Nepal



Demographic and Health Survey



Key Indicators

Nepal

Demographic and Health Survey 2022

Key Indicators Report

Ministry of Health and Population Ram Shah Path Kathmandu, Nepal

> New ERA Kathmandu, Nepal

The DHS Program ICF Rockville, Maryland, USA

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Ministry of Health and Population

The 2022 Nepal Demographic and Health Survey (2022 NDHS) was implemented by New ERA under the aegis of the Ministry of Health and Population of Nepal. The funding for the NDHS was provided by the United States Agency for International Development (USAID). ICF provided technical assistance through The DHS Program, a USAID-funded project providing support and technical assistance in the implementation of population and health surveys in countries worldwide.

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CONTENTS

		,	•••••••
1	INTR	ODUCTION	1
	Surve	y Objectives	1
2	SURV	YEY IMPLEMENTATION	3
	2.1	Sample Design	3
	2.2	Questionnaires	4
	2.3	Anthropometry, Anemia Testing, and Blood Pressure Measurement	5
	2.4	Training of Trainers and Pretest	6
	2.5	Training of Field Staff	7
	2.6	Fieldwork	8
	2.7	Data Processing	8
3	KEY	FINDINGS	11
	3.1	Response Rates	11
	3.2	Characteristics of Respondents	11
	3.3	Fertility	13
	3.4	Teenage Fertility	14
	3.5	Fertility Preferences	16
	3.6	Family Planning	17
		3.6.1 Contraceptive use	17
		3.6.2 Need and demand for family planning	20
	3.7	Early Childhood Mortality	22
	3.8	Maternal Care	23
		3.8.1 Antenatal care	23
		3.8.2 Tetanus toxoid	24
		3.8.3 Delivery care	
		3.8.4 Postnatal care for the mother	
	3.9	Vaccination Coverage	27
		3.9.1 Basic antigen coverage	27
		3.9.2 Vaccination coverage according to the national schedule	
	3.10	Careseeking and Treatment of Child Illness	31
	3.11	Child Nutritional Status	32
	3.12	Infant and Young Child Feeding	35
	3.13	Anemia	
		3.13.1 Prevalence of anemia in children	
		3.13.2 Prevalence of anemia in women	
	3.14	HIV	40
		3.14.1 Knowledge of HIV prevention among young people	40
		3.14.2 Prior HIV testing	42
	3.15	Disability	45

TABLES AND FIGURES

Table 1	Results of the household and individual interviews	11
Table 2	Background characteristics of respondents	12
Table 3	Current fertility	14
Table 4	Teenage pregnancy	15
Table 5	Fertility preferences according to number of living children	16
Table 6	Current use of contraception according to background characteristics	
Table 7	Unmet need for family planning	21
Table 8	Early childhood mortality rates	22
Table 9	Maternal care indicators	24
Table 10	Childhood vaccinations by background characteristics	29
Table 11	Treatment for ARI symptoms, fever, and diarrhea	31
Table 12	Nutritional status of children	34
Table 13	Infant and young child feeding (IYCF) indicators	35
Table 14	Prevalence of anemia in children	37
Table 15	Prevalence of anemia in women	39
Table 16	Knowledge of HIV prevention methods among young people	41
Table 17.1	Coverage of prior HIV testing: Women	43
Table 17.2	Coverage of prior HIV testing: Men	44
Table 18	Disability by domain and age	45
Figure 1	Trends in fertility by residence	14
Figure 2	Trends in use, need, and demand for family planning	20
Figure 3	Trends in early childhood mortality rates	23
Figure 4	Trends in delivery assistance	26
Figure 5	Trends in childhood vaccinations	28
Figure 6	Trends in nutritional status of children	33
Figure 7	Trends in exclusive breastfeeding	36

ACRONYMS AND ABBREVIATIONS

ANC	antenatal care
ARI	acute respiratory infection
ART	antiretroviral therapy
ASFR	age-specific fertility rate
BCG	bacillus Calmette-Guérin
CAPI	computer-assisted personal interviewing
CBR	crude birth rate
CDC	Center for Disease Control
COVID-19	coronavirus disease of 2019
CSPro	Census and Survey Processing
DHS	Demographic and Health Survey
DPT	diphtheria, pertussis, and tetanus vaccine
GFR	general fertility rate
GPS	global position system
HepB	hepatitis B
Hib	Haemophilus influenzae type B
HIV	human immunodeficiency virus
IFSS	internet file streaming system
fIPV	fractional inactivated poliomyelitis vaccine
IUCD	intrauterine contraceptive device
IYCF	infant and young child feeding
JE	Japanese Encephalitis
LAM	lactational amenorrhea method
MoHP	Ministry of Health and Population
MR	measles rubella
NDHS	Nepal Demographic and Health Survey
NFHS	Nepal Family Health Survey
NHSS	Nepal Health Sector Strategy
NN	neonatal mortality
NPC	National Planning Commission
NPHC	Nepal Population and Housing Census
OPV	oral polio vaccine
ORS	oral rehydration salts
PCV	pneumococcal conjugate vaccine
PNC	postnatal care
PNN	postneonatal mortality
PSU	primary sampling unit

RT-PCR	reverse transcription polymerase chain reaction
RV	rotavirus vaccine
SD	standard deviation
SDG	Sustainable Development Goal
STI	sexually transmitted infection
TFR	total fertility rate
TPO	Transcultural Psychosocial Organization
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development
WG	Washington Group
WHO	World Health Organization

FOREWORD

The 2022 Nepal Demographic and Health Survey (NDHS) was conducted as a periodic update of the demographic and health information regarding the people of Nepal. The 2022 NDHS was the sixth DHS survey conducted in Nepal in collaboration with the worldwide Demographic and Health Surveys Program. The survey was implemented by New ERA under the aegis of the Ministry of Health and Population (MoHP), Government of Nepal. The survey was funded by the United States Agency for International Development (USAID), and ICF provided technical support.

The purpose of the 2022 NDHS was to generate reliable information on fertility levels, marriage, fertility preferences, awareness and use of family planning methods, breastfeeding practices, nutrition, maternal and child health, childhood mortality, awareness and behavior regarding HIV/AIDS and other sexually transmitted infections (STIs), women's empowerment and domestic violence, fistula, mental health, accident and injury, disability, food insecurity, and other health-related issues such as smoking, knowledge of tuberculosis, and prevalence of hypertension. Data collection for the survey was carried out from January 5, 2022, to June 22, 2022. This report, which presents key findings from the 2022 NDHS, is intended to provide policymakers and program managers with a first glimpse of the survey results. A more comprehensive, detailed report is scheduled for 2023.

The MoHP wishes to acknowledge the efforts of many individuals and organizations that contributed substantially to the success of the survey. First, we would like to express our gratitude to the Government of the Nepal for granting permission to implement the country's sixth DHS survey. Second, we would like to acknowledge the financial support and assistance of USAID. We would also like to thank ICF for technical backstopping throughout the survey.

The MoHP greatly appreciated the efforts on the part of New ERA in implementing the 2022 Nepal DHS survey. The survey could not have been completed successfully without the dedicated staff of New ERA, who planned, participated in, and oversaw the entire survey process. We would like to extend our gratitude to all the field staff who undertook the vital task of carrying out data collection for the NDHS with commitment, dedication, and hard work.

Finally, we are grateful to the survey respondents who generously gave their time to provide the information that forms the basis of this report. Likewise, we acknowledge the support received from the respective local authorities, whose assistance was vital to the successful implementation of the fieldwork.

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1 INTRODUCTION

The 2022 Nepal Demographic and Health Survey (NDHS) was implemented by New ERA under the aegis of the Ministry of Health and Population (MOHP). Data collection took place from January 5 to June 22, 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. Suaahara II, USAID's integrated nutrition activity,¹ supported the ethical review process of the survey in Nepal.

This Key Indicators Report presents a first look at selected findings from the 2022 NDHS. A comprehensive analysis of the data will be presented in a final report in 2023.

SURVEY OBJECTIVES

The primary objective of the 2022 NDHS is to present up-to-date estimates of basic demographic and health indicators. The NDHS provides a comprehensive overview of population, maternal, and child health issues in Nepal. Specifically, the 2022 NDHS collected information on fertility levels, marriage, fertility preferences, awareness and use of family planning methods, breastfeeding practices, nutrition, maternal and child health, childhood mortality, awareness and behavior regarding HIV and other sexually transmitted infections (STIs), women's empowerment and domestic violence, fistula, mental health, accident and injury, disability, food insecurity, and other health-related issues such as smoking, knowledge of tuberculosis, and prevalence of hypertension.

The information collected through the 2022 NDHS is intended to assist policymakers and program managers in designing and evaluating programs and strategies for improving the health of Nepal's population. The 2022 NDHS also provides indicators relevant to the Nepal Health Sector Strategy 2016–22, the next health sector strategic plan under development, and the Sustainable Development Goals (SDGs) for Nepal.

¹ The Suaahara II project is a 5-year (2016–21) integrated program in Nepal funded by USAID, which aims to improve the health and nutritional status of women and children who fall within the 1,000 days period, from conception until a child reaches 24 months of age.

2 SURVEY IMPLEMENTATION

2.1 SAMPLE DESIGN

The sampling frame used for the 2022 NDHS is an updated version of the frame of the Nepal Population and Housing Census (NPHC) conducted in 2011, provided by the Central Bureau of Statistics. The smallest administrative unit in Nepal is the sub-ward. The census frame includes a complete list of Nepal's 36,020 sub-wards. Each sub-ward has a residence type (urban or rural) and a measure of size is the number of households.

In September 2015, Nepal's Constituent Assembly declared changes in the administrative units and a reclassification of urban and rural areas in the country. Nepal is divided into seven provinces: Province 1, Madhesh Province, Bagmati Province, Gandaki Province, Lumbini Province, Karnali Province, and Sudurpashchim Province. Each province is divided into districts, districts into municipalities, municipalities into wards, and wards into sub-wards. Nepal has 77 districts, which include a total of 753 (local level) municipalities. Of the municipalities, 293 are urban and 460 are rural.

Originally, the 2011 NPHC included 58 urban municipalities. This number increased to 217 by 2015. On March 10, 2017, structural changes were made in the classification system for urban (Nagarpalika) and rural (Gaonpalika) locations. Nepal currently has 293 Nagarpalika, with 65% of the population living in these urban areas. The 2022 NDHS used this updated urban-rural classification system. The 2022 NDHS sample is a stratified sample selected in two stages. Stratification was achieved by dividing each of the seven provinces into urban and rural areas which together formed the sampling stratum for that province. A total of 14 sampling strata were created in this way. Implicit stratification with proportional allocation was achieved at each of the lower administrative levels by sorting the sampling frame within each sampling stratum before sample selection, according to administrative units in the different levels, and by using a probability-proportional-to-size selection at the first stage of sampling. In the first stage of sampling, 476 primary sampling units (PSUs) were selected with probability proportional to the PSU size and with independent selection in each sampling stratum within the sample allocation. Among the 476 PSUs, 248 were from urban areas and 228 were from rural areas. A household listing operation was carried out in all the selected PSUs before the main survey. The resulting list of households served as the sampling frame for the selection of sample households in the second stage. Thirty households were selected from each cluster, for a total sample size of 14,280 households. Of these, 7,440 households were in urban areas, and 6,840 households were in the rural areas. Some of the selected sub-wards were found to be overly large during the household listing operation. Selected sub-wards with an estimated number of households greater than 300 were segmented. Only one segment was selected for the survey with probability proportional to the segment size. Global positioning system (GPS) data was collected at the household level during the household listing and the individual interviews.

The survey interviewers were instructed to interview only the pre-selected households. To prevent bias, no replacements and no changes to the pre-selected households were allowed in the implementation stage. Because of the nonproportional sample allocation, the sample is not self-weighting at the national level. Weighting factors have been calculated, added to the data file, and applied, so the sample results are representative at the national level as well as at the provincial level.

All women age 15–49 who were permanent residents of the selected households or were visitors who stayed in the households the night before the survey, were eligible to be interviewed. In half of the households (every second household) selected, all men age 15–49 who were residents of the selected households or were visitors who stayed in the household the night before the survey, were eligible to be interviewed. The survey collected biomarker information from a subsample of the households.

2.2 QUESTIONNAIRES

Four questionnaires were used for the 2022 NDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, and the Biomarker Questionnaire. The questionnaires, based on The DHS Program's standard Demographic and Health Survey (DHS-8) questionnaires, were adapted to reflect the population and health issues relevant to Nepal. In addition, a self-administered Fieldworker Questionnaire collected information about the survey's fieldworkers. Input was solicited from various stakeholders representing government ministries and agencies, nongovernmental organizations, and international donors. The survey protocol was reviewed by the Nepal Health Research Council and the ICF Institutional Review Board. The 2022 NDHS required written consent from the household head to carry out the interviews and to test for anemia. Similarly, written consent/assent was required from individuals for anemia testing and from parents/guardians for children age 6–59 months.

After all questionnaires were finalized in English, they were translated into Nepali, Maithili, and Bhojpuri languages. The Household, Woman's, and Man's Questionnaires were programmed into tablet computers to facilitate computer-assisted personal interviewing (CAPI) for data collection purposes, with the capability to choose any of the three languages for each questionnaire. The Biomarker Questionnaire was completed on paper during the data collection and then entered in the CAPI system.

The Household Questionnaire was used to list all members of the households and visitors to selected households. Basic demographic information was collected on the characteristics of each person listed, including age, sex, marital status, education, and relationship to the head of the household. For children under age 18, the parents' survival status was determined. The data on age and sex of household members obtained in the Household Questionnaire were used to identify women and men who were eligible for the individual interviews. The Household Questionnaire also collected information on characteristics of the household dwelling unit, such as source of water, type of toilet facilities, materials used for the floor of the dwelling unit, and ownership of various durable goods. Additional modules on disability, accident and injury, and food insecurity were included in the household questionnaire.

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

- Background characteristics (including age, education, and media exposure)
- Pregnancy history and child mortality
- Knowledge, use, and source of family planning methods
- Fertility preferences (including desire for more children, ideal number of children)
- Antenatal, delivery, and postnatal care
- Vaccinations and childhood illnesses
- Breastfeeding and infant feeding practices
- Women's work and husbands' background characteristics
- Knowledge, awareness, and behavior regarding HIV and other sexually transmitted infections (STIs)
- Fistula
- Mental health
- Domestic violence
- Knowledge, attitudes, and behavior related to other health issues (for example, cancer, smoking, tuberculosis, and COVID-19)

The Man's Questionnaire was administered to all men age 15–49 in the subsample of households selected for the men's survey. The Man's Questionnaire collected much of the same information as the Woman's Questionnaire but was shorter because it did not contain a detailed reproductive history or questions on maternal and child health.

The Biomarker Questionnaire recorded the anthropometry measurements, anemia testing, and blood pressure measurements. These questionnaires were administered only in a subsample that was not selected

for the survey of men. All children age 0–59 months and all women age 15-49 in these households were eligible for height and weight measurements. Similarly, children age 6–59 months and women age 15–49 were eligible for anemia testing. Blood pressure was measured for all women and men age 15 and older in the subsample of households selected for biomarkers.

The Fieldworker Questionnaire recorded background information from the interviewers that will serve as a tool in conducting analyses of data quality. Each interviewer completed the self-administered Fieldworker Questionnaire after the final selection of interviewers and before the fieldworkers entered the field. No personal identifiers were attached to the 2022 NDHS fieldworker data file.

Tablet computers were used for data collection by the enumerators. The tablet computers were equipped with Bluetooth® technology to enable remote electronic transfer of files, such as assignments from the team supervisor to the interviewers, individual questionnaires to survey team members, and completed questionnaires from interviewers to team supervisors. The computer-assisted personal interviewing (CAPI) data collection system used in the 2022 NDHS was developed by The DHS Program with the mobile version of CSPro. The CSPro software was developed jointly by the U.S. Census Bureau, Serpro S.A., and The DHS Program.

2.3 ANTHROPOMETRY, ANEMIA TESTING, AND BLOOD PRESSURE MEASUREMENT

The 2022 NDHS biomarkers included anthropometric measurements, anemia testing, and measurement of blood pressure. Biomarker data was collected in half of the households that were not selected for the survey of men. Height and weight measurements were carried out for eligible women age 15–49 and children age 0–59 months in these households. Similarly, anemia testing was carried out for eligible women age 15–49 and children age 6–59 months in these households. Blood pressure measurements were collected for adults age 15 and above in half of the households selected for biomarkers, along with height and weight measurements.

Anthropometry. Weight measurements were taken using SECA scales with a digital display (model number SECA874U), designed and supplied by the United Nations Children's Fund (UNICEF). Height and length were measured with a measuring board (ShorrBoard®). Children younger than age 24 months were measured lying down (recumbent length), while older children and adults were measured standing (height).

To assess the precision of measurements, about 10% of children were randomly selected to be measured a second time. The DHS Program defines a difference of less than 1 centimeter between the two height measurements as an acceptable level of precision. Children with a *z* score of less than -3 or more than +3 for height-for-age, weight-for-height, or weight-for-age were flagged and measured a second time. The remeasurement of flagged cases was performed to ensure accurate reporting of height and weight measurements.

Children with a *z* score of less than -3 for weight-for-height were considered severely wasted (acute undernutrition) and were eligible for referral. The team supervisor or the biomarker specialist provided a referral form to the parent/responsible adult of the child identified with acute undernutrition. The referral form included the name, height (cm), weight (kg), and weight-for-height (*z* score) result for the child. The parent/responsible adult was informed about the effects of acute undernutrition and instructed to take the child to a local health facility to ensure the child receives proper assessment and treatment. They were instructed to take the referral form with them during such visits to the health facility.

Anemia. Blood specimens for anemia testing were collected from women age 15–49 who consented to be tested. Blood specimens were also collected from children age 6–59 months whose parents or guardians had given consent for the testing. Blood samples were drawn from a drop of blood taken from a finger prick (or a heel prick in the case of children age 6–11 months) and collected in a microcuvette. Hemoglobin analysis was carried out on-site using a battery-operated portable HemoCue® 201+ device.

Results were provided verbally and in writing to those being tested. Parents or guardians of children with a hemoglobin level below 7 g/dl were provided with a referral form and instructed to take the child to a health facility for follow-up care. Adults were also referred for follow-up care if their hemoglobin levels were below 7 g/dl.

Blood pressure. Blood pressure measurements were conducted on consenting women and men age 15 and above in the subsample of households selected for biomarkers. Blood pressure was measured using a Multi-User Upper Arm Blood Pressure Monitor with an automatic upper-arm inflation pressure release. Each team was equipped with three monitors having different cuff sizes: (a) UA-767F/FAC with medium cuff, (b) UA-767PVS with small cuff, and (c) UA-789AC with extra-large cuff. An additional cuff of each size was provided. Three blood pressure measurements were taken at intervals of 5 minutes or more. The average of the second and third measurements was used to classify the results of hypertension, according to internationally recommended categories (World Health Organization [WHO] 1999). Although electronic devices used in the survey do not contain mercury, blood pressure values were expressed in millimeters of mercury (mm Hg). The results of the blood pressure measurements, as well as information about the symptoms of high blood pressure and ways it can be prevented, were immediately provided to the respondent via the Blood Pressure Reporting Form. Respondents found to have high blood pressure, defined as systolic pressure greater than 140 mmHg and/or diastolic pressure greater than 90 mmHg, were provided a referral form to take to a local health facility.

2.4 TRAINING OF TRAINERS AND PRETEST

The orientation session for master trainers from the New ERA core team was held on September 19, 2021, followed by residential pretest training that took place from September 20 to October 4, 2021. The residential training adhered to the COVID-19 risk mitigation plan developed for the survey, which followed national guidelines. There was a total of 25 participants for the training (6 core team members, 4 data processing team members, 3 biomarker specialists, 9 female interviewers, and 3 male interviewers). The interviewers were recruited based on their experience working in household surveys, including the previous NDHS, and their language proficiency in the three local languages: Nepali, Maithili, and Bhojpuri. Training was facilitated by the ICF staff who focused on the technical components of the survey, biomarkers, and the CAPI system.

The training focused on key components of the survey including the following:

- Probing for age
- Interview techniques and procedures for completing the NDHS questionnaires
- Pregnancy history, family planning, and contraceptive calendar
- Completing the vaccination section
- Standardization procedures for anthropometry
- Blood pressure measurement, and anemia testing

The training adopted an integrated approach whereby discussions on technical content and instructions on navigating the CAPI system were conducted concurrently. This approach was facilitated by a mock interview that took the trainees step-by-step through the questionnaires during the different sessions. The participants also worked in groups using various training techniques, for example, interactive question-and-answer sessions, case studies, group work, and role play. Emphasis was placed on hands-on training and in-class exercises and becoming familiar with survey principles.

Representatives from the Ministry of Health and Population and USAID Nepal visited the training. Technical support for the Mental Health Module was provided by technical experts from Transcultural Psychosocial Organization Nepal (TPO Nepal) who supported the training. The anthropometry standardization exercise was conducted and completed successfully by all the biomarker specialists. Fieldwork for the pretest was carried out from October 6 to October 10, 2021, in three locations featuring the three languages of Nepal (Maithili, Bhojpuri, and Nepali). Three teams were deployed, one for each language. The locations were in Sarlahi district for Maithili, Bara district for Bhojpuri, and Makwanpur district for Nepali. Each team carried out the fieldwork in an urban and a rural location, completing six clusters in total. Following the fieldwork, a debriefing session was held with the pretest field staff on October 11, 2021. Modifications were made to the questionnaires based on lessons drawn from the exercise.

2.5 TRAINING OF FIELD STAFF

The main training for the 2022 NDHS was held at a residential facility in Kathmandu from November 28 to December 23, 2021, followed by four days of field practice and a review session held on December 29, 2021. After an intense recruitment process that included a written test, a computer test, and a personal interview, the shortlisted candidates took RT-PCR tests for COVID-19. Those presenting negative results for the RT-PCR test were invited to join the training in the residential facility. Almost all the selected participants were fully vaccinated against COVID-19; a few received their second dose during the training. The training followed strict guidelines for COVID-19 risk mitigation that included:

- Daily symptom checks using a Google form developed and coordinated by New ERA
- Daily temperature checks at the venue
- Changing masks upon arrival at the venue and wearing those throughout the sessions
- Regular use of hand sanitizer
- Special seating arrangements
- Maintaining physical distance

Three training halls were used, two for training interviewers and one for training biomarker specialists.

Participants for the main training included 123 trainees (61 females and 62 males). Among these, 19 were assigned as male supervisors, 19 as male interviewers, 57 as female interviewers, and 20 males as biomarker specialists. Further, there were 4 male and 4 female quality control team members who participated during the main training. Most supervisors and interviewers had previous experience in conducting household surveys, including the previous rounds of the NDHS. The biomarker specialists had previous experience in collecting biomarker data.

The main training was facilitated by the research team of New ERA with technical backstopping from ICF staff. The training adopted the integrated training approach as was done during the pretest training. The first two weeks of training included all the participants (including the biomarker specialists). It focused on the technical content of the questionnaires and used the CAPI system as the data collection tool. The CAPI components were embedded throughout the sessions and the different options in the interviewer's menu and toolbars were introduced as necessary to enable efficiency while navigating the CAPI system. The training included role play, demonstrations, discussions, mock interviews, videos, practical exercises, and quizzes. Resource persons from the Ministry of Health and Population were invited provide technical background on key topics such as family planning and reproductive health, maternal and newborn health, child health and immunization, and nutrition. A resource person from TPO Nepal was invited to support and facilitate the training on mental health as it related to the Mental Health Module.

The biomarker training took place from December 12 to December 23, 2021. The training utilized a variety of different learning tools such as formal lectures on technical aspects of biomarker collection, target population and eligibility, videos to demonstrate the process of anthropometry and blood collection, hands-on demonstrations, group reading sessions, and in-house practice sessions.

Biomarker specialists were trained to measure the height and weight of children and adults using standard anthropometric procedures. The training for child height measurement included standardization exercises, and re-standardization exercises for those biomarker specialists who did not pass the standardization exercises. This training involved three visits to a daycare center that New ERA had organized. The biomarker training included measurement of hemoglobin levels in women age 15–49 and children age 6–59 months through collection of capillary blood. Blood pressure measurements were taken for adults age15 and above.

A separate session was held for the supervisors and the quality control teams on December 17 and December 23, 2021, to provide training on fieldwork management and data quality monitoring. These sessions included discussions on roles and responsibilities, preparation and mobilization for fieldwork, managing assignments for biomarker specialists and facilitating remeasurements, completing biomarker checklists, conducting re-interviews in CAPI, and monitoring the progress and workload of team members.

On completion of the training, field practice was carried out in Chandranigahapur, in the terai ecological zone, about 100 miles from Kathmandu City, where all three languages could be practiced. The teams departed on December 24, 2021, and the field practice was carried out from December 25 to December 28, 2021. Nineteen teams, consisting of a supervisor, one male interviewer, three female interviewers, and one biomarker specialist carried out the field practice. A review session was held on December 29, 2021, to discuss the experience and feedback from the field practice. Overall, it was a fruitful exercise whereby the teams could experience real field conditions and be prepared before being mobilized for the actual data collection.

2.6 FIELDWORK

Data collection for the 2022 NDHS was carried out by 19 teams. Each team consisted of a supervisor, one male interviewer, three female interviewers, and one biomarker specialist. The teams were first deployed in locations away from Kathmandu because at that time the capital city was a COVID-19 hotspot. The fieldwork began on January 5, 2022, in two central locations—Itahari and Chitwan—under close supervision. On completion of the fieldwork in these first locations, a review session was held on January 9, 2022, and the teams departed to their respective assigned clusters on January 10, 2022, to continue with data collection for the survey. Caution was taken while mobilizing the teams throughout the data collection period to mitigate the risk of COVID-19. Except for few mild cases, there were no major impacts of COVID-19 during data collection. The fieldwork was slightly disrupted when local elections took place. The field teams had to go home to cast their votes, and the local people were engaged in election activities. Data collection activities were completed on June 22, 2022.

Fieldwork monitoring was an integral part of the 2022 NDHS, and several rounds of monitoring were carried out by the New ERA core team and quality control teams. ICF provided technical assistance during the data collection period through weekly virtual meetings. The technical teams from the Ministry of Health and Population, Nepal Health Research Council, and USAID Nepal made several field visits to ensure data collection was carried according to the protocol. Regular feedback was provided to the teams by the New ERA core team.

2.7 DATA PROCESSING

Data capture for the 2022 NDHS was carried out with Microsoft Surface Go 2 tablets running Windows 10.1. Software was prepared for the survey using the Census and Survey Processing System (CSPro). The processing of the 2022 NDHS data began shortly after the fieldwork started. When data collection was completed in each cluster, the electronic data files were transferred via the internet file streaming system (IFSS) to the New ERA central office in Kathmandu. The data files were registered and checked for inconsistencies, incompleteness, and outliers. Errors and inconsistencies were immediately communicated to the field teams for review so those problems would be mitigated going forward. Secondary editing, carried out in the central office at New ERA, involved resolving inconsistencies and coding the open-ended questions. The New ERA senior data processor coordinated the exercise at the central office. The NDHS core team members assisted with the secondary editing. The paper Biomarker Questionnaires were compared with the electronic data file to check for any inconsistencies in data entry. The pictures of

vaccination cards that were captured during data collection were verified with the data entered. Data processing and editing were carried out using the CSPro software package. The concurrent data collection and processing offered a distinct advantage because it maximized the likelihood of the data being error-free and accurate. Timely generation of field check tables allowed for effective monitoring. The secondary editing of the data was completed by July 2022 and the final cleaning of the data set was completed by the end of August 2022.

Throughout this report, numbers in the tables reflect weighted numbers. Percentages based on 25 to 49 unweighted cases are shown in parentheses and percentages based on fewer than 25 unweighted cases are suppressed and replaced with an asterisk. This is to caution readers when interpreting data that a percentage based on fewer than 50 cases might not be statistically reliable.

3 KEY FINDINGS

3.1 RESPONSE RATES

Table 1 shows the results of the household and individual interviews, and response rates, according to residence, for the 2022 NDHS. A total of 14,243 households were selected for the 2022 NDHS sample, of which 13,833 were found to be occupied. Of the occupied households, 13,786 were successfully interviewed, yielding a response rate of 99.7%. In the interviewed households, 15,238 women age 15–49 were identified as eligible for individual interview. Interviews were completed with 14,845 women, yielding a response rate of 97%. In the subsample of households selected for the men's survey, 5,185 men age 15–49 were identified as eligible for individual interview and 4,913 were successfully interviewed, yielding a response rate of 95%.

Table 1 Results of the household and individual interviews

Number of households, number of interviews, and response rates, according to residence (unweighted), Nepal DHS 2022

	Resid		
Result	Urban	Rural	Total
Household interviews			
Households selected	7,447	6,796	14,243
Households occupied	7,226	6,607	13,833
Households interviewed	7,195	6,591	13,786
Household response rate ¹	99.6	99.8	99.7
Interviews with women age 15-49			
Number of eligible women	8,260	6,978	15,238
Number of eligible women interviewed	8,019	6,826	14,845
Eligible women response rate ²	97.1	97.8	97.4
Household interviews in subsample			
Households selected	3,721	3,399	7,120
Households occupied	3,602	3,296	6,898
Households interviewed	3,590	3,286	6,876
Household response rate in subsample ¹	99.7	99.7	99.7
Interviews with men age 15-49			
Number of eligible men	2,901	2,284	5,185
Number of eligible men interviewed	2,717	2,196	4,913
Eligible men response rate ²	93.7	96.1	94.8

¹ Households interviewed/households occupied.

² Respondents interviewed/eligible respondents.

3.2 CHARACTERISTICS OF RESPONDENTS

Table 2 shows the percent distribution of weighted and unweighted women and men age 15–49 interviewed in the 2022 NDHS survey, by background characteristics. Results presented in this report are based on weighted data, so they are representative of the country as a whole, by urban and rural residence, by province, and by urban and rural residence within each province.

- More than half of the women and men interviewed were under age 30 (52% each).
- Women were less likely to report that they have good or very good health than men (34% and 48%, respectively).
- About four in five women and men are Hindu (83% and 82%, respectively) while 7% of women and 8% of men are Buddhist. Five percent of women and men are Muslim, 3% are Kirat, and 3% are Christian.
- Janajati are the dominant ethnic group (37% of women and 38% of men) followed by Brahmin/Chhetri (28% of women and 25% of men). Sixteen percent of women and 19% of men are Madhesi and 15% of women and 13% of men belong to Dalit ethnic group.

- Twenty-two percent of women and 36% of men have never been married. A majority of women (75%) and men (63%) are married.
- The majority of the women (69%) and men (71%) reside in urban areas.
- Twenty-one percent of women and 25% of men live in Bagmati Province followed by 20% each in Madhesh Province.
- Thirty-nine percent of women and 46% of men have at least some secondary education while 4% of women and 8% of men have more than secondary education.2 Twenty-six percent of women and 8% of men have no education.

Percent distribution of women an	Percent distribution of women and men age 15–49 by selected background characteristics, Nepal DHS 2022								
		Women	Women		Men				
Background characteristic	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighted number			
Age									
15–19	17.8	2,643	2,777	20.0	985	1,011			
20–24	17.8	2,637	2,623	17.5	857	818			
25–29	16.4	2,435	2,361	14.6	716	709			
30–34	14.4	2,144	2,065	12.5	616	610			
35–39	13.6	2,025	2,002	13.0	639	631			
40–44	11.0	1,629	1,650	12.3	604	616			
45–49	9.0	1,332	1,367	10.1	496	518			
Self-reported health status									
Very good	5.6	826	672	8.6	423	347			
Good	28.1	4,168	3,902	38.9	1,913	1,891			
Moderate	56.7	8,423	8,683	47.8	2,348	2,417			
Bad	9.0	1,335	1,490	4.4	216	243			
Very bad	0.6	93	98	0.3	13	15			
Religion									
Hindu	83.4	12,374	12,618	81.9	4,025	4,097			
Buddhist	6.5	970	848	7.9	389	349			
Muslim	4.6	682	523	4.7	231	179			
Kirat	2.5	365	371	2.8	139	150			
Christian	3.0	445	477	2.5	123	134			
Other	0.1	8	8	0.1	6	4			
Ethnic group									
Brahmin/Chhetri	28.0	4,152	4,843	25.1	1,232	1,438			
Dalit	15.1	2,240	2,488	13.4	658	721			
Janajati	36.6	5,428	5,091	38.0	1,869	1,805			
Madhesi	15.7	2,333	1,892	18.7	917	767			
Muslim	4.6	676	518	4.6	228	177			
Others	0.1	15	13	0.2	8	5			
Marital status									
Never married	21.6	3,203	3,123	36.0	1,768	1,679			
Married or living together	75.3	11,180	11,258	62.9	3,090	3,179			
Divorced/separated	1.1	170	155	0.6	31	33			
widowed	2.0	292	309	0.3	12	14			
Residence									
Urban	68.6	10,178	8,019	70.5	3,462	2,717			
Rural	31.4	4,667	6,826	29.5	1,451	2,196			
Ecological zone									
Mountain	5.3	791	1,262	5.2	255	407			
Hill	39.6	5,872	6,606	40.2	1,973	2,150			
lerai	55.1	8,182	6,977	54.6	2,685	2,356			

Continued...

² The education system in Nepal has been amended based on the Education Act Eight Amendment Bill 2016 (MoEST 2021). The 2022 NDHS refers to this amendment and differs from the previous NDHS surveys.

		Women			Men	
Background characteristic	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighted number
Brovince	P • • • • • •			F		
Province 1	16.8	2 4 9 3	2 209	18.0	882	795
Urban	11.0	1 640	1 135	12.3	604	431
Bural	57	853	1 074	57	278	364
Madhesh Province	20.3	3 010	2 499	20.3	997	882
Urban	15.0	2 226	1 422	14.7	722	487
Rural	5.3	783	1 077	5.6	275	395
Bagmati Province	20.6	3 062	2 106	24.7	1 214	831
Urban	16.6	2 464	1 274	20.7	1,016	535
Rural	4.0	599	832	4.0	198	296
Gandaki Province	9.4	1 401	1 682	79	387	505
Urban	6.7	992	897	5.4	264	246
Bural	2.8	409	785	2.5	123	259
Lumbini Province	18.1	2 691	2 266	16.5	812	718
Lirban	10.1	1 553	1 21/	0.5	468	386
Bural	77	1,333	1,214	7.0	344	332
Karnali Province	61	909	1 978	5.4	266	604
Lirban	3.4	507	968	3.1	154	306
Rural	27	402	1 010	23	113	298
Sudurpashchim Province	8.6	1 270	2 105	7.2	355	578
Urban	5.0	706	1 100	1.2	222	376
Purol	3.4	190	006	4.7	200	320
Rulai	5.5	404	990	2.5	122	232
Education						
No education	25.6	3,796	4,005	8.0	393	394
Basic education (1–8)	31.0	4,595	4,751	38.6	1,898	1,977
Lower basic education (1–5)	15.6	2,314	2,329	18.1	891	924
Upper basic education (6–8)	15.4	2,281	2,422	20.5	1,007	1,053
Secondary (9–12)	39.1	5,798	5,603	45.7	2,244	2,233
Lower secondary (9–10)	22.0	3,270	3,209	26.1	1,284	1,321
Higher secondary (11–12)	17.0	2,529	2,394	19.5	959	912
More than secondary						
(13 and above)	4.4	656	486	7.7	377	309
Wealth quintile						
lowest	17 7	2 628	3 997	15.3	751	1 170
Second	19.2	2.857	3.029	19.0	933	997
Middle	20.4	3.028	2,965	19.5	957	965
Fourth	21.5	3,197	2,733	23.1	1.135	978
Highest	21.1	3,135	2,121	23.1	1,137	803
	2	0,100	_,	20.1	1,107	000
Total 15–49	100.0	14,845	14,845	100.0	4,913	4,913

Note: Education categories refer to the highest level of education attended, whether or not that level was completed. Education classification is based on the Education Act Eight Amendment Bill 2016.

3.3 FERTILITY

Under SDG 3.7.1 (b) the government of Nepal targets achieving a total fertility rate of 2.1 births per woman by 2030 (National Planning Commission, 2020). **Table 3** shows the total fertility rate (TFR) and the 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 Nepal would bear an average of 2.1 children in her lifetime.
- Fertility is low among adolescents (71 births per 1,000 women age 15–19), peaks at 160 births per 1,000 among women age 20–24, and then deceases thereafter.

Table 3 Current fertility

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

	_		
Age group	Urban	Rural	Total
10–14	[0]	[0]	[0]
15–19	64	86	71
20–24	149	184	160
25–29	104	124	110
30–34	55	60	57
35–39	16	20	17
40-44	4	6	5
45–49	[1]	[0]	[1]
TFR (15–49)	2.0	2.4	2.1
GFR	73	88	78
CBR	19.3	21.4	20.0

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

Trends: There has been a steady decline in the TFR from 4.8 births per woman in the 1996 NFHS to 2.1 births per woman in the 2022 NDHS (Figure 1). While the fertility rate has stagnated in urban areas, the decline is prominent in rural areas. The reclassification of urban and rural areas could have an impact on these rates.



Figure 1 Trends in fertility by residence

3.4 TEENAGE FERTILITY

Teenage pregnancy

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

Table 4 shows the percentage of women age 15–19 who have ever been pregnant at the time of the survey, according to background characteristics.

• Overall, 14% of women age 15–19 have ever been pregnant, including 10% who have had a live birth, 2% who have had a pregnancy loss, and 4% who are currently pregnant.

- The percentage of women age 15–19 who have ever been pregnant rises with age, from 1% at age 15 to 32% by age 19.
- Teenage pregnancy is highest in Karnali Province (21%), followed by Madhesh Province (20%), and lowest in Bagmati Province (8%).
- Women age 15–19 with no education (33%) are more likely to start childbearing earlier than those with at least some secondary education (8%).

Table 4 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, Nepal DHS 2022

	Percentage of women age 15–19 who:							
Background characteristic	Have ever had a live birth	Have ever had a pregnancy loss ¹	Are currently pregnant	Have ever been pregnant	Number of women			
Age 15 16 17 18 19	0.4 2.2 7.1 14.0 24.8	0.5 0.5 1.1 2.0 5.6	0.4 2.2 3.3 5.9 9.3	1.1 4.6 10.5 20.1 31.7	510 539 493 622 479			
Ethnic group Brahmin/Chhetri Dalit Janajati Madhesi Muslim Others	5.7 15.5 9.2 8.4 15.5	1.1 3.8 1.6 1.3 3.1	2.0 5.3 4.1 6.1 6.5	7.8 20.7 12.9 13.5 22.2	724 471 839 434 171 3			
Residence Urban Rural	8.6 11.6	1.8 2.1	4.5 3.7	12.9 14.9	1,758 885			
Ecological zone Mountain Hill Terai	13.6 9.3 9.4	2.8 2.0 1.7	2.4 3.4 5.0	15.8 12.5 14.1	148 1,011 1,483			
Province Province 1 Urban Rural Madhesh Province Urban Rural Bagmati Province Urban Rural Gandaki Province Urban Rural Lumbini Province Urban Rural Karnali Province Urban Rural Sudurpashchim Province Urban Rural Sudurpashchim Province	$10.9 \\ 8.7 \\ 14.2 \\ 12.4 \\ 11.8 \\ 13.9 \\ 4.8 \\ 3.4 \\ 9.4 \\ 11.5 \\ 10.6 \\ 13.9 \\ 6.3 \\ 6.6 \\ 5.7 \\ 16.6 \\ 15.8 \\ 17.5 \\ 8.8 \\ 8.0 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 \\ 10.1 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\\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 \\ 12.9 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Education No education Basic education (1–8) Lower basic education (1–5) Upper basic education (6–8) Secondary (9–12) Lower secondary (9–10) Higher secondary (11–12) More than secondary (13 and abour)	27.5 14.1 20.1 11.5 5.4 6.3 4.0	2.2 3.3 6.7 1.8 1.0 1.0 1.1	9.4 6.2 5.3 2.6 3.1 1.9	32.7 19.8 28.8 16.0 8.2 9.6 6.2	140 927 278 650 1,572 956 616			

Continued...

Table 4—Continued									
	I	Percentage of women age 15–19 who:							
Background characteristic	Have ever had a live birth	Have ever had a pregnancy loss ¹	Are currently pregnant	Have ever been pregnant	Number of women				
Wealth quintile									
Lowest	14.8	2.7	3.1	17.4	535				
Second	13.3	2.4	4.9	18.5	568				
Middle	10.5	1.8	5.2	13.9	533				
Fourth	6.1	1.8	5.6	12.1	571				
Highest	2.1	0.5	1.7	4.0	436				
Total	9.6	1.9	4.2	13.6	2,643				

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

3.5 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

Information on fertility preferences is used to assess the potential demand for family planning services for the purposes of spacing or limiting future childbearing. **Table 5** shows fertility preferences among currently married women age 15–49 by number of living children.

- Ten percent (10%) of women want another child soon (within the next 2 years), 13% want to have another child later (in 2 or more years), and 1% want another child but have not decided when.
- Fifty-three percent (53%) of women want no more children, 17% are sterilized, and 3% stated that they are infecund.
- The percentage of women who want another child soon decreases from 59% among those with no living children to 2% or less among those with three or more children. In general, the more children a woman has, the higher the likelihood that she does not want another child or is sterilized.

Table 5 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, Nepal DHS 2022

	Number of living children ¹							
Desire for children	0	1	2	3	4	5	6+	Total
Have another soon ²	59.3	15.1	4.1	1.8	1.0	1.4	0.2	9.9
Have another later ³	30.2	37.2	4.6	1.7	0.7	0.1	0.0	13.2
Have another, undecided when	2.3	1.9	0.4	0.2	0.1	0.0	0.0	0.8
Undecided	1.4	9.1	2.3	1.5	1.2	0.4	0.0	3.5
Want no more	1.8	33.2	69.7	59.0	59.3	59.7	69.5	52.5
Sterilized ⁴	1.2	1.8	17.5	31.7	31.8	27.7	22.3	17.0
Declared infecund	3.9	1.6	1.5	4.1	5.8	10.6	8.0	3.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of women	818	2,714	3,905	2,140	1,046	353	205	11,180

¹ The number of living children includes a woman's current pregnancy

² Wants next birth within 2 years

³ Wants to delay next birth for 2 or more years

⁴ Includes both female and male sterilization

3.6 FAMILY PLANNING

3.6.1 Contraceptive use

Contraceptive prevalence

Percentage of women who use any contraceptive method. *Sample:* Currently married women age 15–49

Modern methods

Include male and female sterilization, injectables, intrauterine contraceptive device (IUCD), contraceptive pill, implants, male condoms, emergency contraception, the standard days method, and lactational amenorrhea method.

The government of Nepal's target under SDG 3.7.1 (a) includes specific targets for use of modern methods of contraception by women of reproductive age (15–49). The targets are 53% by 2022 and 60% by 2030 (Ministry of Health and Population 2022). **Table 6** shows current levels of contraceptive use among currently married women age 15–49.

- Fifty-seven (57%) of currently married women are using a method of contraception; 43% are using a modern method, and 15% are using a traditional method.
- The most popular modern methods used are female sterilization (13%), injectables (9%), and implants (6%).
- Withdrawal is by far the most common traditional method used; 13% of currently married women use this method compared with 2% who use the rhythm method.

Trends: Use of any family planning method among currently married women rose from 29% in 1996 to 57% in 2022. Over the same period, use of modern methods of contraception increased from 26% in 1996 to 44% in 2006. It has held steady at 43% from 2011 through 2022 (**Figure 2**).

Table 6 Current use of contraception according to background characteristics

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metric	ckground	Any	Any modern	Female	Male	-	Modern	nethoa	Ē	Male	+C	Any tradi- tional		al method	Not currently	F	Number of
Control Control <t< th=""><th>acteristic</th><th>method</th><th>method</th><th>sterilization</th><th>sterilization</th><th>INCD</th><th>Injectables</th><th>Implants</th><th>Ē</th><th>condom</th><th>Other</th><th>method</th><th>Knythm</th><th>Withdrawal</th><th>nsıng</th><th>l otal</th><th>women</th></t<>	acteristic	method	method	sterilization	sterilization	INCD	Injectables	Implants	Ē	condom	Other	method	Knythm	Withdrawal	nsıng	l otal	women
	ber of living children	20.9	8.3	0.2	0.8	0.0	0.6	0.1	0.7	6.0	0.1	12.6	0.9	11.7	79.1	100.0	1.055
1 57.2 21.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 1.1 2.8 3.17 1.00 3.13 4 32.1 3.4 5.1 2.4 5.1 1.4 5.1 1.4 1.6 1.4 1.6 1.4 1.6 1.4 1.6 1.7 1.1 2.8 3.17 1.00 3.13 4 3.11 3.12 3.11 3.12 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 3.11 <		57.3	40.1	8.6	2.8	1.3	10.4	6.0	5.5	5.5	0.1	17.1	1.7	15.4	42.7	100.0	6,449
613 611 214 51 17 115 102 31 20 103 63 367 1000 863 9 366 143 11 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 113 <		68.3	57.2	26.4	5.9	1.5	9.7	7.5	3.9	2.3	0.1	11.1	2.8	8.3	31.7	100.0	3,133
		63.3	55.1	21.4	5.1	1.7	11.6	10.2	3.1	2.0	0.0	8.2	1.9	6.3	36.7	100.0	543
4 386 3.24 1.7 0.2 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 0.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 <td>0</td> <td>28.2</td> <td>14.2</td> <td>0.1</td> <td>0.0</td> <td>0.1</td> <td>6.6</td> <td>1.4</td> <td>1.6</td> <td>4.4</td> <td>0.0</td> <td>14.0</td> <td>2.1</td> <td>11.9</td> <td>71.8</td> <td>100.0</td> <td>563</td>	0	28.2	14.2	0.1	0.0	0.1	6.6	1.4	1.6	4.4	0.0	14.0	2.1	11.9	71.8	100.0	563
9 921 731 734 164 031 734 164 033 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 155 154 154 154 155 154 154 155 154 156 154 156 155 156 154 156 155 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156	4	38.6	24.9	1.7	0.2	0.5	0.0	4.8	4.2	4.4	0.2	13.7	1.9	11.8	61.4	100.0	1,783
4 611 513 513 514 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 52 52 52 52 51 51 51 53 51 53 51 53 51 53 51 53 51 53 53 51 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 53 <th< td=""><td>o</td><td>52.1</td><td>37.4</td><td>6.4</td><td>0.3</td><td>1.6</td><td>11.8</td><td>6.8</td><td>4.8</td><td>5.6</td><td>0.1</td><td>14.7</td><td>1.7</td><td>13.1</td><td>47.9</td><td>100.0</td><td>2,198</td></th<>	o	52.1	37.4	6.4	0.3	1.6	11.8	6.8	4.8	5.6	0.1	14.7	1.7	13.1	47.9	100.0	2,198
	4	61.1	45.3	11.4	2.5	1.8	11.9	6.9	5.6	5.2	0.1	15.8	2.1	13.7	38.9	100.0	2,027
4 711 561 28 78 16 71 561 28 70 171 561 289 100 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 <	0	69.8	55.6	21.9	4.6	1.5	9.5	8.3	5.2	4.6	0.0	14.3	1.6	12.6	30.2	100.0	1,906
000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 <td>4</td> <td>71.1</td> <td>56.1</td> <td>25.8</td> <td>7.8</td> <td>1.6 0.1</td> <td>7.6</td> <td>5.9</td> <td>4.7</td> <td>2.7</td> <td>0.0</td> <td>15.0</td> <td>2.4</td> <td>12.6</td> <td>28.9</td> <td>100.0</td> <td>1,515</td>	4	71.1	56.1	25.8	7.8	1.6 0.1	7.6	5.9	4.7	2.7	0.0	15.0	2.4	12.6	28.9	100.0	1,515
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	nin/Chhetri	60.0	39.6	6.7	7.4	1.8	8.6	5.1	4.0	5.9	0.1	20.4	1.0	19.4	40.0	100.0	3,031
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lical zone lical zone lical zone 62.7 50.1 3.2 11.0 1.6 1.7 0.1 2.8 0.6 12.1 37.3 100.0 6276 55.4 43.0 20.4 1.5 1.6 1.7 4.1 4.7 5.1 0.1 2.4 0.0 1.8 7.7 4.1 4.7 5.1 0.0 1.8 7.7 5.6 3.6 0.0 1.8 7.7 5.6 3.6 0.0 1.8 7.7 5.6 3.6 0.0 1.8 7.7 5.7 2.4 0.0 6.77 6.27 1.6 7.7 5.7 5.7 5.7 5.7 5.1 5.00 2.41 5.10 0.00 6.276 60.1 $4.4.9$ 1.0 7.7 5.6 2.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7		58.0	46.8	12.8	3.8	1.1	12.1	9.1	4.7	3.2	0.1	11.2	2.1	9.1	42.0	100.0	3,627
tain $\mathbb{E}_2^7 = 50.1 = 3.2 = 110 = 16 = 17.8 = 10.1 = 2.8 = 3.4 = 0.2 = 12.6 = 0.6 = 12.1 = 37.3 = 1000 = 62.7 = 55.4 = 4.7 = 55.1 = 0.1 = 11.1 = 8.4 = 4.7 = 5.1 = 0.0 = 18.0 = 1.4 = 16.6 = 40.9 = 1000 = 6.276 = 5.4 = 3.5 = 1.0 = 1.2 = 3.5 = 10.0 = 1.2 = 3.5 = 10.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.0 = 1.2 = 3.5 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = 1.2 = $	ical zone																
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55.4 4.3.0 20.4 1.5 1.0 7.2 4.1 4.5 4.2 0.1 1.2.4 2.5 9.9 44.6 1000 6.276 Coef 61.5 4.2.5 1.2 1.2 1.2 7.7 5.6 3.6 0.0 18.0 2.7 15.3 3.85 100.0 6.274 Incet 62.3 42.9 12.8 1.2 10.6 7.7 5.6 3.6 0.0 18.0 2.7 15.4 3.9 100.0 6.274 Incet 62.3 42.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2		59.1	41.1	4.7	5.5	1.6	11.1	8.4	4.7	5.1	0.0	18.0	1.4	16.6	40.9	100.0	4,275
\mathbf{e}		55.4	43.0	20.4	1.5	1.0	7.2	4.1	4.5	4.2	0.1	12.4	2.5	9.9	44.6	100.0	6,276
ce1 61.5 43.5 12.0 1.3 12.1 7.7 5.6 3.6 0.0 18.0 2.7 15.3 38.5 100.0 1,887 an 62.3 42.9 12.8 1.5 1.2 1.6 7.1 5.5 4.2 0.0 19.4 2.7 16.7 37.7 100.0 1,887 ash Province 60.1 42.9 12.8 1.5 1.4 14.8 30.5 0.0 17.24 37.7 100.0 1,887 ash Province 49.6 38.1 27.5 0.6 0.9 3.7 15 1.8 2.6 1.7 0.1 8.4 4.2 4.0 100.0 1,789 ash Province 46.5 38.1 2.7 4.8 0.9 0.1 8.4 4.2 4.0 4.0 6.4 6.4 6.7 6.0 6.7 6.3 6.7 6.0 6.7 6.9 6.7 6.7 6.7 6.7 6.7 6.7	ě																
an 62.3 42.9 12.8 15 1.2 10.6 7.1 5.5 4.2 0.0 19.4 2.7 16.7 37.7 100.0 $1,242$ elsh Province 60.1 44.9 10.5 0.9 1.4 14.8 9.0 5.7 2.6 1.7 37.7 100.0 $1,242$ esh Province 60.1 44.9 10.5 0.9 0.7 4.8 1.4 1.48 30 5.7 2.6 1.7 0.1 8.5 4.1 5.1 5.1 6.7 0.0 6.7 0.0 5.7 5.1 6.7 0.0 5.7 6.4 1.789 100.0 6.71 $5.3.5$ 100.0 6.7 1.8 2.6 1.4 1.2 1.4 100.0 6.7 0.1 1.789 1.789 1.789 1.789 1.789 $1.00.0$ 1.241 66.2 44.6	Ice 1	61.5	43.5	12.0	1.3	1.3	12.1	7.7	5.6	3.6	0.0	18.0	2.7	15.3	38.5	100.0	1,887
II 60.1 44.9 10.5 0.9 1.4 14.8 9.0 5.7 2.4 0.1 15.2 2.8 12.4 39.9 100.0 645 ssh Province 49.0 40.5 28.3 0.5 0.7 4.8 1.8 2.6 1.7 0.1 8.5 4.3 4.1 51.0 100.0 645 ssh Province 49.0 40.5 28.3 0.5 0.7 4.8 1.8 2.6 1.7 0.1 8.5 4.3 4.1 51.0 100.0 645 ati Province 56.0 47.4 30.5 0.2 0.1 8.0 2.7 4.8 0.0 1.789 4.1 10.0 1.789 ati Province 66.2 44.6 5.7 6.4 1.4 12.3 7.1 5.0 0.0 1.789 4.1 100.0 2.416 6.7 6.0 7.79 6.4 4.0 100.0 2.416 6.7 6.0 7.42 <t< td=""><td>n</td><td>62.3</td><td>42.9</td><td>12.8</td><td>1.5</td><td>1.2</td><td>10.6</td><td>7.1</td><td>5.5</td><td>4.2</td><td>0.0</td><td>19.4</td><td>2.7</td><td>16.7</td><td>37.7</td><td>100.0</td><td>1,242</td></t<>	n	62.3	42.9	12.8	1.5	1.2	10.6	7.1	5.5	4.2	0.0	19.4	2.7	16.7	37.7	100.0	1,242
Set Province 49.0 40.5 28.3 0.5 0.7 4.8 1.8 2.6 1.7 0.1 8.5 4.3 4.1 51.0 100.0 2.419 an 46.5 38.1 275 0.6 0.9 3.7 1.5 1.8 2.0 0.1 8.5 4.3 4.1 51.0 100.0 2.416 ati Province 66.2 44.6 5.7 6.4 4.4 4.2 4.3 100.0 1.789 ati Province 66.2 44.6 5.7 6.4 4.4 2.3 100.0 1.789 ati Province 65.9 42.3 5.9 1.4 10.5 4.5 5.7 7.9 0.0 2.16 1.700 6.789 ati Province 65.9 42.6 6.3 1.4 $10.0.0$ 1.700 6.789 ati Province 65.9 42.6 6.7 0.0 1.4 2.22	le	60.1	44.9	10.5	0.9	4.1	14.8	9.0	5.7	2.4	0.1	15.2	2.8	12.4	39.9	100.0	645
air 46.5 38.1 27.5 0.6 0.9 3.7 1.5 1.8 2.0 0.1 8.4 4.2 4.2 5.3.5 100.0 1.789 air 56.0 47.4 5.7 6.4 1.4 10.2 0.1 8.6 4.6 4.0 44.0 5.3 art Province 66.2 4.4.6 5.7 6.4 1.4 10.2 0.1 8.6 4.6 4.0 44.0 5.7 art Province 65.9 4.2.3 5.3 5.9 1.4 10.5 4.5 5.7 7.9 0.0 23.6 1.4 20.1 33.8 100.0 1,709 art 65.9 4.2.3 5.3 1.4 10.5 4.5 5.7 7.9 0.0 13.6 1.4 20.1 33.8 100.0 1,709 art 65.1 5.4 6.2 1.4 6.2 5.0 0.0 16.4 0.5 100.0 1,709 10.45	esh Province	49.0	40.5	28.3	0.5	0.7	4.8	1.8	2.6	1.7	0.1	8.5	4.3	4.1	51.0	100.0	2,419
56.0 47.4 30.5 0.2 0.1 8.0 2.7 4.8 0.9 0.1 8.6 4.6 4.0 140.0 100.0 630 and Province 66.2 4.4.6 5.7 6.4 1.4 12.3 7.1 5.0 6.7 1.4 2.3 5.0 47.4 30.5 100.0 630 and Province 66.2 4.4.6 5.7 6.4 1.4 12.3 16.8 5.7 7.9 0.0 21.5 1.4 100.0 4.56 and 67.1 53.5 3.3 8.4 1.5 19.3 16.8 2.3 2.9 100.0 4.56 and 51.5 35.1 5.4 6.3 1.4 6.2 6.1 5.0 0.7 1.4 12.2 3.2.9 100.0 4.56 and 53.3 8.4 1.5 19.3 16.8 2.5 4.2 0.0 1.700 6.30 4.56 50.1 1.00.0	an	46.5	38.1	27.5	0.6	0.9	3.7	1.5	1.8	2.0	0.1	8.4	4.2	4.2	53.5	100.0	1,789
ati Province 66.2 44.6 5.7 6.4 1.4 12.3 7.1 5.0 6.7 0.0 21.5 1.4 20.1 33.8 100.0 2.15 an 65.9 42.3 5.9 1.4 10.5 4.5 5.7 7.9 0.0 23.6 1.4 20.1 30.0 1.700 2.700 4.5 5.7 7.9 0.0 23.6 1.4 100.0 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700 1.700	al	56.0	47.4	30.5	0.2	0.1	8.0	2.7	4.8	0.9	0.1	8.6	4.6	4.0	44.0	100.0	630
an 65.9 42.3 6.3 5.9 1.4 10.5 4.5 5.7 7.9 0.0 23.6 1.4 22.2 34.1 100.0 1.700 al 67.1 53.5 3.3 8.4 1.5 19.3 16.8 2.3 2.0 0.0 13.6 1.4 12.2 32.9 100.0 1.46 an 67.1 53.5 $3.3.$ 8.4 1.5 19.3 16.8 2.3 2.0 0.0 13.6 1.4 12.2 32.9 100.0 1.46 an 49.9 32.7 6.2 5.5 4.2 5.5 4.2 5.5 0.0 17.2 0.6 16.6 50.1 100.0 1.046 an 55.3 40.8 1.4 1.9 1.2 3.6 1.4 12.2 3.79 100.0 1.046 an 55.3 40.8 3.4 8.9 1.6 9.6 7.5 6.8 2.9 0.0 14.6 0.3 14.2 44.7 100.0 317 an 55.4 40.5 11.4 1.4 2.3 7.6 5.1 5.5 5.8 0.1 1.1 12.4 43.5 100.0 2.020 an 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 14.2 4.7 100.0 2.020 an 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 1.6 4.6 100.0 2.020 an 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 1.1 12.4 42.5 100.0 2.020 1.19	ati Province	66.2	44.6	5.7	6.4	1.4	12.3	7.1	5.0	6.7	0.0	21.5	1.4	20.1	33.8	100.0	2,156
iii 67.1 53.5 3.3 8.4 1.5 19.3 16.8 2.3 2.0 0.0 13.6 1.4 12.2 32.9 100.0 456 alk iProvince 51.5 35.1 5.4 6.3 1.4 6.2 6.1 5.0 4.7 0.0 13.6 1.4 12.2 32.9 100.0 1466 ain 51.5 35.1 5.2 4.2 5.0 4.7 0.0 16.4 0.5 15.9 48.5 100.0 1466 ain 55.3 4.0 3.4 8.9 1.6 5.5 4.2 0.0 14.6 0.3 14.2 44.7 100.0 317 ain 55.3 40.5 11.4 1.4 2.3 7.6 5.1 5.5 5.8 0.0 14.2 43.5 100.0 2.020 ain 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.5 5.0 0.0 16.9 </td <td>an</td> <td>65.9</td> <td>42.3</td> <td>6.3</td> <td>5.9</td> <td>1.4</td> <td>10.5</td> <td>4.5</td> <td>5.7</td> <td>7.9</td> <td>0.0</td> <td>23.6</td> <td>1.4</td> <td>22.2</td> <td>34.1</td> <td>100.0</td> <td>1,700</td>	an	65.9	42.3	6.3	5.9	1.4	10.5	4.5	5.7	7.9	0.0	23.6	1.4	22.2	34.1	100.0	1,700
ark Province 51.5 35.1 5.4 6.3 1.4 6.2 6.1 5.0 4.7 0.0 16.4 0.5 15.9 48.5 100.0 $1,046$ in 49.9 32.7 6.2 5.1 4.8 5.5 4.2 5.5 0.0 17.2 0.6 16.6 50.1 100.0 729 an 39.3 34.8 3.4 8.9 7.5 6.8 2.9 0.0 17.2 0.6 14.2 40.7 100.0 7.2 in Province 56.5 43.0 1.4 2.3 7.6 5.1 5.6 0.1 13.6 1.1 12.4 43.5 100.0 10.46 in Province 57.4 40.5 11.4 2.3 7.6 5.1 5.9 6.7 0.0 16.4 42.6 100.0 1.19 in Province 57.4 40.5 11.4 2.3	-	67.1	53.5	3.3	8.4	1.5	19.3	16.8	2.3	2.0	0.0	13.6	1.4	12.2	32.9	100.0	456
an 49.9 32.7 6.2 5.2 1.2 4.8 5.5 4.2 5.5 0.0 17.2 0.6 16.6 50.1 100.0 729 55.3 40.8 3.4 8.9 1.6 9.6 7.5 6.8 2.9 0.0 14.6 0.3 14.2 44.7 100.0 317 56.5 43.0 12.8 1.6 1.9 8.2 7.1 5.5 5.8 0.1 13.6 1.1 12.4 43.5 100.0 2,020 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 16.4 42.6 100.0 1,119 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 16.4 42.6 100.0 1,119	aki Province	51.5	35.1	5.4	6.3	4.	6.2	6.1	5.0	4.7	0.0	16.4	0.5	15.9	48.5	100.0	1,046
al 35.3 40.8 3.4 6.9 1.0 9.0 7.5 6.8 2.9 0.0 14.0 0.3 14.2 44.7 100.0 3.17 in Province 56.5 43.0 12.8 1.6 1.9 8.2 7.1 5.5 5.8 0.1 13.6 1.1 12.4 42.5 100.0 2,020 an 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 16.4 42.6 100.0 1,119	an	49.9	32.7	6.2	5.2	ci c	4.0 8.0	5.5 1	4.2	5.5	0.0	17.2	0.6	16.6	50.1	100.0	729
ini Frownee 56.5 43.0 12.6 1.0 1.9 6.2 7.1 5.5 5.1 5.9 6.7 0.0 16.9 0.3 16.4 42.5 100.0 1,119 an 57.4 40.5 11.4 1.4 2.3 7.6 5.1 5.9 6.7 0.0 16.9 0.3 16.4 42.6 100.0 1,119 	al 	50.3	40.8	τ. 4. 0. 4. 0	ο. σ	0. C	0.0	Q: /	οı	יא	0.0	0.41	0.0	14.2	44.7	0.001	115
al 0.4 40.5 11.4 1.4 2.3 7.0 5.1 5.4 0.7 0.0 10.9 10.4 42.0 10.0 1,119 		20.0	0.04 0.0	12.0	0.	- c	0 F		0.0	1 0	- 0	0.0	- c - c	4.7	40.0	0.001	2,020
	ue	57.4	40.5	11.4	1.4	2.3	9.7	5.1	5.9	6.7	0.0	16.9	0.3	16.4	42.6	100.0	1,119

Continued...

Table 6— <i>Continued</i>																
		Anv				Modern m	nethod				Anv tradi-	Tradition	al method	Not		
Background characteristic	Any method	modern	Female sterilization	Male sterilization	IUCD	Injectables	Implants	liid	Male condom	Other ¹	tional method	Rhythm	Withdrawal	currently using	Total	Number of women
Karnali Province	55.3	45.9	3.5	10.1	13	15.4	82	41	33	01	6.6	0.2	10	44.7	100.0	691
	56.0	45.0	4.0	11 8	- - ; a	101	7.7	- α τ	0 C C C		, , , , , , , , , , , , , , , , , , ,	10	110	43.8	100.0	281
Bural	54.1	47.1	00		 ; ~	10.2	4.4 8 8	o ơ Fơ	4.0 7 4	- 0	102	- ~	0 G	45.0	100.0	310
Sudurbashchim Province	58.6	47.0	13.1	5.6	0.1	2.0	7.4	9.0	6.0	0.0	11.6	0.3	11.4	41.4	100.0	960
Urban	59.0	46.5	15.2	5.3	1.5	6.6	5.0	3.2	6.0	0.3	12.5	0.4	12.1	41.0	100.0	591
Rural	58.0	47.8	9.9	6.2	0.4	9.5	11.3	4.4	5.9	0.4	10.2	0.0	10.2	42.0	100.0	369
Education																
No education	62.2	54.3	26.3	5.2	1.3	9.5	6.9	3.5	1.6	0.0	7.9	1.8	6.1	37.8	100.0	3,475
Basic education (1–8)	55.1	42.4	10.8	4.0	1.0	11.3	7.0	4.9	3.3	0.1	12.8	2.1	10.6	44.9	100.0	3,701
Lower basic education (1-5)	56.7	45.7	12.7	5.3	0.8	10.6	7.8	5.1	3.2	0.1	11.0	1.9	9.1	43.3	100.0	2,004
Upper basic education (6–8)	53.3	38.4	8.6	2.4	1.1	12.2	6.0	4.8	3.4	0.0	14.9	2.3	12.5	46.7	100.0	1,696
Secondary (9–12)	53.5	32.9	4.4	1.7	1.7	8.0	4.7	5.4	7.0	0.1	20.6	2.0	18.7	46.5	100.0	3,536
Lower secondary (9-10)	55.0	34.4	4.4	2.0	1.6	9.3	5.4	5.7	6.0	0.1	20.5	2.5	18.1	45.0	100.0	2,208
Higher secondary (11–12)	51.2	30.4	4.5	1.2	1.8	5.7	3.5	4.8	8.7	0.1	20.8	1.1	19.7	48.8	100.0	1,328
(13 and above)	64.8	32.7	6.4	2.1	0.7	2.5	2.8	1.5	16.2	0.4	32.1	1.8	30.3	35.2	100.0	468
Wealth quintile																
Lowest	54.3	44.7	6.7	5.0	1.3	14.0	11.2	3.9	2.5	0.1	9.6	1.4	8.2	45.7	100.0	2,031
Second	56.4	46.9	19.1	3.0	1.0	10.0	7.4	4.1	2.4	0.0	9.5	1.6	7.9	43.6	100.0	2,217
Middle	56.2	44.4	17.5	3.1	1.3	10.1	5.3	3.9	3.1	0.0	11.8	2.1	9.7	43.8	100.0	2,323
Fourth	56.6	38.7	13.2	2.7	1.1	7.4	4.0	5.9	4.3	0.1	17.9	2.6	15.3	43.4	100.0	2,381
Highest	62.5	39.0	10.0	4.2	1.7	5.6	3.1	4.4	10.0	0.1	23.4	2.0	21.4	37.5	100.0	2,228
Total	57.2	42.7	13.4	3.6	1.3	9.3	6.1	4.5	4.5	0.1	14.6	1.9	12.6	42.8	100.0	11,180
Note: If more than one method is unot shown separately due to only 2 Other modern methods include la	lsed, only th 2 cases. ⊮ctational an	le most effec nenorrhea m	stive method i nethod (LAM)	s considered i and emergen	in this tabul cy contrac∈	ation. An aste⊧ ≱ption	risk indicates	that a figur	e is based or	fewer than	25 unweight	ed cases an	d has been su	ppressed. Ot	ther tradition	al methods



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

Percentage of currently married women age 15-49

3.6.2 Need and demand for family planning

Table 7 presents data on unmet need, met need, and total demand for family planning among currently married women. These indicators help evaluate the extent to which family planning programs in Nepal are meeting the demand for services. The government of Nepal's target for SDG 3.7.1, is that 74% of all women age 15–49 have a met need for family planning with modern methods by 2022 and 80% by 2030 (National Planning Commission 2020).

Need for family planning

Unmet need for family planning

Proportion of women who (1) are not pregnant and not postpartum amenorrheic and are considered fecund and want to postpone their next birth for 2 or more years or stop childbearing altogether but are not using a contraceptive method, or (2) have a mistimed or unwanted current pregnancy, or (3) are postpartum amenorrheic and their last birth in the last 2 years was mistimed or unwanted.

Met need for family planning

Current contraceptive use (any method)

Sample: Currently married women age 15-49

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

- Twenty-one percent (21%) of currently married women in Nepal have an unmet need for family planning services. Fifty-seven percent (57%) of currently married women are currently using a contraceptive method. Therefore, 78% of currently married women have a demand for family planning. Thus, if all married women who said they want to space or limit their children were to use family planning methods, the contraceptive prevalence rate would increase from 57% to 78%.
- The total demand for family planning that is satisfied is 73%; 55% of the total demand is satisfied by modern methods.

Table 7 Unmet need for family planning

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, and percentage of the demand for family planning that is satisfied with modern methods, according to background characteristics, Nepal DHS 2022

		Met need for fa	amily planning v using)	Tatal damand		Percentage	of demand
Background	for family	(ourroini)	Modern	for family	Number of		Modern
characteristic	planning	All methods	methods ²	planning ³	women	All methods	methods ²
Age							
15–19	30.9	28.2	14.2	59.1	563	47.7	24.0
20–24	29.1	38.6	24.9	67.8	1,783	57.0	36.8
25–29	23.5	52.1	37.4	75.7	2,198	68.9	49.4
30–34	22.0	61.1	45.3	83.2	2,027	73.5	54.5
35–39	17.2	69.8	55.6	87.1	1,906	80.2	63.8
40–44	14.4	71.1	56.1	85.5	1.515	83.2	65.6
45-49	10.2	63.8	50.0	74.0	1,188	86.1	67.6
Filmin mean					,		
Ethnic group	20.7	60.0	20.6	00.7	2 0 2 4	74.0	40.0
	20.7	60.0	39.0	80.7	3,031	74.3	49.0
	25.5	52.6	44.0	78.1	1,734	67.3	56.4
Janajati	19.7	61.3	45.4	81.0	4,042	75.6	56.1
Madhesi	17.6	55.1	44.6	72.7	1,835	75.8	61.4
Muslim	24.7	33.2	27.6	58.0	528	57.3	47.6
Others	*	*	*	*	11	*	*
Residence							
Urban	20.7	56.9	40.7	77 5	7 553	73 4	52 4
Rural	21.1	58.0	46.8	79.1	3 627	73.3	59.2
- Cardina	2	00.0	10.0	70.1	0,021	10.0	00.2
Ecological zone							
Mountain	19.1	62.7	50.1	81.8	629	76.7	61.2
Hill	22.7	59.1	41.1	81.8	4,275	72.2	50.3
Terai	19.7	55.4	43.0	75.1	6,276	73.8	57.2
Province							
Province 1	17.6	61.5	43 5	79 1	1 887	77 8	55 1
Urban	16.9	62.3	42.9	79.2	1 242	78.7	54.2
Bural	18.0	60.1	14.0	70.2	645	76.1	56.8
Madhesh Province	21.1	49.0	40.5	70.1	2 / 10	60.0	57.8
Urbon	21.1	45.0	20.0	69.7	1 790	67.7	57.0
Burol	17.0	40.5	47.4	72.0	620	75 7	64.4
	17.9	50.0	47.4	73.9	030	75.7	54.1
Bagmati Province	16.0	00.2	44.0	82.2	2,150	80.5	54.3
Urban	16.0	65.9	42.3	81.9	1,700	80.4	51.6
Rural	15.9	67.1	53.5	83.0	456	80.9	64.5
Gandaki Province	28.1	51.5	35.1	79.6	1,046	64.7	44.2
Urban	28.2	49.9	32.7	78.1	729	63.9	41.9
Rural	27.7	55.3	40.8	83.1	317	66.6	49.1
Lumbini Province	23.3	56.5	43.0	79.9	2,020	70.8	53.8
Urban	23.0	57.4	40.5	80.3	1,119	71.4	50.4
Rural	23.8	55.5	46.1	79.3	900	70.0	58.2
Karnali Province	23.4	55.3	45.9	78.6	691	70.3	58.4
Urban	22.1	56.2	45.0	78.2	381	71.8	57.5
Rural	25.0	54.1	47.1	79.1	310	68.4	59.5
Sudurpashchim Province	22.1	58.6	47.0	80.7	960	72.6	58.2
Urban	22.6	59.0	46.5	81.6	591	72.3	57.0
Rural	21.3	58.0	47.8	79.2	369	73.2	60.3
Education							
Education	16.4	60.0	54.0	70.0	0.475	70.0	60.0
No education	10.4	02.2	54.3	78.0	3,475	79.2	69.0
Basic education (1–8)	23.7	55.1	42.4	78.8	3,701	69.9	53.7
Lower basic education (1–5)	22.8	56.7	45.7	79.5	2,004	/1.3	57.5
Upper basic education (6–8)	24.8	53.3	38.4	78.0	1,696	68.3	49.2
Secondary (9–12)	22.7	53.5	32.9	76.3	3,536	70.2	43.1
Lower secondary (9–10)	22.5	55.0	34.4	77.4	2,208	71.0	44.4
Higher secondary (11–12)	23.2	51.2	30.4	74.4	1,328	68.9	40.9
More than secondary							
(13 and above)	16.1	64.8	32.7	80.8	468	80.1	40.4
Wealth guintile							
Lowest	24.7	54.3	44.7	79.0	2.031	68.7	56.5
Second	21.4	56.4	46.9	77 7	2 217	72.5	60.3
Middle	20.4	56.2	44 4	76.6	2 323	73.3	58.0
Fourth	20.4	56.6	38.7	77.6	2,020	73.0	<u>49</u> 0
Highest	16.0	62.5	30.7	70 /	2,001	78.7	49.9
righest	10.9	02.0	53.0	13.4	2,220	10.1	73.Z
Total	20.8	57.2	42.7	78.0	11,180	73.3	54.7

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012. An asterisk indicates that a figure

¹ Percentage of demand satisfied is met need divided by total demand.
 ² Modern methods include female sterilization, male sterilization, IUCD, injectables, implants, pill, male condom, emergency contraception, lactational amenorrhea method (LAM) and other modern methods.
 ³ Total demand is the sum of unmet need and met need.

Trends: There has been a decline in the unmet need for family planning from 32% in 1996 to 21% in 2022 (**Figure 2**). The decline in unmet need in the last decade is mainly due to the increased use of traditional methods.

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

The government of Nepal's target for SDG 3.2.1, is to reduce the under-five mortality rate to 27 deaths per 1,000 live births by 2022 and to 20 deaths per 1,000 live births by 2030. Similarly, the government's target for SDG 3.2.2, is to reduce the neonatal mortality rate to 16 deaths per 1,000 live births by 2022 and to 12 deaths per 1,000 live births by 2030 (National Planning Commission, 2020).

Table 8 presents estimates of early childhood mortality rates for three successive 5-year periods prior to the 2022 NDHS. The rates are estimated directly from the information collected as part of a retrospective pregnancy history, in which female respondents list 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.

- During the 5 years immediately preceding the survey, the overall under-5 mortality rate was 33 deaths per 1,000 live births.
- The infant mortality rate was 28 deaths per 1,000 live births. The child mortality rate was 5 deaths per 1,000 children surviving to age 12 months.
- The neonatal mortality rate was 21 deaths per 1,000 live births, during the 5 years immediately preceding the survey.
- Eighty-five percent (85%) of all deaths among children under age 5 in Nepal take place before a child's first birthday, with 64% occurring during the first month of life.

Table 8 Early chi	ildhood mort	ality rates			
Neonatal, post-ne preceding the surv	onatal, infant /ey, Nepal D⊦	, child, and u IS 2022	nder-5 mortal	ity rates for 5	-year periods
Years preceding the survey	Neonatal mortality (NN)	Post- neonatal mortality (PNN) ¹	Infant mortality (1q0)	Child mortality (4q1)	Under-5 mortality (₅q₀)
0–4 5–9 10–14	21 24 36	8 11 13	28 35 48	5 7 10	33 42 58
10–14	30	13	48	10	90

¹ Computed as the difference between the infant and neonatal mortality rates





Trends: Between the 1996 NFHS and the 2022 NDHS surveys, under-5 mortality declined from 118 to 33 deaths per 1,000 live births, infant mortality declined from 78 to 28 deaths per 1,000 live births, and neonatal mortality declined from 50 to 21 deaths per 1,000 live births (**Figure 3**). Notably, however, between the 2016 and 2022 NDHS the neonatal mortality did not change.

3.8 MATERNAL CARE

Proper care during pregnancy and delivery is important for the health of both the mother and the baby. **Table 9** presents key indicators related to maternal care.

3.8.1 Antenatal care

Antenatal care (ANC) from a skilled provider Pregnancy care received from skilled providers, such as doctors, nurses, and auxiliary nurse midwives. Sample: Women age 15–49 who had a live birth or stillbirth in the 2 years preceding 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, at delivery, and during the postnatal period.

- Ninety-four percent (94%) of women reported receiving antenatal care from a skilled provider for their most recent live birth or stillbirth in the 2-year period preceding the survey.
- Four in five women (81%) had at least four ANC visits for their most recent live birth.
- Overall, 96% of women took iron-containing supplements during their most recent pregnancy.

Trends: The percentage of women who received antenatal care from skilled provider for their most recent live birth in the 2 years preceding the survey increased from 25% in 1996 to 94% in 2022. Similarly, those who made four or more ANC visits increased from 9% in 1996 to 81% in 2022.

3.8.2 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 preceding the survey

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

Overall, 93% of women with a live birth in the 2 years preceding the survey received sufficient doses
of tetanus toxoid injections to protect their baby against neonatal tetanus.

Table 9 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 iron-containing supplements during pregnancy, and percentage whose most recent live birth was protected against neonatal tetanus; among all live births and stillbirths 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 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, Nepal DHS 2022

	Women	who had a live pree	birth and/or a ceding the sur	a stillbirth in the rvey	e 2 years	Live births a	nd stillbirths ir ceding the sur	the 2 years	Women wh birth and/or the 2 years the s	o had a live a stillbirth in s preceding urvey
Background characteristic	Percentage receiving antenatal care from a skilled provider ¹	Percentage with 4+ ANC visits	Percentage who took any iron- containing supple- ments 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 of women with a postnatal check during the first 2 days after birth ⁴	Number of women
				LIVE BIRT	HS					
Mother's age at birth <20 20–34 35–49 Ethnic group Brahmin/Chhetri Dalit Janajati Madhesi Muslim Others	94.5 94.5 90.6 96.0 92.0 91.8 98.0 96.3 *	75.0 82.2 71.1 90.4 71.4 83.9 72.7 73.3 *	96.9 96.1 91.3 98.6 94.5 96.6 94.3 93.0 *	91.3 93.6 81.6 93.0 93.7 88.6 96.6 96.6 96.2	353 1,504 76 499 359 588 354 131 2	80.1 80.1 80.0 86.5 70.9 83.9 77.5 70.8 *	79.3 79.4 78.5 86.9 70.1 83.3 76.0 67.3 *	365 1,535 79 504 373 605 358 136 2	65.3 71.9 60.7 75.4 64.2 74.0 64.0 66.4 *	353 1,504 76 499 359 588 354 131 2
Residence Urban Rural	94.2 94.6	79.5 82.4	96.0 96.2	92.8 92.5	1,266 666	81.4 77.5	80.9 76.4	1,295 684	71.6 67.6	1,266 666
Ecological zone Mountain Hill Terai	93.5 94.0 94.6	90.5 86.5 76.0	98.6 96.1 95.8	92.0 89.7 94.4	129 639 1,166	76.6 81.0 79.9	75.4 81.6 78.6	133 648 1,198	63.8 70.1 71.0	129 639 1,166

Continued...

Table 9—Continued

	Women	who had a live pre	birth and/or a ceding the su	a stillbirth in the rvey	e 2 years	Live births a	nd stillbirths in ceding the sur	the 2 years vey	Women wh birth and/or the 2 years the s	o had a live a stillbirth in s preceding urvey
Background characteristic	Percentage receiving antenatal care from a skilled provider ¹	Percentage with 4+ ANC visits	Percentage who took any iron- containing supple- ments 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 of women with a postnatal check during the first 2 days after birth ⁴	Number of women
Province										
Province 1	90.4	78.8	96.7	90.4	358	81.8	81.5	368	77.3	358
Urban	89.6	77.2	95.4	89.8	232	84.5	83.7	242	78.5	232
Rural	91.8	81.8	99.1	91.7	126	76.6	77.3	126	75.1	126
Madnesh Province	96.0	68.4	93.5	95.4	500	67.9	66.6	515	57.8	500
Burol	95.5	72.2	93.0	95.2	122	69.7	66.0	129	55.1	122
Bagmati Province	97.9	88.8	95.5	90.0 88.6	295	86.6	88.3	299	73.9	295
Urban	95.9	92.5	98.2	89.4	235	90.7	91.9	233	81.3	235
Rural	86.6	78.8	91.0	86.2	79	75.5	78.6	81	53.6	79
Gandaki Province	96.7	84.6	97.5	92.5	117	89.2	87.7	117	76.4	117
Urban	100.0	84.7	98.7	94.5	76	96.6	94.9	76	81.6	76
Rural	90.5	84.2	95.1	88.7	40	75.2	74.0	40	66.5	40
Lumbini Province	96.8	86.9	97.2	95.7	329	86.9	84.4	335	77.2	329
Urban	96.0	86.5	96.8	96.4	185	85.0	83.7	187	77.5	185
Rural	97.8	87.5	97.6	94.8	145	89.3	85.4	148	77.0	145
Karnali Province	91.0	79.1	95.4	91.8	149	72.3	72.5	153	57.9	149
Urban Burol	88.0	74.5	93.3	92.1	73	76.1	75.8	75	63.3 52.7	73
Sudurpashchim Province	94.0	00.0	97.4	91.0	185	87.8	86.8	102	52.7 77 7	185
Urban	94.2	87.8	99.5	91.5	105	89.6	90.0	120	81.3	117
Rural	98.8	93.6	98.5	92.7	69	84.9	81.5	72	71.6	69
Mother's education										
No education	92.8	67.2	90.7	90.5	357	60.9	59.6	367	55.9	357
Basic education (1–8)	92.8	75.7	95.0	91.6	656	74.8	73.9	678	64.4	656
Lower basic education (1–5)	92.1	71.2	92.9	91.2	332	69.3	68.2	341	59.7	332
Upper basic education (6–8)	93.5	80.2	97.2	92.0	325	80.4	79.7	337	69.2	325
Secondary (9–12)	95.6	88.6	98.9	94.5	828	90.9	90.1	843	78.6	828
Lower secondary (9–10)	94.6	85.7	98.9	93.5	497	88.6	88.1	505	74.7	497
Higher secondary (11–12)	97.2	92.9	98.8	96.0	332	94.3	93.1	337	84.4	332
(13 and above)	99.7	93.4	98.9	92.5	91	96.2	100.0	91	91.9	91
Wealth quintile										
Lowest	90.5	74 5	92.6	89.5	431	67.0	65.8	445	55.5	431
Second	92.9	76.7	96.1	92.2	432	73.1	73.2	443	65.4	432
Middle	97.0	77.7	96.0	91.3	381	81.2	79.6	388	71.4	381
Fourth	94.7	84.5	97.5	96.7	386	88.0	86.9	397	77.7	386
Highest	98.1	92.6	99.2	94.6	303	97.4	97.6	306	87.1	303
Total	94.3	80.5	96.1	92.7	1,933	80.1	79.3	1,979	70.2	1,933
-				STILLBIRT	ΉS					
Total	*	*	*	na	17	*	*	17	*	17
			LIVE B	BIRTHS AND S	TILLBIRTHS	5				
Total	94.3	80.2	96.0	na	1,949	80.1	79.3	1,995	70.3	1,949

Note: If more than one source of assistance was mentioned, only the provider with the highest qualifications is considered in this tabulation. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

na = not applicable ¹ Skilled provider includes doctor, nurse, and auxiliary midwife.

² Iron tablets or syrup. ³ Includes mothers with two injections during the pregnancy of her 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 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, nurse, auxiliary nurse midwife, health assistant, auxiliary health worker, female community health worker, or traditional birth attendant.

⁵ 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.

Trends: The percentage of women whose most recent live birth was protected against neonatal tetanus increased from 84% in 2006 to 93% in 2022.

3.8.3 Delivery care

Institutional deliveries

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

Skilled assistance during delivery

Births delivered with the assistance of a doctor, nurse, or midwife. *Sample:* All live births and/or stillbirths in the 2 years preceding the survey

Access to proper medical attention and hygienic conditions during delivery can reduce the risk of complications and infections that may lead to death or serious illness for the mother and/or baby (Van Lerberghe and De Brouwere 2001; WHO 2006a). The government of Nepal's target for SDG 3.1.2, is that 73% of births are delivered with assistance from skilled provider by 2022 and achieve 90% by 2030 (National Planning Commission 2020).

- Overall, 79% of live births and still births in the 2 years preceding the survey were delivered in health facilities.
- Four in five (80%) live births and stillbirths were delivered by skilled providers.

Trends: The percentage of live births that are assisted by a skilled provider has increased markedly, from 10% in 1996 to 80% in 2022) (**Figure 4**).



Figure 4 Trends in delivery assistance

3.8.4 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 health check during the first 2 days after birth.

- Overall, 70% of women with a live birth or stillbirth in the 2 years preceding the survey received a
 postnatal check within the 2 days after delivery.
- Among women with a live birth, women in the lowest wealth quintile are less likely to receive postnatal check within 2 days after delivery than women in the highest wealth quintile (56% versus 87%).

3.9 VACCINATION COVERAGE

Universal immunization of children against common vaccine-preventable diseases is crucial to reducing infant and child morbidity and mortality. In Nepal, routine childhood vaccines include bacillus Calmette-Guérin (BCG) (tuberculosis); oral polio vaccine (OPV) and fractional inactivated poliomyelitis vaccine (fIPV); pentavalent or DPT-HepB-Hib (diphtheria, pertussis, tetanus, hepatitis B, and *Haemophilus influenzae* type b); pneumococcal conjugate vaccine (PCV); rotavirus vaccine (RV); Japanese encephalitis (JE) vaccine; and measles rubella (MR) vaccine. The rotavirus vaccine was introduced into the routine schedule in July 2020. The Nepal Health Sector Strategy 2016–22 target for vaccination coverage specifies that 95% of children age 12–23 months should be covered for all vaccines included in the national program by 2030 (Ministry of Health and Population, 2022).

Information on vaccination coverage was obtained in two ways in the 2022 NDHS: (1) written vaccination records, including vaccination or health cards, and (2) verbal reports from the mother. In the survey, the vaccination card was observed for 79% of children age 12–23 months (data not shown).

3.9.1 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 the basic antigens in Nepal, 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)
- 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 and DTP-containing vaccine, and a single dose of measles-containing vaccine. In Nepal, 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 (MR) should be given at or soon after age 9 months.

- Overall, 80% of children age 12–23 months are fully vaccinated with basic antigens (Table 10).
- Ninety-five percent (95%) of children age 12–23 months received BCG vaccine, 89% received the third dose of DTP-HepB-Hib, 86% received the third dose of OPV, and 89% received a dose of MR.

3.9.2 Vaccination coverage according to the national schedule

A second measure of vaccination coverage is the percentage of children age 12–23 months who are fully vaccinated according to the national schedule. In this report, a child age 12–23 months is considered fully vaccinated according to the national schedule if the child has received all the basic antigens as well as two doses of fractional IPV (fIPV), three doses of HepB and Hib (given as part of DPT-containing vaccine), three doses PCV, two doses of RV, and one dose of JE vaccine.

- Slightly more than half of the children age 12–23 months (52%) are fully vaccinated according to the national schedule.
- Eighty-five percent (85%) of children received the second dose of fIPV, 81% received the third dose of PCV, 72% received the 2nd dose of RV, and 81% received a dose of JE vaccine.
- Four percent (4%) of children age 12–23 months have received no vaccinations.

Trends: The percentage of children age 12–23 months who are fully vaccinated (received all the basic antigens) has fluctuated over time, rising from 43% in 1996 to a peak of 87% in 2011, then decreasing to 78% in 2016, and increasing slightly to 80% in 2022 (**Figure 5**). The percentage of children age 12–23 months who did not receive any vaccinations has also fluctuated, notably increasing slightly from 1% in 2016 to 4% in 2022.



Figure 5 Trends in childhood vaccinations

Backerolind		DF	уТ-НерВ-	diH		OPV ²		Η H	Ş	Pne	nmococc	cal	Rotav	<i>i</i> irus	aelaceM	Japanese encenha-	Fully vacci- nated /hasic	Fully vacci- nated (according		Annual Annual Anna
characteristic	BCG	-	2	3	-	2	3	-	2	-	2	з	-	2	rubella 1	encepira- litis	antigens) ¹	schedule) ²	nations	children
Sex Male Female	95.5 94.8	95.3 94.1	93.8 93.1	90.0 88.2	95.3 94.6	93.6 92.2	87.5 83.6	91.4 91.7	86.0 84.2	93.5 93.1	91.4 90.3	81.9 79.0	79.0 76.6	72.4 71.1	90.4 86.6	84.6 77.1	81.5 78.4	54.7 49.4	4.3 4.5	486 474
Birth order 1 2–3 6+ 6+	95.0 95.7 92.8	94.8 95.4 89.9	94.2 93.9 86.8	90.8 89.9 79.8	94.7 95.6 91.8	93.2 94.1 85.1	86.4 88.0 71.0	91.1 93.1 84.8	86.2 87.1 69.9	93.4 93.8 89.4	91.2 91.3 86.1	83.1 80.2 70.8	78.5 77.4 74.8	72.4 71.0 70.9	90.6 89.5 73.8	84.4 80.2 65.8	81.8 81.3 66.2 *	54.9 51.4 39.6 *	4.9 3.5 * 2	401 463 80
Vaccination card ³ Seen Not seen or no longer has Never had	99.4 82.9 *	99.4 80.9 *	98.5 78.4 *	95.4 69.4 *	99.3 82.3	97.8 78.7 *	92.1 64.7 *	96.4 77.8 *	89.1 74.1 *	99.2 74.9 *	97.4 70.1 *	88.6 53.3 *	83.5 59.7 *	76.8 55.8 *	93.9 72.0 *	85.2 67.8 *	87.9 53.6 *	58.1 31.3 *	0.2 17.1	752 195 11
Residence Urban Rural	94.8 95.9	94.8 94.5	93.7 93.0	89.0 89.2	95.1 94.7	93.2 92.3	85.3 86.1	92.1 90.4	85.8 83.9	93.1 93.7	91.2 90.1	81.1 79.2	78.7 76.3	71.8 71.8	89.1 87.4	81.6 79.6	79.8 80.3	52.6 51.1	4.7 3.8	623 336
Ecological zone Mountain Hill Terai	99.3 93.6 95.5	98.6 92.6 95.3	98.6 92.2 93.5	95.3 90.3 87.8	98.0 93.0 95.5	97.4 92.2 92.8	92.6 87.9 83.6	94.7 90.6 91.7	92.6 87.2 83.2	95.3 92.0 93.7	93.1 91.0 90.5	87.4 85.3 77.2	80.4 77.9 77.5	74.5 73.3 70.7	94.4 90.6 86.8	85.6 84.7 78.4	89.1 84.3 76.7	60.3 58.7 47.7	0.7 6.0 4.0	68 301 591
Province 1 Urban Urban Urban Madhesh Province Urban Rural Baganti Province Urban Rural Rural Karnali Province Urban Rural Karnali Province Urban Rural Karnali Province Urban Rural Karnali Province Urban Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural Rural 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90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\ 90.0\\$	81.5 84.3 76.7 76.7 76.7 76.6 76.7 88.1 99.6 83.1 99.6 83.1 99.5 89.3 86.1 89.3 89.3 95.0 95.0	89.4 89.4 89.5 89.5 89.5 95.1 94.6 94.6 94.6 94.7 94.7 94.7 94.7 94.8 94.7 94.8 95.7 96.7 96.7	84.2 84.2 84.1 76.5 76.5 76.5 76.5 88.3 88.3 88.3 88.3 88.3 88.3 88.3 88	888.9 (1000) 98.5 98.1 1000) 98.1 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 1000) 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 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Table 10 Childhood vaccinations by background characteristics

29

Table 10—Continued																				
Back circolind		DÞ.	T-HepB-F	'n		OPV ²		fIPV		Pneu	sococce	_	Rotavi	sn	selseeM	Japanese encenha-	Fully vacci- nated /hasic	Fully vacci- nated (according	No vacci-	Number of
characteristic	BCG	٢	2	3	-	2	3	٢	2	٢	2	3	-	2	rubella 1	litis	antigens) ¹	schedule) ²	nations	children
Mother's education	0	0			0	0				0		0		0	Ì	0		0.00		
No education	92.6	92.0	89.7	79.7	93.2	89.0	76.0	87.8	76.7	89.2	85.3	66.2	76.7	68.6	75.9	68.6	65.8	38.8	6.1	197
Basic education (1–8)	94.5	93.8	92.5	88.6	93.7	91.9	85.4	90.4	83.5	92.5	90.0	81.7	76.7	71.1	88.0	78.9	80.5	50.6	5.3	338
Lower basic education (1-5)	93.8	92.8	90.2	84.2	92.3	89.5	82.7	90.06	83.3	92.1	88.0	79.7	76.0	67.1	84.6	73.6	77.1	47.7	5.9	168
Upper basic education (6-8)	95.2	94.7	94.7	93.1	95.0	94.3	88.0	90.8	83.8	92.9	91.9	83.8	77.4	75.1	91.3	84.2	83.8	53.5	4.8	171
Secondary (9–12)	97.4	97.1	96.8	94.4	97.2	96.3	90.4	94.9	90.5	96.5	95.1	86.3	79.5	74.2	95.1	88.3	86.3	58.8	2.3	385
Lower secondary (9–10)	97.2	97.0	97.0	93.5	96.7	95.3	88.9	94.1	89.5	0.96	94.2	87.5	78.2	71.8	96.1	87.9	85.7	56.6	2.5	234
Higher secondary (11-12)	97.6	97.3	96.3	95.8	97.9	97.9	92.9	96.1	92.0	97.3	96.3	84.5	81.5	78.0	93.6	88.9	87.2	62.2	2.1	150
More than secondary																				
(13 and above)	(91.7)	(91.7)	(87.8)	(87.8)	(91.7)	(88.1)	(88.1)	(88.1)	(88.1)	(88.1)	(84.1)	(84.1)	(20.6)	(0.69)	(91.7)	(87.6)	(84.1)	(64.9)	(8.3)	39
Wealth quintile																				
Lowest	93.5	91.7	90.1	85.2	92.3	88.5	81.5	87.6	79.6	89.7	85.7	76.3	76.1	70.8	85.7	78.5	75.8	50.0	6.0	233
Second	92.6	92.9	90.8	85.6	92.9	91.0	79.9	89.3	83.0	91.7	89.0	77.5	76.9	69.1	84.0	73.1	74.1	45.1	6.7	224
Middle	98.1	97.9	97.5	92.9	97.9	96.7	89.3	93.9	85.5	95.3	93.7	85.2	81.4	73.0	92.9	82.6	85.0	55.1	1.7	180
Fourth	97.0	96.5	96.5	92.3	97.0	95.7	90.3	95.0	6.06	96.5	95.3	81.2	79.4	77.2	92.0	87.5	85.2	57.1	2.6	193
Highest	96.0	96.0	93.6	92.0	96.0	94.9	90.5	94.0	89.4	94.9	92.5	85.4	75.1	68.2	90.2	86.4	82.8	55.9	4.0	129
Total	95.2	94.7	93.4	89.1	94.9	92.9	85.6	91.5	85.1	93.3	90.8	80.5	77.8	71.8	88.5	80.9	80.0	52.1	4.4	959

Note: Children are considered to have received the vaccine if it was either written on the child's vaccination card or reported by the mother. For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination. This table does not present results for children age 24–35 months on their status on fully vaccinated according to national schedule as rotavirus vaccine was introduced in July 2020 and most of these children would not have received this vaccine. Figures in parentheses are based on 25–49 unweighted cases. An asterisk indicates that a figure is based on fewer were than 25 unweighted were and involvention intervention intervention. The parentnesses are the CB and the figure is based on fewer than 25 unweighted were then 25 unweighted were then 25 unweighted were then 25 unweighted were then 25 unweighted to the CB and the figure is based on fewer than 25 unweighted to the CB and the figure is based on fewer than 25 unweighted to the contract of the CB and the cost of the cost of the cost of the cost of CB and the cost of CB and the cost of the cost of the cost of the cost of CB and the cost of the cost of the cost of CB and the cost of the cost of the cost of CB and the cost of CB and the cost of the cost of the cost of CB and the cost of CB and the cost of CB and the cost of CB and the cost of the cost of

3.10 CARESEEKING 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. **Table 11** presents information on careseeking for ill children in Nepal. Overall, 1% of children under age 5 showed symptoms of an ARI, 23% exhibited fever, and 10% experienced diarrhea in the 2 weeks preceding the survey (data not shown).

- Advice or treatment was sought for 75% of children with symptoms of ARI in the 2 weeks before the survey (**Table 11**).
- Advice or treatment was sought for 78% of children with fever in the 2 weeks before the survey.
- Advice or treatment was sought for 57% of children with diarrhea in the 2 weeks before the survey.
- Thirty-eight percent (38%) of children with diarrhea received oral rehydration salts (ORS), 18% received zinc supplements, 11% received ORS and zinc supplements, and 10% received ORS, zinc supplements, and continued feeding.

Table 11 Treatment for ARI symptoms, fever, and diarrhea

Among children under age 5 who had symptoms of acute respiratory infection (ARI) or had 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; 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) packet or given pre-packaged ORS fluid, percentage given zinc, percentage given ORS and zinc, and percentage given ORS, zinc, and continued feeding, according to background characteristics, Nepal DHS 2022

	Children with of A	n symptoms RI ¹	Children v	vith fever			Children w	ith diarrhea		
Background characteristic	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 pre- packaged 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 6–11 12–23 24–35 36–47 48–59	* * * (70.5)	9 9 13 11 19 12	78.9 80.5 78.9 79.2 76.8 74.9	96 118 233 259 259 193	55.1 53.2 55.9 63.5 60.7 52.7	7.1 25.0 37.5 54.5 55.9 42.8	19.2 16.6 19.2 13.0 27.3 14.4	3.2 6.6 11.2 10.4 21.8 10.7	3.2 4.7 11.2 10.4 21.8 10.7	68 76 126 103 71 81
Sex Male Female	(83.5) (66.3)	35 38	78.0 77.9	624 535	58.3 55.6	41.4 35.0	15.9 20.3	9.2 12.4	8.7 12.4	281 243
Residence Urban Rural	(71.4) 79.3	43 30	79.9 74.3	765 394	56.5 58.3	39.4 36.2	17.3 19.4	10.1 12.1	9.8 11.8	364 161
Ecological zone Mountain Hill Terai	* (78.3) (69.8)	4 31 38	71.3 69.2 84.9	64 455 639	(50.8) 53.2 59.4	(54.6) 47.3 32.9	(15.5) 15.2 19.4	(13.4) 12.8 9.5	(13.4) 12.5 9.2	22 166 336
Province Province 1 Urban	* *	14 12	76.2 76.5	221 150	48.7 (52.0)	38.0 (42.3)	16.2 (18.9)	9.6 (11.1)	9.6 (11.1)	95 71
Rurai Madhesh Province Urban Rural	* * *	2 14 5 9	75.4 88.7 88.7 88.8	267 188 79	(38.7) 56.8 59.3 (49.9)	(25.0) 35.9 40.4 (23.5)	(8.1) 17.4 19.8 (10.8)	(4.9) 7.6 8.0 (6.4)	(4.9) 7.6 8.0 (6.4)	23 135 99 36
Bagmati Province Urban Rural Gandaki Province	* * *	11 8 3 5	75.5 81.5 53.3 72 1	174 137 37 86	58.8 (60.0) (52.8) (48.7)	39.6 (38.7) (44.0) (23.1)	8.6 (7.0) (16.3) (2.3)	8.6 (7.0) (16.3) (0.0)	8.6 (7.0) (16.3) (0.0)	106 88 18 26
Urban Rural Lumbini Province	* * *	4 1 7	72.8 70.5 78.5	59 27 198	(10.1) * 65.0	36.9	28.8	16.6	15.5	15 10 84
Urban Rural Karnali Province Urban	* (94.1) *	2 5 14 6	82.3 73.6 70.2 70.0	112 87 104 52	(52.2) (79.7) 56.4 (54.3)	(33.9) (40.4) 53.9 (47.0)	(22.6) (35.9) 23.8 (24.0)	(14.5) (19.1) 18.0 (16.3)	(12.3) (19.1) 18.0 (16.3)	45 39 38 22
Rural Sudurpashchim Province Urban	* *	8 9 6	70.4 70.5 69.4	52 109 67	(59.2) 62.6 (67.2)	(62.8) 43.0 (44.3)	(23.6) 30.3 (36.0)	(20.2) 16.9 (19.6)	(20.2) 15.7 (19.6)	17 40 23
Rural	*	3	72.2	42	(56.3)	(41.3)	(22.6)	(13.2)	(10.4)	17

Continued...

Table 11–Continued

	Children with of A	n symptoms RI ¹	Children v	vith fever			Children w	ith diarrhea		
Background characteristic	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 pre- packaged ORS fluid	Percentage given zinc	Percentage given ORS and zinc	Percentage given ORS, zinc, and continued feeding ³	Number of children
Mother's education										
No education	*	14	82.0	218	59.8	38.1	16.2	7.6	7.2	124
Basic education (1–8)	(74.3)	28	77.0	400	55.0	42.2	19.1	12.1	12.1	191
Lower basic education (1-5)	*	13	77.2	201	54.0	37.6	18.8	11.6	11.6	100
Upper basic education (6–8)	*	14	76.8	199	56.0	47.3	19.4	12.7	12.7	91
Secondary (9–12)	(67.0)	28	77.5	490	54.7	33.5	18.9	12.1	11.6	194
Lower secondary (9–10)	*	17	78.6	290	53.3	28.3	17.9	9.5	9.5	125
Higher secondary (11–12)	*	11	76.0	200	57.1	43.1	20.6	17.0	15.6	68
More than secondary										
(13 and above)	*	3	(72.8)	50	*	*	*	*	*	16
Wealth guintile										
Lowest	(85.9)	23	68.4	264	49.0	43.5	17.7	14.4	14.0	107
Second	`*	15	73.7	261	64.9	41.8	20.9	11.6	11.6	118
Middle	*	15	82.4	249	53.5	34.5	16.8	6.5	6.5	133
Fourth	*	11	88.5	228	56.0	30.7	15.0	8.0	7.0	107
Highest	*	10	79.1	156	(66.2)	(45.3)	(20.4)	(16.7)	(16.7)	59
Total	74.6	73	78.0	1,159	57.1	38.4	17.9	10.7	10.4	524

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 Symptoms of ARI include short, rapid breathing which was chest-related and/or difficult breathing which was chest-related. ² Includes advice or treatment from the following sources: government sector, private sector, non-government sector, and shop. Excludes advice or treatment from a traditional practitioner.

³ Continued feeding includes children who were given more, same as usual, or somewhat less food during the diarrhea episode.

3.11 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 for children under age 5 is compared with the World Health Organization growth standard reference population (WHO 2006b). The distribution of children in a well-nourished population will be similar to the reference population, while the distribution of children in a poorly nourished population will not. In DHS surveys, the anthropometric indices height-for-age (stunting), weight-for-height (wasting), and weight-for-age (underweight) are used to measure nutritional status in young children. The three indices can be expressed in standard deviation units (*z* scores) from the median of the reference population. Values that are more than two standard deviations below (-2 *SD*) the median of the WHO Child Growth Standards population are used to define undernutrition. Each of the indices provides different information about growth and body composition that can be used to assess nutritional status.

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 who are below minus three standard deviations (-3 *SD*) 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 weight-for-height *z* score is below minus three standard deviations (-3 *SD*) from the median of the reference population 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-for-age *z* score is below minus two standard deviations (-2 *SD*) from the median of the reference population are classified as underweight. Children whose weight-for-age *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

In the 2022 NDHS, height and weight measurements were obtained for 2,765 children under age 5; the percentages with valid data for height-for-age, weight-for-height, and weight-for-age were 97%, 97%, and 98%, respectively.

The government of Nepal's target for SDG 2.1.1 is that the prevalence of stunting (height-for-age) among children under 5 years be at or below 29% by 2022, and at or below 15% by 2030. Similarly, the target for SDG 2.2.2, the prevalence of wasting (height-for-weight) among children under 5 years, is 7% by 2022 and 4% by 2030 (National Planning Commission 2020).

Table 12 shows the nutritional status of children under age 5, according to the three anthropometric indices: 25% of children under age 5 are stunted, 8% are wasted, and 19% are underweight. One percent of children under 5 are overweight.

Trends: The prevalence of stunting has declined from 57% in 1996 to 25% in 2022 (**Figure 6**). During this same period, the prevalence of wasting declined from 15% to 8%, and the prevalence of overweight was steady at 1%.



Figure 6 Trends in nutritional status of children

Table 12 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, Nepal DHS 2022

		Height-	for-age1		Weight-for-height				Weight-for-age				
Background characteristic	Percent- age below -3 SD	Percent- age below -2 SD ²	Mean z score (<i>SD</i>)	Number of children	Percent- age below -3 SD	Percent- age below -2 SD ²	Percent- age above +2 SD	Mean z score (SD)	Number of children	Percent- age below -3 SD	Percent- age below -2 SD ²	Mean z score (SD)	Number of children
Age in months													
	58	18.3	-0.8	244	12	75	62	-0.0	240	34	11 1	-0.7	245
6–11	2.0	9.9	-0.6	215	1.8	8.7	3.0	-0.5	215	3.0	13.7	-0.7	215
12–23	6.7	28.5	-1.3	507	1.1	10.2	0.6	-0.6	507	3.9	19.9	-1.0	507
24–35	6.3	29.1	-1.4	573	0.6	8.0	0.2	-0.7	574	4.1	23.3	-1.2	583
36–47	6.0	26.8	-1.4	554	0.5	5.4	0.3	-0.5	555	2.3	17.2	-1.1	555
48–59	6.8	23.7	-1.3	537	0.8	7.2	1.1	-0.6	537	4.3	19.5	-1.2	537
0-23	54	21.8	-10	966	13	92	25	-0.4	962	3.6	16.3	-0.9	967
24–59	6.4	26.6	-1.4	1.664	0.6	6.9	0.5	-0.6	1.666	3.6	20.0	-1.2	1.675
				/					,				,
Sex	F 2	24.7	1 0	1 260	0.0	0 5	16	0.5	1 266	2.2	16.6	1.0	1 271
Female	5.5 6.8	24.7	-1.2	1,300	0.0	6.0 6.9	0.9	-0.5	1,300	3.3	20.9	-1.0	1,371
i emale	0.0	20.0	-1.5	1,202	1.0	0.5	0.5	-0.0	1,202	0.9	20.3	-1.1	1,272
Mother's interview status													
Interviewed	6.1	25.2	-1.2	2,356	0.9	8.2	1.3	-0.6	2,352	3.8	19.3	-1.1	2,369
Not interviewed, but in	0.0	04 5	4.0	014	0.0	0.0		0.0	04.4	0.4	445	4.0	014
nousenold	6.2	21.5	-1.3	214	0.0	3.9	1.1	-0.3	214	2.1	14.5	-1.0	214
household3	2.1	10.2	0.0	60	2.2	20	0.0	0.5	62	0.0	0.9	0.0	60
nousenoid	2.1	19.5	-0.9	00	2.2	5.0	0.9	-0.5	02	0.0	9.0	-0.9	00
Residence													
Urban	4.8	21.5	-1.1	1,707	0.9	7.9	1.5	-0.5	1,706	3.2	16.9	-1.0	1,715
Rural	8.2	31.0	-1.5	923	0.8	7.5	0.9	-0.5	922	4.3	21.9	-1.2	927
Ecological zone													
Mountain	10.2	41.7	-1.7	148	0.5	3.7	1.9	-0.2	148	3.8	19.1	-1.1	149
Hill .	5.2	22.4	-1.2	922	0.2	3.9	1.2	-0.3	922	1.7	13.4	-0.9	926
Terai	6.1	24.7	-1.2	1,561	1.3	10.4	1.2	-0.7	1,558	4.7	21.7	-1.2	1,568
Province													
Province 1	4.3	20.0	-1.0	481	0.7	3.8	2.1	-0.4	480	1.7	13.0	-0.9	487
Urban	4.5	20.3	-1.0	303	1.2	3.7	2.8	-0.4	303	1.5	14.1	-0.8	305
Rural	3.9	19.4	-1.1	178	0.0	4.1	0.9	-0.4	177	1.9	11.1	-0.9	182
Madhesh Province	6.6	29.3	-1.4	687	0.2	10.1	0.0	-0.8	687	5.1	26.8	-1.4	691
Urban	6.6	27.2	-1.4	515	0.0	10.5	0.0	-0.8	515	5.2	24.1	-1.4	518
Rural	6.6	35.6	-1.6	172	1.0	9.1	0.0	-0.8	173	4.8	34.8	-1.5	173
Bagmati Province	4.7	17.6	-0.9	417	0.4	4.5	3.2	-0.2	417	2.9	10.5	-0.7	420
Urban	3.9	13.1	-0.7	313	0.5	5.4	3.3	-0.2	313	3.4	9.5	-0.6	316
Gandaki Provinco	6.0	10.7	-1.0	103	0.0	2.0	0.0	-0.2	100	1.4	10.7	-1.0	100
Urban	4.0	15.0	-1.2	112	0.0	4.0	0.0	-0.4	113	1.0	15.2	-0.9	113
Bural	11 7	27.6	-1.4	68	0.0	47	21	-0.3	68	1.6	22.9	-1.0	68
Lumbini Province	7.4	25.1	-1.3	435	3.3	16.2	0.3	-0.8	431	6.1	23.3	-1.3	435
Urban	2.9	18.9	-1.1	224	3.7	17.8	0.0	-0.8	221	3.7	20.0	-1.2	224
Rural	12.1	31.8	-1.5	211	2.8	14.5	0.6	-0.8	210	8.6	26.9	-1.4	211
Karnali Province	8.6	35.8	-1.6	195	0.6	3.8	0.7	-0.4	195	2.3	17.7	-1.2	195
Urban	5.6	26.6	-1.4	96	1.0	2.9	1.0	-0.4	96	0.5	14.8	-1.1	96
Rural	11.5	44.9	-1.9	98	0.3	4.7	0.4	-0.4	98	4.1	20.5	-1.3	98
Sudurpashchim Province	5.0	28.4	-1.3	233	0.3	5.1	2.4	-0.3	236	2.3	13.9	-1.0	233
Urban	4.7	27.0	-1.3	143	0.4	4.5	3.9	-0.2	144	1.2	11.6	-0.9	143
Rulai	5.4	30.7	-1.4	91	0.0	0.1	0.0	-0.4	92	3.9	17.0	-1.1	91
Mother's education ⁴													
No education	12.4	36.3	-1.7	549	1.1	10.4	0.2	-0.8	549	8.4	29.7	-1.5	551
Basic education (1–8)	4.5	27.5	-1.3	922	0.5	7.6	1.1	-0.5	921	2.4	19.5	-1.1	924
Lower basic education (1–5)	5.7	28.2	-1.3	470	0.6	8.4	1.0	-0.5	470	2.9	20.2	-1.1	470
Secondary $(0, 12)$	3.3	20.0	-1.3	452	0.4	0.0	1.3	-0.5	401	1.9	10.0	-1.1	454
Lower secondary (9–10)	4.4	10.3	-1.1	902 635	1.1	6.7	0.7	-0.5	900 634	2.0	15.7	-0.9	990 642
Higher secondary (11–12)	2.9	14.6	-0.9	347	1.1	6.8	3.6	-0.3	346	21	9.8	-0.7	349
More than secondary	2.0		0.0	0.17		0.0	0.0	0.0	0.10		5.0	0.7	0.10
(13 and above)	3.6	12.0	-0.5	117	0.0	6.7	3.1	-0.3	116	0.9	6.9	-0.5	117
Wealth quintile													
	10.2	36.0	-16	626	0 0	56	10	-0.5	627	47	20.4	-13	628
Second	57	28.4	-1.0	567	0.5	7.8	0.8	-0.5	567	3.9	22.4	-1.3	568
Middle	4.5	22.3	-1.2	547	0.4	8.5	1.7	-0.6	548	2.4	19.2	-1.1	551
Fourth	4.7	17.7	-1.1	479	1.4	8.4	0.5	-0.6	479	3.6	17.0	-1.0	480
Highest	3.6	13.1	-0.7	411	1.4	9.2	2.5	-0.4	407	2.8	11.7	-0.7	416
Total	6.0	24.8	-12	2 630	0.9	77	13	-0.5	2 628	36	18 7	-11	2 643

Note: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards.

 Recumbent length is measured for children under age 2; standing beight is measured for all other children
 Includes children who are below -3 SD from the WHO Child Growth Standards population median
 Includes children whose mothers are deceased
 For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

3.12 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 (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 are fed exclusively with breastmilk during the previous day

Sample: Youngest children age 0–5 months living with the mother

Minimum dietary diversity 6-23 months

Percentage of children age 6–23 months who are fed a minimum of 5 out of 8 defined food groups during the previous day. The 8 food groups are as follows: breastmilk; grains, roots, and tubers; legumes and nuts; dairy products (milk yogurt, cheese); flesh foods (meat, fish, poultry, and organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

Sample: Youngest children age 6-23 months living with the mother

Key IYCF indicators are presented in Table 13.

- Fifty-five percent (55%) of children age 0–23 months engaged in early initiation of breastfeeding.
- Seventy-eight percent (78%) of children age 6–23 months met the minimum dietary diversity requirement.
- Fifty-six percent (56%) of children under 6 months were exclusively breastfeed.

Table 13 Infant and young child feeding (IYCF) indicators									
Percentage of children fed according to various IYCF practices, Nepal DHS 2022									
Indicator	Indicator numerator and denominator	Value							
Early initiation of breastfeeding	Percentage of children age 0–23 months who were put to the breast within 1 hour of birth Number of children age 0–23 months	55.3 1,926							
Exclusive breastfeeding under 6 months	Percentage of children age 0–5 months who were fed exclusively with breastmilk during the previous day Number of youngest children age 0–5 months living with the mother	56.4 527							
Minimum dietary diversity 6–23 months	Percentage of children age 6–23 months who were fed foods and beverages from at least 5 out of 8 defined food groups during the previous day Number of youngest children age 6–23 months living with the mother	78.2 1,366							
Sweet beverage consumption 6–23 months	Percentage of children age 6–23 months who were given a sweet beverage during the previous day Number of youngest children age 6–23 months living with the mother	43.3 1,366							
Unhealthy food consumption 6–23 months	Percentage of children age 6–23 months fed unhealthy foods during the previous day Number of youngest children age 6–23 months living with the mother	68.7 1,366							

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

Sweet beverage consumption 6–23 months
Percentage of children age 6–23 months who were given a sweet beverage during the previous day
Unhealthy food consumption 6–23 months
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 the mother

- Forty-three percent (43%) of children age 6–23 months were fed a sweet beverage.
- Sixty-nine percent (69%) of children age 6–23 months consumed unhealthy foods.

Trends: Exclusive breastfeeding among children age 0–5 months has fluctuated widely—declining from 75% in 1996 to 53% in 2006, then rising to 70% in 2011, and declining to 56% in 2022 (**Figure 7**).



Figure 7 Trends in exclusive breastfeeding

3.13 ANEMIA

3.13.1 Prevalence of anemia in children

Anemia is a condition that is marked by low levels of hemoglobin in the blood. Causes of anemia include iron deficiency and other nutritional deficiencies, malaria, infections with hookworm or other helminths, chronic infections, and genetic conditions such as sickle cell disease. Anemia is a serious concern for children because it can impair cognitive development and is associated with long-term health and economic consequences. Severe anemia leads to increased mortality (Chaparro and Suchdev 2019).

Anemia status	Hemoglobin level in grams/deciliter
Anemic	<11.0
Mildly anemic	10.0–10.9
Moderately anemic	7.0–9.9
Severely anemic	<7.0
Not anemic	≥11.0
Note: Hemoglobin levels enumeration areas above	s are adjusted for altitude in /e 1,000 meters.
<i>ple</i> : Children age 6–59 months	

Of the 2,504 children age 6–59 months eligible for anemia testing in the survey, 96% were tested.

• As shown in **Table 14**, 43% of children age 6–59 months are anemic, including 25% who are mildly anemic, 18% who are moderately anemic, and less than 1% who are severely anemic.

Trends: The prevalence of anemia among children age 6–59 months has decreased from 48% in 2006 to 43% in 2022. However, the trend has not been consistently downward—in 2016, 53% of children were anemic.

Table 14 Prevalence of anemia in children

Percentage of children age 6-59 months classified as having anemia, according to background characteristics, Nepal DHS 2022

Background characteristic Any (<11.0 g/dl)			Number of			
characteristic(<11.0 g/dl)	Background	Any	Mild	Moderate	Severe	children age
Age in months	characteristic	(<11.0 g/dl)	(10.0–10.9 g/dl)	(7.0–9.9 g/dl)	(<7.0 g/dl)	6–59 months
G 1 70.0 30.8 38.5 0.7 214 12-23 63.9 32.1 30.6 1.2 493 24-35 43.1 24.5 18.1 0.4 573 36-47 31.2 20.7 10.4 0.2 540 48-59 26.0 19.5 6.5 0.0 524 6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex Male 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,507 Rural 43.7 24.3 18.9 0.5 1,507 Rural 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4	Age in months					
12-23 63.9 32.1 30.6 1.2 493 24-35 43.1 24.5 18.1 0.4 573 36-47 31.2 20.7 10.4 0.2 540 48-59 26.0 19.5 6.5 0.0 524 6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex Male 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,138 Rural 43.7 24.3 18.9 0.5 1,507 Rural 43.7 25.4 17.0 0.4 8337 Ecological zone Muntain 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4 21.2 0.5 1,387 Province Urban 33.9 19.9	6–11	70.0	30.8	38.5	0.7	214
24-35 43.1 24.5 18.1 0.4 573 36-47 31.2 20.7 10.4 0.2 540 48-59 26.0 19.5 6.5 0.0 524 6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex Will 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,138 Residence Urban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone Mountain 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4 21.2 0.5 1,387 Province 9.9 14.0 0.0 422 Urban 33.9 19.9 <td>12–23</td> <td>63.9</td> <td>32.1</td> <td>30.6</td> <td>1.2</td> <td>493</td>	12–23	63.9	32.1	30.6	1.2	493
36-47 31.2 20.7 10.4 0.2 540 48-59 26.0 19.5 6.5 0.0 524 6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex Male 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,507 Residence Urban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone 43.0 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Province 1 33.9 19.9 14.0 0.0 422 Urban	24–35	43.1	24.5	18.1	0.4	573
48-59 26.0 19.5 6.5 0.0 524 6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex	36–47	31.2	20.7	10.4	0.2	540
6-23 65.7 31.7 33.0 1.0 707 24-59 33.7 21.6 11.8 0.2 1,637 Sex	48–59	26.0	19.5	6.5	0.0	524
24-59 33.7 21.6 11.8 0.2 1,637 Sex Male 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,138 Residence Urban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone Mountain 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4 21.2 0.5 1,387 Province 422 Urban 33.2 18.9 14.0 0.0 422 Urban 33.2 18.9 14.3 0.0 261 Rural 35.1 21.7 13.5 0.0 161 Madhesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5	6–23	65.7	31.7	33.0	1.0	707
Sex Jale 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,138 Residence Utban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone Mountain 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4 21.2 0.5 1,387 Province 74.2 0.5 1,387 Province 1 33.9 19.9 14.0 0.0 422 Urban 33.2 18.9 14.3 0.0 261 Rural 35.1 21.7 13.5 0.0 161 Madhesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5 27.9 21.9 0.7 463	24–59	33.7	21.6	11.8	0.2	1,637
Male 43.9 26.2 17.3 0.4 1,206 Female 42.7 23.1 19.2 0.5 1,138 Residence Uban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone	Sex					
Female42.723.119.20.51,138Residence	Male	43.9	26.2	17.3	0.4	1,206
ResidenceUrban43.724.318.90.51.507Rural42.725.417.00.4837Ecological zoneMountain43.224.118.40.7131Hill33.820.113.30.4826Terai49.127.421.20.51,387Province 1Province 1Number 133.218.914.30.0261Rural35.121.713.50.0161Madhesh Province50.628.021.90.6619Urban50.527.921.90.7463Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.014.50.3179Urban48.030.217.30.5194Karnali Province39.825.014.50.3179Urban48.030.217.30.5194 <td< td=""><td>Female</td><td>42.7</td><td>23.1</td><td>19.2</td><td>0.5</td><td>1,138</td></td<>	Female	42.7	23.1	19.2	0.5	1,138
Urban 43.7 24.3 18.9 0.5 1,507 Rural 42.7 25.4 17.0 0.4 837 Ecological zone	Residence					
Rural42.725.417.00.4837Ecological zone	Urban	43.7	24.3	18.9	0.5	1,507
Ecological zone Mountain 43.2 24.1 18.4 0.7 131 Hill 33.8 20.1 13.3 0.4 826 Terai 49.1 27.4 21.2 0.5 1,387 Province Province 1 33.9 19.9 14.0 0.0 422 Urban 33.2 18.9 14.3 0.0 261 Rural 35.1 21.7 13.5 0.0 161 Madhesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5 27.9 21.9 0.7 463 Rural 50.8 28.4 22.0 0.4 156 Bagmati Province 42.5 23.8 18.6 0.0 359 Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province	Rural	42.7	25.4	17.0	0.4	837
Mountain43.224.118.40.7131Hill33.820.113.30.4826Terai49.127.421.20.51,387Province </td <td>Ecological zone</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ecological zone					
Hill33.820.113.30.4826Terai49.127.421.20.51,387ProvinceProvince 133.919.914.00.0422Urban33.218.914.30.0261Rural35.121.713.50.0161Madhesh Province50.628.021.90.6619Urban50.527.921.90.7463Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.4 <td>Mountain</td> <td>43.2</td> <td>24.1</td> <td>18.4</td> <td>0.7</td> <td>131</td>	Mountain	43.2	24.1	18.4	0.7	131
Terai49.127.421.20.51,387ProvinceProvince 133.919.914.00.0422Urban33.218.914.30.0261Rural35.121.713.50.0161Madhesh Province50.628.021.90.6619Urban50.527.921.90.7463Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Hill	33.8	20.1	13.3	0.4	826
Province Province 1 33.9 19.9 14.0 0.0 422 Urban 33.2 18.9 14.3 0.0 261 Rural 35.1 21.7 13.5 0.0 161 Madhesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5 27.9 21.9 0.7 463 Rural 50.8 28.4 22.0 0.4 156 Bagmati Province 42.5 23.8 18.6 0.0 359 Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 <	Terai	49.1	27.4	21.2	0.5	1,387
Province 133.919.914.00.0422Urban33.218.914.30.0261Rural35.121.713.50.0161Madhesh Province50.628.021.90.6619Urban50.527.921.90.7463Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Province					
Urban 33.2 18.9 14.3 0.0 261 Rural 35.1 21.7 13.5 0.0 161 Madhesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5 27.9 21.9 0.7 463 Rural 50.8 28.4 22.0 0.4 156 Bagmati Province 42.5 23.8 18.6 0.0 359 Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0	Province 1	33.9	19.9	14.0	0.0	422
Rural35.121.713.50.0161Madhesh Province50.628.021.90.6619Urban50.527.921.90.7463Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	33.2	18.9	14.3	0.0	261
Machesh Province 50.6 28.0 21.9 0.6 619 Urban 50.5 27.9 21.9 0.7 463 Rural 50.8 28.4 22.0 0.4 156 Bagmati Province 42.5 23.8 18.6 0.0 359 Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban <t< td=""><td>Rural</td><td>35.1</td><td>21.7</td><td>13.5</td><td>0.0</td><td>161</td></t<>	Rural	35.1	21.7	13.5	0.0	161
Urban 50.5 27.9 21.9 0.7 463 Rural 50.8 28.4 22.0 0.4 156 Bagmati Province 42.5 23.8 18.6 0.0 359 Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2	Madhesh Province	50.6	28.0	21.9	0.6	619
Rural50.828.422.00.4156Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	50.5	27.9	21.9	0.7	463
Bagmati Province42.523.818.60.0359Urban44.425.119.30.0268Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Rural	50.8	28.4	22.0	0.4	156
Urban 44.4 25.1 19.3 0.0 268 Rural 36.8 20.1 16.8 0.0 92 Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78 <td>Bagmati Province</td> <td>42.5</td> <td>23.8</td> <td>18.6</td> <td>0.0</td> <td>359</td>	Bagmati Province	42.5	23.8	18.6	0.0	359
Rural36.820.116.80.092Gandaki Province30.719.611.10.0168Urban25.916.39.60.0104Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	44.4	25.1	19.3	0.0	268
Gandaki Province 30.7 19.6 11.1 0.0 168 Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Rural	36.8	20.1	16.8	0.0	92
Urban 25.9 16.3 9.6 0.0 104 Rural 38.5 25.1 13.4 0.0 64 Lumbini Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Gandaki Province	30.7	19.6	11.1	0.0	168
Rural38.525.113.40.064Lumbini Province48.927.720.40.8392Urban49.825.323.41.0198Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	25.9	16.3	9.6	0.0	104
Lumbrin Province 48.9 27.7 20.4 0.8 392 Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Rural	38.5	25.1	13.4	0.0	64
Urban 49.8 25.3 23.4 1.0 198 Rural 48.0 30.2 17.3 0.5 194 Karnali Province 39.8 25.0 14.5 0.3 179 Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Lumbini Province	48.9	27.7	20.4	0.8	392
Rural48.030.217.30.5194Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	49.8	25.3	23.4	1.0	198
Karnali Province39.825.014.50.3179Urban38.326.511.80.087Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Rural	48.0	30.2	17.3	0.5	194
Urban 38.3 26.5 11.8 0.0 87 Rural 41.2 23.6 17.1 0.5 93 Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Karnali Province	39.8	25.0	14.5	0.3	179
Rural41.223.617.10.593Sudurpashchim Province45.423.720.21.6204Urban47.923.622.41.9126Rural41.423.716.51.178	Urban	38.3	26.5	11.8	0.0	87
Sudurpashchim Province 45.4 23.7 20.2 1.6 204 Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Rural	41.2	23.6	17.1	0.5	93
Urban 47.9 23.6 22.4 1.9 126 Rural 41.4 23.7 16.5 1.1 78	Sudurpashchim Province	45.4	23.7	20.2	1.6	204
Rural 41.4 23.7 16.5 1.1 78	Urban	47.9	23.6	22.4	1.9	126
	Rural	41.4	23.7	16.5	1.1	78

Continued...

		Anemia status by	hemoglobin level		Number of
Background characteristic	Any (<11.0 g/dl)	Mild (10.0–10.9 g/dl)	Moderate (7.0–9.9 g/dl)	Severe (<7.0 g/dl)	children age 6–59 months
Wealth guintile					
Lowest	41.7	22.6	18.4	0.8	574
Second	45.5	24.3	21.2	0.0	513
Middle	45.9	29.8	15.9	0.2	485
Fourth	49.2	29.2	19.0	1.0	424
Highest	32.3	15.9	16.0	0.3	349
Total	43.4	24.7	18.2	0.5	2,344

Note: The table is based on children who stayed in the household on the night before the interview and who were tested for anemia. The prevalence of anemia, based on hemoglobin levels, is adjusted for altitude using CDC formulas (CDC 1998) and cutoffs defined by WHO (WHO 2017). Hemoglobin is measured in grams per deciliter (g/dl) using the HemoCue 201+ device.

3.13.2 Prevalence of anemia in women

Anemia in adults can cause fatigue, lethargy, reduced physical productivity, and poor work performance (Chaparro and Suchdev 2019). Anemia is a major concern among pregnant women because it can lead to increased maternal mortality and poor birth outcomes (Haider et al. 2013).

Hemoglobin leve	Is below which	women are	considered	anemic
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Respondents	Hemoglobin level in grams/deciliter
Non-pregnant women age 15–49	Less than 12.0
Pregnant women age 15–49	Less than 11.0
Note: Hemoglobin levels are adjus	ted for cigarette smoking,
and for altitude in enumeration are	as above 1,000 meters.

Sample: Women age 15-49

Of the 7,403 women age 15–49 eligible for anemia testing in the survey, 99% were tested.

- As shown in **Table 15**, 34% of women are anemic, including 18% who are mildly anemic, 15% who are moderately anemic, and 1% who are severely anemic.
- Women living in the terai ecological zone are more likely to be anemic (45%) than those living in hills (20%) and mountain (23%) regions. More than half of the women (52%) are anemic in Madhesh Province, which is in the terai ecological zone.

Trends: The prevalence of anemia among women age 15–49 increased from 36% in 2006 to 41% in 2016 and declined to 34% in 2022.

Table 15 Prevalence of anemia in women

Percentage of women age 15-49 with anemia, according to background characteristics and pregnancy status, Nepal DHS 2022

	-	Any	Mild	Moderate	Severe	
De al ana d	Non-pregnant	<12.0 a/dl	11.0–11.9 g/dl	8.0–10.9 a/dl	<8.0 a/dl	Niverland of
characteristic	Pregnant	<11.0 g/dl	10.0–10.9 g/dl	7.0–9.9 g/dl	<7.0 g/dl	women
Age						
5–19		39.4	21.3	16.2	2.0	1,305
20–29		34.5	20.4	13.4	0.7	2,514
30–39		30.2	15.9	13.4	0.8	2,070
40-49		33.5	10.1	10.5	0.9	1,440
Number of living children		36.0	19.8	14 7	15	2 083
1		31.3	19.3	11.2	0.8	1.329
2–3		32.9	18.2	14.1	0.7	2,915
4–5		36.2	15.5	19.4	1.3	833
6+		36.4	14.8	21.0	0.6	169
Maternity status		20.7	00.0	40.4	0.0	207
Pregnant Not pregnant1		32.7	20.2	12.4	0.2	307
		54.0	10.4	14.0	1.0	1,022
Ethnic group Brahmin/Chhetri		25.6	15.0	0.2	0.5	2 082
Dalit		36.3	20.2	15.4	0.5	1 108
Janajati		31.4	17.0	13.4	0.9	2,668
Madhesi		48.4	23.9	22.7	1.8	1,157
Muslim		50.0	21.2	25.7	3.0	309
						5
Residence		22.0	17.0	14.0	1.0	E 020
Rural		33.0 34.2	19.6	14.9	1.0	2 299
Ecological zono		0.12		1011		2,200
Mountain		23.0	12.7	9.4	0.9	380
Hill		20.0	12.7	7.0	0.4	2,950
Terai		45.3	23.3	20.6	1.5	3,999
Province						
Province 1		27.6	15.3	11.4	0.9	1,235
Urban		28.5	14.6	12.9	1.1	807
Madhesh Province		20.0 52.4	10.0	8.0 25.3	0.5	420 1 458
Urban		52.4	24.9	25.8	1.6	1,087
Rural		52.6	26.1	23.8	2.8	371
Bagmati Province		23.1	14.6	8.0	0.5	1,546
Urban Rural		22.0 25.1	14.0	7.9 8.1	0.7	280
Gandaki Province		25.1	15.8	8.9	0.4	689
Urban		24.1	16.1	7.5	0.6	485
Rural		27.4	15.1	12.3	0.0	203
Lumbini Province		44.4 46.0	23.4 22.6	19.5 21.7	1.5	749
Rural		42.4	24.4	16.7	1.3	569
Karnali Province		21.2	13.3	7.5	0.4	450
Urban		21.8	13.3	8.0	0.5	249
Sudurpashchim Province		20.5	13.3	0.0 12.6	0.4	634
Urban		25.9	14.0	11.8	0.0	387
Rural		29.6	15.4	13.8	0.4	246
Education						
No education		38.3	18.1	19.3	0.9	1,819
Basic education (1–8)		33.5	17.8	14.7	1.1	2,312
Upper basic education (1–5)		34.7	19.4	14.7	0.7	1,103
Secondary (9–12)		32.8	19.5	12.2	1.1	2,829
Lower secondary (9–10)		34.5	20.3	13.3	0.9	1,645
Higher secondary (11–12)		30.6	18.4	10.7	1.5	1,185
(13 and above)		24.3	16.5	7.8	0.0	368
Wealth quintilo		2			0.0	
Lowest		25.7	14.8	10.2	0.7	1,273
Second		35.4	19.1	15.8	0.5	1,464
Middle		41.2	21.1	18.8	1.3	1,486
Fourth Highest		37.1	19.1 17 7	16.6 11.0	1.4	1,475
		23.1	11.1	11.0	1.0	1,030
I OTAI		34.0	18.4	14.5	1.0	7,329

Note: The prevalence of anemia, based on hemoglobin levels, is adjusted for altitude and for cigarette smoking, if known, using CDC formulas (CDC 1998) and cutoffs defined by WHO (WHO 2017). Hemoglobin is measured in grams per deciliter (g/dl) using the HemoCue 201+ device. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ¹ Includes women who do not know if they are pregnant

3.14 HIV

3.14.1 Knowledge of HIV prevention 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. This is especially true for young people, who are often at greater risk because they may have shorter relationships with more partners or may engage in other risky behaviors.

- Sixty-five percent (65%) of young women and 88% of young men know that consistent use of condoms can reduce the risk of getting HIV (**Table 16**).
- Sixty-nine percent (69%) of young women and 85% of young men know that having just one uninfected partner can reduce the chance of getting HIV.
- Only 16% of young women and 27% of young men have a thorough knowledge of HIV prevention methods.

Table 16 Knowledge of 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 the sexual transmission of HIV and reject major misconceptions about HIV transmission, according to background characteristics, Nepal DHS 2022

		Women ag	ge 15–24		Men age 15–24				
Background characteristic	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Percentage with knowledge about HIV prevention ³	Number of women	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Percentage with knowledge about HIV prevention ³	Number of men	
Age 15–19 15–17 18–19 20–24 20–22 23–24	60.8 59.6 62.5 68.2 67.0 70.2	66.2 65.1 67.8 72.4 71.9 73.2	14.1 12.5 16.3 17.8 15.7 21.4	2,643 1,542 1,100 2,637 1,645 993	86.8 86.9 86.7 88.6 87.9 89.8	83.5 82.6 84.9 85.6 84.1 88.4	23.4 25.0 21.1 30.7 30.9 30.2	985 591 393 857 551 306	
Marital status Never married Ever had sex Never had sex Ever married	68.5 (92.5) 68.0 59.7	74.6 (91.9) 74.2 62.9	19.4 (21.8) 19.3 11.8	2,897 54 2,843 2,383	88.1 93.2 86.4 85.6	84.9 90.6 83.0 82.8	27.9 30.5 27.1 22.0	1,493 373 1,120 349	
Ethnic group Brahmin/Chhetri Dalit Janajati Madhesi Muslim Others	79.7 51.9 74.3 47.5 22.3	83.9 58.0 79.7 51.5 24.1	23.9 11.2 18.6 7.4 3.1	1,394 879 1,791 922 284 9	93.9 83.6 90.3 81.8 78.3 *	87.8 77.3 89.6 79.0 79.6	36.6 17.0 31.9 15.1 22.8 *	427 270 635 396 110 4	
Residence Urban Rural	66.0 61.4	70.1 67.6	17.3 13.2	3,595 1,685	88.7 85.0	85.0 83.3	29.0 21.1	1,321 521	
Ecological zone Mountain Hill Terai	73.3 75.3 56.5	80.9 81.3 60.2	24.9 18.9 13.2	276 2,010 2,994	85.6 93.7 83.5	76.7 92.0 79.8	13.8 38.6 19.5	79 730 1,034	
Province Province 1 Urban Rural Madhesh Province Urban Rural Bagmati Province Urban Rural Gandaki Province Urban Rural Lumbini Province Urban Rural Karnali Province Urban Rural Karnali Province Urban Rural Sudurpashchim Province Urban Rural Sudurpashchim Province Urban Rural Sudurpashchim Province Urban Rural Sudurpashchim Province Urban Rural Sudurpashchim (1–8) Lower basic education (1–5) Upper basic education (6–8) Secondary (9–12)	69.0 72.9 62.5 35.5 35.1 36.7 77.1 80.0 66.6 75.1 74.9 75.7 69.7 73.3 64.6 69.1 73.7 63.3 80.9 83.3 76.8 12.8 46.0 30.4 54.3 79.5	73.0 75.1 69.7 39.1 38.8 40.0 81.5 84.5 70.8 84.5 70.8 84.3 82.5 89.3 74.5 77.6 70.0 74.9 76.3 73.1 85.7 85.7 85.7 85.7 85.7	15.3 18.0 10.9 5.1 4.9 6.0 25.9 27.9 18.7 18.6 19.7 15.5 15.9 17.4 13.8 13.4 15.6 10.6 23.8 24.9 22.1 2.2 6.7 3.3 8.5 21.4	854 530 324 1,217 912 306 967 755 212 463 343 120 915 538 377 373 209 165 538 377 373 209 165 490 309 182 362 1,676 586 1,090 2 132	84.3 85.7 81.5 77.0 77.6 75.3 93.4 94.1 88.8 92.2 93.5 89.0 91.3 91.8 90.6 91.3 93.4 88.2 95.2 95.8 93.7 (43.1) 81.5 74.1 84.3 92.7	83.1 83.6 82.2 74.6 75.8 71.5 90.1 90.1 90.1 90.1 91.5 93.4 87.3 88.8 85.6 93.2 81.6 86.6 74.5 87.4 87.3 87.4 87.3 87.8 (44.6) 75.8 64.9 79.9 90.6	24.7 24.2 25.7 10.0 11.4 6.3 38.0 40.0 24.5 40.4 43.8 32.3 25.8 30.1 19.9 27.8 32.0 21.9 36.0 34.6 39.3 (3.3) 16.8 7.4 20.4 32.2	312 207 105 430 312 118 456 397 59 123 86 37 277 160 116 104 61 140 98 42 48 611 169 441 139	
Secondary (9–12) Lower secondary (9–10) Higher secondary (11–12) More than secondary (13 and above)	79.5 74.6 84.5 92.0	85.1 81.4 88.8 90.1	21.4 14.9 28.1 48.1	3,132 1,587 1,545 109	92.7 91.9 93.5 (90.5)	90.6 88.3 93.0 (90.9)	32.2 25.5 38.8 (52.1)	1,139 570 569 44	
Wealth quintile Lowest Second Middle Fourth Highest Total 15–24	61.8 54.6 59.1 67.5 80.9 64.5	68.1 59.4 64.9 72.7 82.5 69.3	11.7 10.5 13.3 17.7 27.3 16.0	1,012 1,075 1,059 1,183 951 5,280	85.0 83.9 86.2 88.8 92.9 87.6	80.8 80.2 78.9 88.2 91.9 84.5	24.9 19.0 18.9 27.6 41.4 26.8	278 365 355 449 396 1,842	

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 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.

3.14.2 Prior HIV testing

HIV testing programs diagnose people living with HIV so that they can be linked to care and access antiretroviral therapy (ART). Knowledge of HIV status helps HIV negative individuals reduce risk and remain negative.

- Overall, 10% of women and 13% of men age 15–49 have ever been tested for HIV (**Table 17.1** and **Table 17.2**, respectively). Almost all of those who were tested received the test results.
- Three percent (3%) of women and 2% of men age 15–49 were tested for HIV in the 12-month period preceding the survey and received the results of the last test they took.

Table 17.1 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, Nepal DHS 2022

P	ercent distributi whether they	on of women by testi received the results o	ng status and by f the last test		Percentage tested for HIV in the past 12 months and received the	ited iast id		
Background Excharacteristic re	ver tested and ceived results	Ever tested, did not receive results	Never tested ¹	Total	Percentage ever tested	results of the last test	Number of women	
Age								
15–24	6.3	0.1	93.5	100.0	6.5	2.4	5,280	
15–19	1.6	0.1	98.2	100.0	1.8	1.0	2,643	
20–24	11.0	0.1	88.8	100.0	11.2	3.8	2,637	
25–29	17.5	0.3	82.2	100.0	17.8	4.7	2,435	
30–39	13.9	0.4	85.7	100.0	14.3	2.9	4,169	
40–49	5.7	0.3	94.0	100.0	6.0	1.0	2,961	
Marital status								
Never married	1.9	0.1	98.0	100.0	2.0	0.4	3,203	
Ever had sex	10.9	0.0	89.1	100.0	10.9	4.1	84	
Never had sex	1.7	0.1	98.2	100.0	1.8	0.3	3,120	
Married or living together	12.5	0.3	87.2	100.0	12.8	3.3	11,180	
Divorced/separated/widowed	10.8	0.3	88.9	100.0	11.1	1.8	462	
Ethnic group								
Brahmin/Chhetri	15.0	0.3	84.6	100.0	15.4	3.9	4.152	
Dalit	8.2	0.4	91.5	100.0	8.5	2.1	2.240	
Janajati	9.9	0.3	89.8	100.0	10.2	2.6	5,428	
Madhesi	6.0	0.1	93.9	100.0	6.1	1.8	2,333	
Muslim	2.7	0.0	97.3	100.0	2.7	0.4	676	
Others	*	*	*	100.0	*	*	15	
Residence								
Urban	11.3	0.2	88.5	100.0	11.5	3.0	10.178	
Rural	7.8	0.3	91.9	100.0	8.1	1.9	4,667	
							,	
Mountain	7.0	0.3	02.7	100.0	73	16	701	
Hill	12.5	0.3	92.7 87 1	100.0	12.0	3.5	5 872	
Terai	88	0.4	91.0	100.0	9.0	21	8 182	
	0.0	0.2	0110	10010	0.0		0,102	
Province	0.7	0.0	00.4	400.0	0.0	0.0	0.400	
Province 1	9.7	0.2	90.1	100.0	9.9	2.3	2,493	
Dipan	10.5	0.1	89.4	100.0	10.0	2.5	1,040	
Kulai Madhaah Bravinaa	0.3	0.3	91.4	100.0	0.0	2.0	2 010	
Urban	3.0	0.0	90.4	100.0	3.0	1.0	2 226	
Bural	27	0.0	90.1	100.0	27	0.0	783	
Bagmati Province	14 5	0.0	85.3	100.0	14 7	3.8	3 062	
Lirban	16.6	0.2	83.3	100.0	16.7	4.4	2 464	
Rural	5.8	0.5	93.6	100.0	6.4	1.3	599	
Gandaki Province	10.6	0.4	89.0	100.0	11.0	2.9	1.401	
Urban	11.7	0.6	87.8	100.0	12.2	3.4	992	
Rural	8.1	0.1	91.8	100.0	8.2	1.7	409	
Lumbini Province	12.0	0.2	87.8	100.0	12.2	2.9	2,691	
Urban	13.0	0.3	86.7	100.0	13.3	3.3	1,553	
Rural	10.6	0.2	89.3	100.0	10.7	2.4	1,138	
Karnali Province	7.5	0.5	92.1	100.0	7.9	2.4	909	
Urban	9.6	0.7	89.8	100.0	10.2	3.5	507	
Rural	4.8	0.3	94.9	100.0	5.1	0.9	402	
Sudurpashchim Province	13.8	0.7	85.5	100.0	14.5	3.6	1,279	
Urban	14.1	0.6	85.4	100.0	14.6	3.2	796	
Rurai	13.3	1.1	85.7	100.0	14.3	4.2	484	
Education								
No education	3.1	0.2	96.7	100.0	3.3	0.7	3,796	
Basic education (1–8)	7.6	0.2	92.2	100.0	7.8	1.6	4,595	
Lower basic education (1–5)	6.5	0.2	93.3	100.0	6.7	1.4	2,314	
Upper basic education (6–8)	8.7	0.2	91.1	100.0	8.9	1.7	2,281	
Secondary (9–12)	14.3	0.3	85.4	100.0	14.6	4.0	5,798	
Lower secondary (9–10)	12.1	0.3	87.6	100.0	12.4	2.9	3,270	
Higher secondary (11–12)	17.1	0.4	82.5	100.0	17.5	5.4	2,529	
More than secondary	22.0	<u>.</u>	00.0	400.0	00 f	0.0	050	
(13 and above)	33.0	0.4	66.6	100.0	33.4	9.6	656	
Wealth quintile								
Lowest	6.9	0.3	92.8	100.0	7.2	1.9	2,628	
Second	5.8	0.3	93.8	100.0	6.2	1.3	2,857	
Middle	8.3	0.2	91.5	100.0	8.5	1.7	3,028	
Fourth	10.3	0.2	89.6	100.0	10.4	2.9	3,197	
Highest	18.5	0.3	81.2	100.0	18.8	5.1	3,135	
Total	10.2	0.3	89.6	100.0	10.4	2.6	14,845	

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. ¹ Includes respondents who have not heard of HIV or who refused to answer questions on testing

Table 17.2 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, Nepal DHS 2022

Percent distribution of men by testing status and by for HIV is whether they received the results of the last test received	n the past nths and ved the
Background Ever tested and received results Ever tested, did not receive results Percentage Never tested ¹ results	s of the Number of t test men
Age	
15-24 4.9 0.1 95.1 100.0 4.9 1	.4 1,842
15-19 1.7 0.2 98.2 100.0 1.8 0	985
20-24 8.5 0.0 91.5 100.0 8.5 2 5 00 00 01.5 100.0 8.5 2	2.5 857
25-29 18.5 U.2 81.3 100.0 18.7 3	1.7 716
30-39 18.6 0.2 81.0 100.0 19.0 2 40-49 14.2 0.4 85.4 100.0 14.6 1	
	./ 1,100
Marital status	4 700
Never married 7.1 0.1 92.8 100.0 7.2 1	.9 1,768
Ever had sex 15.0 0.0 64.4 100.0 15.0 4	·.0 539
Married or living together 15.6 0.3 84.2 100.0 5.5 0	2 3 101
Divorced/separated/widowed (14.4) (0.0) (85.6) 100.0 (14.4) (7	7) 44
	,
Ennine group Brahmin/Chhatri 15.7 0.1 84.3 100.0 15.7 3	1 232
Dalit 91 04 905 1000 95 1	5 658
Janaiati 13.5 0.4 86.2 100.0 13.8 2	2.2 1.869
Madhesi 9.4 0.0 90.6 100.0 9.4 1	.6 917
Muslim 9.0 0.0 91.0 100.0 9.0 0).4 228
Others * * * 100.0 *	* 8
Residence	
Urban 14.0 0.2 85.8 100.0 14.2 2	2.5 3,462
Rural 8.9 0.1 91.0 100.0 9.0 1	.4 1,451
Ecological zone	
Mountain 9.8 0.3 89.9 100.0 10.1 ().4 255
Hill 14.0 0.2 85.9 100.0 14.1 2	2.6 1,973
Terai 11.7 0.2 88.1 100.0 11.9 2	2.0 2,685
Province	
Province 1 9.5 0.0 90.5 100.0 9.5 1	.2 882
Urban 11.0 0.0 89.0 100.0 11.0 1	.4 604
Rural 6.2 0.0 93.8 100.0 6.2 0).9 278
Madhesh Province 8.4 0.0 91.6 100.0 8.4 1	.4 997
Urban 9.0 0.0 91.0 100.0 9.0 1	.3 722
Rural 6.8 0.0 93.2 100.0 6.8 1	.5 275
Bagmati Province 14.1 0.2 85.6 100.0 14.4 3	1,214
Urban 16.0 0.3 83.7 100.0 16.3 3	1,016
Rural 4.8 0.0 95.2 100.0 4.8 1	.2 198
Galidati Province 16.9 0.5 00.6 100.0 19.4 4	·./ 30/
Ulbari 21.1 0.6 76.3 100.0 21.7 3 Rural 14.0 0.4 85.6 100.0 14.4 3	204 2 123
Lumbini Province 14.1 0.5 85.5 100.0 14.5 1	8 812
Urban 14.6 0.6 84.8 100.0 15.2 2	2.3 468
Rural 13.3 0.3 86.4 100.0 13.6 1	.2 344
Karnali Province 10.1 0.1 89.8 100.0 10.2 1	.3 266
Urban 13.0 0.0 87.0 100.0 13.0 1	.1 154
Rural 6.1 0.2 93.7 100.0 6.3 1	.5 113
Sudurpashchim Province 16.9 0.4 82.7 100.0 17.3 22	.1 355
Urban 19.8 0.6 /9.6 100.0 20.4 2	
Rurai 11.4 0.0 88.6 100.0 11.4 0	1.9 122
Education	
No education 4.3 0.2 95.4 100.0 4.6 0	1.0 393
Basic education (1-8) 9.9 0.2 89.9 100.0 10.1 2	
Lower basic education (1-5) 10.0 0.0 90.0 100.0 10.0 2	
Upper basic education (o-o) 9.0 0.4 09.0 100.0 10.2 1 Secondary (0-12) 14.1 0.3 85.6 100.0 14.4 5	.0 1,007
Lower secondary (9–12) 12.7 0.3 87.0 100.0 13.0 1	5 1 284
Higher secondary (11–12) 16.0 0.2 83.8 100.0 16.2	3.4 959
More than secondary	
(13 and above) 24.4 0.0 75.6 100.0 24.4 4	.2 377
Wealth guintile	
Lowest 6.7 0.3 93.0 100.0 7.0 1	.2 751
Second 7.7 0.1 92.2 100.0 7.8 1	.2 933
Middle 9.5 0.1 90.4 100.0 9.6 1	.9 957
Fourth 14.4 0.2 85.4 100.0 14.6 2	.1 1,135
Highest 20.8 0.4 78.8 100.0 21.2 4	.0 1,137
Total 15-49 12.5 0.2 87.3 100.0 12.7 2	2.2 4,913

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

3.15 DISABILITY

Functional domains

Table 18 Disability by domain and age

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

The 2022 NDHS included The DHS Program's Disability Module, a series of questions based on the Washington Group on Disability Statistics (WG) Short Set of 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 and provide basic information on disability comparable to that being collected worldwide via the WG disability tools.

Respondents to the Household Questionnaire provided information for all the household members and visitors on disability status for each of the functional domains: whether they had no difficulty, some difficulty, a lot of difficulty, or no ability at all in the specified functional domain. **Table 18** shows the results for the de facto household population age 5 and older.

- Overall, 71% of the de facto household population age 5 or older have no difficulty in any of the functional domains.
- Among the de facto household population age 5 or older 23% have some difficulty in at least one functional domain, 5% have a lot of difficulty, and 1% cannot do at least one domain.
- Six percent (6%) of the de facto household members age 5 or older have a lot of difficulty or cannot function at all in at least one of the functional domains.
- Among the de facto household population age 5 and older, the most common disability reported is difficulty seeing (15%) followed by difficulty walking or climbing steps (12%).

	Degree of difficulty						
Domain and age	No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	Total	A lot of difficulty, or cannot do at all	Number of persons
Domain							
Difficulty seeing	84.5	13.5	1.8	0.1	100.0	1.9	24,529
Difficulty hearing	92.3	6.2	1.3	0.2	100.0	1.5	24,529
Difficulty communicating	96.7	2.4	0.6	0.4	100.0	0.9	24,529
concentrating Difficulty walking or climbing	90.9	7.8	1.0	0.3	100.0	1.3	24,529
steps Difficulty washing all over or	88.3	8.6	2.6	0.5	100.0	3.1	24,529
dressing	96.1	2.5	0.9	0.5	100.0	1.4	24,529
Difficulty in at least one domain	1						
5–9	81.4	14.5	3.1	1.0	100.0	4.1	2,704
10–14	91.2	7.1	1.3	0.4	100.0	1.7	2.891
15–19	89.8	8.6	0.9	0.7	100.0	1.5	2,517
20–29	88.8	9.6	0.8	0.7	100.0	1.5	4,358
30–39	78.4	19.4	1.7	0.6	100.0	2.2	3,588
40–49	59.3	36.4	3.7	0.6	100.0	4.3	2,777
50–59	47.0	43.3	8.6	1.0	100.0	9.6	2,680
60+	25.7	47.2	23.9	3.2	100.0	27.1	3,014
Age 15 and over	66.7	26.0	6.2	1.1	100.0	7.3	18,934
Total	71.2	22.5	5.3	1.0	100.0	6.3	24,529

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