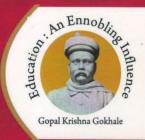
# Utilization of RCH services during COVID-19 Pandemic: An assessment

# Findings from IIPS-PRC multi-centric study MAHARASHTRA



POPULATION RESEARCH CENTRE
GOKHALE INSTITUTE OF POLITICS AND ECONOMICS,
PUNE, MAHARASHTRA





INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES DEEMED TO BE A UNIVERSITY, MUMBAI, INDIA

July, 2021

Report submitted to the Ministry of Health and Family Welfare
(Stats. Division)
Government of India, New Delhi

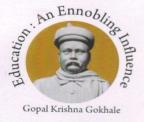
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## Maharashtra



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Gokhale Institute of Politics and Economics,
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कल्याण मंत्रालय, भारत सरकार का स्वायत्त संगठन किंदी स्टेशन रोड, देवनार, मुंबई - 400 088. भारत् ्स्थापना / Established in 1956) बेहतर भविष्य के लिए क्षमता निर्माण Capacity Building for a Better Futu

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une,

#### **FOREWORD**

where a year since the global pandemic of COVID-19 started impacting almost all spheres of our builded the pandemic is expected to last longer despite all our efforts to contain the virus, more attention to understand its consequences in the lives and livelihood of the people. The myriad of effects of the description is difficult to measure and comprehend. The lockdown and subsequent closure of all activities everal challenges. Wherever possible, institutions took it up these challenges and came up with the ways of engagement. For example, work from home, use of virtual platforms to stay connected etc.



a new normal. This opportunity was also used to build skills and capacities of the staff for future growth and development.

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Research Centres located in various parts of the country. The key motive for the proposed activity was to use the period to build research capacity of the PRC staff. Subsequently, IIPS organized 4-week long virtual workshop covering of undertaking a research including research methodology, scientific writing and publishing research papers. The term the 18 Population Research Centres located in different States and Union Territories of India attended the training

the PRCs. The main idea was to take the class room learning during the training and implement them in the field to and use a standard research methods and study tools. Such attempt will also help in drawing meaningful conclusions for policies and porgrammes. Five PRCs, viz. Dharwad, Srinagar, Patna, Guwahati and Pune came forward to undertake on "Assessment of Utilization of RCH Services during COVID-19 Pandemic" and complete in a period of nine months to March 2021). The staff of the participating PRCs shared the responsibilities right from start of the study to its including development of study design/methods, study tools, data entry software, data analysis and report writing. I the staff of the preliminary results of the study when it was presented in a technical session organised as annual seminar during March 18-20, 2021.

on essential health services including antenatal, natal and postnatal services; child health, immunization and ICDS and family planning services in the rural and urban areas of the five participating states. Certainly, such collaborative further strengthen the capacity of the PRC staffs in handling research projects more systematically.

and appreciate the efforts of the team led by Prof. Usha Ram, IIPS for the successful completion of the study.



Trector and Senior Professor

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"Utilization of RCH services during COVID-19 Pandemic: An assessment; Findings from IIPS-PRC multi-centric study" is a partnership between the International Institute for Population Sciences, Mumbai, and five Population Research Centres (PRCs), viz. Pune, Dharwad, Guwahati, Srinagar and Patna under the Ministry of Health & Family Welfare, Covernment of India. The successful completion of the study is the outcome of sincere efforts af the organization and individuals involved in the study.

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The study team acknowledge the contribution of Prof. K. S. James, Director and Senior Professor, International Institute for Population Sciences, Mumbai for approving the PRCs and IIPS collaboration and assistance at various stages of the study. The IIPS brought several PRCs together to work on a specific theme using standardized methods and tool. We are also thankful to Prof. James for providing a special technical session in the IIPS annual seminar held during March 2021 to showcase the results of the study with the wider audience.

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Special thanks to our respondents who cooperated and provided telephonic interviews even during pandemic situation despite of having their busy schedule.

Dr. Vini Sivanandan Prof. Usha Ram Dr. M. R. Pradhan Dr. Bal Govind Chauhan

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#### Research Highlights

#### Mount the study

- The study is part of a multi-centric study undertaken in five states of Assam, Bihar, Jammu & Kashmir, Karnataka and Maharashtra.
- The study investigates into the utilization of the maternal and child health care services including the ICDS and Contraceptive services by the women and children during the COVID-19 pandemic.
- This report present findings from Pune district of Maharashtra.
- The study results are based on a survey population of 2112 persons and 500 eligible women in the age group of 15-49 years in the urban (291) and rural (299) areas.

#### Characteristics of the surveyed eligible women

- Rural-urban divide is significant and is prominently observed in terms of infrastructure such as the pucca type of house (53% rural, 92% urban); piped drinking water (64% rural, 99% urban); flushed sanitation facility (43% rural, 74% urban).
- The proportion of households with a designated area for handwashing is considerably higher in the urban areas (88.3%) than the rural areas (65.1%).
- → Only 17% of the households had access to the internet and owned a computer. But more than 90% households have electricity and television.
- ★ Median age of the eligible women was 26 years and the median years of schooling completed were 12 years.
- ♣ Only 58% of the women (63% urban, 49% rural) have a bank account and can operate it

#### Utilization of antenatal, natal and post-natal care during the pandemic

#### Antenatal care

- → Of the women who had a live birth during the reference period, all the women from rural areas and 94% of women in urban areas have registered pregnancy in the first trimester.
- The coverage of four or more antenatal care visits was almost universal in rural areas (98%) whereas in urban areas it was 86%.
- ♣ Almost all the currently pregnant women surveyed have registered for ANC.
- ANC services such as monitoring of weight, blood pressure, sugar level, hemoglobin level, HIV, use of the ultrasound, protection against tetanus during the pregnancy was almost universal. However, only 27% women in rural areas and 57% of women in urban areas were tested for COVID-19
- ♣ Near about 57% of mothers received most ANC services from the public health facility.
- About 89% of registered pregnancy were at a public health facility; higher in the rural areas (94%) as compared to urban areas (86%).

- In majority of the live birth mothers did not face any difficulty in seeking antenatal care services during pandemic. Nonetheless, only a few mothers did complain for the same; mostly related to lack of transportation, family refused to go due to CoVID 19 or fear of COVID-19, too much time to travel due to COVID restrictions/checks.
- Nonetheless, 7% of women reported experiencing pregnancy complications and all the mothers did seek treatment.

#### Natal care

- Almost all of the live births during the reference period occurred in a health facility and near about three forth in a private health facility.
- Considerably proportions of the births were cesarean (45%).
- In 91% of the cases, mothers used a private vehicle to reach to the facility for delivery. ASHAs, who accompanied the pregnant women to the facility, was almost twice in rural areas (32%) as compared to urban areas (16%).
- About 19% live birth mother experienced complications at the time of delivery (prolonged labour lasting longer than 12 hours, Umbilical cord prolapse, other complications, breech presentation) and 95% sought treatment for the complication.

#### Postnatal care

- In 3% cases, mothers experienced postpartum complication mainly concentrated in rural areas (6.8%) and negligible in urban areas (0.9%) such as lower abdominal cramps, swelling of legs, body, face, foul smelling coucha, fever, rapid breathing, other complications and all sought treatment.
- ★ Twenty-one percent of the women reported that they received the JSY benefit by the time data was collected.

## Contact with the health/ICDS workers and Supplementary nutrition from ICDS

- Most of the women who had a live birth during the reference period as well as currently pregnant women reported that the ASHAs and health worker visited them during pregnancy as well as after delivery and received help when needed.
- ★ Many mothers reached out to ASHA for help during pregnancy, at delivery and after live birth for assistance and ASHA helped them.
- ♣ About 96% of the mother and pregnant women reached out to ASHA for help during the pandemic and also received help.
- Near about half the number of women who had live births and pregnant women received supplementary nutrition from the ICDS during the Pandemic.

Utilization of immunization, child health care and ICDS services during the pandemic

- Almost all the eligible children received doses of BCG, Polio-0, Hepatitis-B0, and Pentavalent first dose. Whereas near about 80% of the eligible children received Pentavalent (second and third doses) and 86% received measles and rubella.
- Only about 50-56% children received rotavirus first, second and third doses, DPT booster, Vitamin-A first dose.
- More than half the number of the children vaccinated with BCG and at a public health facility.
- ★ Majority received vaccination from a place usual choice for vaccination.
- More girl children than boy children, from poor families, children of mothers with less education received vaccination from the public health facility.

#### Child health care

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- About 43% children fell ill (mainly cough and cold and fever) during the pandemic and 97% were treated for the illness.
- Among the children who fell ill and sought treatment during the pandemic 65% of girl child and 82% of boy child were treated at a private facility and 99% were cured at the time of the survey.

#### **ICDS Services**

- Over 69% of the children aged below 6 years of age ever attended or registered at the anganwadi centre (AWC) pre-pandemic and 61% registered during the pandemic.
- About 86% children ever received food and consumed the food; a higher (more than 90%) number of the children received and consumed the food during the pandemic period.
- About 8% of the children received food for some days only. Considerable proportions of mothers cited the child too small (54%); other reasons (12%) and too many children at AWC (10%) as the main reason for the child not attending AWC during the pandemic.
- Majority mothers (84%) felt that the quantity and quality of food and quantum of other services from the AWC remained same in the pandemic.

# with the health / ICDS workers for child health needs and difficulties faced during

- About 90% of the mothers reported that the health/ ICDS worker has visited them during the pandemic for child vaccination or health care needs.
- workers (AWW) visit for child vaccination (rural 6%, urban 53%) and health are found 5%, urban 44%) during the pandemic.
- The second 90% of the mothers informed that ASHA visited them for child vaccination and health care services during the pandemic.

- About 83% and 92% of the mothers, respectively, contacted ASHA for services related to the child vaccination and health care during the pandemic and almost all received the help from ASHA.
- Majority of the mothers reported that they did not experienced difficulty in seeking vaccination and child health care during the pandemic.

#### Utilization of contraceptive services during the pandemic

- ♣ Of the non-pregnant women, 33% in urban areas and 25% in rural areas reported using a method to delay/avoid pregnancy at the time of the survey.
- Female sterilization (28%) and condom (50%) are the most popular method in both rural and urban areas respectively.
- ♣ About 53% of the couples who got sterilized during the pandemic got it from a private health facility.
- → Of the modern spacing method users, 94% from urban areas and 66% got their most recent supply from a public health source.
- → Only 3% experienced menstrual problems during the pandemic, and only 66% reported they sought treatment for the menstrual problems.

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# **Chapter 1**

# Introduction

#### **Chapter 1: Introduction**

#### 1.1 Background of the Survey

The Ministry of Health and Family Welfare, Government of India requested IIPS to organize a series of training program for the PRC officials in May 2020 immediately after the lockdown build capacity of the staff on various aspects of research. In response, the IIPS organized training program for the PRC officials during June-July 2020 via virtual platform spanning over four-weeks. The series covered a total of several themes: Improving Writing Skills: Research Articles & Policy Briefs; Ethical Issues in Population & Health Research; Statistical ages: SPSS & STATA; Sampling for Survey Research, Sample Size and Sampling Weights; menitoring and Evaluation; Population Projections; Designing Survey Tools for Quantitative Qualitative Studies; Development of Research Proposal for OR/Intervention Studies in Qualitative Data Analysis using Nvivo and ATLAS.ti; and Choosing Appropriate Statistical entitled "Designing the Survey ments", the course coordinators discussed with the participants about considering a study post training programs on a theme of common interest to all PRCs. The idea was the learnings during the training programs in to effective outcomes. The PRCs accreciated the idea and decided to move forward making this effort a reality after the miclusion of the training series.

Collaboration: A total of seven Population Research Centers, viz. Bengaluru (KN), Manad (KN), Guwahati (AS), Thiruvananthapuram (KL), Srinagar (JK), Patna (BR) and Pune came forward and joined the collaboration. The collaboration formally launched in 2020 with an approval from the Director IIPS. The PRC Bengaluru withdrew after a due to resource constraints and Kerala PRC could not undertake the fieldwork in the study did not get state approval for undertaking the study. Finally, five PRCs continued collaboration. The study collaboration period was for a total of nine months ending in 2020-21.

the PRCs with a list of research topics to be undertaken by them during a given year. Generally, each PRC uses its own methodology and research tools to complete

these studies which makes across state comparison of the study results/findings difficult. It was thus thought that using standardized methods and tools across PRCs for a study would not only ensure improved quality of research studies but would be of immense help to allow authorities to compare the results across geographies for area-specific policies and programs.

**Theme selection:** One of the theme communicated by the MoHFW to the PRCs during the year 2020-21 was "**Impact of lockdown on RCH services**". The participating PRCs agreed to undertake the collaborative research exercise on this theme and decided to move forward for the study on utilization of RCH services during the pandemic.

**Expected outcome:** The collaboration is expected to further strengthen the capacity of the PRC staffs in developing study designs, sample size and research instruments more effectively with hand on exercise experience. The participating PRCs shared the responsibilities on various aspects of the study by further forming study subgroups and working collaboratively on assigned tasks and finalizing the methods and tools together.

#### 1.2 About Pune District (Maharashtra)

Pune District located in the Western part of the Indian state of Maharashtra. The district has geographical area of 15.642 sq. Kms and is located 150 Kilometers south-east of Mumbai. The landscape of Pune district is distributed triangularly in western Maharashtra at the foothills of the Sahyadri mountains and is divided into three parts "Ghatmatha:, "Maval"; and "Desh". Population of Pune district as per 2011 Census is 94,29,408 of which, 49,24,105 are males and remaining 45,05,303 are females and hence sex ratio of the district is 915 females per 1000 males. Rural population is 36,78,236 (40%) and that of urban is 57,51,182 (60%). It is the second largest city in the state after Mumbai, and is an important city in terms of its economical and industrial growth. The city leads as the "Veritable heartland" of cultural Maharashtra. Pune also has made its mark as the educational epicenter winning itself the sobriquet, "The oxford of the East". The city has emerged as a major educational hub in recent decades, with nearly half of the total number of international students in the country studying in Pune. Research Institute of Information technology, education, management and training attract students and professionals from India and Overseas. Not just that, it has a growing industrial hinterland, with information technology, engineering and automotive companies

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prouting. The city is known for cultural activities like classical music, spirituality, theatre, sports and literature.

Esper NFHS-4, sex ratio of the total population for Pune is 924 females per 1000 males and ratio at birth is 927 females per 1000 males. The district records around 95% households electricity, 95% having access to safe drinking water, 63% using improved sanitation and 81% using clean fuel for cooking. As per NFHS-4, literacy level in the district is 87% women and 98% for men in the age group 15-49 years. Current use of family planning method among currently married women aged 15-49 years is around 70% and unmet need mamily planning is 8.5%.

ander maternal and child health, the district has 88% of first trimester ANC registrations and of pregnant women received at least 4 ANC check-ups. Proportion of institutional meries during previous 5 years was 93% in the district of which 67% occurred in public facilities. Full immunization among children 12-23 months is 81% in the district. ence of diarrhea during previous 2 weeks was 7.9% in the district among children below Prevalence of anemia among children below 5 years was 53% and it was 50% among namen aged 15-49% as per NFHS-4.

#### 13 Survey instruments

the study used one questionnaire for collection of information from women aged 15-49 years. me questionnaire covered the following topics:

#### 

section collected information on the main source of drinking water, type of toilet facility, cooking fuel, type of house, if the house had a designated area for hand washing and of other selected items. Questions on age, education, religion, caste, marital employment status during pre-pandemic and pandemic period of the women were ected in this section. Additionally, a few questions on the employment status during and pandemic period of the woman's husband is included in the section. The easis of the woman's reproductive history in terms of children ever born, children surviving and children dead of the woman is also included in the section. Finally, the section also information was obtained from each woman about her current pregnancy status

at the time of survey and number of abortions, stillbirths and live births by the women during past two years (between January 1, 2019 and survey date).

#### Section 2 - Current pregnancy

This section collected information about antenatal care utilization, pregnancy complications, treatment seeking for pregnancy complications, difficulties experienced in seeking antenatal care and/or treatment for complications during pandemic and reasons for not seeking antenatal care / treatment for complications during the current pregnancy. Information about contact with the health / ICDS worker during the pandemic related to the current pregnancy were also included in the section.

#### Section 3 - Abortion

This section collected information about antenatal, natal and postnatal care utilization, pregnancy/post-delivery complications, treatment seeking for pregnancy/post-delivery complications, difficulties experienced in seeking antenatal care and/or treatment for complications during pandemic and reasons for not seeking antenatal care / treatment for pregnancy/post-delivery complications. Information about contact with the health / ICDS worker during the pandemic related to the abortion were also included in the section. Information on ultrasound, sources and quality of antenatal, natal and postnatal services, expenditure on abortion etc. were also collected in this section.

#### Section 4 and 5 – Stillbirth and Livebirth

This section collected information about antenatal, natal and postnatal care utilization, pregnancy/delivery/post-delivery complications, treatment seeking for pregnancy/delivery/post-delivery complications, difficulties experienced in seeking antenatal care and/or treatment for complications during pandemic and reasons for not seeking antenatal care / treatment for pregnancy/ delivery/post-delivery complications. Information about contact with the health / ICDS worker during the pandemic related to the stillbirth/livebirth were also included in the section. Information on ultrasound, sources and quality of antenatal, natal and postnatal services, C-section deliveries, expenditure on delivery etc. were also collected in this section.

#### Section 6 - Contraception

method use, place of sterilization, sources of obtaining modern spacing methods, duration method currently used, side effects of method used, treatment seeking in case of side effects of method, difficulties experienced in accessing method, treatment for side effects, during pandemic, money spent on current method, reasons for non-use of a method to delay/avoid pregnancy.

The women were also asked about menstruation and problems experienced during menstruation and in seeking treatment for menstrual problems during pandemic.

Information about contact with the health / ICDS worker during the pandemic related to contraception services were also included in the section.

#### Section 7 - Immunization

The information on immunization/vaccination of children during pandemic, place of immunization, difficulties faced in immunization and reason for change of place of immunization and non-immunization of the children during the pandemic were collected in this section. Information about contact with the health / ICDS worker during the pandemic related to child immunization services were also included in the section.

#### Section 8 - Child health

The section gathered information on children who fell ill during pandemic, nature of illness, treatment sought for illness, difficulties experienced in seeking treatment for ill child, reason for not seeking treatment, money spent on treatment included. Information about contact with the health / ICDS worker during the pandemic related to the child health care services were also included in the section.

#### Section 9 – ICDS services

Information about children attending ICDS/AWC during pre-pandemic and pandemic, whether children received and/or consumed food given the anganwadi, frequency and quality of food provided by the ICDS were collected. Information on woman perception on

change in the quantity and quality of food at the anganwadi, other services by the anganwadi during the pandemic were also collected. Reason for children not attending the anganwadi were also obtained in this section.

#### 1.4 Survey Design and Sample Implementation

It was decided to implement the study in one district of each of the five participating states. The five districts are — Kamrup in Assam, Patna in Bihar, Pulwama in Jammu and Kashmir, Pune in Maharashtra and Dharwad in Karnataka. The same was designed to provide estimates for district as a whole. The sample size of the study is not adequate enough to provide separate estimates for urban and rural areas of the district for all indicators. A target sample of 500 eligible women aged 15-49 years were divided between urban and rural sample by allocating the sample proportionately to the population of these two areas according the district population share in 2011 census. In view of the pandemic conditions, a non-response rate of 30% was used to estimate the sample size to provide reliable estimates of targeted indicators with 95% confidence. As a result, target sample was set at 500 completed interviews of the eligible women in each district. The data was collected by face-to-face interviews and telephone interview as convenient given the pandemic.

#### Sample Design

We used multi-stage stratified sampling design with probability proportional to size (PPS) within each of the sampling domains of urban and rural areas.

#### Sample Selection in Rural Areas

In rural areas, three Community Health Centers (CHCs) were selected such that one of the selected CHC was located farthest from the district head quarter, one located at the middistance and another closest to the district head quarter. In the next stage, from each selected CHC, we selected two Primary Health Centres (PHCs) based on distance from the selected CHC (one attached to the CHC and another far away from the CHC); making a total of six-PHCs (3x2). From each selected PHC, we next selected two Sub Health Centers (SHCs) based on distance from the selected PHC (one attached to the PHC and another far away from the PHC); making a total of 12-SHCs (6x2). From selected SHC, we selected two villages — one SHC village and another non-SHC village served by the selected SHC; making it 24-

(12x2). Finally, required number of eligible women were selected from the list of moductive age group women available with the health worker of the selected SHC with probability in each selected village using systematic sampling. The list was updated by teams before the launch of the data collection work.

#### Selection in Urban Areas

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three selected CHCs, we first identified the catchment area of the CHC. For each CHC, sected two catchment areas — one closest to the CHC and another farthest from the the next stage, required number of eligible women were selected from the list of age group women available with the health worker of the selected catchment equal probability in each selected catchment area using systematic sampling. The updated by the field teams before the launch of the data collection work.

The study of 24 PSUs (Four in urban areas and 20 in the rural areas) were selected for the study. The field work for the study was between 2020 and February 2021.

#### 115 Recruitment, Training, and Fieldwork

PRC field investigators collected the data for the study. Each member of the field teams trained for two-days on the study instrument before the main data collection.

#### 1.6 Data Processing

data processing was done by the PRC staff. The data processing team consisted of office coder, data entry operator. The data entry was done in CSpro. We did 100% double avoid the data entry errors. The data validation was done by the PRC themselves.

# **Chapter 2**

# Background characteristics of the households and respondents

#### Chapter 2

## Background characteristics of the households and respondents

This chapter presents a profile of the demographic and socioeconomic characteristics of households in which interviewed eligible women resided and the characteristics of the surveyed eligible women. The chapter also provides details of the total children ever born, surviving and dead of the eligible women at the time of survey. Additionally, the chapter includes information on the total number of livebirths, stillbirths and abortions the eligible somen had during the period preceding two-years prior to the survey (from January 1, 2019 to the survey date) and if the woman was pregnant at the time of survey.

Table 2.1 provides population by gender and place of residence along with overall sex ratio of the surveyed population. The total population of all surveyed 500 households is 2,112 people, of which 1,015 are males and 1,097 are females. The overall sex ratio of the population is 912 males per 1000 female population. The sex ratio is higher in the rural areas (940) compared to the urban areas (912).

Table 2.1: Population surveyed by gender and place of residence, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Male III I MANAGEMENT AND	515	500	1,015
Female	565	532	1,097
Person	1,080	1,032	2,112
Overall sex ratio (males per 1000 female population of all			SENSO TO HOU
ages)	912	940	925
Total eligible women surveyed	291	299	500

#### 2.1 Housing and Household Characteristics

Table 2.2 and Figure 2.2 provide information on selected housing characteristics of the houses in which the eligible women resided by residence. About 6.4% of households in Pune in kachcha houses made with mud, thatch, or other low-quality materials, 17.4% percent live in semi-pucca houses made of materials of partly low-quality and partly high-quality, and 76.2% live in pucca houses that were made with high-quality materials used for the roof, walls, and floor. Slightly higher proportions of the rural women than the urban men live in kachcha houses (11.5% vers. 2.8%). Substantially higher proportions of the rural women live in pucca houses (92.4%) than the rural women (53.6%).

mater sources, sanitation facilities and fuel used for cooking may have an important muence on the health of household members, especially children and women. The survey

gathered information about these aspects. Eighty-four percent of the women live in houses that use piped drinking water; much higher in the urban areas (99.0%) than the rural areas (64.6%). A little less than 11% of the women live in houses that use tube well/borehole drinking water. Proportions of women in houses using well/borehole drinking water was over 25.8% in rural areas and less than 1% in the urban areas.

Only 61.6% of households have a flush or pour toilet (using either piped water or water from a bucket for flushing) followed by pit latrines (37.6%). The urban-rural divide is significant; 74.6% of urban women live in houses that have a flush/pour toilet as against of 43.5% among rural women. In contrast, substantially higher percentages of rural women (54.6%) live in houses that have a pit latrine than the urban women (25.4%). About 0.8% women reportedly live in houses that did not have any toilet facility and used open spaces for defecation; higher in rural areas (2%).

Overall rural-urban divide is prominently in terms of pucca type of house (53% rural, 92% urban); piped drinking water (64% rural, 98 % urban); flushed sanitation facility (43 % rural, 74 % urban).

Table 2.2: Selected background characteristics of the households' women resided in Pune 2020-21)

Characteristics	Urban	Rural	Combined
Type of house	e roxuelo re	g salam c	ter xoz lite mi
Kuchcha	2.8	11.5	6.4
Semi-Pucca	4.8	34.9	17.4
Pucca	92.4	53.6	76.2
Source of drinking water to the household		areals on	
Piped water	99.0	64.6	84.6
Tube well / borehole	0.7	25.8	11.2
Dug well	0.0	5.7	2.4
Cart with small tank	0.0	0.0	0.0
Surface water (river, dam, lake, pond, stream, canal, etc.)	0.0	0.0	0.0
Bottled water	0.0	2.9	1.2
Community RO plant	0.3	1.0	0.6
Sanitation facility			
Flush or Pour flush toilet	74.6	43.5	61.6
Pit latrine	25.4	54.6	37.6
Twin pit / Composting toilet	0.0	0.0	0.0
Dry latrine	0.0	0.0	0.0
No facility/ open space/field	0.0	1.9	0.8
Type of fuel used for cooking			0.0
Electricity	0.7	5.3	2.6

Natural gas	99.0	83.7	92.6
BOES - OF THE RESIDENCE OF THE STATE OF THE	0.3	0.5	0.4
Terrisene	0.0	0.0	0.0
Mood To MENTER THE CHARLES PERSON IN	0.0	10.5	4.4
designated area for handwashing	etrosite en avert de	eres es	Later Service 2 T. P.
	11.7	34.9	21.4
<b>一</b> 1000年,日本教育基础,就是在美国各种关系的主席和自己的意思。	88.3	65.1	78.6
Tital (%)	100	100	100
eligible women surveyed	291	209	500

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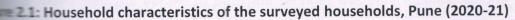
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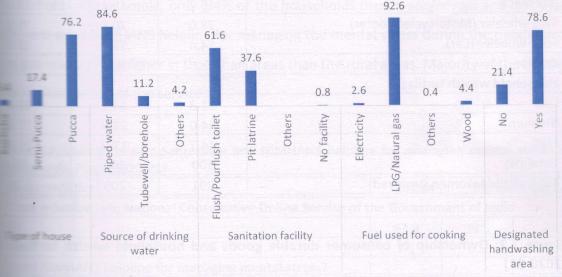
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cooking followed by wood (4.4%). Once again, rural-urban divide was huge. For 99.0% of the households in urban areas compared to only 83.7% in rural areas used petroleum gas/natural gas for cooking. 10.5% of the rural households used wood for whereas, no one in urban area were using wood for cooking. Nobody in the rural and pouseholds used kerosene for cooking.





In the present study, we gathered information on whether the houses had a area for handwashing. 78.6% of the households had a designated area in the handwashing. The proportion of households with a designated area for was considerably higher in the urban areas (88.3%) than the rural areas (65.1%).

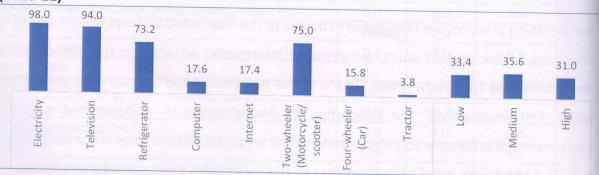
3 and Figure 2.2 show percentages of the households possessing durable goods, an a household's socioeconomic level. The data shows that overall 98% of the

households have electricity. 97.6% Urban households and 98.6% of rural households of Padistrict have electricity. Majority of the households have television (94.0%). 73.2% of thouseholds have refrigerators; higher in urban areas (74.6%) than the rural areas (71.3) 17.6% of the households have computer and 17.4% have internet. More urban households than the rural households have computer and/or internet. Nearly 75% of the households motorcycle, higher in rural areas (78%) than the urban areas (70.8%). Significant minorities the households (15.8%) have car and 4% have tractor (more in rural areas – 8.6%). Only percent of the households have car in rural households (17.7%) have a slight edge over the urban counterparts (14.4%).

Table 2.3: Ownership of selected consumer durable goods and households by wealth tertiles by the households, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Households own following items (%)		Harai	Combined
Electricity	97.6	98.6	00.0
Television	94.9	92.8	98.0
Refrigerator	74.6	71.3	94.0
Computer	17.5	17.7	73.2 17.6
Internet	16.2	19.1	17.6
Two-wheeler (Motorcycle/scooter)	78.0	70.8	75.0
Four-wheeler (Car)	14.4	17.7	15.8
Tractor	0.3	8.6	3.8
Household wealth tertiles	0.5	8.0	5.8
Low	11.3	64.1	33.4
Medium	44.0	23.9	35.6
High	44.7	12.0	
Total (%)	100	100	31.0 <b>100</b>
Total eligible women surveyed	291	209	500

Figure 2.2: Ownership of consumer durable goods and household wealth tertiles, Pune (2020-21)



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We constructed wealth tertiles using data on following items: source of drinking water (classified as piped, well, and other sources), type of toilet (classified as Flush/Pour, Pit, no toilet), type of fuel used for cooking (classified as LPG. Coal and other sources), type of house (classified as *pucca*, *Semi-pucca*, *kachcha*), have a designated area in the house for handwashing, electricity in the house, possession of durable goods including television, refrigerator, computer, internet, motorcycle/scooter, car and tractor. We used Principal component analysis (PCA) and predicted scores for each item and created household wealth tertiles. The results are included in Table 2.3. One-fifth of the households in Pune belong to high wealth tertile and 33% in low wealth tertile. All the wealth quartile has proportionately equivalent distribution of the households. 64.1% percent of the rural households and 11.3% of the urban households belong to low tertile. Conversely, 44.7% of urban household and only 12.0% of the rural households belong to high wealth tertile.

Table 2.4 provides information of utilization of the e-sanjeevani national consultative online service of the Government of India and NIMHANS helpline for managing mental stress. The data shows that the uptake of both the services was very minimal among the surveyed bouseholds. For example, only 1.4% of the households used e-sanjeevani and less than one per cent used NIMHANS helpline for managing the mental stress during the pandemic. Even so, use was slightly higher in the urban areas than the rural areas. Majority of the households not use either of the services.

Table 2.4: Utilization of e-Sanjeevani and NIMHANS helpline for managing mental stress by the museholds, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Used e-Sanjeevani, National Consultative Online Service	Cibali	Kurai	Combined
No	of the Governm	ent of India	
Vis and the second seco	97.9	99.5	98.6
	2.1	0.5	1.4
used NIMHANS helpline for managing mental stress?			
15 A.S. A.S. A.S.	100.0	98.1	99.2
	0.0	1.9	0.8
Total (%)	100	100	100
eligible women surveyed	291	209	500

### 22 Background characteristics of the respondents

education, and work status has association with women's demographic and health-

seeking behavior. For example, influence of educational attainment and engagement in economic activities have been found to be significant catalysts for favorable changes in demographic and socioeconomic changes. They promote positive reproductive attitudes and utilization of available health care services including reproductive and child health services and thereby improving health and well-being of women themselves, their families and more Importantly of their children. Similarly, age at marriage has strong correlation with the reproductive and child health outcomes in a population. In this section, we discuss key background characteristics of the surveyed women. The survey collected information on age, educational attainment, religion, caste, marital status, age at marriage, work status and if woman owned a bank/post office account and also operated the same. Besides, information on the work status of her husband was also collected. The results of the same are presented in Table 2.5 and Figure 2.3.

More than half the respondents were in the broader age group 25-34 years of age and near about 39 percent of women were in the age group 15-24 years of age. A little over 6% of the surveyed women were aged 35 years or older. As many as 43.5% of the rural women were in the age group 15-24 years compared to 36.1% in the urban areas.

Table 2.5: Selected background characteristics of the surveyed eligible women, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Woman age		tion in	38
15-24	36.1	43.5	39.2
25-34	59.5	47.9	54.6
35-49	4.5	8.6	6.2
Median age of the women	26.0	25.0	26.0
Woman education	illaC syltation Dalin	tenoiteH ,in	weeing?-9 her
Fewer than 5 years incl. never went to school	3.4	3.8	3.6
5 to 9 years	7.9	12.0	9.6
10 to 12 years	48.8	57.4	52.4
More than 12 years	39.9	26.8	34.4
Median years of schooling	12.0	12.0	12.0
Woman religion		3	(AB) fat
Hindu	82.5	88.5	85.0
Muslim	3.1	2.9	3.0
Christian	0.0	3.8	1.6
Other religions Incl. No religion	14.4	4.8	10.4
Woman caste	drong catalogae		Name and word a
Scheduled castes	23.0	10.5	17.8
Scheduled tribes	3.4	12.4	7.2

Other backward classes	16.5	21.1	18.4
Others (General castes)	57.0	56.0	56.6
Woman marital status			
Never married	0.7	4.3	2.2
Currently Married	97.6	91.4	95.0
Widowed/Divorced/Separated/Deserted	1.7	4.3	2.8
Woman age at marriage	TERMS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1974 N. F. S. S. S.	
Before 18 years	1.7	4.5	2.9
13 to 20 years	40.8	50.5	44.8
II to 24 years	40.1	37.5	39.1
5 years or later	17.3	7.5	13.3
Woman current work status			
Crrently working	12.0	10.5	11.4
Housewife / Not working	88.0	89.5	88.6
woman husband current work status	100		
Trently working	97.2	90.1	94.4
Tousehusband / Not working	2.8	9.9	5.7
Bank account			
and Operates account	63.6	49.8	58.0
but does not operates account	7.9	23.9	14.6
not have any account	28.2	26.3	27.4
Total (%)	100	100	100
ital eligible women surveyed	291	209	500

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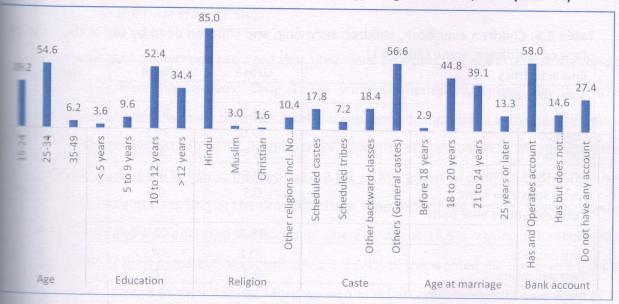
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2.3: Selected background characteristics of the surveyed eligible women, Pune (2020-21)



3.6% completed fewer than five years of schooling (including those who never school). Near about half the number of women (52.4%) completed 10 to 12 years

of schooling and the remaining 9.6% completed 5 to 9 years of schooling. Notably higher percentages of women in the urban areas than the rural areas have completed more than 12 years of schooling 39.9% as against of 26.8%). Majority of the women were Hindu – 85% higher in rural areas (88.5%) than the urban areas (82.5%). About 3% of the women were Muslim. Urban areas have more Muslim respondent (3.1%) than the rural areas (2.9%). More than ten per cent of the women belong to other religions including Christian and no religion. Nearly three-fifths of the women (56.6%) belonged to the other castes (general category followed by other backward classes (18.4%). The scheduled castes and scheduled tribe women comprised of 17.8% and 7.2%, respectively, of all respondents. Share of other backward classes and scheduled castes was higher in the urban areas (16.5% and 23.0% respectively) compared to the rural areas (21.1% and 10.5%, respectively). Conversely, share of scheduled tribe and other caste respondents was lower in the rural areas (12.4% and 56.0% respectively) compared to the urban areas (3.4% and 57.1%, respectively).

Table 2.6 provides details on the children ever born, surviving, dead by gender of the child of the respondents. Mean number of sons ever born was 0.6 and mean number of daughters born was 0.7 Mean number sons/daughter born was higher in the rural areas as compared to the urban areas.

Table 2.6: Children ever born, children surviving, and children dead by sex of the child and place of residence, Pune (2020-21)

Urban Rural Combined Characteristics Total sons ever born 53.0 54.3 51.0 None 38.0 One son 37.0 39.5 8.3 8.5 8.4 Two sons 0.6 0.4 1.0 More than 2 sons 0.5 0.6 0.6 Mean sons ever born Total daughters ever born 47.0 46.8 46.7 None 37.5 39.1 One daughter 40.1 9.3 12.0 10.4 Two daughters More than 2 daughters 3.7 3.8 3.5 0.7 0.8 Mean daughters ever born 0.7 **Total sons surviving** None 55.0 51.5 53.6 38.2 37.0 40.0 One son 8.0 8.0 8.0 Two sons

More than 2 sons	0.0	0.5	0.
Mean sons alive	0.5	0.6	0
Total daughters surviving	Build and Bridge Specific	11.19 0110 120110	11 L31 W/
Mone	47.4	47.7	47.
One daughter	39.8	37.2	38.
Two daughters	9.3	12.1	10.
More than 2 daughters	3.5	3.0	3.3
Mean daughters alive	0.7	0.7	0.7
Total sons dead		0.7	0.7
None Andread process of resident	99.0	98.5	00
One son	1.0	1.5	98.
Total daughters dead	1.0	1.5	1.2
None was a supposed from the advisor	99.7	99.5	00.4
One daughter	0.4	0.5	99.6
Total (%)	100	100	0.4
Total eligible women surveyed	291	209	100
	231	209	500

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were either widowed or divorced or separated. A significant minority of the respondents were married before age 18 years. Another about 44.8% were married at ages 18 to 20 (higher in rural areas – 50.5% than the urban areas – 40.1%). 39.1% of the women were married at ages 21 to 24 years and nearly 13.3% married at ages 25 years or later. The share women married at ages 25 years or later was considerably higher in the urban areas 17.3%) than the rural areas (7.5%).

and were housewives; Only 11.4% were economically active. Slightly higher proortion of urban women than the rural women were economically active at the time of the urban women than the rural women were economically active at the time of the urban women 94.4% reported that their husbands were working. Interestingly, 2.8% of the urban women reported that their husbands were not working at the time of survey. Over 58% of the women have account in their names and also operated the account, whereas, about 14.6% reported that they have account in their name but never operated it. 27.4% of the women did not own a bank or to office account in their names. More women in urban areas than in the rural areas did town any account (28.2% compared to 26.3%).

and 38.7% of the women, respectively, had one son or one daughter alive at the time assurey. About 0.2-3.3% women had more than two sons or daughters alive at the time of

survey. While majority of the women did not experience any child loss, there were 1.2% of the women who had lost one or more sons and less than 1% who lost one or more daughters. Share of women who experienced child loss was higher in the rural areas compared to the urban areas.

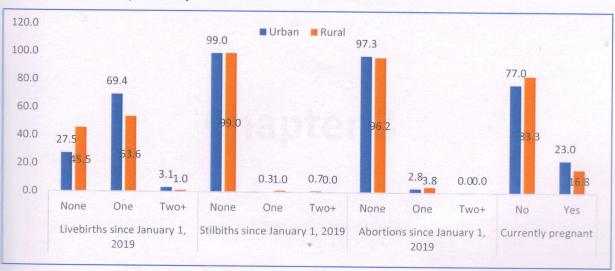
# 2.3 Livebirths, Abortions, Stillbirths during the reference period and current pregnancy status

Table 2.7 and Figure 2.4 provide distribution of women who had one or more livebirths, stillbirths and abortion during the past two years preceding the survey date, that is, from January 1, 2019 to the date of survey. The pregnancy status of the women at the time of survey is also included in the table. This information is useful for gathering information on subsequent sections on utilization of reproductive and child health care services including nutrition during the pandemic. 64.8% of women had at least one live birth during the reference period and 1% had one or more still births. Higher percentages of urban women (69.4%) than rural women (53.6%) had one or more live births. Little more than 3% of the women reported that they had abortions during the reference period. 20.4% of women were pregnant at the time of survey; notably higher in the urban areas (23.0%) than the rural areas (16.8%).

Table 2.7: Number of live births, stillbirths, abortions women had during January 2019 to survey date and her current pregnancy status, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Livebirths since January 1, 2019	100 PM		Section Section
None	27.8	45.5	35.2
One	69.4	53.6	62.8
Two or more	2.8	1.0	2.0
Stillbirths since January 1, 2019	0.7		
None	99.0	99.0	99.0
One	0.3	1.0	0.6
Two or more	0.7	0.0	0.4
Abortions since January 1, 2019			a one temper
None	97.3	96.2	96.8
One	2.8	3.8	3.2
Two or more	0.0	0.0	0.0
Currently pregnant	PERSONAL PROPERTY.	raco Jes SSI-A	ucose ves nui
No	77.0	83.3	79.6
Yes	23.0	16.8	20.4
Total (%)	100	100	100
Total eligible women surveyed	291	209	500

Figure 2.4: Percentages of women who reported one or more live births, stillbirths, abortions during January 2019 to survey date and current pregnancy status for rural and urban areas, Pune (2020-21)



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# **Chapter 3**

Utilization of the maternal health care services by mothers for live births

#### **Chapter 3**

#### Utilization of the maternal health care services by mothers for live births

The present study obtained information from the eligible women about the utilization of health care -services during pregnancy, delivery and during the post-partum period from women who had one or more live birth during the two years prior to the survey (from January 1, 2019). The questions covered range of issues – starting from registration of pregnancy, early registration, number of antenatal care visits, various services received by the women during antenatal, place of service, complications experienced and treatment seeking for complications, difficulties faced by the women in seeking services during antenatal, natal and post-natal period etc. Information was also collected about services provided by the health workers, especially ASHAs during pandemic and if women received supplementary nutrition from the anganawadi centers/ICDS. This chapter presents results for all live births that occurred during the reference period.

#### 3.1 Background characteristics of the live births

The Table 3.1 and Figure 3.1 provide distribution of all live births enumerated during the reference period by selected maternal and household background characteristics for Pune district. A total of 336 live births enumerated (65%; 219 in urban areas and 35%; 117 in the rural areas) among 500 surveyed eligible women. 28.3% of the live births in Pune district occurred in 2019, 67.0% in 2020 and 4.8% in 2021. 43.5% of the live births were male and 56.6% female. Distribution of male births and female births was almost same for rural and urban areas. About 60% of the births were of first birth order, 33.6% of the births were of second birth order and only 7% were of birth order three or higher (more in rural areas than the urban areas; 8.6% and 5.9%, respectively). Only 3.3% of total births were pre-term births sestation of less than nine months). Share of pre-term births was higher in the rural areas (5.1%) compared to the urban areas (2.3%).

The distribution of birth was equiproportional among women in low, medium and high wealth tertile households. Thirty-four percent of the births occurred to the mothers in the poor bouseholds and about 33% in the rich households. In urban areas share of birth in rich bouseholds is higher compared to the rural areas (45.7% and 9.4%, respectively). In contrast, 74.4% of the births in the rural areas were in the poor households, whereas their share in

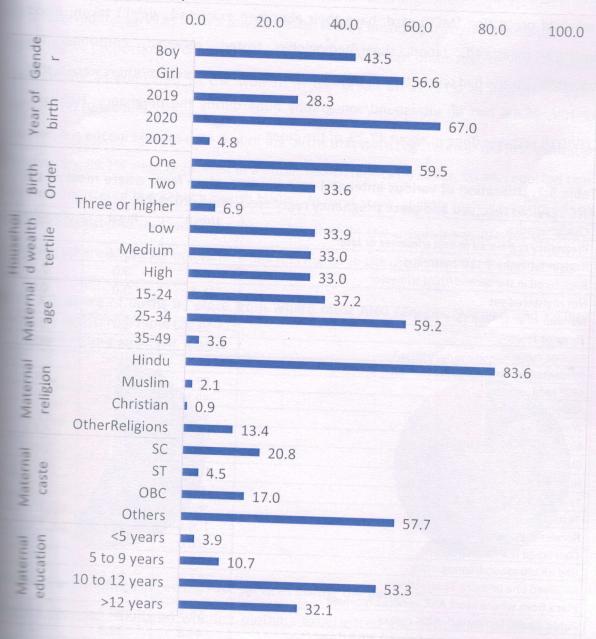
urban areas was 12.3%. With respect to maternal age, 37.2% of all births took place among younger mothers (aged 15-24 years) and 59,2% were among mothers (aged 25-34 years). Share of births among young mothers was considerably lower in the urban areas (32.4%) than in the rural areas (46.2%). Majority of the births belong to Hindu mothers (83.6%). In urban areas, share of births among Muslim mothers was slightly higher than in the rural areas (2.7% as against of 0.9%). Whereas the share of other religions was almost double (16.4% in urban areas) as compared to 7.7 % in rural areas. Moreover, about fifty-eight percent of the births were among mothers of general castes followed by scheduled caste (20.8%). More than 53% of the births were among mothers who had completed 10 to 12 years of schooling and 32.1% among mother with more than 12 years of schooling.

Table 3.1: Distribution of livebirth during the reference period by year of birth, gender, birth order and duration of gestation and a few maternal characteristics by place of residence, Pune (2020-21)

Characteristics Year of birth	Urban	Rural	Combined
2019			Combine
	29.7	25.6	28.3
2020 2021	64.4	71.8	67.0
Gender	5.9	2.6	4.8
	god for a consumer	2.0	4.0
Boy	42.9	44.4	43.5
Girl	57.1	55.6	
Birth Order		33.0	56.6
One	59.4	59.8	F0.F
Two	34.7	31.6	59.5
Three or higher	5.9	8.6	33.6
Completed months of pregnancy at birth	NOTE OF BUILDING	0.0	6.9
/ months	Annual Control of the		
8 months	2.3	To 2009 ton	dA zeore ne
9 months ·	97.7	5.1	3.3
Household wealth tertile	37.7	94.9	96.7
Low	12.2	3 turn 103 b	anorr neday
Medium	12.3	74.4	33.9
High	42.0	16.2	33.0
Maternal age	45.7	9.4	33.0
15-24	22.4		
25-34	32.4	46.2	37.2
35-49	62.6	53.0	59.2
Maternal religion	5.0	0.9	3.6
lindu	90.0	of the standard to	en del care
Auslim	80.8	88.9	83.6
Christian	2.7	0.9	2.1
Other Religions	0.0	2.6	0.9
Naternal caste	16.4	7.7	13.4

	219	117	336
mber of live births	100	100	100
Overall (%)	39.3	18.8	32.1
More than 12 years	48.4	62.4	53.3
10 to 12 years	9.1	13.7	10.7
5 to 9 years		5.1	3.9
ewer than 5 years incl. never went to school	3.2	Г 1	
Maternal education	56.6	59.8	57.7
Others (General castes)	14.6	21.4	17.0
Other backward classes	2.7	7.7	4.5
Scheduled tribes	26.0	11.1	20.8
Scheduled castes	200	1	

3.1: Percent distribution of the births during the reference period by background



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Table 3.2 provides information on several antenatal care services utilized by the motion during pregnancy for births during the reference period.

Table depicts that more than Ninety-six per cent pregnancies were registered in the first trimester. It is encouraging to note that in rural areas 100% pregnancies were registered in the first trimester.

About Ninety-one percent of mothers received four or more antenatal care visits during pregnancy, whereas percentage was 98.3% in rural area as compared to urban area (86.3%). Nonetheless, in less than 2% of mothers in the rural areas made three or fewer ANC visits during the pregnancy. About all the mothers (98.8%-99.7%) received a mother and child protection (MCP) card, have their abdomen examined, weight taken, Blood pressure measured, blood sugar/hemoglobin tested, received, consumed IFA tablets/Syrup and had one or two TT injection. Ninety-seven percent mothers were tested for HIV, 96.4% had an ultrasound/sonography done during the pregnancy. However, COVID19 test was done in about 47.2% of the cases.

Table 3.2: Utilization of various antenatal care services, place from where most of the ANC services received and place pregnancy registered, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Pregnancy registered in first trimester or later			
Registered in the first trimester	94.5	100.0	96.4
Registered in the second/third trimester	4.1	0.0	2.7
Not registered yet	1.4	0.0	0.9
Number of antenatal care visits			
Three or fewer	13.7	1.7	9.5
Four or more	86.3	98.3	90.5
Percentages mothers who received:			
MCP card	99.1	99.2	99.1
Abdomen examines	99.5	98.3	99.1
Weight taken	98.6	99.2	98.8
Blood pressure measured	100.0	97.4	99.1
Blood sugar tested	100.0	98.3	99.4
Haemoglobin tested	100.0	96.6	98.8
Tested for COVID19	57.8	27.4	47.2
Tested for HIV	99.1	94.0	97.3
Received IFA tablets/Syrup	100.0	99.2	99.7
Consumed IFA tablets/Syrup	100.0	99.1	99.7
Had an ultrasound/sonography	96.8	95.7	96.4
Received one or more TT injection	97.3	98.3	97.6
Place from where most ANC services received			
Public health facility incl. ICDS center	55.3	60.7	57.1
Private facility, service providers incl. NGO/Trust	44.8	39.3	42.9
Registered pregnancy, place pregnancy registered			

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97.5

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lumber of live births	219	117	336
ate facility, service providers incl. NGO/Trust	14.0	5.1	10.9
bolic health facility incl. ICDS center	86.0	94.9	89.1

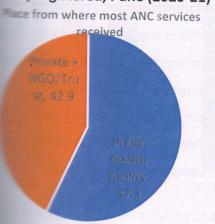
#### ece of ANC services

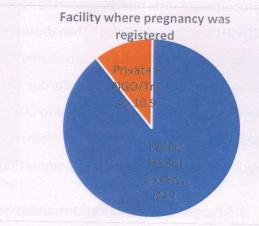
ces during pregnancy for all births during the reference period. The data shows that of which registered pregnancy, 57.1% received most of the ANC services from a public facility (including State/municipality hospital, district hospital, community health primary health center, health sub-center, and ICDS/anganwadi center). Remaining received the services from a private health facility including trust/NGO hospitals.

higher proportion of women in rural areas received most of the ANC services in public facility as compared to the women in the urban areas (61% as against of 55%, table 3.2).

enancy, 89.1% were registered in a public health facility however, 10.9% reported that were registered in a private health facility. In rural areas, slightly higher proportions of registered in a public health facility than in the urban areas (94.9% vs. 86%); share of private health facilities was higher in the urban areas (14% vs. 5.1%).

# 3.2: Share of births by place from where most ANC services received and facility registered, Pune (2020-21)





## experienced in getting ANC services during the pandemic

provides results on whether mothers experienced any difficulties while seeking are during the pandemic and if so, what was the nature of difficulty experienced.

In overwhelmingly large proportions of mothers did not experience any difficulty (96.7%)

Table 3.3: Difficulties experienced by the mothers in seeking ANC during the pregnancy to pandemic, how often mothers faced difficulties and nature of difficulty, Pune (2020–2021)

Characteristics	Urban	Rural	Combine
Frequency of experiencing difficulties in seeking ANC			
Every time/Most of the time	0.0	4.3	1.5
Sometimes/Rarely	2.3	0.9	1.8
Never	97.7	94.9	96.7
Nature of difficulty experienced (%)			La Maria
No transport facility	1.4	3.4	2.1
Family did not allow due to COVID19	0.5	3.4	1.5
Family refused to accompany due to COVID19 fear	0.5	3.4	1.5
Facility closed	0.0	0.9	0.3
No staff at facility	0.0	0.0	0.0
Staff refused to provide service due to COVID19	0.5	0.9	0.6
ASHA/ANM not available	0.0	0.0	0.0
No money	0.0	0.9	0.3
Health facility converted to COVID hospital	0.0	0.9	0.3
Too much time for travel due to COVID restrictions/checks	0.0	4.3	1.5
Too long wait at facility due to COVID protocol	0.0	0.0	0.0
Stressed due to strict COVID protocols	0.0	4.3	1.5
Stress due to COVID infection while waiting at facility	0.0	3.4	1.2
Number of live births	219	117	336

Nonetheless, only 1.5% mothers reported that they faced difficulty every time /most of the time the sought ANC during the pandemic; slightly higher in rural areas than urban one. Another 1.8% mothers experienced difficulty sometimes or rarely. Non-availability of the transport to reach facility for the ANC was the most common difficulty experienced by the mothers (2.1%). Once again, higher proportion of rural mothers reported about non availability of transport, family refused to go due to COVID19, or fear of COVID19 than the urban mothers (1.4 to 0.5% in urban area to 3.4% in rural area). Nobody in rural as well as in urban area faced problem such as 'no staff at facility or ASHA/ANM not available or too long wait at facility due to COVID protocol'. In rural area 4.3% respondents reported time taken to travel was much due to COVID19 pandemic, whereas there was no such reason in urban area. Moreover, overall 1.2% of mothers responded Stress due to COVID infection while waiting at facility as main difficulty while shouting the ANC services. This proportion is larger in rural area (3.4%).

#### 3.3 Pregnancy complications and treatment seeking

Table 3.4 and Figure 3.3 provide results on whether the mothers experienced any complication when they were pregnant, type of complications experienced and if they sought treatment for complication(s). The data suggests that 7% (slightly higher in urban areas – 8%) of mother experienced one or more pregnancy complication during the pregnancy. Overall,

= 3.6% cases, mothers suffered from swelling on leg, body, face followed by excessive conting (3.3%), Convulsion not from fever (1.8%), Weakness / Excessive fatigue (1.2%).

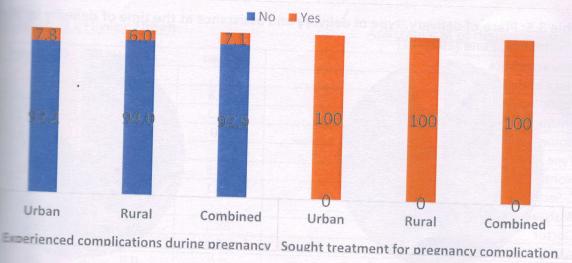
3.4: Experienced pregnancy complication, type of complication experienced and

tment sought for pregnancy complication, Pune (2020-21)

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Taracteristics	Urban	Rural	Combined
perienced any complications during pregnancy		Kurur	Combined
le la	92.2	94.0	92.9
5	7.8	6.0	7.1
of pregnancy complication (%)		0.0	7.1
moulty with vision during daylight	0.5	0.9	0.6
initial sions (not from fever)	1.4	2.6	0.6
lelling on legs, body, face	3.7		1.8
eding / Spotting		3.4	3.6
cessive vomiting	0.9	0.9	0.9
adache S	2.7	4.3	3.3
exness / Excessive fatigue	0.9	0.0	0.6
sk or no fetus movement	0.9	1.7	1.2
armal fetus position	0.0	0.0	0.0
al discharge	0.0	0.0	0.0
dominal pain	0.9	0.0	0.6
	0.0	0.9	0.3
complications	1.8	0.9	1.5
mber of live births	219	117	336
treatment for pregnancy complication(s)	MAN ENTRY AND A LOCAL	/	330
	0	0	0
	100		0
of births, mother experienced complication	17	100 <b>7</b>	100 <b>24</b>

3.3: Experienced pregnancy complication and sought treatment for pregnancy Camplication, Pune (2020-21)



higher percentages of mothers suffered from excessive vomiting and Convulsions fever) in the rural areas (4.3% and 2.6%, respectively) than in the urban areas (2.7% 14%, respectively). Similarly, vaginal discharge and Swelling on legs, body, face was more

common in the urban areas. On the other hand, more mothers in the rural areas reported suffered from Weakness / Excessive fatigue and Abdominal pain (1.7% and 0.9%, respective than in the urban areas (1% or less).

All the mothers who were suffered from pregnancy complications were sought treatment to complication during pregnancy.

#### 3.4: Natal care

Table 3.5 and Figure 3.4 provide results on place of delivery, type of delivery and assistant at the time of delivery. Except one all the births took place in health facilities. However, which is a public health facility, 76.2% took place in a private health facility. Share of private facility deliveries were higher in the urban areas (77.2%) than the rural areas (74.4%). A little more than half (54.5%) of deliveries were normal; c section deliveries were (45.5%) and both normal and c section deliveries were almost same in rural and urban areas (44.4% in rural and 46.1% in urban area). About 90% of all births (88.1% rurban areas and 94.9% in the rural areas) were conducted by a doctor. However, 8.9% of a births were conducted by an ANM/Nurse midwife/LHV. Share of births assisted in nurse/midwife was higher in the urban areas (11.4%) than in the urban areas (4.3%). Only one woman in urban areas delivered at home and she cited 'No nearby facility' as the most important reason for not delivering at a health facility.

Table 3.5: Place of delivery, type of delivery and assistance at the time of delivery by place of residence, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Place of delivery			
Public health facility	22.8	24.8	23.5
Private health facility incl. NGO/Trust	77.2	74.4	76.2
Home	0.0	0.9	0.3
Type of delivery			
Normal	53.9	55.6	54.5
C-Section	46.1	44.4	45.5
Assistance at delivery			
Doctor	88.1	94.9	90.5
ANM/Nurse/LHV	11.4	4.3	8.9
Traditional Birth Attendant	0.0	0.9	0.3
Friends / Relatives	0.5	0.0	0.3
Overall	100	100	100
Number of live births	219	117	336

3.4: Place, type and assistance at delivery by place of residence, Pune (2020-21)

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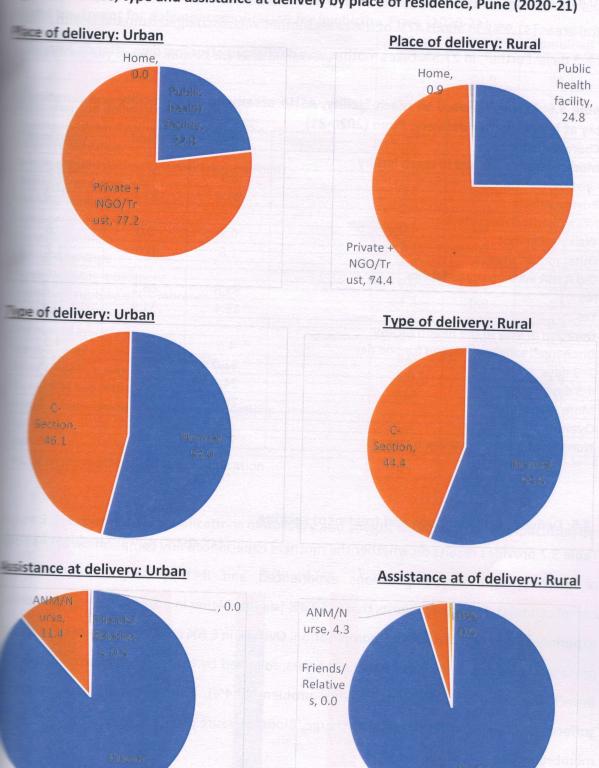
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results in Table 3.6 show that a private vehicle was used to reach health facility for elivery in majority of the cases (91.3%). Public transport was used in only 6.9% of the cases. That evehicle use was slightly higher in the rural areas (93.1%) as compared to urban areas

(90.4%). ASHA accompanied mother to the hospital in about 21.8% of the cases rural areas (31.9%). In about 42% of the cases mother was discharged from the head in 2-3 days. Further, in 27.5% cases mother was discharged after five days after deliverable.

Table 3.6: Transport used to reach facility, ASHA accompanied to facility and durant stay at hospital after delivery, Pune (2020-21)

Characteristics	Urban	Rural	Commi
Mode of transport used to reach facility			
Government vehicle	6.9	6.9	6.9
Private vehicle	90.4	93.1	913
NGO/Charity/Trust vehicle			
Walking/On foot	0.9	0.0	0.5
Other modes used	1.8	0.0	12
Did ASHA accompany to facility			
No	83.6	68.1	78.2
Yes	16.4	31.9	21.8
Duration of stay in the health facility			-
Discharged same day/stayed for one day	4.6	4.3	45
2- 3 days	42.0	42.2	42.1
4-5 days	24.7	28.5	26.D
More than 5 days	28.8	25.0	27.5
Overall	100	100	100
Number of Institutional live births	219	116	335

#### 3.5: Delivery complications and treatment seeking

Table 3.7 provides results on whether the mothers experienced any complication at the of delivery, type of complications experienced and if they sought treatment complication(s). The data suggests that in 19.4% (slightly higher in urban areas – 21%) experienced one or more delivery complication. Overall, in 6.6% cases, mothers suffered prolonged bleeding lasting more than 12 hours, followed by Umbilical cord prolapsed Breech presentation (3%) and Placenta problem (2.4%). Other complications mothers suffered at delivery were – Vaginal discharge, Blood pressure problem, premature rupture membrane, etc.

In little more than ninety-five percent of cases of delivery complications mothers some treatment.

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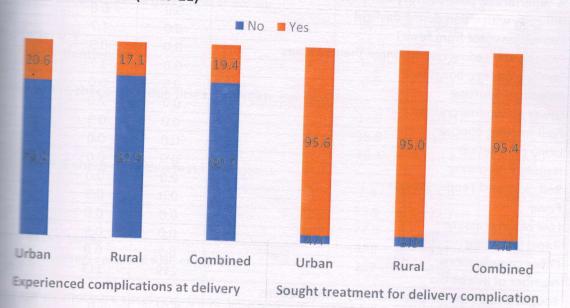
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3.7: Experienced complication at delivery, type of complication experienced and treatment for delivery complication for livebirths, Pune (2020-21)

Characteristics	Urban	Rural	Combi
sperienced any complication at the time of delivery	Orban	Kurai	Combined
lo content	70.5	00.0	
8	79.5	82.9	80.7
Experienced delivery complication(s)	20.6	17.1	19.4
anged labour lasting longer than 12 hours		E RECEION OF	1 bransites
ssive bleeding	6.4	6.8	6.6
	0.5	0.9	0.6
presentation (abnormal fetus position)	1.8	5.1	3.0
mbilical cord prolapse	6.5	5.1	6.0
ematal asphyxia	0.0	0.0	0.0
pressure problem	0.5	1.7	0.9
ecenta problem	1.4	4.3	
inal discharge	1.8		2.4
No fetus movement		0.0	1.2
emature rupture of membranes	0.0	0.9	0.3
labor	1.8	0.9	1.5
atructed labor	0.0	0.9	0.3
S / Fever	0.0	0.9	0.3
complications	0.0	0.0	0.0
mber of live births	5.9	0.0	3.9
	217	117	336
treatment for delivery complications			330
1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的1000年,1000年的100	4.4	5.0	4.6
of higher matheway (C. )	95.6	95.0	95.4
births mother suffered complication	45	20	65

3.5: Experienced complications at delivery and sought treatment for complication by residence, Pune (2020-21)



#### 3.6 Post-delivery complications and treatment seeking

Table 3.8 provides results on whether the mothers experienced any complication delivery during post-partum, type of complications experienced and if they sought for complication(s). The data suggests that in 3% (higher in rural areas – 6.8%) experienced one or more post-delivery complication. Overall, in 0.9% of cases mothers from lower abdominal cramps followed by Convulsions and swelling on legs, body, face of cases. Other complications mothers suffered during post-partum period were – problem bleeding lasting longer than 12 hours, bleeding/spotting, foul smelling, fever, rapid breachetc.

Considerably higher percentage of mothers in the rural areas (2.6%) reported that suffered lower abdominal cramp. Also 1.7% mothers reported convulsions (not from and swelling on legs, body, face as post-delivery complication. It is encouraging to not all mothers who suffered from a post-delivery complication sought treatment complication.

Table 3.8: Experienced complication after delivery during post-partum, type of complication experienced and sought treatment for complication for livebirths, Pune (2020-21)

Characteristics	Urban	Rural	Combined
Experienced any complication post delivery			
No	99.1	93.2	97.0
Yes	0.9	6.8	3.0
% Experienced post-delivery complication(s)	Alz scat	single cana	No. of the
Difficulty with vision during daylight	0.0	0.0	0.0
Convulsions (not from fever)	0.0	1.7	0.6
Prolonged bleeding lasting longer than 12 hours	0.0	0.9	0.3
Swelling on legs, body, face	0.0	1.7	0.6
Bleeding / Spotting	0.5	0.0	0.3
Lower abdominal cramps	0.0	2.6	0.9
Foul smelling coucha	0.0	0.9	0.3
Urine perforation	0.0	0.0	0.0
Nausea / Vomiting	0.0	0.0	0.0
Red, Sore and Tender breasts	0.0	0.0	0.0
Fever	0.0	0.9	0.3
Low blood pressure	0.0	0.0	0.0
Rapid breathing	0.0	0.9	0.3
Other complications	0.5	0.0	0.3
Number of live births	219	117	336
Sought treatment for post-delivery complications	NUMBER OF SECURIS	North 250	12012011
No	0	0	0
Yes	100	100	100
No. of births, mother suffered complication	2	8	10

## 3.7: Health checkups during Post-partum period

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ackup, person conducted health checkup and total number of health checkups within the two weeks and two months after delivery. It is encouraging to note that nearly 93% of mothers had their first post-natal checkup within 24 hours of delivery. About eight cent (higher in the rural areas, 11.1%) didn't receive any PNC checkup by the time data collected. Further, 73% of the mothers had their first post-natal checkup at a private facility and 27% at a public health facility. In 89% of the cases, mother was checked by doctor and remaining 11.3% by a nurse/midwife. Higher proportion of the mothers in areas reported that they received their first post-natal checkup from a nurse/midwife in the rural areas (16% versus 2%).

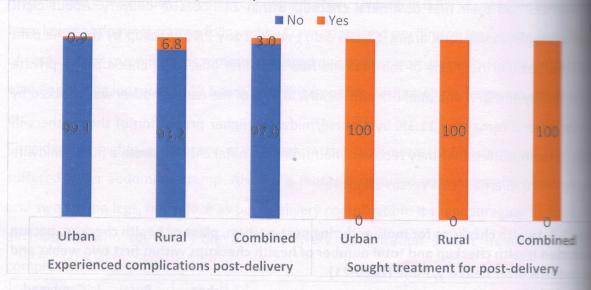
■ 3.9: Health checkups for mother during post-partum, place of health checkup, person fucted health checkup and total number of health checkups within first two weeks and months after delivery, Pune (2020-21)

racteristics	Urban	Rural	Combined
since delivery mother had first PNC check-up			Combined
in 24 hours	94.5	88.9	92.6
= 24 hours	0.0	0.0	0.0
not have PNC check-up	5.5	11.1	7.4
e of first post-delivery PNC check-up		11.1	7.4
health facility incl. ICDS centre	25.1	30.8	27.0
facility, service providers incl. NGO/Trust	74.9	69.2	
who did first post-delivery PNC check-up	74.5	03.2	73.0
	84.1	98.1	88.8
Murse/LHV	15.9	1.9	11.3
monal Birth Attendant	0.0	0.0	0.0
5	0.0	0.0	
of PNC check-up within first two weeks	V. 1	0.0	0.0
	17.9	50.0	28.6
	35.8	33.7	35.1
Har more	46.4	16.4	
of PNC check-up within first two months	40.4	10.4	36.3
	2.4	26.0	10.0
	19.8		10.3
Formore		32.7	24.1
ther of live births	77.8	41.4	65.6
af mothers received PNC check-up	219	117	336
The street ved Five check-up	207	104	311

of mothers receiving three or more post-natal care within first two weeks is than receiving one or two post-natal checkups (28.6% & 35.1%). Also mothers receiving post-natal checkup within first two months is higher (65.6%)

respectively). Majority of the mothers from urban area (77.8%) had three or more possessed checkups within first two months as compared rural areas 41.4%.

Figure 3.6: Experienced complications post-delivery and sought treatment for complications place of residence, Pune (2020-21)



#### 3.8: Money spent on delivery, benefits received under JSY

Table 3.10 provides results on money spent on delivery, received JSY benefits and arreceived under JSY by the mothers. An average of Rs. 25117 was spent on delivery; higher the urban areas (Rs. 26897/-) compared to the rural areas (Rs. 21,772/-). In about 15% of cases (11.9% in urban areas and 20.5% in rural areas), delivery was free and families did spend any money on it. An amount of more than 5000 was spent in as many as 75% of bias (75.8% in urban areas and 73.5% in rural areas). Very few cases, about 0.6% of the case mothers were unable to recall the **amount spent on delivery**. In nearly one-fifths of case mothers had not received JSY benefits. More rural mothers reported not receiving benefits than the urban mothers (84.6% versus 75.3%). Among mother who received benefits, they got an average of Rs. 1596. Majority of the mother received amount in slab above six hundred to fourteen hundred rupees in cash benefit, much higher proportions the rural areas (55.6%) than the urban areas (48.2%). Forty-eight per cent of mothers (52% aurban areas and 39% in the rural areas) received more than 1400.00 rupees under JSY.

Money spent on delivery, received JSY incentives and amount received under JSY, [2020-21]

aracteristics	Urban	Rural	Combined
mey spent on livebirth (in Rs.)			
me	11.9	20.5	14.9
2000	3.7	1.7	3.0
MIL-5000	7.8	3.4	6.3
than 5000	75.8	73.5	75.0
not remember	0.5	0.9	0.6
money spent on delivery	26897	21772	25117
maked JSY benefits			
	75.3	84.6	78.6
DENTI DEPOSITO DE PORTE DE LA CONTRACTOR DEL LA CONTRACTOR DE LA CONTRACTO	24.7	15.4	21.4
unitier of live births	219	117	336
mount received under JSY			PARTY OF THE STATE OF
600 Rs.	0.0	5.6	1.4
1400 Rs.	48.2	55.6	50.0
than 1400 Rs.	51.9	38.9	48.6
money received under JSY	1467	1983	1596
birth for which mothers received JSY money	54	18	72

#### Contact with the health worker/ASHA

from the health worker when contacted during the pregnancy/delivery or post-Overwhelmingly large proportions of the mothers (96%) reported that a health ICDS workers has visited them during the pregnancy. Further, majority of the (31%) also reported that the health worker visited them during their pregnancy and after the delivery. However, about 38% of the mothers reported that a health

(37%) reported that the ASHA advised them. Relatively fewer mothers (13) reported accompanied them to the facility and another 11% reported that the ASHA wehicle for them during the pregnancy when needed. In 96% of the cases, ASHA accompanied to the hospital for delivery.

Tab

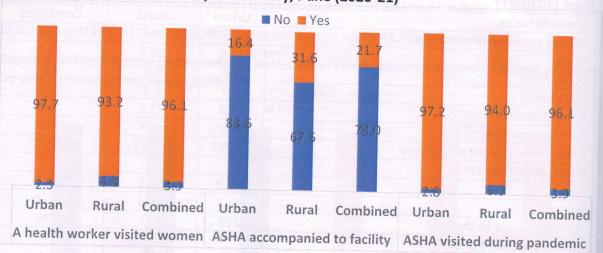
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Figure 3.7: Health worker, ASHA visit to women during pregnancy or pandemic and whether accompanied women to facility for delivery, Pune (2020-21)



The information was also collected on whether ASHA contacted mothers and if they contacted ASHA for any help related to birth of the child during the pandemic and whether ASHA helped them. Nine-six percent mothers reported that the ASHA visited them during the pandemic to check about the pregnancy/childbirth related matters. Proportions of mothers who ASHA visited by was much higher in the urban areas (97.2%) than the rural areas (94%). 92% of the mothers contacted ASHA for help during the pandemic and also received help from her. Nonetheless, there were a few mothers (0.9%) who reached out to ASHA but did not get needed help. Further, 7.4% of the mothers reported that they did not reach out to ASHA for any help related to the pregnancy/childbirth during the pandemic.

Almost all mothers (96.8%) reported that ASHA advised them when they contacted her and 81.8% mothers got medicines from them. Further, 10.7% of the mothers who contacted ASHA during pandemic reported that ASHA accompanied them to the facility. About 6% of the mothers reported that ASHA arranged a vehicle to go to facility.

Table 3.11: Health worker(s) visited mother, mother contacted ASHA for pregnancy related help and type of help ASHA provided during the pandemic, Pune (2020-21)

Characteristics	Urban	Rural	Combined
ASHA/ANM/AWW/TBA visited during pregnancy	Olbali	Kurai	Combined
No	2.3	6.8	3.9
Yes	97.7	93.2	96.1
% visited by the health worker:		33.2	90.1
During pregnancy	92.2	88.9	91.1
At the time of delivery	44.8	25.6	38.1
After delivery	73.5	59.8	68.8
Type of help ASHA provided during pregnancy			30.0
Arranged vehicle to go to facility	12.3	9.4	11.3

and the second
17.1 12.8
92.3
3.4 3.9
5.0 3.9
4.0 96.1
7.5 78.0
1.6 21.7
21.7
8.0 91 7
31.7
0.0 0.9
2.0 7.4 17 336
17 336
4.8 81.8
5.8 5.5
2.6 10.7
5.2 96.8
03 311

#### Supplementary nutrition

and another 28% got it on most of the supplementary nutrition and 9.5% for fewer than half of the days. The mothers who reportedly rarely/never received about the reason for the same. Of those who have received supplementary nutrition were further asked about the reason for the same. Of those who have received supplementary nutrition majority of the mothers (72%) reported other whereas 15.34% mothers reported they were not allowed by their families to go to COVID19 and 9.3% reported cited the reason as ICDS/AWC closed due to COVID-

deliveries compared to their respective counterparts.

Moreover, relatively more mothers from urban areas, belongs to high tertile, elder in age, and with 10 to 12 years of education experienced pregnancy complication.

More mothers in rural areas, in rich households, mothers belong to 25-34 years' age group, follower of Hindu religion, from scheduled caste and with less than 5 years of education reported they experienced complications at the time of delivery.

Post-delivery complications were more common among rural mothers, younger mothers, and from mothers from general caste than their respective counterparts. Finally, higher percentages of rural mothers, and from medium households received JSY money than their respective counterparts.

# **Chapter 4**

Utilization of the maternal health care services during currently pregnancy, abortion and stillbirth

#### Chapter 4:

# Utilization of the maternal health care services during currently pregnancy, abortion and stillbirth

Over the past few decades, the Indian government has heavily placed it emphasis and promoted maternal and child health services extensively in order to reduce maternal and childhood morbidity and mortality by enhancing level of utilization of services including nutrition related services. The main objective of these efforts is to ensure a minimum level of public health services for the expectant/lactating mothers and infants and children. Last 10-15 years have particularly been important as under the national health mission several programs and interventions have been launched to curtain the higher childhood and maternal morbidity and mortality rates. The antenatal care (ANC) refers to pregnancy-related health tare provided by a doctor or a health worker in a medical facility or at home.

An important aspect of the antenatal care is to ensure monitoring of a pregnancy for any signs of complications, detect and treat the complication(s). The pregnant women with pre-existing conditions should be advised and counselled on preventive care, diet during pregnancy, delivery care, postnatal care, and other related issues. As per the current Reproductive and Third Health Program, a pregnant woman must receive two doses of tetanus toxoid vaccine, adequate amounts of iron and folic acid tablets or syrup to prevent and treat anemia, and must have a minimum of four antenatal check-ups that include testing for blood pressure, are levels, HIV, anemia, fetal growth etc. For the natal care, the program emphasizes on the motion of institutional deliveries and skilled birth attendance for all home deliveries are institutional deliveries are difficult. Further, the program emphasizes on the follow-up mother and newborn children during the post-partum period by way of having a mother and newborn children during the newborn within the two months delivery, of which first health checkup should happen with 24 hours of the delivery and by personnel.

substantially strengthened, especially in the rural and remote areas of the country. The paramedical worker, auxiliary nurse midwife (ANM) and Accredited Social Health (ASHA) are posted at health sub-centers to provide basic maternal health, child and family welfare services to women and children in homes or health clinic. The

National Population Policy 2000 adopted by the Government of India in emphasizes the commitment of the government to the safe motherhood programs. The present study obtained information from the eligible women about the utilization of health care -services during pregnancy, delivery and during the post-partum period. The information was collected separately for the currently pregnant women for their currently pregnancy, abortions, stillbirths and live births among the women during the during past two years prior to the survey (from January 1, 2019). The questions covered range of issues – starting from registration of pregnancy, early registration, number of antenatal care visits, various services received by the women during antenatal, place of service, complications experienced and treatment seeking for complications, difficulties faced by the women in seeking services during antenatal, natal and post-natal period etc. Information was also collected about services provided by the health workers, especially ASHA during pandemic and if women received supplementary nutrition from the Anganwadi centers/ICDS. This chapter presents some of these aspects for the women who were pregnant at the time of data collection.

## 4.1 Background characteristics of the currently pregnant women

The table 4.1 provides distribution of the currently pregnant women by selected background characteristics for Pune. Thirty-four percent of the pregnant women of Pune district live in rural areas and 65.7% in the urban areas. 26.5% pregnant women were lives in poor households as well as 26.5% lives in rich household and 47.1% live in economically medium households.

Table 4.1: Background characteristics of the currently pregnant women by gestation period completed, Pune (2020-21)

Characteristics		Completed gestation (in months)		
	<=6 months	> 6 months		
Place of residence				
Urban	65.6	65.9	65.7	
Rural	34.4	34.2	34.3	
Household wealth tertiles		34.2	34.3	
Low	21.3	34.2	26.5	
Medium	54.1	36.6	47.1	
High	24.6	29.3		
Age	most death an early when	23.3	26.5	
15-24	47.5	FC 1	74.0	
25-34	AND ALL DESCRIPTION OF THE PROPERTY OF THE PRO	56.1	51.0	
35-49	50.8	43.9	48.0	
33-43	1.6	0.0	1.0	

of currently pregnant women	61	41	102
mail (%)	100.0	100.0	100.0
Tree daughters only	3.3	0.0	2.0
One son and one daughter	3.3	4.9	3.9
Both daughters	1.6	2.4	2.0
Both sons	0	0	0
mining children			3.0
Daughter	9.8	9.8	9.8
Son	11.5	7.3	9.8
ming child only			72.0
We living child	70.5	75.6	72.6
position of living children		33.0	33.2
than 12 years	39.3	39.0	39.2
12 years	52.5	53.7	52.9
m3 years	3.3	2.4	2.9
than 5 years incl. never went to school	4.9	4.9	4.9
completed years of schooling)	00.0	00.5	57.8
(General castes)	50.8	68.3	22.6
backward classes	24.6	19.5	4.9
meduled tribes	8.2	0.0	14.7
meduled castes	16.4	12.2	447
atte	11.5	4.9	8.8
E2	11.5	12.2	5.9
uslim	1.6	82.9	85.3
	86.9	92.0	0= 0

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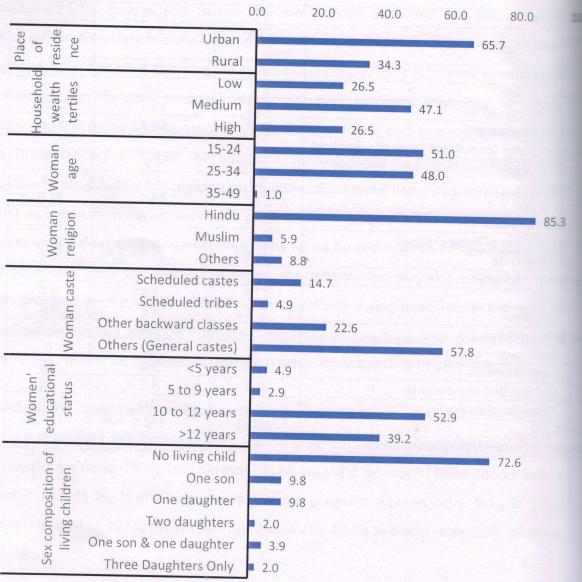
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Figure 4.1: Distribution of currently pregnant women by selected backgrant characteristics, Pune (2020-21)



Half (51.0%) of the pregnant women belonged to 15-24 years of age. Only 1% of the pregname women were aged 35 years or older. 85.3% pregnant women were Hindu, 6% were Muslim and 8.8% were of other religion. 57.8% of the currently pregnant women belong to general caste category followed by other backward classes (22.6%). About fifty-three percent pregnant women have completed 10 to 12 years of schooling and another 39.2% have more than 12 years of education. There were 5% of the women who had fewer than 5 years of schooling. 72.6% of pregnant women among currently pregnant women did not had any living child at the time of survey. Ten percent of the pregnant women each have only one son or only one daughter living at the time of survey. About four percent pregnant women had one son and one daughter living at the time of survey. Two percent of the women who were

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regnant had 2 living daughters and another 2% had three living daughters at the time survey.

#### 4.2 Antenatal care

Table 4.2 provides information on several antenatal care services utilized by the currently aregnant woman during this pregnancy.

mety-eight percent of the currently pregnant women registered their pregnancy in the first mester. There were only 2% who registered their pregnancy after completing three-months pregnancy.

4.2: Utilization of various antenatal care services, place from where most of the ANC enices received and place pregnancy registered, Pune (2020-21)

A Contract to the second second second second	Completed gest	ΔII	
Characteristics	<=6 months	> 6 months	All
legistered in first trimester			
stered in the first trimester	100.0	95.1	98.0
stered in the second/third trimester	0.0	4.9	2.0
Mot registered yet	0.0	0.0	0.0
Number of antenatal care received so far			
Three or fewer	88.5	19.5	60.8
Faur or more	11.5	80.5	39.2
Percentages women who received:			
WCP card	98.2	100.0	99.0
Addomen examines	96.4	100.0	97.9
Weight taken	100.0	100.0	100.0
Blood pressure measured	96.4	97.6	96.9
Blood sugar tested	94.6	100.0	96.9
memoglobin tested	91.1	100.0	94.9
Tested for COVID19	16.1	39.0	25.8
Tested for HIV	66.1	92.7	77.3
Meceived IFA tablets/Syrup	85.7	100.0	91.8
Insumed IFA tablets/Syrup	100.0	100.0	100.0
an ultrasound/sonography	-	-	-
meeting one or more TT injection	57.1	92.7	72.2
from where most ANC services received			
health facility incl. ICDS center	76.8	73.2	75.3
facility, service providers incl. NGO/Trust	23.2	26.8	24.7
Mumber of currently pregnant women	61	41	102
stered pregnancy, place pregnancy		Villagi este sii o e	70-6 1710 3
health facility incl. ICDS center	95.1	97.6	96.1
facility, service providers incl. NGO/Trust	4.9	2.4	3.9
Manufacture of women registered pregnancy	61	41	102

sits and services received during the visit

C REPORTED IN

39.2% of currently pregnant women have made four or more antenatal care visits

for their current pregnancy. 92 to 99% of the currently pregnant women had received mother and child protection (MCP) card, have their abdomen examined, weight taken. Pressure & blood sugar measured, hemoglobin tasted, received and consumed tablets/Syrup. Out of these services 100% pregnant women have their weight taken. The was 100% consumption of IFA tablets/Syrup. However, 77.3% of the pregnant women test for HIV. As far as COVID-19 concerned, 25.8% of the currently pregnant woman had be tested for COVID19. There are no women who reported that they have undertake ultrasound/sonography during their current pregnancy.

98.0 100 75.3 24.7 2.0 0.0 First Second/thrid Not Public health Private No Yes trimester trimester registered facility facility + yet NGO/Trust

Figure 4.2: Pregnancy registration in the first trimester place received most ANC services and if faced any difficulty in getting ANC services due to pandemic, Pune (2020-21)

#### Place of ANC services

Information have been collected from all the currently pregnant women about the place from where they received most of the ANC services so far during this pregnancy. The data shows that out of the currently pregnant women who registered pregnancy, 75.3% of pregnant women received most of the ANC services from a public health facility (including State/municipality hospital, district hospital, community health centre, primary health centre, health sub-centre, and ICDS/Anganwadi centre), whereas, 24.7% received the services from a private health facility including trust/NGO hospitals. Slightly higher percentages of the pregnant women who were in first/second trimester (76.8%) reported getting most ANCs from a public health facility. Of all pregnant women who registered their pregnancy, 96% registered at a public health facility and 3.9% at a private health facility.

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## 4.3 Pregnancy complications and treatment seeking

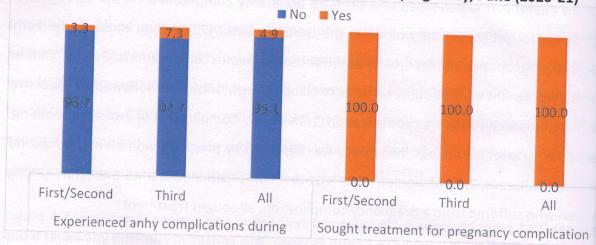
Table 4.3 provides results on whether the currently pregnant woman experienced any complication during her current pregnancy, type of complications women experienced and if

sought treatment for complication(s). The data suggests that very few currently pregnant women (4.9%) had experienced one or more pregnancy complication till the survey date. Sightly higher proportion of women in the third trimester (7.3%) than those in the early sages of pregnancy (3.3%) reportedly experienced pregnancy complications. Overall, 2.9% of surrently pregnant woman suffered from swelling on legs, body, face followed by excessive smiting, Headache and other complication (1.0% each). Complication of excessive vomiting, the each of the early swelling on legs, body, face was reported by pregnant women in first/second section, whereas, 2.4% of women reported other complication(s) in third trimester. Among section who suffered from a pregnancy complication, all sought treatment.

**Solution** 4.3: Pregnant women experienced pregnancy complication, type of complication experienced and sought treatment for pregnancy complication, Pune (2020-21)

Completed gestation (in months) All Indicator <=6 months > 6 months Experienced any complications during pregnancy 92.7 95.1 No 96.7 3.3 7.3 4.9 Tipe of pregnancy complication (%) 1.6 4.9 2.9 **SWELLING** on leg, Body and Face acessive vomiting 1.6 0.0 1.0 <del>leadache</del> 1.6 0.0 1.0 0.0 0.0 Weakness / Excessive fatigue 0.0 0.0 0.0 0.0 Amormal fetus position 0.0 0.0 0.0 addominal pain 0.0 2.4 1.0 mer complications 41 102 mumber of currently pregnant women 61 sought treatment for pregnancy complication(s) 0 0 0 100 100 100 2 3 number of women experienced complications

Figure 4.3: Women experienced pregnancy complication and sought treatment for pregnancy complication by gestation period of the current pregnancy, Pune (2020-21)



## 4.4 Contact with the health worker/ASHA

received from the health worker when contacted. Overwhelmingly large proportions of the currently pregnant women (96%) reported that a health and/or a ICDS workers has visited them during the pandemic related to the current pregnancy. Majority of the pregnant women (96%) who reached out to the ASHA for help related to the pregnancy during the pandemic and reported that the ASHA helped them. However, 3% of the women reported that they did not reach out to ASHA for any help related to the pregnancy during the pandemic.

More women in the early stage of pregnancy (9.67%) than those in the advance stage (95.1%) contacted ASHA and also got help. All women reported that ASHA advised them during their contact. Further, 73.5% of the women who contacted ASHA during pandemic reported that ASHA gave medicines and 94.9% pregnant women reported that ASHA gave them advice.

Percentage of women who got advice from ASHA among women in later stage of pregnancy was 100% than those in the early stage (91.4%). In 18.4% cases ASHA accompanied to the health facility.

Also, proportion of women who got medicine was higher among women in the later stage of pregnancy (82.5%) than those in the early stage (67.2%). It may be noted that 2% women reported that ASHA arranged for the vehicle when they contacted her for help during the pandemic.

Table 4.4: Health worker(s) visited pregnant women, woman contacted ASHA for pregnancy related help and type of help ASHA provided during the pandemic, Pune (2020-21)

Characteristics	Completed gestation (in months)		
Health worker (ACUA (AND COM	/-C	> 6 months	All
Health worker (ASHA/ANM/AWW/TBA) visited (No	during pregnancy		
Yes	3.3	4.9	3.9
	96.7	95.1	96.1
Between March 1, 2020 to survey date, contacted	d ASHA for help and if	ASHA helped	
and got neip	95.1	97.6	00.1
Contacted ASHA, did not get help	1.6		96.1
Did not contact ASHA		0.0	1.0
Overall (%)	3.3	2.4	2.9
Number of currently pregnant women	100.0	100.0	100.0
Type of help ASHA provided when contacted	61	41	102
Got medicine			
	67.2	82.5	73.5
Arranged vehicle to go to facility	3.5	0.0	2.0
Accompanied to facility	20.7	15.0	
Gave advice	91.4		18.4
Other help		100.0	94.9
Overall (%)	3.5	2.5	3.1
Number of pregnant women contacted ASHA	100	100	100
Straint women contacted ASHA	59	40	99

#### 4.5 Supplementary nutrition

21)

Table 4.5 provides results on distribution of the currently pregnant woman whether they received supplementary food during pandemic from the Anganwadi and the reason if they did not receive it. Thirty-four percent currently pregnant women reported that they received supplementary nutrition from the ICDS during the pandemic related to the current pregnancy almost every day and 16.7% got it on most of the days. Percentage of the women who didn't receive or rarely received the supplementary food from ICDS/AWC was 39.2%. Percentage of the receiving or rarely receiving supplementary food was higher (54.1%) in early stage of pregnancy than those in later stage of their pregnancy (17.1%). Also, 10% currently pregnant temen received for fewer than half of the days.

women who reportedly rarely/never received the supplementary nutrition were further about the reason for the same. The main reported reasons were – ICDS/AWC was due to COVID19 (12.5%), Anganwadi worker did not provide at home (2.5%), not aboved to go to the Anganwadi due to pandemic (2.5%). The majority (82.5%) of currently mant women cited other reason for rarely/never received Supplementary food. This may be due to majority of women were in their early stage of pregnancy, so didn't register at AWC.

Table4.5: Pregnant women received supplementary nutrition (SN) from the ICDS during the pandemic. Pune (2020-21)

Characteristics	Completed gesta		
	<=6 months	> 6 months	All
Received supplementary nutrition from ICDS/AWC	daybe (88 acc)	AND RAVABLES TO	DOW (G)
Almost everyday	27.9	43.9	34.3
Most of the days	8.2	29.3	16.7
Fewer than half of the days	9.8	9.8	9.8
Rarely / Never	54.1	17.1	39.2
Overall (%)	100.0	100.0	100.0
Number of currently pregnant women	61	41	100.0
Reason women rarely/never received SN	i delanu	Startus routine mul	102
ICDS/AWC closed due to COVID19	12.1	14.3	12.5
AWW did not provide at home	3.0	0.0	2.5
Not allowed to go to AWC due to COVID19	0.0	14.3	2.5
AWC did not receive supply due to COVID19	0.0	0.0	0.0
Other reasons	84.9	71.4	82.5
Number of women rarely/never received SN	33	7	40

## 4.6 Selected indicators by socio-demographic characteristics

Table 4.6 results data on the percentages of pregnant women who registered for ANC, registered in the first trimester, faced difficulty in getting ANC services during pandemic and women who received supplementary nutrition by place of residence, household wealth tertile, woman's age, religion, caste, and her educational status.

The registration for ANC among currently pregnant women was universal in Pune district.

However relatively lower percentages of women from the medium household wealth categories, younger women aged 15-24 years, Hindu religion, from other caste group, and with more than 12 years of education registered the pregnancy in the first trimester than their respective counterparts. It is pleasant to see that no one had faced any difficulty in accessing the ANC during the pandemic.

Further, lower percentages of women in the urban areas, from rich households, follower of Hindu Religion, belongs to scheduled caste and tribes and completed more than 12 years of education received supplementary nutrition during the pandemic than their respective counterparts. However, these lower percent in the respective categories might be because of less sample size.

Table 4.6: Selected indicators of antenatal care for currently pregnant women by selected background characteristics, Pune (2020-21)

Background characteristics	% registere d for ANC	% registere d in the first	% faced difficult y in getting	Got SN All/Mos t days	No. of pregnant twomen
Place of residence		trimester	ANC		Women
Urban	100.0	07.0			19,40 8.30
Rural	100.0	97.0	0.0	40.3	67
Household wealth tertile	100.0	100.0	0.0	71.4	35
Low	100.0	100.0			
Medium	100.0	100.0	0.0	77.8	27
High	100.0	95.8	0.0	39.6	48
Age	100.0	100.0	0.0	44.4	27
15-24	100.0	22.1		incoming.	man di
25-34	100.0	98.1	0.0	50.0	52
35-49	100.0	98.0	0.0	53.1	49
Religion	100.0	100.0	0.0	0.0	1
Hindu	100.0				
Muslim	100.0	97.7	0.0	47.1	87
Other religions	100.0	100.0	0.0	100.0	6
Caste	100.0	100.0	0.0	55.6	9
Scheduled castes	100.0	0.681, fts. 65-6		anieli ton	01-14-24
Scheduled tribes	100.0	100.0	0.0	40.0	15
Other backward classes	100.0	100.0	0.0	40.0	5
Others (General castes)	100.0	100.0	0.0	52.2	23
Education	100.0	96.6	0.0	54.2	59
Fewer than 5 years + never went to				The state of	
school	100.0	100.0	0.0	90.0	nive ent
5 to 9 years	100.0	100.0	0.0	80.0	5
10 to 12 years	100.0	100.0	0.0	33.3	3
More than 12 years	100.0	95.0		59.3	54
Dverall	100.0	98.0	0.0	37.5 51.0	102

# 4.7 Abortions and Stillbirths: Background characteristics

table 4.7 provides distribution of abortions and stillbirths by selected background characteristics of the women for Pune district. Out of 16 abortions, 8 abortions (50.0%) are in urban area. 37.5% abortions were in rich households, 62.5% in women aged 25-34 mars, 93.8% among the Hindu women and 62.5% among women from General caste poups. Interestingly, the rate of abortion was higher among respondent who had no living call (31.3%) followed by among those who had only one daughter or one son and taughter (25.0%).

5 still births had occurred during the reference period in the district. Out of 5 still

births, 3 still births occurred in urban area, women belong to High tertile households, belongs to other caste group, had 10 to 12 years of schooling. 4 still births occurred among women belonged to age group 15-24 years, among Hindu women, had only one living son. 2 still births had occurred among women belonged scheduled caste, had 5 to 9 years of education.

Table 4.7: Abortions and Still births by selected background characteristics of the women, Pune (2020-21)

Characteristics	A	bortions	Stillbirths	
Place of residence	%	Number	%	Numbe
Urban			14.3	
Rural	50.0	8	60.0	3
Household wealth tertile	50.0	8	40.0	2
Low				0.0.E.
Medium	31.3	5	40.0	2
High	37.5	6	0.0	0
Age	31.3	5	60.0	3
15-24	9.01			3
25-34	31.3	5	80.0	4
	62.5	10	20.0	1
35-49	6.3	1	0.0	0
Religion Hindu			200000000000000000000000000000000000000	U
	93.8	15	80.0	4
Non-Hindu	6.3	1	20.0	1
Caste	LOLL I	O HUSE E	20.0	1
Scheduled castes	12.5	2	40.0	2
Scheduled tribes			0.0	2
Other backward classes	25.0	4	0.0	0
Others (General castes)	62.5	10	60.0	0
Education		10	60.0	3
Fewer than 5 years incl. never went to school	0.0	0	0.0	there are no
5 to 9 years	0.0	0	0.0	0
10 to 12 years	50.0	8	40.0	2
More than 12 years	50.0	8	60.0	3
Sex composition of living children	30.0	0	0.0	0
No living child	31.3	5	W SRU TO ZO ES	19950 87
One living child only	31.3	3	0.0	0
Son	12.5	2	200	
Daughter	25.0	2	80.0	4
Two living children	23.0	4	0.0	0
Both sons	6.3	5.011.00m	20.0	
Both daughters	0.0	1	20.0	1
One son and one daughter	25.0	0	0.0	0
Overall / no. of abortions / stillbirths	100	4	0.0	0
,	100	16	100	5

#### 4.8 Abortions: Maternal health care utilization

Of 16 abortions, 7 women have registered pregnancy for antenatal care and 6 have made three or fewer antenatal visits before abortion. All the registered women had received a MCP card, 6 had their abdomen examined, weight taken, blood pressure measured, blood sugar tested, hemoglobin tested. Only one women had test for COVID-19, 3 women had test for HIV, 2 had received one of more TT Injection, 3 had received and consumed IFA tablets and all had an ultrasound done as a part of the antenatal care. Most of the women received most ANC services from the Public health service providers/facility (4). The good side of this is that no one had faced difficulties in seeking antenatal care.

Six of the 16 women experienced a pregnancy complication, mainly abdominal pain (4), bleeding/Spotting (3), excessive vomiting (3), weakness/excessive fatigue (3), swelling on leg, face, body, week or no fetus movement (2 each). 5 out of six women sought treatment for pregnancy complications.

In 8 cases, abortion took place in Private health facilities/ service provider including the NGO/Trust hospitals followed by Public health facility (4). In two cases, abortion took place in homes using emergency contraceptive pills or other home remedies.

on the same day, four stayed for 2 to 3 days and one stayed 4 to 5 days in the hospital after abortion. Of four abortions that took place outside health facility, the reason was mainly - not necessary (2 cases), no facility nearby (1) others (1).

one experienced post-abortion complication. Moreover, in 7 of the 16 cases, woman did not receive any post-abortion health checkup, nonetheless, 3 informed that they had a post-abortion checkup within 24 hours and another six after one day. Seven of the 9 women who received a post-abortion checkup had it in a private health facility and all from a doctor.

of the 16 women reported that a health worker visited them; 9 were visited during pregnancy, four at the time of abortion and eight after delivery. Nine of the 16 women conted that ASHA visited them during pandemic (between march 1, 2020 and survey date). The tof the women contacted ASHA for help during the pandemic and all received help from Thirteen of the 16 women did not receive any supplementary food from the ICDS pregnancy. Twelves of the women reported that they did not receive supplementary food due to the other reasons and only one women reported that she did not receive pandemic.

#### 4.9 Stillbirth: Maternal health care utilization

Of 5 stillbirths, all have registered pregnancy for antenatal care in the first trimester of the pregnancy and four women had made four or more antenatal visits before delivery. All have received MCP card, had their abdomen examined, weight taken, blood pressure measured, blood sugar tested, Hemoglobin tested, 3 had tested for COVID19, 4 had tested for HIV, all had received one or more TT injection, only 3 had an ultrasound done as a part of the antenatal care. Three received most ANC services from the public health facility and remaining 2 from the private health service providers/facility. None of the women faced any difficulty in seeking antenatal care.

Two of five women experienced a pregnancy complication; difficulty with Bleeding/spotting (2). In three of the five cases, delivery took place in a private health facility and in the remaining two cases at a public health facility. All women had used a private vehicle to reach health facility for delivery. Three delivers were C-section and remaining 2 were normal. Only one woman said that ASHA accompanied her to the facility for delivery. Two women stayed in the health facility for 3 to 5 days and remaining three for seven days after the delivery.

Two women suffered from Perinatal Asphyxia and one each woman suffered from prolonged labour, blood pressure problem and others. Three of the women suffered from post-delivery complications — convulsion (not from fever) (2), Bleeding/spotting (2) and one reported as other complications. In all cases, women sought treatment for delivery / post-delivery complications.

All 5 woman received post-natal health checkup after delivery within 24 hours; 3 from a Private health facility and 2 from a Public health facility. All 5 women got their post-natal checkup done by a doctor.

All the women reported that a health worker visited them; 3 were visited during pregnancy, 2 at the delivery. In the all the cases ASHA gave advise to women. Further, all the women reported that the ASHA visited them during the pandemic related to this pregnancy and the women also reported that they contacted ASHA for help during the pandemic related to this pregnancy and also got help from ASHA. All five women got medicines from ASHA and four women received advice from her. Four of the 5 women received supplementary food from the ICDS during pregnancy. However, one woman reported that she received supplementary nutrition only on few days. One women reported that she did not receive supplementary food because Anganwadi centre was closed due to the COVID-19 pandemic.

# Chapter 5

# Utilization of immunization, child health and ICDS services

# Chapter 5 Utilization of immunization, child health and ICDS services

This chapter discusses level of utilization of immunization, child health care and ICDS services among children during the pandemic period. The Government of India has made remarkable efforts over the past two-three decades particularly to strengthen maternal and child health services in India. These include enhanced activities of the Family Welfare Programme, introduction of the Child Survival and Safe Motherhood Programme by the Ministry of Health and Family Welfare (MoHFW). The MoHFW has sponsored special projects that include the Oral Rehydration Therapy (ORT) programme, the Universal Immunization Programme, and Maternal and Child Health Supplemental Programme within the Postpartum Programme.

While the government-run Primary Health Centres and Health sub-centres are mainly responsible to deliver the maternal and child health services in rural areas, in urban areas, are available mainly through government or municipal hospitals, urban health posts, respitals and nursing homes operated by nongovernmental organizations (NGOs), and private nursing homes and maternity homes.

exaccination of children against six preventable diseases, viz. tuberculosis, diphtheria, pertussis, tetanus, poliomyelitis, and measles has been an important component of the child survival program in India. The Expanded Programme on Immunization (EPI), initiated in 1978, and at reducing morbidity, mortality, and disabilities from these six diseases among making free vaccination services to all children eligible. The mothers were asked report if their child had received the listed vaccine or not. The specific vaccines included in present study are: BCG, Polio-0, Hepatitis-B0, Pentavalent (first, second and third doses), assless and Rubella, Rotavirus (first, second and third doses), DPT booster and Vitamin-A first and last doses). The mothers were asked to report place of vaccination, if the place of accination has to be changed and the reason for the change of place and reason for not accinating the child. This information was collected for each child and for each vaccine parately. Besides, mothers were also asked if they experienced any difficulty in getting child accinated during pandemic and the nature of difficulties experienced. Finally, the mothers were asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if a health worker visited them for child vaccination or if they contacted ASHA for asked if the pade in the child.

respect to child health, the study collected information on if child fell ill and the type of

disease(s) child suffered during the pandemic. For all children who suffered from an illness during the pandemic information was collected about the treatment, place of treatment, any difficulty experienced in seeking treatment of ill child and reason for not seeking treatment for ill child. Further information was obtained on if a health worker visited them for child health related matters if they contacted ASHA for any help related to child health care during the pandemic and the assistance received from ASHA. The information on child immunization and child health and health-care utilization for illness from mothers for all children born since 1 January 2019.

The study also collected information on the utilization of ICDS services by the children below six-years of age. All mothers were asked to report if their child attended or registered at the angnawadi center before and during pandemic and whether children received and/or consumed food given to them by the anganwadi. Information was also collected on main reason for not attending the anganwadi for all children who never attended/registered under ICDS. The mothers who reported that their children received food from the anganwadi during both periods (that is, pre-pandemic and pandemic), information was collected about their views on change in the quantity and quality of food given to the children and change in other services provided to the children by the anganwadi during the pandemic.

#### 5.1 Child Immunization

Table 5.1 gives age distribution of the children by age (in months), gender and birth order by place of residence. A total of 335 children (219 in the urban areas and 117 in the rural areas) were enumerated who were born between January 1, 2019 and the survey date. Of these, 36.4% were aged up to six months and 29% were aged 7 to 12 months. Forty-three – percent were boys and 56% were girls; share of girl children was slightly higher in the urban areas (57.1%) than the rural areas (55.2%). Near about 7% of these children were of third or higher order. Share of third or higher order birth was higher in the rural areas (7.8%) than in the urban areas (6%).

5.1: Distribution of surviving children born during the reference period by age, gender

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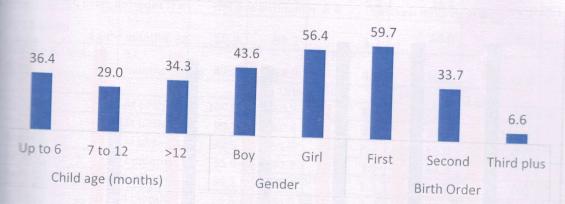
aning

Off

im

exteristics			
of the child	Urban	Rural	Combined
Me months		siima .pm	ibhac a ir c
months	37.4	35.3	36.4
than 12 months	26.9	32.8	29.0
ender	35.6	31.9	34.3
EN CONTRACTOR OF THE PROPERTY		resulta di	
in	42.9	44.8	43.6
Order	57.1	55.2	56.4
The section to age the new course			80 A
Hand	59.4	60.3	59.7
or higher	34.7	31.9	33.7
(%)	5.9	7.8	6.5
umber of children	100	100	100
or children	219	117	336

5.1: Distribution of children born during the reference period by selected background cateristics, Pune (2020-21)



provides details of each vaccine children received during the pandemic. In the same have also given the age of the child considered for vaccination. The information is set of or urban and rural areas separately and combined. Almost all the children received of BCG, Polio-0, Hepatitis-B0. 95.3% of children received Pentavalent (first dose). Fewer children received measles and rubella (86%), only about 51-56% children rotavirus first, second and third doses and less than 59% children received DPT About 47% children received Vitamin-A first dose and same as received Vitamin-A Majority of the children were vaccinated at a public health facility, however, far children got BCG (59%), Polio-0 (61%) and Hepatitis-BO (62.8%) from a public health Although the place of immunization during the pandemic was same as the usual place as few mothers said that the place was not a usual place of vaccination. Except for

Measles & Rubella 1	9 months	86.6	89.7	8.6	0.0	9.2	12.
Rotavirus – 1	2 months	58.0	87.7		100.0	8.3	67
Botavirus 2			07.7	7.7	100.0	4.3	112
Rotavirus – 2	3 months	57.0	87.1	6.6	75.0	0.0	107
Rotavirus – 3	4 months	49.5	87.8	4.0	100.0		
Vitamin A – 1 <sup>st</sup> dose	6 month	50.6	86.7	6.5	50.0	2.0	99
DPT booster	15 months	60.7	83.3	11.1	50.0	0.0	28
Vitamin A - last	11		Life by Cong	19.		0.0	20
dose	months	56.3	82.8	6.9	33.3	0.0	48

Table 5.3 provides results of selected indicators by background characteristics. There were not much gender differentials in immunization of children. Relatively, overall a higher percentage of female children as compared to male children received immunization and most received vaccines at a public health facility. Higher proportions of the children in rich families received Measles Rubella and rotavirus-3, whereas higher percentages of children from poor households got DPT booster, last dose of Vitamin-A, and received the vaccine at a public health facility. Children born to older mothers aged 35-49 years were in advantaged position compared to the children born to younger mothers. Similarly, children born to Hindu and Christian mothers, mothers from other back ward classes and other castes scheduled tribes generally had advantage. Further, children born to mothers with 5 to 9 years of education in general had in advantage position to receive the vaccination.

Table 5.3: Immunization indicators by selected background characteristics, Pune (2020-21)

Characteristics .	% received Measles Rubella	% received Rotavirus3	% received DPT booster	% received Vitamin- A last dose	% received BCG at PHF
Gender				dosc	
Male	85.9	49.6	58.8	40.0	51.4
Female	86.1	53.2	60.0		
Household wealth tertile		33.2	00.0	53.0	64.6
Low	84.4	51.0	61.5	53.1	66.4
Medium	81.5	54.2	55.6		66.4
High	93.1			40.4	48.2
Maternal age	93.1	48.9	60.7	48.8	61.3
15-24	79.4	45.1	F0.6	184	Vince in
25-34			58.6	42.0	64.0
35-49	89.9	54.1	55.6	47.1	54.8
Maternal religion	90.0	80.0	85.7	77.8	66.7

Hindu Hindu	07.0				
Muslim	87.9	51.1	58.8	50.0	58.0
Christian	66.7	50.0	0.0	0.0	85.7
Other religions	100.0	100.0	100.0	50.0	66.7
Maternal caste	76.0	51.3	55.6	36.8	57.8
Scheduled castes	20.0		200000000000000000000000000000000000000	no Hamile	Later .
Scheduled tribes	80.0	51.7	50.0	38.5	61.4
Other backward classes	100.0	81.8	87.5	75.0	80.0
Others (General castes)	93.8	58.0	60.0	56.5	49.1
Maternal education	84.7	47.2	56.3	44.8	58.8
Fewer than 5 years	100.0				
5 to 9 years	100.0	57.1	66.7	50.0	92.3
10 to 12 years	60.0	44.8	42.9	45.5	63.9
More than 12 years	88.9	49.4	61.7	45.6	60.3
Overall	88.9	57.0	57.6	50.0	50.0
	86.1	* 51.4	58.9	47.2	58.6

Figure 5.3A: Percentages of children received measles and rubella by selected characteristic all areas, Pune (2020-21)

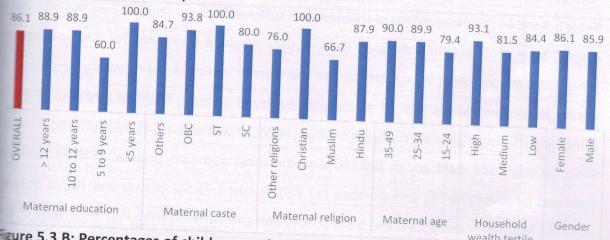
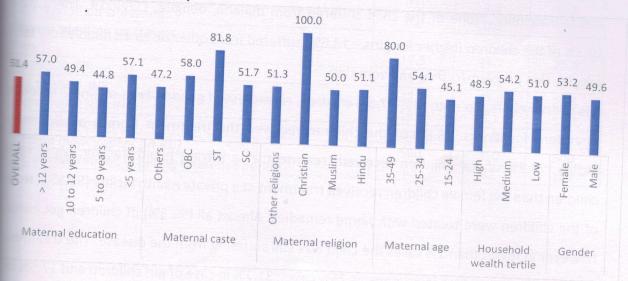


Figure 5.3 B: Percentages of children received Rotavirus 3<sup>rd</sup> dose by selected characteristic all areas, Pune (2020-21)



OverALL Christian Others School Street School School Street School School Street School Street School Street School School Street School Schoo

Maternal religion

Maternal age

Household

wealth tertile

Gender

Figure 5.3C: Percentages of children received DPT booster by selected characteristic for all areas, Pune (2020-21)

## 5.2 Child illness and treatment seeking

Maternal caste

Maternal education

Table 5.4 shows the percentages of children who suffered from an illness during the reference period, type of illness they suffered from, if they received treatment for illness, place of treatment, money spent on treatment and the current status of the disease at the time of survey by gender. About 44% of all children surveyed suffered from an illness during the pandemic, slightly higher percentages of boys (44.5%) than the girls (43.4%) suffered from an illness. Cough and Cold cough (80.1%) was the most common disease children suffered followed by fever (74.7%) and diarrhea (12.2%). Further, 71.6% of girls and 78.5% of boys suffered from fever and 15.4% and 9.8% of boys and girls suffered from diarrhea. None of the children suffered from jaundice. Fewer of 1% children suffered from breathlessness/asthma and fall/accident. None of the child suffered from malaria, dengue, COVID19. There were 10.3% of the children (higher for girls – 13.6%) suffered from other diseases mainly Low birth weight, skin problem/rashes and vomiting.

It is overwhelming to note that 97.3% children, regardless of gender, type of illness received treatment for illness. 26.8% of the children received the treatment from a public health facility. 73.2% of the children received treatment at a private health facility. More male children than the female children received treatment at a private health facility (82.5%). None of the children were treated with home remedies. Almost all (99.3%) of children got cured, however in fewer than 1% cases the child was still suffering from the disease. The treatment for child illness was free in as many as 25% cases; 31.7% in case of girl children and 17.5% for

11.3% of cases, more than 1500 rupees was spent on the treatment. The median spent on treatment was rupees 500.

5.4: Illness among children, type of illness, treatment seeking for illness, place of ment, money spent on treatment and health status of the child at the time of survey menter, Pune (2020-21)

kator	Boy	Girl	Both
men fell ill during pandemic			
	55.5	56.6	56.1
	44.5	43.4	43.9
Children	146	190	336
mose fell ill, % suffered from:			
TE3	15.4	9.8	12.2
•	78.5	71.6	74.7
mand Cold	76.9	82.7	80.1
TO THE STATE OF TH	0.0	0.0	0.0
	0.0	0.0	0.0
fig.	0.0	0.0	0.0
Messness/Asthma	0.0	1.2	0.7
CORONA	0.0	0.0	0.0
kindent	0.0	1.2	0.7
ETC2	0.0	2.5	1.4
fiseases	6.2	13.6	10.3
Treatment for illness			2010
<b>上海河南部港北州地区</b>	3.1	2.5	2.7
	96.9	97.5	97.3
treatment			
facility incl. ICDS/NGO/Trust/E-sanjeevani	17.5	34.2	26.8
th facility including online consultation	82.5	65.8	73.2
Terredy including others	0.0	0.0	0.0
status at the time of survey			
ne-cured	100.0	98.8	99.3
suffering	0.0	1.2	0.7
tondition worsened	0.0	0.0	0.0
ment on treatment			0.0
Land to the second of the seco	17.5	31.7	25.4
SIDINR	41.3	40.5	40.9
1500 INR	22.2	22.8	22.5
1500 INR	19.1	5.1	11.3
Tremember	0.0	0.0	0.0
maney spent (In Rs.)	500	350	500
de fell ill during reference period	65	82	147

Figure 5.4: Percentages of children fell ill during pandemic and percentages suffered from diarrhea, fever and could-cough, Pune (2020-21)

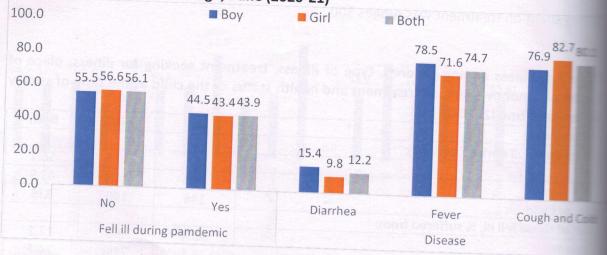
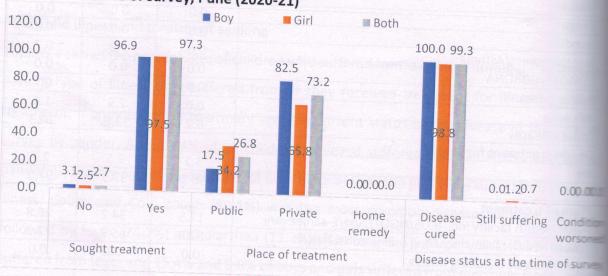


Figure 5.5: Percentages of ill children received treatment, place of treatment and chie health at the time of survey, Pune (2020-21)



Selected indicators of child health care utilization by background characteristics are provided in Table 5.5. The data suggest that higher percentages of children in the urban areas suffered from an illness (548%) and sought treatment (30.2%) from a public health facility compared to the children in the rural areas. Interestingly, more urban mothers contacted ASHA for child health matters during the pandemic than the rural mothers. Further, relatively higher percentages of children in medium income households or born to older mothers suffered from an illness and/or received treatment at a public health facility.

The prevalence of illness during the reference period was more common among the children born to Muslim mothers, from scheduled caste and children born to mothers who had more than 12 years of education. More children in medium income households and born to

mothers from General caste and children born to mother with fewer than 5 years of education were treated at a public health facility than their respective counterparts.

Table 5.5: Selected child health indicators by background characteristics, Pune (2020-21)

Characteristics	% children fell ill during pandemic	% sought treatment from a public health facility	% Mothers contacted ASHA for child
Place of residence		racinty	health
Urban	54.8	30.2	45AAA
Rural	23.3	11.1	95.0
Household wealth tertile	20.0	11.1	85.2
Low	31.9	94.4	
Medium	59.5	95.5	97.1
High	40.5		95.1
Maternal age	40.5	88.6	88.4
15-24	45.6	21.4	
25-34	41.9	21.4	98.3
35-49	58.3	29.3	90.4
Maternal religion	36.3	40.0	83.3
Hindu	42.9	267	
Muslim	57.1	26.7	92.4
Christian	0.0	25.0	100.0
Other religions Incl. No religion	51.1	NEW AND ADDRESS OF THE PARTY OF	rajedo nijilik je n
Maternal caste	31.1	26.1	95.7
Scheduled castes	55.7		and Wisher Street
Scheduled tribes		26.3	94.9
Other backward classes	46.7	14.3	71.4
Others (General castes)	42.1	16.7	91.7
Maternal education	39.9	31.1	94.7
Fewer than 5 years	15.4	2.00	
to 9 years	15.4	50.0	100.0
10 to 12 years	36.1	33.3	76.9
More than 12 years	46.1	24.7	95.1
OVERALL	46.3	27.1	93.9
	43.9	26.6	93.2

## 5.3 Utilization of ICDS services

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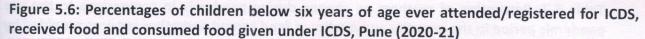
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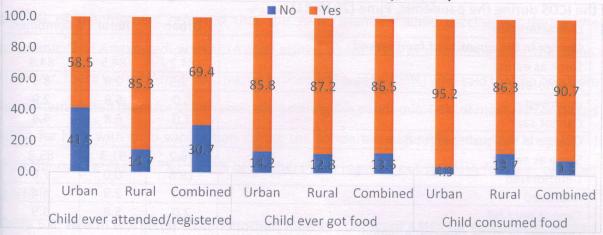
Table 5.6 provides results on children attended ICDS and services they received along with for not attending ICDS. The data suggests that 69.4% of the children ever ended/registered AWC and 61.5% attended during the pandemic (between march 1, 2019 and survey date). Significantly higher percentages of children in the rural areas than the urban attended AWC ever as well as during pandemic. Eighty-six percent of the children

received food from the AWC ever, however, as against of 92% during the pandemic period. The urban-rural differences were particularly wide during the pandemic period. Further, although smaller proportion, there were about 7-9% of the children who received food from AWC only on some days and another 1-2% never received food from AWC. Overwhelmingly, higher proportions of the children consumed food given to them by the AWC, however, there were about 9.3% of the children who did not consume the food ever received, whereas, 7.9% during the pandemic period. Relatively higher percentages of children in rural areas reportedly did not consume food they received from AWC.

Table 5.6: Children under age six years attended/registered with Anganwadi center (AWC) ever and during pandemic, received and consumed food given by the AWC by place of residence, Pune (2020-21)

Indicator	in Press	Ever		D	uring name	low!-
F.RR LEWIS A.	Urban	Rural	Combined	Urban	uring pand	
Child ever attended/registered			combined	Orban	Rural	Combine
No	41.5	14.7	30.7	49.0	22.4	
Yes	58.5	85.3	69.4		23.1	38.6
Child ever got food from AWC		00.0	03.4	51.0	76.9	61.5
No	14.2	12.8	13.5	5.9	0.0	
Yes	85.8	87.2	86.5		9.8	7.9
No. of children below 6 years	200	136	336	94.1	90.2	92.1
Frequency of food from AWC		130	330	198	134	332
Almost everyday	51.5	56.9	54.2	40.5		Lightst tend
Most of the days	40.8	28.4	34.6	49.5	59.8	54.7
Some days only	7.8	10.8		42.6	31.4	37.0
Rarely / Never	0.0	3.9	9.3	6.9	8.8	7.9
Child consumed food	0.0	5.9	2.0	1.0	0.0	0.5
No	4.9	13.7	0.2			
Yes	95.2	86.3	9.3	5.9	9.8	7.9
Child ever received food from AWC	103		90.7	94.1	90.2	92.1
Main reason not attending AWC	103	102	205	101	103	204
Unaware of ICDS / AWC	2.4	5.3	2.0			The state of the state of
No ICDS in the village/area	0.0	0.0	3.0	2.7	0.0	2.0
No staff at the AWC	0.0		0.0	0.0	3.9	1.0
AWC too far	0.0	0.0	0.0	0.0	0.0	0.0
No facility at the AWC		0.0	0.0	1.3	19.2	5.9
Too many children at the AWC	0.0	0.0	0.0	0.0	0.0	0.0
Family did not allow	13.4	0.0	10.9	14.7	0.0	10.9
Child too small	1.2	5.3	2.0	2.7	0.0	2.0
Child refused to go	59.8	57.9	59.4	62.7	30.8	54.5
ear of getting infection	0.0	0.0	0.0	0.0	3.9	1.0
Other reasons	3.7	10.5	5.0	8.0	15.4	9.9
	19.5	21.1	19.8	8.0	26.9	12.9
lo. of children did not attend AWC	83	20	103	83	53	136





For the children who did not attend/registered with AWC, information was collected on the main reason. It may be noted about 3% of the cases (2.4% in urban areas and 5.3% in the rural areas) mothers reported that their child was never registered with the ICDS as they were unaware of the ICDS/AWC. However, 59.4% of the cases, mother felt that their child was 'too small' to go to the AWC. The main reason for child not attending the AWC during pandemic was slightly different. For example, 2.7% of urban mothers told that their child did not attend AWC during the pandemic as they were unaware of the ICDS. 54.5% of the mothers informed that their child did not attend AWC during pandemic as the child was 'too small'; much higher in the urban rural areas (62.7%) than the rural areas (30.8%). The other reasons reported for child not attending during the pandemic were — child refused to go (1%), fear of getting infection (9.9%), too many children at the AWC (10.9%) and AWC too far (5.9%). The percentages of mother reporting 'Fear of getting infection' was 5% in case of never attended AWC.

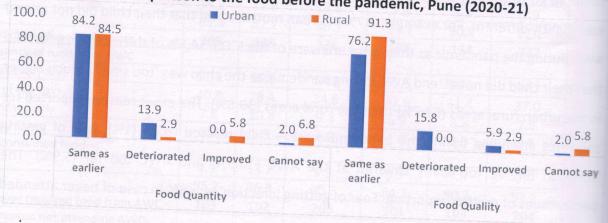
Table 5.7 provides results of perception of mothers about change in quantity and quality of food and other services given by the AWC during the pandemic. 84.3% and 83.5% of the mothers expressed that the quantity as well as quality of the food has remained same as it was earlier (76-84.2% in urban areas and 84.5-91.3% in the rural areas). 2.9 -4.4% of mothers expressed the quality and quantity of food served has improved during the pandemic.

countity and quality of the food has deteriorated during the pandemic. 4.4-4.9% of mothers were not able to comment anything on this. With respect to the other services, only 5.4% felt that the other services have reduced/deteriorated; mostly in urban area (10.9%).

Table 5.7: Perception of mothers on change during pandemic in comparison to the pre pandemic period in the quantity and quality of food served and other services provided by the ICDS during the pandemic, Pune (2020-21)

Characteristics	11.de	E.84100	united.
Change in the quantity of food served	Urban	Rural	Combined
Same as earlier			
Deteriorated	84.2	84.5	84.3
Improved	13.9	2.9	8.3
Cannot say	0.0	5.8	2.9
Change in the quality of food served	2.0	6.8	4.4
Same as earlier			
Deteriorated	76.2	91.3	83.8
Improved	15.8	0.0	7.8
Cannot say / NA	5.9	2.9	4.4
Quantum of other services provided	2.0	5.8	3.9
Same as earlier	nwall cent	Away	
Deteriorated	82.2	83.5	82.8
Improved	10.9	0.0	5.4
Cannot say / NA	3.0	10.7	6.9
No. of children attended during	4.0	5.8	4.9
No. of children attended during pre and pandemic periods	101	103	204

Figure 5.7: Perceptions of mothers regarding quantity and quality of food from ICDS during the pandemic in comparison to the food before the pandemic, Pune (2020-21)



# 5.4 Contacts with health worker during the pandemic

The health or ICDS workers are required to visit the household in the area under their service jurisdiction and monitor various aspects of the health of women and children, provide information related to health and family welfare, counsel and motivate women/mothers to promote better practices and deliver other selected services as needed. These visits work as catalyst and enhance the credibility of services and inculcate client faith in the public health delivery system. The results on the mother's contact with the health and ICDS workers are provided in the Table 5.8.

#### For child vaccination

About 96% of mothers (93.2% in the rural areas) reported that the ASHA and about half (50.9%) of the mothers reported that the ANM them for child vaccination during the pandemic. The Anganwadi worker (AWW) visited about 6.2% of the mothers for the same. However, there were 4% mothers (higher in the rural areas – 5.3%) who said that no one from the system visited them for child vaccination during the pandemic. 84% of mothers contacted as ASHA for help with child vaccination during the pandemic; higher in the urban areas (90%) than the rural areas (72.7%). 98.6% of mothers who reached out to ASHA for help, received the help.

**Solution** 5.8: Health worker(s) visited mother, mother contacted ASHA for vaccination related solutions and type of help ASHA provided during the pandemic, Pune (2020-21)

Indicator	Vaccination			Child health care		
	Urban	Rural	Combined	Urban	Rural	Combined
Health worker visit						
No one	2.8	5.3	3.7	5.8	3.7	5.4
TWW	6.2	53.7	22.3	5.0	44.4	12.2
ANM	50.9	73.2	58.4	40.8	44.4	41.5
4SHA	95.9	93.2	94.9	87.5	96.3	89.1
No. of mothers/ No. of children	219	117	336	120	27	147
Mothers contacted ASHA for help						
No State and toly	10.1	27.4	16.1	5.8	14.8	7.5
les	90.0	72.7	83.9	94.2	85.2	92.5
Ma. of mothers / ill children	219	117	336	120	27	147
ASHA helped mother		- North St	100000			ing.
No	2.0	0.0	1.4	2.7	0.0	2.2
les .	98.0	100.0	98.6	97.4	100.0	97.8
Time of help ASHA provided						
Gave medicine				86.4	60.9	82.0
arranged vehicle to go to facility				0.9	0.0	0.8
mpanied to facility				10.0	0.0	8.3
Take advice		5000		97.3	91.3	96.2
Other help				0.9	0.0	0.8
matthers contacted ASHA for help	197	85	282	110	23	133

#### health care

87.5% in urban areas and 96.3% in the rural areas. In 12.2% and 41.5% cases, AWW respectively visited children's households for child health care related matters the pandemic. However, 5.4% children were not visited by any grass root level worker the pandemic. This percentage was considerably higher in the urban areas as to the rural areas (5.8% versus 3.7%). 92.5% of mothers reached out to ASHA for

help related to the care of their ill child and except 2% cases, ASHA helped mothers when they contacted. In 8.3% of the cases, ASHA accompanied mothers to the health facility for health care of the ill children. Further, 82% of mothers reported that ASHA gave them medicines and fewer of 1% of mothers reported that ASHA arranged for transport to go to health facility with ill child.

Figure 5.8: Health worker / ASHA contact with mothers for child vaccination and child health during the pandemic, Pune (2020-21)



## 5.5 Experienced difficulties in getting vaccination or child health care services

Table 5.9 provides data on mother whether mothers experienced any difficulty in seeking vaccination of their children and/or health care for their ill child during the pandemic encouraging to note that 96-98.6% of the mothers did not face any difficulty during pandemic related to these aspects. However, about 4% of the mothers each reported the

they encountered difficulties in seeking vaccination of children and 1.4% for treatment of ill child. The mothers were further asked about the nature of difficulty. Out of thirteen mothers who faced difficulties in vaccinating their children, 61.5% faced difficulties die to COVID-19 pandemic related and 38.5% due to Non-COVID-19 related. And, 50% of the mothers (all in the urban areas) attributed difficulties in seeking care for ill child to the pandemic related reasons.

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Table 5.9: Cases when mothers faced difficulties in getting the child vaccinated or health care for ill children and the nature of difficulties experienced by place of residence, Pune (2020-21)

No   95.0   98.3   96.1   98.3   100.0   98.6	Indicator	Difficulties related to vaccinating child				vaccinating child		Difficulties relate treatment of ill c	
No         95.0         98.3         96.1         98.3         100.0         98.6           Yes         5.0         1.7         3.9         1.7         0.0         1.4           No. of children / No. of ill children         219         117         336         120         27         147           Nature of difficulties due to         63.6         50.0         61.5         50.0         0.0         50.0           Non-COVID19 related         36.4         50.0         38.5         0.0         0.0         0.0           No. mothers faced difficulties         11         2         38.5         0.0         0.0         0.0	Faced difficulties during	Urban	Rural	Combined		Combined			
Yes         95.0         98.3         96.1         98.3         100.0         98.6           No. of children / No. of ill children         219         1.7         3.9         1.7         0.0         1.4           Nature of difficulties due to         219         117         336         120         27         147           COVID19 pandemic related         63.6         50.0         61.5         50.0         0.0         50.0           No. mothers faced difficulties         11         38.5         0.0         0.0         0.0	No.						Combined		
No. of children / No. of ill children         5.0         1.7         3.9         1.7         0.0         1.4           Nature of difficulties due to         219         117         336         120         27         147           COVID19 pandemic related         63.6         50.0         61.5         50.0         0.0         50.0           No. mothers faced difficulties         11         38.5         0.0         0.0         0.0		95.0	98.3	96.1	00.2	100.0			
No. of children / No. of ill children       219       117       336       120       27       147         Nature of difficulties due to       63.6       50.0       61.5       50.0       0.0       50.0         Non-COVID19 related       36.4       50.0       38.5       0.0       0.0       0.0         No. mothers faced difficulties       11       0.0       0.0       0.0       0.0	Yes	5.0			98.3	100.0	98.6		
Nature of difficulties due to         330         120         27         147           COVID19 pandemic related         63.6         50.0         61.5         50.0         0.0         50.0           No. mothers faced difficulties         11         20         38.5         0.0         0.0         0.0	No. of children / No. of :II abit I		1./	3.9	1.7	0.0	1.4		
COVID19 pandemic related         63.6         50.0         61.5         50.0         0.0         50.0           No. mothers faced difficulties         11         0.0         0.0         0.0         0.0	Material No. of III children	219	117	336	120	27			
Non-COVID19 related         36.4         50.0         61.5         50.0         0.0         50.0           No. mothers faced difficulties         11         2         38.5         0.0         0.0         0.0					120	21	14/		
Non-COVID19 related 36.4 50.0 38.5 0.0 0.0 50.0 0.0 No. mothers faced difficulties 11 0.0 0.0 0.0 0.0 0.0	COVID19 pandemic related	63.6	FOO	64.5					
No. mothers faced difficulties 14 30.0 38.5 0.0 0.0 0.0				61.5	50.0	0.0	50.0		
Thousand the state of the state		36.4	50.0	38.5	0.0	0.0			
11 2 13 2 0 2	nothers faced difficulties	11	2	13					

# **Chapter 6**

# Utilization of contraceptive and menstrual services by the women

## Chapter 6:

# Utilization of contraceptive and menstrual services by the women

to space or limit number of children they want to have and the time when they want to a child. This chapter presents information on ever and current use of contraceptive methods (including traditional methods), sources of obtaining contraceptive methods during method, choice of place for obtaining the methods, difficulties experienced in obtaining the modern, side effects of the method and money spent on method during the most recent time methods of family planning. The modern methods included Sterilization (male or female), materine device/Post-partum intrauterine device (IUD/PPIUD), Injectable (including methods used by the couple. The traditional methods included Standard days method used by the couple to delay/avoid pregnancy. The information was collected method used by the method used by her and/or her spouse/partner.

e same chapter, we have also discussed if the menstruating women suffered from any strual problem during the pandemic and whether they sought treatment for the problem the reason in case they did not seek treatment for the menstrual problem they suffered.

## **E1** Ever and current FP users

their husband never did something/used a method to delay/avoid pregnancy (Table The remaining 21.8% said they/their husband ever used a method to delay/avoid pregnancy. Significantly higher percentages of urban women than the rural women (24.4% 18.2%, respectively) ever used a method to delay/avoid pregnancy. The information on method use was collected from the non-pregnant women. A total of 398 of the 500 men interviewed were not pregnant at the time of data collection. Of these non-pregnant men, about 30% women were using a method to delay/avoid pregnancy at the time of the non-pregnant women in urban areas method to delay/avoid pregnancy than those in the rural areas (33.5% as

against of 25.3%).

#### Currently use: modern methods

28% of the respondents used female sterilization and None of the women reported use of male sterilization in urban as well as rural areas. Further 6.8% of the couples used IUD/PPIUD The percentage of respondents who used IUD/PPIUD is considerably higher in the rural areas (9.3%) than the urban areas (5.3%). About 7% of the couples were currently using Oral pill and 50.4% couples are using Condom (nirodh). Oral pill use is more common among the couples in the urban areas (8%) than in the rural areas (4.8%). However, Condom is considerably higher used in urban areas 54.7% and rural areas 42.9%. little more than 5% of the couple (7.1% in rural areas and 4% in urban areas) reportedly use injectable to delay/avoid pregnancy. 5.2% of the couple used female condom. Only 1.7% were using standard days method (2.7% in urban area and no one in rural area) to avoid/delay in pregnancy.

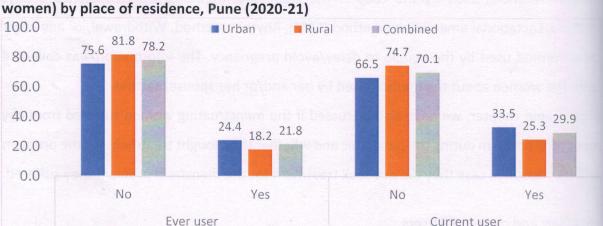


Figure 6.1A: Family planning use - Ever users and Current users (out of non-pregnant

Figure 6.1B: percent distribution Current users by method by place of residence, Pune (2020-21)

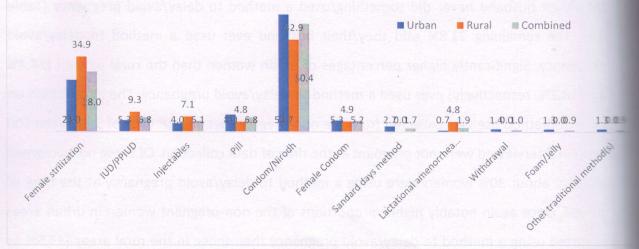


Table 6.1: Ever and current users of family planning method and method currently used by place of residence, Pune (2020-21)

Indicator	Urban	Rural	Combined
Ever used anything to delay/avoid pregnancy			Combined
No No	75.6	81.8	78.2
Yes continued and to act to be primariled and an inter-	24.4	18.2	21.8
Number of women	291	209	500
Currently using anything to delay/avoid pregnancy			300
No. a lingue had enjoyed forum to remain summer summer	66.5	74.7	70.1
Yes	33.5	25.3	29.9
Number of women currently not pregnant	224	174	398
Method currently using			330
Female sterilization	24.0	34.9	28.0
Male sterilization	0.0	0.0	0.0
IUD/PPIUD	5.3	9.3	6.8
injectable (Anthara)	4.0	7.1	5.1
Oral Pill	8.0	4.8	6.8
Condom/Nirodh	54.7	42.9	50.4
Female condom	5.3	4.9	5.2
Diaphragm	0.0	0.0	0.0
Foam/Jelly	1.3	0.0	0.9
Standard days method	2.7	0.0	1.7
Lactational amenorrhea method	0.0	0.0	0.0
hythm method	0.0	0.0	0.0
Mithdrawal	0.0	0.0	0.0
Other traditional method(s)	1.3	0.0	0.0
Other modern method(s)	0.0	0.0	0.9
of women currently using a method	75	44	119

### Currently use: traditional methods

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amone in

the data shows that the traditional methods are relatively less common in the study area. Lout 2% of the couples (all in the urban areas and none of reported in rural areas) reported using standard days method. Fewer of 1% couples (all in the urban areas) use other traditional method to delay/avoid pregnancy. None of the women reported using Lactational amenorrhea method, rhythm method, withdrawal method and any other modern method to the lay/avoid pregnancy.

## **Sterilization use during pandemic**

6.2 provides information on the timing of sterilization (before or during pandemic), acce of sterilization, choice of place for sterilization, money spent on sterilization and cash accentive received for sterilization by the women who underwent sterilization during the sandemic by place of residence. Out of the 33 users of sterilization (both male and female),

60.6% had been sterilized before pandemic, that is, before March 1, 2020. The remaining 39.4% got sterilized during the pandemic, that is, between March 1, 2020 and survey date. Considerably higher proportion of women in the urban areas (50%) than the rural areas (26.7%) informed that they got sterilized during the pandemic. 46.2% of the couples were sterilized at a public health facility and the remaining at a private health facility including NGO/charitable trust hospitals. Slightly higher percentages of rural couples had sterilization done at a private health facility.

Table 6.2: Timing of sterilization, place of sterilization, choice of place for sterilization, money spent on sterilization and cash incentive received for sterilization by the women who underwent sterilization during the pandemic by place of residence. Pupe (2020-21)

Indicator	Urban	Rural	Combined
Timing of sterilization	Orban	Nulai	Combined
Before pandemic (Before March 1, 2020)	50.0	73.3	60.6
During pandemic (March 1, 2020 or later)	50.0	26.7	39.4
No. of women using sterilization (male+female)	18	15	33.4
Place of sterilization during pandemic	10	13	33
Public Health Facility including Anganwadi	44.4	50.0	46.2
Private Health Facility incl. NGO/Trust & Others	55.6	50.0	53.9
Place of sterilization same as preferred place normally	33.0	30.0	33.9
No	11.1	0.0	7.7
Yes	88.9	100.0	92.3
Money spent on sterilization	00.5	100.0	92.5
Free	55.6	25.0	46.2
Up to 1500	11.1	25.0	15.4
More than 1500	11.1	0.0	7.7
Do not remember	22.2	50.0	30.8
Median money spent	1750	1000	
Received incentive for sterilization	in part of the	1000	1500
No	90.0	75.0	85.7
Yes .	10.0	25.0	
No. of couples got sterilized during pandemic	9	4	14.3 14

Although the place of sterilization during pandemic was same as the usual place of choice for majority of the couples (92.3%), 7.7% of the couples (all in the urban areas) reported that the place where they had their sterilization done was not a usual place of choice. 46.2% of the women reported that they did not spend any money on sterilization. Notably higher percentage of women in the rural areas (55.6%) compared to the urban areas (25%) did not spend any money on sterilization. However, 7.7% reported that they spent more than rupees 1500; much higher in the urban areas (11.1%) and in rural areas (0%). The median money spent on sterilization was rupees 1500. 14.3% of woman received cash incentive of rupees

for sterilization, higher percentage of women in the rural areas (25%) and urban (10%).

There is did not receive any incentive by the time data was collected.

## Modern spacing method use during pandemic

difficulties faced in obtaining the method during the pandemic by place of residence. The suggest that of all current users of modern spacing methods, 33.7% had started using method before March 1, 2020 and remaining 66.3% started using method during method during method during method before March 1, 2020 and remaining 66.3% started using method during method during method before March 1, 2020 and remaining 66.3% started using method during method during method before March 1, 2020 and remaining 66.3% started using method during method during method before March 1, 2020 and remaining 66.3% started using method during method

ted to use method during the pandemic. The women were further asked about the place where they received the method the last time. Among the user, 86% reported that they are the method the last time from a public health facility (including ICDS), 10.5 % got it the private health facility including NGO/Charitable trust hospitals or medical shop etc.

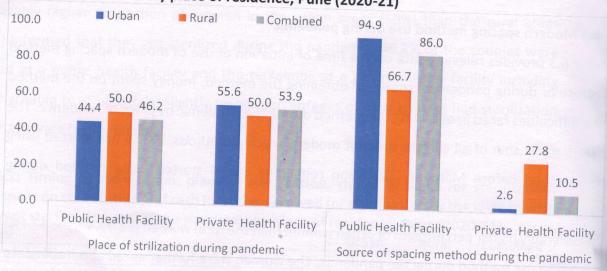
make 6.3: Timing of initiation of modern spacing method, source of obtaining the method, money spent on the method and difficulties faced in obtaining the method during the method by place of residence, Pune (2020-21)

Indicator	Urban	Rural	Combined
Initiation of use of modern spacing method	Orbair	Nulai	Combined
Before pandemic (Before March 1, 2020)	31.6	27.0	22.7
During pandemic (March 1, 2020 or later)	68.4	37.9	33.7
User of modern spacing methods at the time of survey	57	62.1	66.3
Place obtained the method the last time	37	29	86
Public Health Facility including Anganwadi	94.9	66.7	96.0
arrivate Health Facility incl. NGO/Trust & Others	2.6	27.8	86.0
Sband/Friends/Relatives/Others	2.6		10.5
Money spent on sterilization	2.0	5.6	3.5
Free	92.3	66.7	04.2
Some money spent	2.6	5.6	84.2
Do not remember	5.1		3.5
Experienced difficulty in getting method	3.1	27.8	12.3
No setting of the telephone () and the first of the first	100.0	100.0	100.0
fes		100.0	100.0
o. of couples obtained method during pandemic	0.0	0.0	0.0
pandemic method during pandemic	39	18	57

34.2% of the women did not spend any money on the method as they got it for free, however, did spend some money. None of the women reported experiencing any difficulty in

obtaining the method during the pandemic, true for urban and rural areas as well.

Figure 6.2: Place of sterilization and source of modern spacing method for most recent use during the pandemic by place of residence, Pune (2020-21)



# 6.4 Side effects of method used during pandemic

Women did not experience any side effect of the method they use during the pandemic. Same in urban and rural areas.

## 6.5 Reason for current non-use of FP

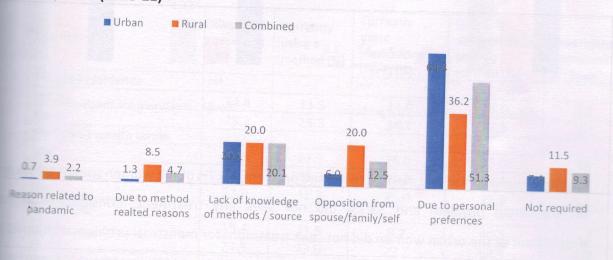
Table 6.5 provides information on reason for not using any family planning at the time of survey by place of residence. We have presented the results in the six broad categories of reasons related to pandemic, method related reasons, lack of knowledge of method and/or source of obtaining the method, opposition from family, spouse or self, due to personal preferences or not required. Pandemic related reasons included – non availability of services, fear of infection if go to hospital, difficulty in reaching facility, non-availability of transport, non-availability of staff, restrictions on movement etc. The method related reasons included – pain/bleeding after use of method, health problems, fear of side effects, lack of access, cost of method, difficulty/inconvenience in getting/using the method, interference of the method with normal processes of the body. Opposition to use method included opposition by woman herself, husband, other family members, religious prohibition. Personal preferences included – do not like existing methods, afraid of sterilization/method. Not required included - want to have child, not having sex, infrequent sex, husband away, up to God, menopause, hysterectomy, sub-fecund/infecund, post-partum amenorrhea.

data shows that 51.3% women reportedly did not use a method due to personal did not use a method by 'not required' (9.3%). 20% of women (same in the rural and urban did not use a method as they lack knowledge about method and/or sources for the method. Further, 12.5% of the women (6% in urban areas and 20% in rural reported nonuse due to method related reasons or opposition from spouse/self. Only 2.2% women reasoned nonuse due to pandemic conditions.

6.4: Reason for currently not using any method to delay/avoid pregnancy by place of mediance, Pune (2020-21)

Indicator	Urban	D1	
lesson related to pandemic		Rural	Combined
The tended to parideffile	0.7	3.9	2.2
Due to method related reasons	1.3	8.5	4.7
of knowledge of methods / source	20.1	20.0	
accosition from spouse/family/self			20.1
to personal preferences	6.0	20.0	12.5
	64.4	36.2	51.3
lot required	7.4	11.5	9.3
of non-users	149		
The state of the s	143	130	279

6.3: Reasons (in %) for currently not using family planning method by place of medice, Pune (2020-21)



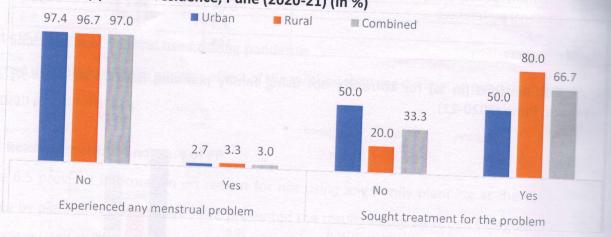
# Menstrual problems and treatment seeking during pandemic

definition of the current menstruation status of the women, their perience of any menstrual problem, type of menstrual problems experienced and ment seeking, and the reason for not seeking treatment for menstrual problem during and the place of residence. Of 398 non-pregnant women, 76.1% were menstruating at time of survey. Three percent of the menstruating women experienced any menstrual mental mental mental areas.

Table 6.5: Experience of any menstrual problem, type of menstrual problem and treatment seeking during pandemic by place of residence, Pune (2020-21)

Indicator Comments	Urban	Rural	Combi
Currently menstruating	oan	Nulai	Combined
No	INC. 26. Desire	EE S. SPULL	
Yes	32.6	12.6	23.9
No. of women	67.4	87.4	76.1
Experienced any menstrual problem during pandemic	224	174	398
No			
Yes	97.4	96.7	97.0
No. of menstruating women	2.7	3.3	3.0
Sought treatment for the menstrual problem	151	152	303
No No		AP REFERENCE	
Yes	50.0	20.0	33.3
No. experienced menstrual problem during pandemic	50.0	80.0	66.7
problem during pandemic	4	5	9

Figure 6.4: Women experiencing menstrual problem and treatment seeking during pandemic by place of residence, Pune (2020-21) (in %)



Among those who had any menstrual related problem, 66.7% of the women sought treatment for menstrual problem and 33.7% did not seek any treatment. Considerably higher proportions of the urban women did not seek treatment for menstrual problem compared to the rural women (50% versus 20%). Three women who did not seek treatment for menstrual problem during pandemic reported that the problem 'was not severe' and one woman in the urban areas did so as her family did not allow them to go outside due to fear of COVID19 infection.

# 6.7 Selected indicators by background characteristics

Table 6.7 provides information on a few indicators by the background characteristics of the women. Higher percentages of women from urban area, belongs to rich households, older

and treatment

Combined
23.9
76.1
398
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3.0
303
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9

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women and women from other backward caste ever used or currently using a method to delay/avoid pregnancy than their counterparts in other groups. Ever or current use was higher among women with low education. Use of sterilization was higher among women belongs to middle economic households, from rural area, those aged 35 years or older, among Hindu and Christian women, those from scheduled castes and other backward classes and among those who had less education compared to their respective counterparts. In contrast, spacing method use was more common among urban areas, women from rich households, younger women, general castes and those with higher education.

As far as menstruation related problem is concerned, women from rural area, from low economic status, belong to 25-34 years' age cohort, follower of Hindu religion, belongs to scheduled caste and with less than five years of schooling reported higher experience of menstrual related problems than their respective counterparts.

Table 6.6: Percentages of ever user, current users, users of sterilization, modern spacing methods, and women experienced menstrual problem during pandemic by place of residence, Pune (2020-21)

Characteristics	Ever used a method (%)	Currently using a method (%)	Currently using sterilization	Currently using modern spacing	% experienced menstrual
Place of residence			(M+F) (%)	method (%)	problem
Urban	24.4	33.5	24.0	700	
Rural	18.2	25.3	34.1	76.0	2.7
Household wealth tertile		23.3	34.1	63.6	3.3
Low	16.8	22.9	25.0	75.0	
Medium	24.7	36.2		75.0	3.5
High	23.9	31.3	31.9	68.1	2.1
Woman age	20.5	31.3	25.0	72.5	3.2
15-24	15.3	21.5	0.7		
25-34	24.5	33.0	9.7	90.3	0.9
35-49	38.7	46.7	29.7	68.9	4.8
Woman religion	30.7	40.7	57.1	42.9	0.0
Hindu	21.4	30.5	27.2		
Muslim	13.3	22.2	27.2	71.8	3.5
Christian	50.0	25.0	0.0	100.0	0.0
Other religions	23.1	27.9	100.0	0.0	0.0
Woman caste	23.1	27.9	25.0	75.0	0.0
Scheduled castes	23.6	29.7	24.0		
Scheduled tribes	30.6	38.7	31.8	68.2	5.8
Other backward castes	28.3		50.0	50.0	0.0
Others (General castes)	18.0	39.1	25.9	70.4	1.8
Woman education	10.0	25.9	22.4	77.6	3.0
5 years	22.2	30.5			
	22.2	38.5	60.0	40.0	12.5

5 to 9 years	16.7	22.2	90.0	10.0	0.0
10 to 12 years	19.9	27.4	22.8	77.2	3.7
More than 12 years	26.2	35.6	17.0	80.9	1.9
Overall	21.8	29.9	27.7	71.4	3.0