%) (Table 31C).

Table 31 Experience of sexual violence
Percentage of women and men 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, Kenya DHS 2022

| Background characteristic | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | In the last 12 months | Number of women | Ever ${ }^{1}$ | In the last 12 months | Number of men |
| Age |  |  |  |  |  |  |
| 15-19 | 7.2 | 3.3 | 3,063 | 4.8 | 2.9 | 1,252 |
| 20-24 | 11.3 | 6.3 | 3,289 | 8.1 | 5.5 | 921 |
| 25-29 | 13.1 | 7.6 | 3,071 | 7.6 | 5.1 | 847 |
| 30-39 | 15.2 | 7.9 | 4,575 | 8.0 | 3.7 | 1,350 |
| 40-49 | 17.5 | 7.0 | 2,928 | 6.7 | 2.9 | 996 |
| Residence |  |  |  |  |  |  |
| Urban | 12.8 | 5.7 | 6,742 | 8.5 | 5.1 | 1,992 |
| Rural | 13.1 | 7.1 | 10,184 | 6.1 | 3.2 | 3,373 |
| Marital status |  |  |  |  |  |  |
| Never married | 8.4 | 3.3 | 5,465 | 5.2 | 3.1 | 2,524 |
| Never ever had intimate partner | 3.0 | 0.5 | 2,314 | 1.7 | 0.2 | 1,204 |
| Ever had intimate partner | 12.3 | 5.3 | 3,151 | 8.4 | 5.7 | 1,319 |
| Ever married | 15.2 | 8.1 | 11,461 | 8.5 | 4.6 | 2,842 |
| Married/living together | 12.9 | 8.1 | 9,492 | 6.9 | 3.8 | 2,510 |
| Divorced/separated/widowed | 26.5 | 8.3 | 1,969 | 21.1 | 10.9 | 332 |
| Employment |  |  |  |  |  |  |
| Employed for cash | 16.4 | 7.8 | 8,342 | 8.2 | 4.6 | 3,958 |
| Employed not for cash | 14.0 | 8.2 | 1,748 | 3.0 | 2.1 | 389 |
| Not employed | 8.6 | 4.6 | 6,836 | 3.9 | 1.8 | 1,018 |
| Education ${ }^{2}$ |  |  |  |  |  |  |
| No education | 8.0 | 4.8 | 896 | 5.3 | 2.5 | 148 |
| Primary | 16.2 | 8.3 | 6,126 | 7.0 | 4.2 | 2,024 |
| Secondary | 11.7 | 6.3 | 6,469 | 7.0 | 4.2 | 2,063 |
| More than secondary | 11.2 | 4.3 | 3,253 | 6.6 | 3.0 | 1,047 |
| Wealth quintile |  |  |  |  |  |  |
| Lowest | 12.7 | 7.2 | 2,716 | 5.6 | 3.8 | 828 |
| Second | 14.8 | 8.1 | 3,045 | 7.4 | 3.8 | 1,085 |
| Middle | 12.9 | 7.2 | 3,231 | 7.2 | 3.9 | 1,137 |
| Fourth | 13.7 | 6.2 | 3,775 | 7.2 | 4.6 | 1,230 |
| Highest | 11.3 | 4.8 | 4,159 | 7.1 | 3.3 | 1,085 |
| Total 15-49 | 13.0 | 6.5 | 16,926 | 7.0 | 3.9 | 5,365 |
| 50-54 | na | na | na | 6.3 | 0.2 | 318 |
| Total 15-54 | na | na | na | 6.9 | 3.7 | 5,683 |

I Includes experience of sexual violence in the last 12 months
${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

Table 31C Experience of sexual violence by county
Percentage of women and men age 15-49 who have ever experienced sexual violence and percentage who experienced sexual violence in the 12 months preceding the survey, according to county, Kenya DHS 2022

| County | Women |  |  | Men |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ever ${ }^{1}$ | In the last 12 months | Number of women | Ever ${ }^{1}$ | In the last 12 months | Number of men |
| Mombasa | 9.8 | 3.8 | 500 | 17.5 | 10.2 | 181 |
| Kwale | 4.3 | 3.3 | 264 | 9.6 | 2.8 | 97 |
| Kilifi | 12.2 | 6.5 | 491 | 2.0 | 2.0 | 169 |
| Tana River | 2.3 | 1.5 | 81 | 0.0 | 0.0 | 27 |
| Lamu | 14.5 | 6.3 | 51 | 0.0 | 0.0 | 15 |
| Taita Taveta | 14.0 | 3.0 | 110 | 5.6 | 0.8 | 41 |
| Garissa | 5.8 | 3.5 | 148 | 0.0 | 0.0 | 52 |
| Wajir | 1.5 | 1.0 | 84 | 2.4 | 2.4 | 21 |
| Mandera | 0.8 | 0.8 | 104 | 0.0 | 0.0 | 34 |
| Marsabit | 1.0 | 1.0 | 68 | 0.0 | 0.0 | 16 |
| Isiolo | 9.2 | 5.3 | 69 | 21.1 | 12.0 | 19 |
| Meru | 16.0 | 8.2 | 547 | 9.8 | 3.0 | 178 |
| Tharaka-Nithi | 12.5 | 6.9 | 146 | 11.6 | 5.9 | 55 |
| Embu | 21.5 | 13.0 | 207 | 1.8 | 1.8 | 79 |
| Kitui | 0.9 | 0.4 | 391 | 2.7 | 2.7 | 135 |
| Machakos | 6.3 | 3.0 | 515 | 1.8 | 0.5 | 207 |
| Makueni | 4.7 | 3.2 | 362 | 3.2 | 2.0 | 109 |
| Nyandarua | 17.5 | 6.9 | 222 | 13.5 | 4.1 | 73 |
| Nyeri | 15.1 | 5.6 | 276 | 1.3 | 0.0 | 101 |
| Kirinyaga | 12.9 | 3.2 | 263 | 0.0 | 0.0 | 72 |
| Murang'a | 24.3 | 13.6 | 359 | 20.9 | 10.1 | 125 |
| Kiambu | 16.6 | 9.8 | 1,091 | 17.7 | 12.9 | 332 |
| Turkana | 10.8 | 6.7 | 176 | 3.8 | 3.2 | 41 |
| West Pokot | 7.5 | 6.3 | 205 | 4.6 | 3.6 | 58 |
| Samburu | 6.9 | 4.2 | 87 | 23.3 | 7.4 | 19 |
| Trans Nzoia | 13.1 | 5.6 | 351 | 12.6 | 0.4 | 116 |
| Uasin Gishu | 9.9 | 4.6 | 495 | 5.7 | 4.0 | 176 |
| Elgeyo Marakwet | 6.9 | 4.0 | 119 | 3.3 | 2.7 | 41 |
| Nandi | 6.0 | 2.6 | 334 | 6.0 | 3.6 | 111 |
| Baringo | 8.4 | 5.7 | 207 | 3.5 | 3.2 | 67 |
| Laikipia | 10.9 | 3.1 | 175 | 15.3 | 8.1 | 57 |
| Nakuru | 13.8 | 3.6 | 898 | 9.4 | 2.6 | 277 |
| Narok | 17.5 | 8.7 | 376 | 2.0 | 2.0 | 139 |
| Kajiado | 16.9 | 8.6 | 471 | 0.3 | 0.3 | 126 |
| Kericho | 3.2 | 1.5 | 386 | 1.2 | 0.0 | 125 |
| Bomet | 12.9 | 7.4 | 369 | 4.7 | 3.1 | 122 |
| Kakamega | 16.8 | 8.9 | 707 | 0.0 | 0.0 | 230 |
| Vihiga | 11.9 | 5.6 | 195 | 7.1 | 3.3 | 59 |
| Bungoma | 30.3 | 16.6 | 623 | 19.6 | 15.7 | 179 |
| Busia | 14.7 | 8.9 | 309 | 8.2 | 7.8 | 108 |
| Siaya | 5.7 | 4.3 | 291 | 0.3 | 0.3 | 99 |
| Kisumu | 10.8 | 6.6 | 420 | 1.1 | 0.6 | 144 |
| Homa Bay | 23.1 | 10.8 | 352 | 8.1 | 4.0 | 104 |
| Migori | 16.7 | 7.4 | 364 | 20.5 | 11.2 | 93 |
| Kisii | 16.0 | 10.1 | 404 | 0.0 | 0.0 | 128 |
| Nyamira | 14.5 | 6.3 | 176 | 1.6 | 1.6 | 54 |
| Nairobi City | 12.2 | 5.8 | 2,088 | 4.4 | 2.3 | 556 |
| Total | 13.0 | 6.5 | 16,926 | 7.0 | 3.9 | 5,365 |

${ }^{1}$ Includes experience of sexual violence in the last 12 months

## Perpetrators of Sexual Violence

The most commonly reported perpetrators of sexual violence among women who have ever been married or ever had an intimate partner were current husbands or intimate partners ( $71 \%$ ) and former husbands or intimate partners (19\%). Similarly, the most commonly reported perpetrators of sexual violence among men who have ever been married or had an intimate partner were current wives or intimate partners ( $63 \%$ ) and former wives or intimate partners (32\%) (Table 32).

Table 32 Persons committing sexual violence
Among women and men age 15-49 who have experienced sexual violence, percentage who report specific persons who committed the violence, according to respondent's partnership status, Kenya DHS 2022

| Person | Partnership status |  | Total |
| :---: | :---: | :---: | :---: |
|  | Ever married/ever had intimate partner | Never married/never had intimate partner |  |
| WOMEN |  |  |  |
| Current husband/intimate partner | 70.9 | na | 68.6 |
| Former husband/intimate partner | 19.2 | na | 18.6 |
| Current/former boyfriend | 3.1 | (2.6) | 3.1 |
| Father/stepfather | 0.1 | (1.9) | 0.1 |
| Brother/stepbrother | 0.8 | (0.7) | 0.8 |
| Other relative | 5.1 | (29.7) | 5.9 |
| In-law | 0.4 | na | 0.4 |
| Own friend/acquaintance | 3.0 | (21.1) | 3.6 |
| Family friend | 1.5 | (8.5) | 1.7 |
| Teacher | 1.4 | (0.0) | 1.4 |
| Schoolmate/classmate | 1.4 | (6.0) | 1.6 |
| Employer/someone at work | 0.7 | (0.5) | 0.7 |
| Police/soldier | 0.3 | (1.4) | 0.4 |
| Priest/religious leader | 0.1 | (0.0) | 0.1 |
| Stranger | 6.0 | (22.2) | 6.5 |
| Other | 2.5 | (6.7) | 2.6 |
| Number of women who have experienced sexual violence | 2,132 | 70 | 2,202 |
| MEN |  |  |  |
| Current wife/intimate partner | 62.5 | na | 59.0 |
| Former wife/intimate partner | 32.2 | na | 30.5 |
| Current/former girlfriend | 6.1 | * | 7.2 |
| Father/stepfather | 0.1 | * | 0.1 |
| Brother/stepbrother | 0.0 | * | 0.0 |
| Other relative | 1.1 | * | 1.4 |
| In-law | 0.0 | na | 0.0 |
| Own friend/acquaintance | 3.1 | * | 5.0 |
| Family friend | 1.4 | * | 1.5 |
| Teacher | 1.5 | * | 1.4 |
| Schoolmate/classmate | 1.9 | * | 2.0 |
| Employer/someone at work | 2.2 | * | 2.1 |
| Police/soldier | 0.8 | * | 0.8 |
| Priest/religious leader | 0.0 | * | 0.0 |
| Stranger | 3.8 | * | 4.8 |
| Other | 7.3 | * | 7.1 |
| Number of men who have experienced sexual violence | 354 | 21 | 374 |

Note: The term husband includes a partner with whom a woman is living as if married; the term wife includes a partner with whom a man is living as if married. Percentages may add to more than $100 \%$ since the respondent can report more than one perpetrator. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.
na $=$ not applicable

### 3.20 Female Genital Mutilation/Cutting

Female genital mutilation/cutting (FGM/C), also known as female circumcision, is defined as any procedure that involves partial or total removal of the external genitalia and/or injury to the female genital organs, whether for cultural or any other nontherapeutic reasons (WHO, UNICEF, and UNFPA 1997). FGM/C is widely recognized as a violation of human rights and is deeply rooted in beliefs and perceptions over generations.

The 2010 Constitution of Kenya protects children and women from abuse, harmful cultural practices, and all forms of violence. The Government of Kenya has enacted legislation prohibiting FGM/C, including the Prohibition of Female Genital Mutilation Act, 2011 and the Children's Act, 2022. Furthermore, Sessional Paper No. 3 of 2019 on the National Policy for the Eradication of Female Genital Mutilation and the National Policy on Gender Based Violence 2019 guide the regulation of FGM/C in Kenya.

WHO classifies female genital mutilation into four main categories:
Type I: $\quad$ Excision of the prepuce with or without excision of part or all of the clitoris.
Type II: Excision of the clitoris with partial or total excision of the labia minora.
Type III: Excision of part or all of the external genitalia and stitching or narrowing of the vaginal opening (infibulation).
Type IV: Other forms, including pricking, piercing, or incising of the clitoris and/or labia; stretching of the clitoris and/or labia; cauterization by burning of the clitoris and surrounding tissue; scraping of tissue surrounding the opening of the vagina or cutting of the vagina; and introduction of corrosive substances or herbs into the vagina to cause bleeding or to tighten or narrow the vagina.

In the 2022 KDHS subsample of households selected for the male survey, women age 15-49 and men age 15-54 were asked if they had ever heard of female circumcision. In addition, women were asked whether they had ever been circumcised.

### 3.20.1 Respondents' Knowledge of Female Genital Mutilation

Table 33 and Table 33C present information on knowledge of female circumcision among women age 15-49 and men age 15-54. The results show that knowledge of female circumcision is almost universal among women and men age 15-49 (97\% each).

| Table 33 Knowledge of female circumcision |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Percentage of women and men age 15-49 who have heard of female circumcision, according to background characteristics, Kenya DHS 2022 |  |  |  |  |
| Background characteristic | Women |  | Men |  |
|  | Have heard of female circumcision | Number of women | Have heard of female circumcision | Number of men |
| Age |  |  |  |  |
| 15-19 | 94.4 | 3,125 | 93.8 | 3,175 |
| 20-24 | 96.9 | 3,063 | 97.9 | 2,404 |
| 25-29 | 97.7 | 2,916 | 98.2 | 2,268 |
| 30-34 | 97.7 | 2,364 | 98.0 | 1,787 |
| 35-39 | 97.5 | 2,288 | 99.0 | 1,577 |
| 40-44 | 98.3 | 1,615 | 98.8 | 1,332 |
| 45-49 | 97.2 | 1,346 | 98.9 | 1,109 |
| Residence |  |  |  |  |
| Urban | 98.0 | 6,850 | 97.5 | 5,382 |
| Rural | 96.2 | 9,866 | 97.2 | 8,270 |
| Education ${ }^{1}$ |  |  |  |  |
| No education | 92.4 | 920 | 93.8 | 369 |
| Primary | 95.1 | 6,107 | 95.4 | 4,894 |
| Secondary | 98.2 | 6,320 | 98.1 | 5,386 |
| More than secondary | 99.3 | 3,208 | 99.9 | 2,797 |
| Wealth quintile |  |  |  |  |
| Lowest | 93.2 | 2,599 | 95.8 | 2,062 |
| Second | 96.5 | 2,974 | 96.5 | 2,584 |
| Middle | 96.8 | 3,086 | 97.7 | 2,754 |
| Fourth | 98.1 | 3,729 | 97.5 | 3,325 |
| Highest | 98.6 | 4,328 | 98.5 | 2,927 |
| Total 15-49 | 96.9 | 16,716 | 97.3 | 13,652 |
| 50-54 | na | na | 99.0 | 801 |
| Total 15-54 | na | na | 97.4 | 14,453 |

[^9]Table 33C Knowledge of female circumcision by county
Percentage of women and men age 15-49 who have heard of female circumcision, according to county, Kenya DHS 2022

| County | Women |  | Men |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Have heard of female circumcision | Number of women | Have heard of female circumcision | Number of men |
| Mombasa | 96.6 | 493 | 97.1 | 442 |
| Kwale | 84.7 | 260 | 91.5 | 209 |
| Kilifi | 83.3 | 489 | 95.7 | 405 |
| Tana River | 93.0 | 79 | 94.8 | 64 |
| Lamu | 91.9 | 54 | 93.3 | 41 |
| Taita Taveta | 97.3 | 122 | 93.8 | 103 |
| Garissa | 98.8 | 163 | 96.0 | 117 |
| Wajir | 100.0 | 90 | 100.0 | 63 |
| Mandera | 98.6 | 113 | 97.2 | 81 |
| Marsabit | 97.1 | 72 | 99.3 | 45 |
| Isiolo | 97.4 | 76 | 100.0 | 55 |
| Meru | 99.7 | 488 | 100.0 | 489 |
| Tharaka-Nithi | 98.0 | 131 | 100.0 | 137 |
| Embu | 98.5 | 180 | 100.0 | 176 |
| Kitui | 94.8 | 373 | 97.9 | 312 |
| Machakos | 98.2 | 544 | 100.0 | 480 |
| Makueni | 97.4 | 356 | 97.2 | 279 |
| Nyandarua | 98.8 | 225 | 99.4 | 168 |
| Nyeri | 97.0 | 261 | 98.6 | 235 |
| Kirinyaga | 98.1 | 262 | 99.1 | 191 |
| Murang'a | 99.7 | 339 | 98.5 | 297 |
| Kiambu | 97.9 | 1,095 | 99.3 | 911 |
| Turkana | 84.4 | 172 | 85.3 | 111 |
| West Pokot | 99.4 | 197 | 98.9 | 150 |
| Samburu | 99.8 | 79 | 100.0 | 51 |
| Trans Nzoia | 98.2 | 359 | 99.0 | 272 |
| Uasin Gishu | 96.6 | 527 | 99.1 | 451 |
| Elgeyo Marakwet | 98.1 | 116 | 98.9 | 110 |
| Nandi | 94.1 | 332 | 98.9 | 265 |
| Baringo | 99.0 | 193 | 97.9 | 165 |
| Laikipia | 96.4 | 173 | 97.2 | 145 |
| Nakuru | 98.7 | 862 | 98.9 | 670 |
| Narok | 99.4 | 374 | 99.3 | 313 |
| Kajiado | 98.2 | 451 | 99.3 | 339 |
| Kericho | 98.4 | 372 | 100.0 | 330 |
| Bomet | 99.4 | 327 | 98.3 | 268 |
| Kakamega | 95.3 | 652 | 88.8 | 532 |
| Vihiga | 97.0 | 201 | 92.9 | 156 |
| Bungoma | 96.2 | 572 | 92.7 | 448 |
| Busia | 98.0 | 336 | 99.3 | 262 |
| Siaya | 95.4 | 275 | 93.8 | 227 |
| Kisumu | 98.6 | 396 | 99.5 | 345 |
| Homa Bay | 98.5 | 344 | 96.1 | 258 |
| Migori | 94.5 | 350 | 99.4 | 246 |
| Kisii | 100.0 | 463 | 99.3 | 326 |
| Nyamira | 98.9 | 168 | 98.5 | 133 |
| Nairobi City | 97.9 | 2,157 | 95.6 | 1,777 |
| Total | 96.9 | 16,716 | 97.3 | 13,652 |

Note: Data for this table were collected in the full woman's and man's questionnaires but not in the short questionnaires.

### 3.20.2 Prevalence and Type of Female Genital Mutilation

Table 34 and Table 34C present findings on the prevalence and type of female circumcision among women age $15-49$ by background characteristics. The prevalence of FGM is $15 \%$. Seventy percent of women who were circumcised were cut and flesh was removed.

Trends: The prevalence of FGM declined from 38\% in 1998 to $15 \%$ in 2022 (Figure 10). Since 2014, the percentage of circumcised women who were cut and had flesh removed declined from $87 \%$ to $70 \%$, while the percentage of circumcised women sewn closed increased from $9 \%$ to $12 \%$.

- The prevalence of FGM generally increases with age; $9 \%$ of women age 15-19 have been circumcised, compared with $23 \%$ of women age 45-49.

Figure 10 Trends in female genital mutilation

Percentage of women 15-49 circumcised


Note: Data from 2003 and later are nationally representative, while data collected before 2003 exclude the North Eastern region and several northern districts in the Eastern and Rift Valley regions.

## Table 34 Prevalence of female circumcision

Percentage of women age 15-49 circumcised, and percent distribution of circumcised women by type of circumcision, according to background characteristics, Kenya DHS 2022

| Background characteristic | Percentage of women circumcised | Number of women | Type of circumcision |  |  |  | Total | Number of circumcised women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cut, no flesh removed | Cut, flesh removed | Sewn closed | Don't know |  |  |
| Age |  |  |  |  |  |  |  |  |
| 15-19 | 9.1 | 3,125 | 11.9 | 67.3 | 12.6 | 8.1 | 100.0 | 286 |
| 20-24 | 9.9 | 3,063 | 13.9 | 63.3 | 13.0 | 9.9 | 100.0 | 303 |
| 25-29 | 13.2 | 2,916 | 12.0 | 69.5 | 12.0 | 6.4 | 100.0 | 384 |
| 30-34 | 16.1 | 2,364 | 11.3 | 69.8 | 12.7 | 6.2 | 100.0 | 380 |
| 35-39 | 18.7 | 2,288 | 12.3 | 70.1 | 11.6 | 6.0 | 100.0 | 428 |
| 40-44 | 23.8 | 1,615 | 11.1 | 72.9 | 10.9 | 5.1 | 100.0 | 385 |
| 45-49 | 23.1 | 1,346 | 10.9 | 76.6 | 7.9 | 4.5 | 100.0 | 311 |
| Residence |  |  |  |  |  |  |  |  |
| Urban | 9.7 | 6,850 | 14.0 | 61.6 | 16.7 | 7.7 | 100.0 | 662 |
| Rural | 18.4 | 9,866 | 11.1 | 73.1 | 9.7 | 6.1 | 100.0 | 1,815 |
| Education ${ }^{1}$ |  |  |  |  |  |  |  |  |
| No education | 56.3 | 920 | 4.1 | 70.4 | 17.9 | 7.6 | 100.0 | 518 |
| Primary | 18.4 | 6,107 | 11.2 | 73.8 | 9.7 | 5.3 | 100.0 | 1,126 |
| Secondary | 10.0 | 6,320 | 16.7 | 64.5 | 10.8 | 8.0 | 100.0 | 634 |
| More than secondary | 5.9 | 3,208 | 21.8 | 64.2 | 8.0 | 6.0 | 100.0 | 189 |
| Wealth quintile |  |  |  |  |  |  |  |  |
| Lowest | 32.0 | 2,599 | 8.8 | 74.7 | 11.3 | 5.2 | 100.0 | 832 |
| Second | 16.8 | 2,974 | 11.8 | 72.2 | 8.4 | 7.6 | 100.0 | 498 |
| Middle | 14.6 | 3,086 | 12.7 | 71.9 | 7.4 | 7.9 | 100.0 | 450 |
| Fourth | 11.0 | 3,729 | 15.7 | 61.4 | 16.4 | 6.5 | 100.0 | 409 |
| Highest | 6.6 | 4,328 | 14.3 | 62.2 | 17.3 | 6.2 | 100.0 | 287 |
| Total | 14.8 | 16,716 | 11.9 | 70.1 | 11.6 | 6.5 | 100.0 | 2,476 |

[^10]Table 34C Prevalence of female circumcision by county
Percentage of women age 15-49 circumcised, and percent distribution of circumcised women by type of circumcision, according to county, Kenya DHS 2022

| County | Percentage of women circumcised | Number of women | Type of circumcision |  |  |  | Total | Number of circumcised women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cut, no flesh removed | Cut, flesh removed | Sewn closed | Don't know/ missing |  |  |
| Mombasa | 3.9 | 493 | * | * | * | * | 100.0 | 19 |
| Kwale | 3.0 | 260 | * | * | * | * | 100.0 | 8 |
| Kilifi | 0.8 | 489 | * | * | * | * | 100.0 | 4 |
| Tana River | 60.1 | 79 | 1.5 | 45.1 | 47.9 | 5.5 | 100.0 | 48 |
| Lamu | 12.9 | 54 | (17.7) | (36.4) | (44.5) | (1.5) | 100.0 | 7 |
| Taita Taveta | 17.0 | 122 | (7.6) | (41.2) | (44.2) | (7.0) | 100.0 | 21 |
| Garissa | 82.5 | 163 | 5.5 | 46.8 | 30.6 | 17.1 | 100.0 | 134 |
| Wajir | 97.2 | 90 | 8.4 | 84.3 | 6.7 | 0.7 | 100.0 | 87 |
| Mandera | 95.9 | 113 | 5.6 | 72.6 | 15.9 | 5.8 | 100.0 | 108 |
| Marsabit | 83.0 | 72 | 6.8 | 77.3 | 9.3 | 6.6 | 100.0 | 60 |
| Isiolo | 66.0 | 76 | 0.5 | 44.9 | 39.3 | 15.3 | 100.0 | 50 |
| Meru | 18.8 | 488 | 8.7 | 72.2 | 14.2 | 4.8 | 100.0 | 92 |
| Tharaka-Nithi | 27.1 | 131 | 3.0 | 89.3 | 6.4 | 1.3 | 100.0 | 36 |
| Embu | 18.7 | 180 | 0.0 | 65.8 | 34.2 | 0.0 | 100.0 | 34 |
| Kitui | 11.1 | 373 | (11.3) | (79.4) | (6.4) | (2.9) | 100.0 | 41 |
| Machakos | 3.4 | 544 |  | * | * | * | 100.0 | 18 |
| Makueni | 0.7 | 356 | * | * | * | * | 100.0 | 2 |
| Nyandarua | 6.9 | 225 | * | * | * | * | 100.0 | 16 |
| Nyeri | 2.5 | 261 | * | * | * | * | 100.0 | 6 |
| Kirinyaga | 10.9 | 262 | (1.3) | (84.8) | (12.4) | (1.4) | 100.0 | 29 |
| Murang'a | 17.2 | 339 | (2.5) | (91.4) | (6.2) | (0.0) | 100.0 | 58 |
| Kiambu | 5.7 | 1,095 |  | * | * | * | 100.0 | 63 |
| Turkana | 0.6 | 172 | * | * | * | * | 100.0 | 1 |
| West Pokot | 44.2 | 197 | 1.1 | 86.9 | 10.3 | 1.8 | 100.0 | 87 |
| Samburu | 75.6 | 79 | 1.0 | 97.8 | 0.9 | 0.3 | 100.0 | 60 |
| Trans Nzoia | 8.2 | 359 | (32.8) | (53.8) | (13.3) | (0.0) | 100.0 | 29 |
| Uasin Gishu | 4.2 | 527 | * | * | * | * | 100.0 | 22 |
| Elgeyo Marakwet | 19.7 | 116 | 0.0 | 86.2 | 12.0 | 1.8 | 100.0 | 23 |
| Nandi | 2.5 | 332 | * | * | * | * | 100.0 | 8 |
| Baringo | 21.2 | 193 | 0.0 | 93.8 | 6.2 | 0.0 | 100.0 | 41 |
| Laikipia | 10.8 | 173 | (4.2) | (85.1) | (6.1) | (4.5) | 100.0 | 19 |
| Nakuru | 12.6 | 862 | 3.8 | 75.0 | 6.7 | 14.6 | 100.0 | 109 |
| Narok | 51.0 | 374 | 4.3 | 82.1 | 1.2 | 12.4 | 100.0 | 191 |
| Kajiado | 23.7 | 451 | 1.5 | 78.0 | 20.5 | 0.0 | 100.0 | 107 |
| Kericho | 10.1 | 372 | (5.9) | (86.0) | (8.1) | (0.0) | 100.0 | 38 |
| Bomet | 23.3 | 327 | 0.0 | 97.4 | 2.6 | 0.0 | 100.0 | 76 |
| Kakamega | 0.4 | 652 | * | * | * | * | 100.0 | 2 |
| Vihiga | 0.8 | 201 | * | * | * | * | 100.0 | 2 |
| Bungoma | 3.2 | 572 | * | * | * | * | 100.0 | 18 |
| Busia | 0.1 | 336 | * | * | * | * | 100.0 | 0 |
| Siaya | 0.5 | 275 | * | * | * | * | 100.0 | 1 |
| Kisumu | 1.0 | 396 | * | * | * | * | 100.0 | 4 |
| Homa Bay | 2.3 | 344 | * | * | * | * | 100.0 | 8 |
| Migori | 19.7 | 350 | 14.7 | 28.3 | 3.5 | 53.5 | 100.0 | 69 |
| Kisii | 77.3 | 463 | 31.0 | 64.7 | 0.5 | 3.7 | 100.0 | 358 |
| Nyamira | 74.7 | 168 | 23.0 | 69.5 | 1.3 | 6.2 | 100.0 | 126 |
| Nairobi City | 6.3 | 2,157 | (22.8) | (52.7) | (22.7) | (1.8) | 100.0 | 137 |
| Total | 14.8 | 16,716 | 11.9 | 70.1 | 11.6 | 6.5 | 100.0 | 2,476 |

[^11]
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[^0]:    ${ }^{1}$ Stillbirth, miscarriage, or abortion
    ${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest

[^1]:    Note: If more than one method is used, only the most effective method is considered in this tabulation.
    SDM $=$ Standard days method
    LAM $=$ Lactational amenorhea method

[^2]:    Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire.
    ${ }^{1}$ Includes children born in the 2 years preceding the survey regardless of whether they were living or dead at the time of the interview

[^3]:    ${ }^{1}$ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In KDHS and KMIS surveys conducted prior to 2020, this was known as a long-lasting insecticidal net (LLIN).
    ${ }^{2}$ De facto household members

[^4]:    Note: Data in this table were collected in the full woman's and man's questionnaires but not in the short questionnaires.
    ${ }^{1}$ Using condoms every time they have sexual intercourse
    ${ }^{2}$ Partner who has no other partners
    ${ }^{3}$ Knowledge about HIV prevention means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two common misconceptions about transmission or prevention of HIV: HIV can be transmitted by mosquito bites and a person can become infected by sharing food with a person who has HIV.
    ${ }^{4}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^5]:    Note: Data for this table were collected in the woman's full questionnaire but not in the short questionnaire. 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.
    Means are calculated excluding respondents who gave non-numeric responses.
    ${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^6]:    Note: Data for this table were collected in the woman's full questionnaire but not in the short questionnaire.
    ${ }^{1}$ Includes respondents who have not heard of HIV or who refused to answer questions on testing
    ${ }^{2}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^7]:    ${ }^{1}$ Includes physical violence in the last 12 months. For women who were married or living together with a partner before age 15 and reported violence only by their husband and for never-married women who had an intimate partner before age 15 and reported violence only by their intimate partner, the violence could have occurred before age 15.
    ${ }^{2}$ Includes women for whom frequency in the last 12 months is not known
    ${ }^{3}$ Includes physical violence in the last 12 months. For men who were married or living together with a partner before age 15 and reported violence only by their wife and for never-married men who had an intimate partner before age 15 and reported violence only by their intimate partner, the violence could have occurred before age 15.
    ${ }^{4}$ Includes men who reported physical violence in the last 12 months but for whom frequency is not known
    ${ }^{5}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^8]:    1 Includes physical violence in the last 12 months. For women who were married or living together with a partner before age 15 and reported violence only by their husband and for never-married women who had an intimate partner before age 15 and reported violence only by their intimate partner, the violence could have occurred before age 15.
    ${ }_{2}$ Includes women for whom frequency in the last 12 months is not known
    ${ }^{3}$ Includes physical violence in the last 12 months. For men who were married or living together with a partner before age 15 and reported violence only by their wife and for never-married men who had an intimate partner before age 15 and reported violence only by their intimate partner, the violence could have occurred before age 15.
    ${ }^{4}$ Includes men who reported physical violence in the last 12 months but for whom frequency is not known

[^9]:    Note: Data for this table were collected in the full woman's and man's questionnaires but not in the short questionnaires
    na $=$ not applicable
    ${ }^{1}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-
    level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^10]:    Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire.
    ${ }^{1}$ No education includes informal education (Madrassa/Duksi/adult education), and more than secondary includes middle-level colleges and universities. Excludes people who reported vocational training as the highest education level attended.

[^11]:    Note: Data for this table were collected in the full woman's questionnaire but not in the short questionnaire. 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.

