Engendering Evidence-Based Policy for Young People's Reproductive Health in India

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MEASURE Evaluation

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CONTENTS

rigures	6
Tables	6
Abbreviations	7
Executive Summary	8
Introduction	10
Background	10
Rationale	10
Overview of the Literature	11
Reproductive Health Policy for Young People	11
Delivery Mechanisms for Reproductive Health Care	11
Role of Private and Voluntary Sectors in Delivery of RH Care	11
Knowledge, Attitudes, and Practices Related to RH among Young People	12
Gender Differences	12
Research Questions	12
Methods	14
Results	16
Profile of Study Districts	16
Policy Framework	16
The National Adolescent and Youth Reproductive Health Policy Framework and Implementation Programs	16
Counseling and IEC on AYRH and Other Health Issues	19
District-Level AYRH Implementation Programs	19
State-Level AYRH Programs	
KAP Study among Young People	26
KAP Respondents' Demographics	26
Discussion of Important Issues	26
Family Life Education	27
Seeking Health Services	28
Gender Discrimination and Violence	29
RTIs, STIs, and HIV	30
Puberty and Menstruation	32
Conception and FP	33

Pregnancy and Delivery	36
Discussion	38
Policy Agenda and Implementation	38
Adolescent Reproductive Health Care for Youth	39
KAP Study	40
Limitations	42
Recommendations	43
Conclusion	44
References	45
Appendix 1. Schedule for KAP Study	48

FIGURES

Figure 1. Study respondents	14
TABLES	
Table 1. Summary of data requirements for the study	15
Table 2. Age and sex disaggregation of young study respondents	26
Table 3. Knowledge and practices related to discussions with parents and friends	26
Table 4. Attitudes toward family life issues	27
Table 5. Source of knowledge on family life education	27
Table 6. Family life education	27
Table 7. Topics that should be included in family life education	28
Table 8. Attitudes and practices toward adolescent health services	29
Table 9. Attitudes toward and experience with gender-based discrimination or violence	29
Table 10. Knowledge of and experience with RTIs/STIs	30
Table 11. Knowledge of HIV/AIDS	31
Table 12. Knowledge of HIV prevention	32
Table 13. KAP related to puberty and menstruation	33
Table 14. Knowledge and attitudes about conception and pregnancy	34
Table 15. Knowledge about contraception	34
Table 16. Experience with antenatal care and delivery	36

ABBREVIATIONS

ASHA accredited social health activist

AYRH adolescent and youth reproductive health
AYUSH Ayurveda, Unani, Siddha and Homeopathy

CHC community health center

DLHS District-Level Household Survey

FP family planning

IEC information, education, and communication

IFA iron folic acid

IIPS International Institute for Population Sciences

IUD intrauterine device

JSSK Janani Shishu Suraksha Yojana

JSY Janani Suraksha Yojana

KAP knowledge, attitudes, and practices
MOHFW Ministry of Health and Family Welfare

MTP medical termination of pregnancy
NFHS National Family Health Survey
NGO nongovernmental organization

NHM National Health Mission
PHC primary health center

RCH reproductive and child health

RBSK Rashtriya Bal Suraksha Karyakram

RH reproductive health

RKSK Rashtriya Kishor Suraksha Karyakram

RMNCH+A Revised Maternal, Newborn and Child Health Plus Adolescent Strategy

RTI reproductive tract infection

SABLA Rajiv Gandhi Scheme for Empowerment of Adolescent Girls

STI sexually transmitted infection

TFR total fertility rate

UNFPA United Nations Population Fund

USAID United States Agency for International Development

WHO World Health Organization

EXECUTIVE SUMMARY

Background: Young people, defined by the World Health Organization (WHO) as people 10–24 years old, account for more than a quarter of India's population (2014). The country has the opportunity to harvest economic and social gains from its young, working-age population if it invests in human capital development and overcomes such challenges as poor education and healthcare, gender discrimination, and lack of access to adolescent and youth reproductive health (AYRH) care.

Objectives: This research aimed to provide evidence for policymakers on the strengths and weaknesses of the health policy framework; service delivery mechanisms; and knowledge, attitudes, and practices (KAP) of 10- to 24-year-olds related to reproductive health (RH) in India. The specific aims were to reveal the gender differences in KAP related to RH.

Methods: The research incorporated exploratory and descriptive approaches, using qualitative and quantitative data from primary and secondary sources. Data sources were document review; 37 key informant interviews; questionnaires; and observations of policymakers, policy implementers, and service providers from public and private sectors. Multistage, stratified random sampling was used to select states, districts, health facilities, schools, and respondents. Policy-related data were collected from 23 key informants at the national level in two randomly selected northern states—Rajasthan and Uttar Pradesh—and in one randomly selected district in each state. In each district, two villages were selected. From each village, 25 in-school and 25 out-of-school young people were selected to participate in the study. A total sample of 230 respondents, with an equal proportion of males and females, was selected for the study.

Findings: Given the number of policies, programs, and schemes aimed at RH launched at the national and state levels in recent years, the Indian government has acknowledged the importance of AYRH and is committed to attaining improved health outcomes for young people. The KAP study revealed that very few respondents recognized the importance of family life education. Most of the respondents discuss puberty and bodily changes with friends and peers and mental health issues with parents. Over 10 percent of 10- to 14-yearold males believed that gender discrimination and violence are acceptable in the family. Both male and female respondents across all age groups agreed there should be a minimum legal age for marriage. Fewer than onequarter of 20- to 24-year-old female respondents were aware that menstruation is a normal part of development, and most female respondents reported that their main source of information on menstruation was their mother. All the female respondents lacked awareness of reproductive tract infections (RTIs) or sexually transmitted infections (STIs), and less than 50 percent of males were aware of them. Knowledge of HIV was less than 15 percent among females and less than 30 percent among boys, and both exhibited several misconceptions about HIV transmission. No more than half of the respondents knew about conception. More females were knowledgeable about family planning (FP) than males; however, awareness was less than 50 percent among both females and males. The main sources of information were friends and peers among females, and spouses or friends among males. Hospitals were mentioned most often as a place to procure contraceptives. Most respondents discussed FP issues with friends, and less than 15 percent discussed these issues with their spouses.

Recommendations: Family life education should be compulsory in all schools, starting at age 10. It should include a curriculum that incorporates issues related to puberty, menstruation, mental health, RTIs and STIs, HIV, contraception, violence and gender discrimination, and nutrition. Broadcast media programs that address RH issues should be designed to inform parents about and involve them in discussions about RH issues. Mental health and adolescent health counselors should be posted in schools. The education and health

departments need to partner to design and implement long-term engagement strategies for RH that both involve students and their parents.

INTRODUCTION

Background

India is home to nearly 18 percent of the world's population, according to the Census 2011 (Office of the Registrar General & Census Commissioner, India, 2011). The State of World Population 2016 pegged the total population of India at more than 1.3 billion, of which 28 percent falls in the 10- to 24-year olds age bracket (United Nations Population Fund [UNFPA], 2016). (WHO refers to 10- to 19-year-olds as adolescents and to 10- to 24-year-olds as young people [WHO, 2014]; the United Nations refers to 15- to 24-year-olds as youth.) ¹

India stands at the threshold of the demographic dividend,² which is likely to peak in the next decade, yielding the opportunity for the country to harvest the gains from its working-age population in the 15- to 64-year-old age group (Ministry of Finance, Government of India, 2017). Attaining the demographic dividend requires investments in human capital, comprising education and health (including RH), expansion of livelihood opportunities, and a conducive policy environment (UNFPA, 2014). However, young people face numerous challenges, such as dropping out of school, poor healthcare, unemployment, discrimination, deprivation of human rights, and lack of access to RH information and care. They confront issues such as child marriage, adolescent pregnancy, low use of modern contraception, lack of sexual education, vulnerability to HIV, gender-based violence, mental health problems, female genital mutilation, and malnutrition (Every Women Every Child, 2015; UNFPA, 2014, 2016). If the young population continues to wrestle with these challenges, payouts from the demographic dividend will be seriously undermined.

Adolescent and youth RH has floated to the top of the international policy agenda, and increasingly, organizations such as UNFPA, WHO, and the United States Agency for International Development (USAID), with global strategies such as Every Woman Every Child, are working with the governments of developing countries to uplift the status of AYRH and maximize the gains from the demographic dividend.

Rationale

The discourse on the demographic dividend is almost euphoric. Economic growth in the near future will be fueled by the working population. To turn rhetoric into reality, it is imperative for the Indian government to invest in human capital development. This requires a dedicated effort to engage in holistic development of young people through interventions in the areas of education, health (including RH and mental health), gender equity, livelihood promotion, and assertion of human rights.

Globally, the process of forming policies is becoming more evidence based. Research on the policy implementation and service delivery mechanisms related to RH can serve as inputs to the policy process. Yet few studies examine the effects of this policy process, including implementation mechanisms, on the KAP related to RH issues among young people. This research lies at the cusp of public policy, management, and social research and aims to address this gap in conceptual and empirical studies.

Economic, political, and academic reasons aside, adolescents are the future of the country and are therefore intrinsically important to India's development. Gender disparities in Indian society, economics, and politics

¹ This definition arose in the context of preparations for the <u>International Youth Year</u> (1985).

² Since 2018, India's working-age population (people between 15 and 64 years of age) has grown larger than the dependent population—children ages 14 or below and people above 65 years of age. This bulge in the working-age population is going to last till 2055, or 37 years from its beginning.

need to be pushed to the attention of policymakers, so that suitable policy interventions can be designed and implemented to eliminate gender inequity.

Overview of the Literature

This research encompasses five broad thematic areas related to young people's RH: policy, delivery of care mechanisms, integration of the role of private for-profit providers and the nongovernmental organization (NGO) sector, KAP related to young people's RH, and gender differences. This section presents an overview of the literature on these thematic areas.

Reproductive Health Policy for Young People

Until a few years ago, the Indian government's policy on RH largely focused on curbing population growth and preventing HIV. Consequently, the target groups for the Reproductive and Child Health (RCH) Programme were children up to the age of five years and married women of reproductive age (15–49 years). Young people, particularly unmarried boys and girls, remained largely out of the policy net. The health needs and challenges specifically faced by adolescents were not separately addressed through any policy framework apart from school health programs. Moreover, social, cultural, and religious factors overshadow discussions of RH issues in open spaces in India (Population Action International, 2002). Jejeebhoy and Santhya (2011) presented a comprehensive review of policies, laws, and programs launched during the past two decades related to young people's RH. Apart from this, hardly any research has been done on the policy framework and delivery mechanisms for young people's RH care in India. Moreover, recent policies announced by the Government of India, such as the National Health Mission (NHM), Reproductive, Maternal, Newborn, Child, and Adolescent Health (RMNCH+A) Strategy³ (Ministry of Health and Family Welfare [MOHFW], 2013), and the National Health Policy 2017, signal that young people's RH is gaining ground as a public policy issue. Thus, the first research gap that this study identified was the imperative to analyze the policy framework for young people's RH in India.

Delivery Mechanisms for Reproductive Health Care

There are several gaps in the implementation of interventions that deliver RH care to young people, such as inadequate reach, implementing interventions that have proven to be ineffective, piecemeal approaches, insufficient duration of interventions, and insufficient inputs for the interventions (Chandra-Mouli, et al., 2015). In the Indian context, the District-Level Household Survey (DLHS) collects data related to RCH infrastructure and use of services across the country (International Institute for Population Sciences [IIPS], 2010). However, the coverage of this survey is limited to RCH, therefore, the findings are not suitable for illustrating the service delivery mechanisms and infrastructure related to RH among the 10- to 24-year-old age group. The second research gap that this study identified was the lack of studies on the effectiveness of service delivery mechanisms for young people's RH.

Role of Private and Voluntary Sectors in Delivery of RH Care

The government, private sector, and NGOs deliver RH care, either individually or through collaborative arrangements such as public-private partnerships. Most publications we reviewed (Baru & Nundy, 2008; Venkat Raman & Björkman, 2009; Singh & Prakash, 2010) on public-private partnerships in health service delivery in India cover various aspects of health and not RH exclusively. A study by Peters, et al. (2004) found a lack of rigorous research designs and impact evaluations on RH activities in the private sector. The third

³ RMNCH+A is an initiative run by the Government of India. It does not receive funding or other support from USAID.

research gap is the lack of concrete evidence on the roles and integration of private providers with NGOs and voluntary organizations in RH.

Knowledge, Attitudes, and Practices Related to RH among Young People

Adolescence must be understood as a period of biological, psychological, and behavioral changes. In developing countries, many adolescents initiate sexual activity at an early age because of early marriage. Knowledge and use of contraception are low among this age group. This has repercussions in terms of greater risk of HIV and STIs, early pregnancy, unwanted childbearing, abortion, and sexual violence (Hindin & Fatusi, 2009). Women and adolescents, particularly in developing countries, suffer the most from RH problems (Glasier, et al., 2006). Policies and programs do not serve the RH needs of adolescents well (Jejeebhoy, 1998). Very young adolescents (10- to 14-year-olds) form a critical link between childhood and adolescence/adulthood, yet this group has been largely ignored by policy (Igras, et al., 2014).

In India, national-level household surveys such as the National Family Health Survey-4 (NFHS-4) (IIPS, 2016) and the DLHS (IIPS, 2010) are conducted every few years to collect data related to RCH. NFHS-4 surveys women ages 15–49 years on their demographic profile and knowledge and experience with the following: FP, maternal and child health, child survival, HIV, STIs, RH, and nutrition. The DLHS-3 focuses on maternal health, and RCH. It covers ever-married women ages 15–49 and unmarried women ages 15–24. The focus of these surveys is RCH, and consequently does not sufficiently address issues related to young people's RH.

Several KAP studies have been conducted with young people related to various aspects of RH. For instance, a study on urban adolescent schoolgirls in Delhi found inadequate levels of knowledge of STIs, HIV, and contraception (McManus & Dhar, 2008). As they become older, young people ages 10–24 discuss RH issues more among themselves, and their personal hygiene practices improve (Nair, et al., 2013a). Another study found that men and women in the 15–24 age group had knowledge of contraception, legal age of marriage, infertility, and male sperm determining the sex of the child. However, respondents overwhelmingly expressed a need for adolescent care services and facilities for counseling (Nair, et al., 2013b). In developing countries, including India, adolescent girls are apprehensive about menstruation, and menstrual practices are shrouded with social myths and taboos (Chandra-Mouli & Patel, 2017; Chothe, et al., 2014; Drakshayani & Venkata, 1994). The fourth research gap identified relates to the lack of KAP studies on RH among young people, including married and unmarried, males and females.

Gender Differences

According to India's 2011 census, although the overall sex ratio in India is 943 women per 1000 men, it is even more unequal for young people, with the worst ratio of 884 for the 15- to 19-year-old age group. In the Human Development Report, India ranks 131 out of 188 countries, with the Gender Development Index pegged at 0.819 and the Gender Inequality Index at 0.530 (United Nations Development Programme, 2016). The gender disparity in human development is starkly visible in India. Studies find gender-based constraints with respect to knowledge and use of RH care (Nair, et al., 2013a, 2013; Pande, et al., 2006). The fifth research gap we addressed is understanding the gender differences in KAP related to RH among young people.

Research Questions

This research aimed to provide evidence on the effectiveness of existing policies and programs for young people's RH in India. The goal of the research findings is to inform AYRH policies and practices so the country can realize the gains from the demographic dividend over the next decade. To that end, this research

proposed to study the policy framework, care mechanisms, and KAP related to RH among the population ages 10–24 years in India. This research addressed the following questions:

- 1. How effective is the policy framework for young people's RH?
- 2. How effective are the service delivery mechanisms, such as the health system infrastructure, supplies, implementation of young people's RH programs by health workers, access to care, and RH programs in schools?
- 3. How effectively are the roles of the private and voluntary sectors integrated with RH policies and care?
- 4. Among 10- to 24-year-olds, what are the KAP related to various aspects of RH, including relationship with parents, family life education, adolescent-friendly health services, substance abuse, gender discrimination and violence, age at marriage, menstruation, RTI or STI, HIV, contraception, reproduction, abortion, antenatal care, delivery, and neonatal care?
- 5. What gender differences exist in program implementation and KAP?
- 6. What evidence could be provided to policymakers and stakeholders to enable the effective design and delivery of policy interventions related to young people's RH with a focus on gender equity?

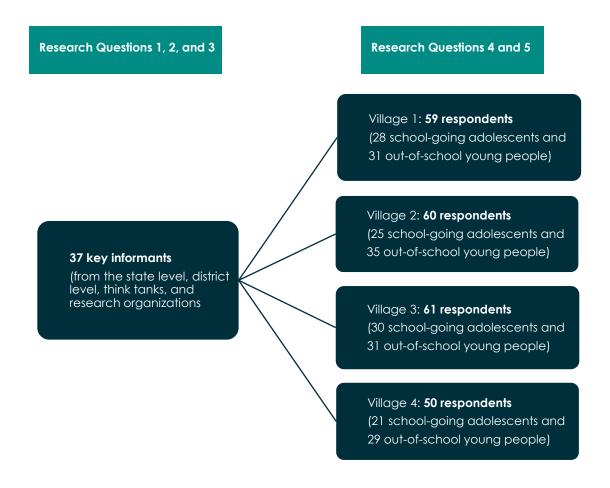
METHODS

This research used exploratory and descriptive approaches, sourcing qualitative and quantitative data from primary and secondary sources. Multistage, stratified random sampling was used to select states, districts, health facilities, schools, and respondents. Policy-related data were collected from 37 key informants at the state and district levels and from think tanks and research organizations.

Among India's 29 states, we randomly selected Rajasthan and Uttar Pradesh, which are categorized as "High Focus Non-North East States" in the NHM. Both are situated in the northern part of the country. Pakistan borders Rajasthan to the northwest and Nepal borders Uttar Pradesh to the northeast.

One district was randomly selected in each state: Rajsamand District, in Rajasthan State, and Hathras District, in Uttar Pradesh State. In both districts, rural female literacy is lower than the state average. In each district, two villages were selected, each with a school that included class 12 (i.e., XII standard, or high school). From the four villages, 104 school-going and 126 out-of-school young people ages 10–24 years were selected as respondents for the study. The former were selected through simple random sampling, with the sample drawn from the school registers, and the latter were selected through snowball sampling in the nearby village. A total sample of 37 key informants and 230 survey respondents, with an equal proportion of males and females, was selected for the study (Figure 1).

Figure 1. Study respondents



Questionnaires, observation checklists, and schedules (i.e., interviewer-directed questionnaires) were developed or modified from existing schedules (Table 1).

Table 1. Summary of data requirements for the study

	Research Question 1	Research Questions 2 & 3	Research Questions 4 & 5	Research Question 6
Subject matter of research question	Effectiveness of the RH policy framework	Effectiveness of service delivery mechanisms and effectiveness of the role of the private sector and NGOs in RH	KAP related to various aspects of RH; gender differences in RH	Evidence related to AYRH to serve as policy input
Dataset required	Policy and strategy documents	Physical infrastructure (health facilities, schools), supplies (e.g., condoms, educational materials), issues related to service delivery faced by health workers, access	KAP related to various aspects of RH	Research findings related to Research Questions 1–5
Data source/ respondents	Key officials from ministries, government departments, and policy agencies at the national and state levels—such as the MOHFW; state health departments, directorates, missions, societies, and other nodal agencies; think tanks; and research organizations	Observation of physical facilities such as hospitals, health centers, and schools in cities and villages	Males and females in the 10- to 24-year- old age group in schools and community	
Type of data	Primary and secondary; qualitative and quantitative	Primary and secondary; qualitative and quantitative	Primary data; quantitative	
Data collection methods and tools	In-depth interviews using checklists and questionnaires	Observation checklist and questionnaires	Schedule filled in through personal interviews	
Number of respondents	37 key informants from state health departments, district-level officials, think tanks, and research organizations	37 key informants as stated in Research Question 1	230 respondents (104 school going and 126 out-of-school young people)	

A schedule for the KAP study was prepared and translated into Hindi. The following null hypothesis was worked out:

H₀: There is no significant difference between males and females in KAP related to RH.

We checked the quantitative data collected through schedules for accuracy. After entering the data into an Excel spreadsheet, the data were exported to SPSS (a statistical analysis software) for further analysis. The data were summarized through descriptive statistics. We computed inferential statistics to establish the relationships among the variables and make inferences from our data to the general population.

RESULTS

Profile of Study Districts

The public health infrastructure of Rajsamand District, in Rajasthan State, comprises seven blocks,⁴ 12 community health centers (CHCs), 44 primary health centers (PHCs), 260 subcenters,⁵ one district hospital, and one subdistrict hospital. Hathras District, in Uttar Pradesh State, has seven blocks. It is not a high-priority district and has few sanctioned health posts.

Policy Framework

The National Adolescent and Youth Reproductive Health Policy Framework and Implementation Programs

This section pertains to Research Questions 1 and 2, assessing the effectiveness of various AYRH policies at the national and state levels, as perceived by the key informants. The all-encompassing policy framework was provided by the NHM, National Health Policy 2017, and RMNCH+A. The national policy contains a number of aspects related to AYRH, such as health clinics serving adolescents; life skills education; counseling; nutrition; information, education, and communication (IEC); and menstrual hygiene. The policy also includes three national AYRH-related programs: Rashtriya Bal Suraksha Karyakram (RBSK) or National Child Security Programme, Rahtriya Kishor Swasthya Karyakram (RKSK) or National Adolescent Health Programme, and Janani Shishu Suraksha Karyakram (JSSK) or the Mother Child Security Programme.

National Health Policy

India's National Health Policy 2017 is based on the Sustainable Development Goals and aims to attain "the highest possible level of health and well-being for all at all ages, through a preventive and promotive healthcare orientation in all developmental policies, and universal access to good-quality healthcare services" through improved quality and lower cost (MOHFW, 2017). The policy was designed to be implemented through national health programs and interventions: RMNCH+A, child and adolescent health, universal immunization, malnutrition and micronutrient diseases, communicable diseases, noncommunicable diseases, mental health, and population stabilization.

To improve maternal and child health outcomes, the policy recommends strengthening health systems to manage maternal complications, ensuring continuity of care and emergency services, and addressing the social determinants of health. To enhance child and adolescent health outcomes, the policy recommends home-based and facility-based care of sick newborns; screening and treating childhood diseases, defects, and disabilities; implementing a school health program; and focusing on mental health and nutrition. To reduce micronutrient deficiencies and malnutrition, the policy recommends screening for deficiencies, dietary diversification, micronutrient supplementation such as iron folic acid (IFA), and convergence with other ministries or departments such as Human Resource Development, Women & Child Development, and Food and Civil Supplies. Other issues related to AYRH addressed by the policy include HIV and mental health.

The policy promotes integration within the health system, which was initiated through the NHM, and recognizes the long-term benefits of investing in adolescent health. Consequently, the current policy

⁴ A block is a rural area administratively earmarked for development. It comprises several villages.

⁵ A subcenter is the lowest level of healthcare. It is a peripheral outpost of the Indian healthcare system. One subcenter caters to the needs of 5000 people in general and 3000 people in hilly, tribal and rural areas.

environment in India is more supportive of interventions that are directed toward the human capital development of the young population.

NHM

Started in 2005, the present form of NHM comprises two submissions: the National Rural Health Mission and the National Urban Health Mission. NHM's comprehensive goals are aimed at reducing the maternal mortality rate, infant mortality rate, total fertility rate (TFR), anemia, communicable and noncommunicable diseases, out-of-pocket expenditure on health by households, tuberculosis, leprosy, malaria, microfilaria, and kala azar (NHM, 2014a). NHM provides an overarching institutional framework for the implementation of health policy in India. It has carried out the gigantic task of eliminating fragmentation within the health system into urban versus rural and health versus family welfare. It has established itself as a strong platform for implementing healthcare with supportive human resources and infrastructure. RMNCH+A has been incorporated in India's health policy as a component of NHM.

RMNCH+A

All the programs and schemes that were implemented under the RCH Programme Phase II have been incorporated (MOHFW, 2013). Launched in 2013, RMNCH+A articulates the importance of addressing health needs at all stages of the life cycle and recognizes adolescence as a critical stage linking childhood and motherhood. Thus, for the first time in the history of India's health policy, RMNCH+A recognizes adolescents as a distinct group. The goals of RMNCH+A are congruent with those of NHM and aim to reduce the infant mortality rate, maternal mortality rate, and TFR. The specific targets are to increase the number of service delivery points; proportion of institutional deliveries and deliveries conducted by skilled birth attendants; proportion of women receiving antenatal and postnatal care; coverage of diphtheria, tetanus, and pertussis immunization; and use of oral rehydration salts. The targets aim to promote exclusive breastfeeding, improve the child sex ratio, and reduce the following: proportion of underweight children, unmet need for FP, adolescent pregnancy, and anemia among adolescents.

Previous policies and programs, such as the RCH policy, focused on married women of reproductive age. The earlier policy framework excluded married and unmarried women in the 10- to 14-year-old age group, unmarried women in the reproductive age group, and men of all ages. RMNCH+A eliminated the vertical health program approach, for which the Indian public health system had been heavily criticized on the grounds that it failed to achieve synergies. RMNCH+A, and subsequently other programs such as RBSK and RKSK, provide the gamut of comprehensive and integrated health services to address the health needs of client groups at different life stages, namely, adolescence/prepregnancy, pregnancy, birth, newborn/postnatal, and childhood.

For adolescents, RMNCH+A interventions cover nutrition, life skills education, menstrual hygiene, IEC, counseling on AYRH and other health issues, and preventive health check-ups and screening.

RMNCH+A interventions related to pregnancy and childbirth include preventive use of folic acid in the periconception period, antenatal care and tracking high-risk pregnancies, skilled obstetric care, emergency obstetric and newborn care, essential newborn care and resuscitation, postpartum care for mother and baby, postpartum intrauterine device (IUD) and voluntary sterilization, and implementation of the Preconception and Prenatal Diagnostic Techniques Act.

RMNCH+A interventions for newborns and children include home-based newborn care and referrals, facility-based care of sick newborns, child nutrition and essential micronutrient supplementation, integrated management of common childhood illnesses (pneumonia, diarrhea, and malaria), immunization, and child

health screening and early intervention services. RMNCH+A interventions designed for the reproductive age group include contraceptive distribution, promotion of child spacing methods, voluntary sterilization services, comprehensive abortion care, and RTI/STI management.

Nutrition

For adolescent nutrition, RMNCH+A's school and community-based interventions are supplemented by the SABLA⁶ scheme under the Ministry of Women and Child Development and the Ministry of Human Resource Development's Mid-Day Meal Programme,⁷ which are primarily aimed at promoting nutrition among children and adolescents. Under the National Iron+ Initiative, adolescents and women who are pregnant and lactating are to receive red IFA tablets; those who are not receive blue ones. Weekly IFA supplementation is supposed to be distributed to 10- to 19-year-old girls and women in and out of school. IFA tablets are to be provided either through the school or through the Kishori Balika Programme (Adolescent Girls Program) operated by Anganwadi Centers,⁸ where other nutritional services are provided: screening for anemia, biannual deworming through albendazole, and counseling/IEC related to nutrition.

The present strategy provides nutrition education and counseling to the 10- to 18-year-old age group at the community level through existing platforms such as Village Health and Nutrition Day, Kishori Diwas (Adolescent Girls' Day), and Anganwadi Centers. The strategy incorporates nutritional education in the school curriculum in both study states. Supplementary nutrition or fortified food is to be provided to students through the midday meal scheme. The medical department is supposed to inspect the quality of meals periodically. According to Jean Dreze and Aparajita Goyal, in Uttar Pradesh, children are free to bring lunch from home, and many children avoid taking the midday meal because they do not like to be perceived as "poor" (Goyal & Dreze, 2003).

Adolescent Health Clinics

Key informants reported that adolescent health clinics were functional at all health facilities at the CHC level and above. These clinics operated daily and provided comprehensive counseling services. Though the clinics were specifically for adolescents (13- to 18-year-olds), they also provided services to 10- to 12-year-olds, if required. In Rajasthan, the clinics were known as *Ujala* ("light" in Hindi) clinics.

Life Skills Education Program

RMNCH+A envisages operating a life skills education program in school and community settings to cover issues related to AYRH, gender discrimination, gender-based violence, noncommunicable diseases, mental health, substance abuse, and healthy lifestyles (MOHFW, 2013).

⁶ The Rajiv Gandhi Scheme for Empowerment of Adolescent Girls, or SABLA, was launched in 2010 across 200 districts in India. It aims to empower adolescent girls ages 11–18 by improving their health and nutritional status and developing their life and vocational skills. The scheme is implemented through the existing network of Anganwadi Centers, which operate under the Integrated Child Development Scheme (Ministry of Women and Child Development, 2010).

⁷ Started in 1995, the National Programme of Mid-Day Meal in Schools provides cooked meals to children from classes I to VIII in all government schools, government-aided schools, and other schools for a minimum of 200 days per year.

⁸ Started under the Integrated Child Development Scheme in 1975, Anganwadi Centers are rural childcare centers in India. They primarily provide supplementary nutrition and preschool activities. Anganwadi workers collaborate with public health workers to deliver basic healthcare, referrals, and immunization to women and children.

Counseling and IEC on AYRH and Other Health Issues

A peer educator approach was introduced through RMNCH+A to sensitize client groups to health issues, stress, anxiety, conflicts, and healthy relationships. Subsequently, peer educators have been subsumed under RKSK. According to key informants, the approach has yet to be implemented at the ground level in either state. Health workers have been trained to screen and refer young people addicted to alcohol, tobacco, and drugs to addiction centers. Community-level functionaries, such as teachers, Anganwadi workers, auxiliary nurse midwives, and *preraks* (motivators), have been trained to screen, counsel, and refer young people on mental health issues, such as anxiety, stress, depression, and suicidal tendencies. During the 48-hour stay at a health facility following an institutional delivery, RKSK calls for mothers to be counseled on postpartum FP methods, such as IUD and voluntary female sterilization.

Menstrual Hygiene

According to the recent policy, to promote menstrual hygiene, 10- to 12-year-old girls are to be given information about menstruation and menstrual hygiene and provided sanitary napkins at PHCs and higher-level health facilities. Key informants reported that in Rajsamand, sanitary napkins are available in schools and Anganwadi Centers and are sold by accredited social health activists (ASHAs); in Hathras, sanitary napkins are distributed through schools and not health facilities.

District-Level AYRH Implementation Programs

RKSK

Launched across 231 districts in 2014, RKSK addresses the 9- to 18-year-old age group and is present in facilities and the community. Its objectives are to improve access and availability to adolescent health information, enhance access and use of counseling and health services for adolescents, and create a safe and supportive environment for adolescents through multisectoral partnerships. It has six strategic priority areas: injuries and violence (including gender-based violence), noncommunicable diseases, RH, substance abuse, mental health, and nutrition. These are to be implemented through the seven critical components, or the "7Cs": coverage, content, communities, clinics (health facilities), counseling, communication, and convergence (RKSK, 2014).

RKSK provides IFA supplementation every week and six sanitary pads every month to girls studying in classes six through eight. The program revamped the former Village Health and Nutrition Day as Adolescent Health Day, which is to be observed quarterly. (RKSK, 2014)Peer educators9 will soon be deployed in 10 high-priory districts to improve the program's reach among adolescents. Key informants reported that peer educator training was provided for district-level officers. The pilot for peer educators was carried out in Bundi and Jalore Districts, but had not yet been carried out in Rajsamand District. The program plans to establish adolescent-friendly health clinics at various health facilities. It envisages that as an individual grows from childhood to adolescence, he or she will graduate from RBSK, which is the first point of contact with the health system, to RKSK. The program is built on the model of converging RKSK with other MOHFW programs and with other ministries and departments, including the Ministry of Youth Affairs and Sports, Ministry of Human Resource Development, Ministry of Women and Child Development, Ministry of Labour and Employment, and Ministry of Social Justice and Empowerment. The National Steering Committee for

⁹ Girls and boys will be selected as peer educators and trained by teachers in schools and by ASHAs and auxiliary nurse midwives in community settings. They will provide counselling and referrals for both in- and out-of-school adolescents.

Adolescent Health and Development, State Committee for Adolescent Health, and District Committee for Adolescent Health provide overall coordination and ensure RKSK's smooth functioning RKSK, 2014).

RBSK

Since 2014, RBSK has been covering the "4Ds"—defects at birth, deficiencies in nutrition, diseases, and developmental delays, including disabilities—among children up to 18 years of age. Babies are first screened at the time of delivery. The second screening, which looks for deformities, is done by ASHAs through home-based newborn care, from 48 hours of birth and up to six months. Children from newborn to six years of age are screened at Anganwadi Centers. If these screenings identify specific conditions, the children are referred to the district's early intervention center located at the district hospital. According to the RBSK policy document, those ages 6–18 years are to be screened at schools and inter-colleges, and if necessary, are referred to public health facilities by a mobile health team composed of two Ayurveda, Unani, Siddha and Homeopathy (AYUSH)¹⁰ doctors, a male and a female doctor; an auxiliary nurse midwife, or staff nurse; and a pharmacist, paramedical staff, or ophthalmic assistant (RBSK, 2015).

Key informants reported that in Hathras, a mobile health team consisting of a male doctor, a female doctor, an optometrist, and a staff member visited the schools and screened around 120 students in one day. The children were screened for 38 diseases, of which nine were most common. The health reports were posted through an online portal to the nodal officer or district for the early intervention center manager. Medicines for common problems such as cough, cold, abdominal pain, and otitis media were distributed on the spot. Children with more serious problems were referred to a CHC or district hospital. The outpatient department for children was organized every Saturday at the CHC. Lectures and counseling sessions on menstrual hygiene and RH were held for female teachers and girl students from classes six to 12 only (i.e., middle school through high school). In Hathras, RBSK was implemented both at the community and facility levels. However, it covered only government schools, not government-aided schools (privately owned schools that receive grant-in-aid from the government).

Janani Suraksha Yojana (JSY)

Launched in 2005, JSY (Safe Motherhood Plan) aims to improve the number of institutional deliveries and reduce maternal and infant mortality. Under this scheme, ASHA-Sahyoginis¹¹ and clients who deliver at government health facilities or private hospitals recognized by the government are provided financial incentives by the government. In rural areas, an ASHA-Sahyogini is given Rs.300 (about US\$4) for providing antenatal care and facilitating institutional delivery. Clients are paid Rs.1400 (about US\$20) for institutional delivery. In urban areas, the ASHA-Sahyoginis are paid Rs200 (about US\$3) for antenatal care and institutional delivery and clients are paid Rs.1000 (about US\$14) for institutional delivery. Women living below the poverty line are provided Rs.500 (about US\$7) for home deliveries. For pregnant women, ASHA-Sahyoginis should provide three antenatal care checkups, tetanus immunizations, IFA tablets, and facilitate institutional deliveries. Postdelivery, mothers are encouraged to stay the standard 48 hours at the health facility (MOHFW, 2015a).

JSSK

According Janani Shishu Suraksha Karyakram, JSSY (Mother and Child Security Program) launched in 2011 by the Government of India to promote safe motherhood and newborn care by providing free services: institutional delivery, round-trip transportation from home to health facility, meals to mothers during the 48-

¹⁰ AYUSH doctors are the doctors in alternative systems of medicine, namely, Ayurveda, Unani, Siddha, and Homeopathy.

¹¹ ASHA-Sahyoginis (Accredited Social Health Activist-Sahyoginis) are health workers who assist Anganwadi workers and auxiliary nurse midwives in implementing health and nutrition programs.

hour postpartum stay at the health facility, and treatment of sick newborns for a period of 30 days from birth (NHM, 2014a). Free treatment and referral transport were also provided to sick infants up to the age of one year (MOHFW, 2015b).

State-Level AYRH Programs

The AYRH program in Rajasthan State is implemented through the Department of Family Welfare, which functions under the aegis of the Directorate of Medical and Health Services of the Government of Rajasthan (Directorate of Medical Health & Family Welfare Society, Government of Rajasthan, 2018). The Family Welfare Programme's objectives are population stabilization, prevention of infant mortality, and prevention of maternal mortality. Key informants reported that there was a strong convergence among the family welfare, health, and education departments to implement the School Health Programme. The Department of Family Welfare collaborates with the Department of Women and Child Development to implement the Anganwadi program.

According to a gynecologist working in the district hospital in Hathras, ambulance service and 24-hour emergency care were available at most health facilities. ¹² In hospitals with adequate infrastructure, trained doctors were authorized to carry out medical termination of pregnancy (MTP), although there was a shortage of doctors and labor rooms to perform the procedure. Key informants reported that up to eight weeks of pregnancy, the procedure could be done at a CHC. After eight weeks of pregnancy, the procedure was often referred to the district hospital—although in Hathras, the procedure was available in the district hospital only, owing to infrastructure challenges. Clients received about US\$4 for MTP. ASHAs received about US\$2 as an incentive for each case of surgical termination of pregnancy and about US\$3 for each MTP. However, often ASHAs referred these cases to private hospitals because private hospitals might pay higher incentives.

In-depth interviews with stakeholders revealed that FP counseling and methods were available in state facilities. Permanent methods included voluntary female sterilization (laparoscopy and the less-common minilaparotomy) and no-scalpel vasectomy for men. However, stakeholders reported that the latter procedure accounted for only 1.4 percent of the total sterilization cases conducted in Rajasthan State during 2017–2018. In Hathras, stakeholders reported that sterilization was available only in the district hospital. Nonpermanent methods available in government health facilities include the five- and 10-year acting IUD, injectables, contraceptive pills, emergency contraceptive pills, and male condoms. Other FP methods, such as implants and the patch, were available from the private sector. In-depth interviews in Rajasthan revealed that injectables were only available at the PHC level in the 13 districts with high TFR. To fulfill the unmet need for contraception, the government had enhanced contraceptive availability at each level of the health system from subcenters to district hospitals.

Key informants reported that in 14 districts with a high TFR, which included Rajsamand, monetary compensation ranging from Rs.2000 to Rs.3000 (about US\$28 to \$42) was provided by the state government to clients adopting a permanent method from a government health facility. Incentives were provided as well to the person (i.e., motivator or referral agent) who brought the FP client to the facility, ranging from Rs.300 to Rs.400 (about US\$4 to \$6). In these 14 districts, stakeholders reported that registered private hospitals and NGOs were provided monetary compensation for implant insertion, conducting voluntary sterilization (Rs.3500; about US\$49), voluntary postpartum sterilization (Rs.4000; US\$56), and IUD insertion (Rs.75; about US\$1). According to interviewees, the client did not pay user charges and received Rs.1000 (about US\$14) for accepting an IUD. ASHAs received about US\$2 for each IUD provided to one of their clients. Antara, a newly

Evidence-Based Reproductive Health in India

¹² These facilities are supported by the Government of India, as are the service providers, including the FP counselors. They do not receive USAID funding.

introduced injectable, was provided at subsidized cost (about US\$1.36) to the FP client with an equal amount paid to the ASHA for motivating the client.

According to key informants, insurance coverage, ranging from Rs.25,000 to Rs.200,000 (about US\$353 to \$2,825), was provided in case of failure, complications, or death of the client related to their contraceptive method. Institutional awards were also provided at the state, district, and individual level to those government health facilities, private hospitals, NGOs, or Panchayats,¹³ with the highest performance in their family welfare program and postpartum IUD insertion. (Subsequently, IUD is a common choice for postpartum women.) Rajsamand District holds the distinction of conducting the maximum number of postpartum IUD insertions in the entire state in 2017–2018.

Key informants reported that women living below the poverty line were entitled to free coupons for five liters of ghee¹⁴ from authorized dealers, to promote institutional deliveries.

The state government is implementing several schemes for improving the sex ratio among the 0- to 6-year-old age group, such as the Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994 Act, IEC messages based on the *beti bachao* ("save the girl child") theme, and other schemes for strengthening the status of girl children (Government of India, 1994). Under several of these schemes, direct cash transfers are provided to beneficiaries. A Mother and Child Health and Nutrition Day is organized monthly at subcenters, Anganwadi Centers, and other locations (Directorate of Medical Health & Family Welfare Society, Government of Rajasthan, 2018).

According to key informant interviews, Rajasthan is the first state to implement the online Pregnancy, Child Tracking, and Health Services Management System. This system is used for name-based online tracking and monitoring of mother-and-child health services, such as antenatal care, delivery, postpartum care, and postnatal care. All subcenter health reports are compiled, uploaded by PHCs, and sent to the state-level on a monthly basis.

Key informants revealed that ASHASoft software has been integrated in the Pregnancy, Child Tracking, and Health Services Management System to compute the compensation amount payable to ASHAs for provision of services such as FP, antenatal care, delivery, postnatal care, and immunization. ASHAs receive incentives for 16 programs. Key informants reported that CHCs and PHCs have also been linked to the online software system that facilitates online payments to beneficiaries under other programs.

Surakshit Matritva Diwas (Safe Motherhood Day) is observed in government facilities on the ninth of every month. High-risk pregnancies are identified and followed-up, and mothers are counseled on postpartum FP, health, and nutrition. Pregnant women are screened for HIV and syphilis at the subcenter level. Under the Home-Based Newborn Care scheme, an ASHA-Sahyogini visits the new mother and her child six or seven times over a period of 42 days. If any complications are identified, the mother and child are referred (Directorate of Medical Health & Family Welfare Society, Government of Rajasthan, 2018).

According to key informants, the district's private hospitals are working with the government to implement schemes such as the Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994, Bhamashah Yojana (scheme for health insurance for poor people), Rajshri Yojana (scheme for direct cash benefit to girl children), JSY (scheme for safe motherhood), and IUD insertion. In Hathras District, the Hausla Saajhedaari (encouragement-partnership) Project is being implemented through a partnership with private hospitals and NGOs. For example, UP Wellness Health (an NGO) works with 70 schools and colleges in Hathras to

¹³ Elected bodies of democratic decentralized governance in India.

¹⁴ Also known as butterfat, ghee is believed to provide strength and nutrition to a new mother.

promote health. At the Hathras district hospital, diagnostic services are provided through private providers. There is a de-addiction team at the district-level.

According to survey respondents, Anganwadi Centers provided weekly IFA supplements to out-of-school girls and pregnant women. These centers also organized intensive diarrhea control outreach where community members were informed through IEC. National health programs for tobacco; mental health; and noncommunicable diseases such as cancer, diabetes, and stroke were also being implemented. According to doctors in the private sector, adolescents were reporting an increase in mental health problems, such as stress, anxiety, depression, inability to cope with studies and perform in school, competition with peers, rebelling against parents, and excessive exposure to social media and mobiles, in addition to alcoholism and tobacco use. They identified the need for counseling services for adolescents, parents, spouses, and in-laws.

The survey revealed that in Hathras, Rashtriya Swasthya Bima Yojana (national health insurance scheme) was launched in 2012 for those living below the poverty line, but the program closed in 2014. In 2018, Ayushman Bharat Yojana, the national health protection scheme popularly known as ModiCare, was rolled out and is being implemented.

School Preventive Health Checkups and Screenings

According to key informants, the School Health Programme was effectively providing the following basic health services to students in classes one through 12 (i.e., elementary through high school): preventive health checkups; screening for diseases, deficiency, and disability; referral; immunization; micronutrient supplementation (IFA and vitamin A); and free deworming medication (Albendazole). However, according to an in-depth interview with a school principle, an incident occurred where several children in Hathras took Albendazole without water and fell sick, leading to sensational reporting in the media and suspicion of the drug from parents. Although girls in classes nine to 12 were provided with weekly IFA tablets, they did not take the tablets regularly, owing to a lack of awareness and myths about side-effects.

According to IDIs with school staff, at the Gram Panchayat level, 15 a school principal was designated as the Panchayat Elementary Education Officer and is responsible for monitoring and coordinating the school health program for classes one to eight. A teacher in-charge had been designated for various activities, such as distribution of IFA tablets, procurement and distribution of sanitary pads, coordination with Anganwadi Centers, provision of clean drinking water, sanitation, and the midday meal. For children with special needs both who are in school and out of school, specific teachers had been recruited and trained at the block level.¹⁶ Some teachers had been trained on adolescent health through the State Institute of Educational Research and Training.

School staff reported that health cards were issued to each student to record his or her visit and the services received. Students received a medical checkup twice per year from a team of doctors. Auxiliary nurse midwives and Anganwadi workers were not involved in the school health program.

Though, as IDIs with school staff indicated, science teachers informed children about the importance of a healthy diet, body hygiene, and related matters, there was no formal family life education program in Rajasthan schools. It was up to the teacher's discretion to discuss health issues, eliminate myths, and create awareness among students. Sometimes, topics related to superstitions, such as daayan, ¹⁷ and social problems, such as

be isolated by the community or even brutally beaten and murdered.

¹⁷ In India, a woman identified as a daayan (witch) is regarded as a bad omen or a black magician. Such women may

Evidence-Based Reproductive Health in India

¹⁵ Democratically elected body of decentralized governance at village level. A Gram Panchayat may be comprised of one to three villages.

¹⁶ A district is comprised of several Community Development Blocks, popularly known as blocks.

child marriage and the inferior role of women in society, were discussed in school assemblies. In Uttar Pradesh schools, three slots per week had been allotted to Moral Science, which covered cleanliness, hygiene, healthy diet, drugs and substance abuse, gender discrimination, etcetera. However, IDI participants reported that there were no specific topics on AYRH in the class modules.

The IDIs indicated that Whisper, a sanitary pad brand, organized a menstrual health program for girls in classes five to eight where menstrual health information was provided, and sanitary napkins were distributed directly to girl students. According to interviewees, the Rotary Club provided a sanitary pad vending machine to the girls' school in Hathras District, where girls could get a packet of three sanitary pads for Rs.10 (US\$0.14). The machine was maintained by the school. Separate washrooms for boys and girls were provided in the schools.

IDI participants also mentioned that Rajasthan schools had books and videos on child sexual abuse, but schools did not have counselors; therefore, teachers had to fill that role. Teachers also played a de facto role counseling adolescents and explaining to them how to behave according to norms of social acceptability.

Key informants reported that the Department of Education coordinated with other departments, such as the Ministry of Health and Ministry of Women and Child Development, to introduce more health-related programs and initiatives; however, these relations are fraught with problems. For instance, because referrals alone were not effective, medicines had to be provided during school health checkups. The government was being supported by NGOs and the United Nations Children's Fund to implement various health activities in schools. Although a few companies were implementing corporate social responsibility programs, these were not need based.

Counseling

The study team observed that the Rajsamand district hospital is staffed with a reproductive, maternal, newborn, child, and adolescent health counselor. Because this counselor is located in the maternal and child health wing, she is relatively inaccessible to unmarried adolescent clients. Because counseling for adolescents is almost nonexistent, adolescents are more dependent on television, film, video, and other media to fulfill their natural curiosity. However, broadcast media are insufficient to satisfy the questions and doubts of adolescents.

Key informants reported that counseling services are better in Uttar Pradesh. A team of counselors is provided at the district hospital: a male and female AYRH counselor, an FP counselor, a mental health counselor, a nutrition counselor, and an RTI/STI counselor. The female AYRH counselor works with female adolescents only and covers topics such as nutrition, hygiene, education, career advice, RH problems, menstruation, mental health, premarital counseling, stress, learning problems, violence (including sexual abuse), depression, and suicidal tendencies. According to the key informants, sanitary napkins are provided free of cost to adolescent girls who come for counseling. The number of adolescent girls visiting the counselor ranges from five to 15 per day. The counselor also visits schools and talks to students from classes eight to 12.

From the key informant interviews, we also learned that both male and female adolescents are counseled by male and female AYRH counselors, respectively, on RH, nutrition, substance abuse, mental health, and physical violence. Often, the adolescents worry about their height and growth, masturbation, nocturnal emissions, jealousy, school-related stress, and substance abuse (e.g., chewable tobacco consumption, smoking, and alcoholism). Approximately 15 male clients visit the AYRH counselor daily. Those in the 10- to 14-year-old age group were more concerned about learning problems and their studies; whereas those in the 15- to 19-year-old age group were stressed by exam pressure and family expectations.

We observed that the AYRH counseling program is nascent and grappling with several challenges. Outreach programs (such as lectures and debates) were organized in schools in 2016. However, outreach activities were not funded in the 2017 budget. According to our observations, proper monitoring and support for AYRH counseling is insufficient. There is a lack of doctors for referring clients through the AYRH counseling center, leading to improper follow-up with patients. The AYRH counselors themselves were contractual staff, who receive consolidated salary and must renew their contracts yearly. There was no synergy with the IEC teams, and the IEC material was not seen as being very useful to the AYRH counselors.

During our observations, we recorded that the FP counselor serves around 25–30 clients daily. The counselor distributes contraceptives (condoms and pills), pregnancy testing kits, and counsels on FP methods and services. Clients seeking MTP are counseled on postabortion contraception. The FP counselor thought the health facility was overcrowded, lacked privacy, and lacked funds for outreach.

A mental health counselor has been provided at the district hospital under the National Mental Health Programme. We observed a dedicated counseling room to ensure privacy, with a proper waiting room designated as *Man Kaksha* ("mind room" in Hindi), is provided at the Hathras district hospital. The hospital is also staffed with a dedicated psychiatrist and clinical psychologist.

Under the National Tobacco Control Programme, one social worker, one psychologist, and one consultant were to be appointed. However, in Hathras, we observed that the posts were still vacant.

Under the HIV/AIDS program, RTI/STI drugs are available at the district hospital, and antiretroviral drugs are available at the antiretroviral center located in the nearby city of Aligarh. Those living with HIV must travel to Aligarh to obtain antiretroviral therapy drugs for HIV treatment. However, continuity of treatment is not maintained, because the dropout rate is high and follow-up is difficult. Respondents thought it necessary to have an antiretroviral center in Hathras itself.

Policy Effectiveness

All medical services are available in the state. Use of public health services has risen at the community level. Vitamin A supplementation, weekly IFA supplementation, and midday meals are effectively provided through schools. The menstrual health and hygiene program is also running effectively. The District Coordination Committee of Rajsamand, chaired by the district collector and composed of officials from all departments in the district, meets regularly. This enables coordination among different departments.

The FP policy is proving effective, and the TFR reported by Rajsamand district was 2.4 in 2017–2018 (Directorate of Medical Health & Family Welfare Society, Government of Rajasthan, 2018). Use and quality of health services, including FP services, has improved, though the data on client satisfaction of services is lacking. Despite the slow pace of change, equity of care has also improved. The medical department alone cannot achieve the country's equity goals; it requires a joint effort among different government departments. Though funding has remained consistent over the years, the increase in the number of programs to be implemented has led to resources being spread thin and reduced effectiveness. Community participation is relatively low because programs are not demand based. It is difficult to increase interest in the national family welfare program, particularly when budgets lack funds to promote or market the programs. Awareness about health issues has greatly increased, which can be seen in the reduction of deaths caused by diarrhea and waterborne diseases. Trust in the public health system has also increased.

KAP Study among Young People

KAP Respondents' Demographics

Out of the total study respondents, slightly more than half (51.3%) were female, in the 10- to 14-year-old age range (50.4%), and out of school (54.8%) (those who had completed schooling or dropped out), as depicted in Table 2. All were from rural areas. Thirty-three respondents (14.3%) were illiterate, one was literate but not formally educated, and 196 (85.2%) were literate and had been to school.

Most respondents (198; 86.1%) were unmarried. Among the 32 married respondents, about two-thirds (21; 65.6%) had been married when they were younger than 18 years of age. Four married respondents (12.5%) belonged to the 10- to 14-year-old age group, 21 (65.6%) to the 15- to 19-year-old age group, and the remaining seven (21.9%) to the 20- to 24-year-old age group.

Table 2. Age and sex disaggregation of young study respondents

Sex		Total		
	10–14 years	15–19 years	20–24 years	n (%)
Male	59 (25.7)	38 (16.5)	15 (6.5)	112 (48.7)
Females	57 (24.8)	42 (18.3)	19 (8.3)	118 (51.3)
Total	116 (50.4)	80 (34.8)	34 (14.8)	230 (100.0)

Discussion of Important Issues

A quarter of younger males and females had knowledge of the importance of discussing important issues with parents, and about one-third of participants ages 15–19 strongly agreed with this point (Table 3). Fewer than 10 percent of males in both age groups reported discussing important issues with parents, discussing changes in their body, or discussing relationships with girls. Significantly more females than males in both age groups had knowledge of the importance of discussing various topics with parents and also engaged in these discussions. A small percentage of males and females discussed issues like pubertal changes in the body and relationships with the opposite sex.

Table 3. Knowledge and practices related to discussions with parents and friends

Knowledge about the importance of having various	Male (%)		Femo	Р	
discussions with parents	10–14	15–19	10–14	15–19 yrs	Value
	yrs	yrs	yrs		
Important issues (strongly agree)	25.4	34.1	25.2	35.8	<.414
Studies (strongly agree)	21.4	31.7	26.0	33.3	<.094
Body changes (strongly agree)	4.0	18.3	10.6	19.5	<.181
Relationships with the opposite sex (strongly agree)	3.2	11.9	0.8	12.2	<.041
Practice of discussing various topics with parents and	friends				
Important issues (strongly agree)	9.5	20.6	4.9	21.1	.000
My studies (strongly agree)	10.3	23.8	21.1	24.4	.000
Body changes (strongly agree)	1.6	7.1	3.3	7.3	.009
Relationships with the opposite sex (strongly agree)	3.2	6.4	0.8	6.5	.000

Among the boys in the 10- to 14-year-old and 15- to 19-year-old age groups, the same percentage reported discussing important issues and worries (34.4%) and academic performance (27.8%) with their older brothers or siblings. Males and females in both age groups overwhelmingly turned to a friend or companion to discuss

body changes related to growth and their relationships with the opposite sex. Among females only, a higher proportion of younger participants discussed important issues and worries with a friend or companion. In the older age group, a higher proportion of females discussed important issues and worries with an older sibling.

Table 4. Attitudes toward family life issues

Attitude toward various issues*	10–14	years (%)	15–19 years (%)		
With whom do you discuss:	Older sibling	Friend/ companion	Older sibling	Friend/ companion	
Males					
Important issues and worries	34.4	13.5	34.4	30.2	
Academic performance	27.8	14.3	27.8	34.9	
Body changes as you are growing up	9.5	32.5	14.3	46.8	
Relationships with the opposite sex	4.0	41.3	4.0	51.6	
Females					
Important issues and worries	15.6	28.5	36.9	31.7	
Academic performance	18.7	33.3	29.3	36.6	
Body changes as you are growing up	11.4	35.0	14.6	49.6	
Relationships with the opposite sex	8.9	36.6	4.1	54.5	

^{*} The P value for all was <0.000.

Family Life Education

The highest percentage of male and female respondents in each age category reported that their sister-in-law was the primary person at home providing knowledge about family life education. Teachers were identified as a common choice outside the home by nearly three times as many respondents in the older age group.

Table 5. Source of knowledge on family life education

Source of knowledge on family life education	10-14 yrs (%)	15–19 yrs (%)	P value
Primary person providing knowledge about family life			
education at home			
Mother	19.8	43.7	<0.000
Sister-in-law	46.8	53.7	<0.000
Primary person providing knowledge about family life			
education outside the home			
Teacher	12.3	34.4	<0.021

A significantly higher percentage of older male and female adolescents than younger adolescents said that it was important to receive family life education, that family life education answered many questions, and that the teacher or trainer explained the topic in an understandable way. Apart from the statement about feeling embarrassed in family life education, the group that most strongly agreed with the other five statements was the older females.

Table 6. Family life education

Strongly agree with the following statements	Male (%)		Female (%)		P
	10–14	15–19	10–14	15–19	value
	years	years	years	years	
It is important to receive family life education	10.8	18.9	10.5	27.4	<0.170
Family life education answered many questions	11.1	22.2	7.7	26.9	<0.214
Teacher/trainer explained the subject in a way I understood	8.3	13.9	7.7	19.2	<0.235

I felt embarrassed in family life education	11.1	8.3	11.5	7.7	<0.019
I felt comfortable in family life education	11.1	16.7	11.5	19.2	<0.382
I am interested in attending future family life education	18.3	15.1	19.4	22.6	<0.001
classes					

The adolescent respondents were asked what topics should be included in family life education. The human body, healthy lifestyle, and changes in human body were the most popular choices among males and females in both age categories. In the younger age groups, a small percentage (less than 3%) of participants felt the need for the following topics: HIV/AIDS, RTIs/STIs, and violence against women. Although this may be because of lack of knowledge and awareness about such topics, very few (less than 4%) of the older adolescents also felt that RTIs/STIs (and substance abuse) were not important topics to cover under family life education.

Table 7. Topics that should be included in family life education

	Males n (%)			(%)
Topics	10-14 yrs	15-19 yrs	10-14 yrs	15-19 yrs
	(n=36)	(n=36)	(n=26)	(n=25)
Human body	15 (41.7)	6 (23.1)	14 (38.9)	13 (50.0)
Healthy lifestyle	13 (36.1)	8 (30.8)	15 (41.7)	14 (53.8)
Changes in the human body	9 (25.0)	6 (23.1)	15 (41.7)	14 (53.8)
Relationships with boys and girls	2 (5.6)	2 (7.7)	2 (5.6)	2 (7.7)
HIV and AIDS	1 (2.8)	0 (0)	5 (13.9)	5 (19.2)
RTIs/STIs	1 (2.8)	0 (0)	1 (2.8)	1 (3.8)
Substance abuse	2 (5.6)	1 (3.8)	1 (2.8)	1 (3.8)
Discrimination against girls	2 (5.6)	2 (7.7)	7 (19.4)	6 (23.1)
Violence against women	0 (0)	0 (0)	6 (16.7)	6 (23.1)
Mental health issues	2 (5.6)	2 (7.7)	2 (5.7)	2 (8.0)

When the participants were asked to identify what health services are provided in schools, they identified health checkups, provision of medicine, and distribution of IFA tablets (as well as observing that the tablets are consumed). A higher percentage of boys than girls reported that health checkups and medicine were provided in schools. However, no more than 52 percent of the adolescents reported that health services are provided in schools.

Seeking Health Services

Fewer than a third (29.4%) of boys ages 15–19 years reported feeling comfortable approaching a health provider or center for issues related to body changes, compared to fewer than 6 percent of girls in the same age group. One-third (33.3%) of younger boys said they kept silent about mental health issues, while none of the older boys and none of the girls reported this. Conversely, girls were much less likely to keep silent if they were experiencing health-related issues. For males and females in both age groups, parents were the first choice and health workers were the last choice to discuss mental health-related issues. A quarter (25.4%) of the older girls, compared to less than 10 percent of the older boys, said they discuss mental-health issues with friends or peers (Table 8).

Table 8. Attitudes and practices toward adolescent health services

	Male	: (%)	Femo	ale (%)	P
Health issues	10–14 yrs (n = 62)	15–19 yrs (n = 38)	10-14 yrs (n = 54)	15–19 yrs (n = 42)	Value
Feel comfortable approaching a health provider or center for issues related to body changes	11.8	29.4	0	5.9	<0.004
Keep silent if experiencing health-related issues (e.g., changes in body and menstruation)	8.2	6.0	0.9	0	<0.068
Keep silent about mental health issues (e.g., anxiety, stress, depression, and suicidal tendencies)	33.3	0	0	0	<0.150
Discuss mental-health related issues with:					
1. Parents	33.0	38.0	42.6	45.1	
2. Friends or peers	7.0	8.5	10.4	25.4	
3. Teachers	3.5	2.8	3.5	4.2	
4. Healthworkers	0.9	1.4	0.9	1.4	

Gender Discrimination and Violence

Although the vast majority of respondents did not have attitudes supporting gender discrimination or violence, some did. The participants were asked if they strongly agreed with various statements related to gender-based discrimination or violence. No significant differences were found among the three age groups of males and females in terms of gender discrimination or violence; however, more males than females of every age group—particularly boys ages 10–14—strongly agreed with discriminatory statements. For example, 11 percent of the younger boys strongly agreed that it is okay if a husband beats his wife, although none of the females agreed with this statement (Table 9).

Table 9. Attitudes toward and experience with gender-based discrimination or violence

Strongly agree with the		Male			Female		P
following statements on gender discrimination/violence	10-14 yrs (n = 62)	15–19 yrs (n = 38)	20-24 yrs (n = 15)	10-14 yrs (n = 54)	15–19 yrs (n = 42)	20-24 yrs (n = 19)	Value
At home girls/women should eat last	13.8	8.8	8.8	6.0	7.5	2.9	0.000
Fine if girls/women get less food	11.2	5.0	5.9	0.9	2.5	0.0	0.000
Boys should get more clothes, books, and toys	11.2	7.5	2.9	0.9	2.5	2.9	0.000
Fine if husband beats wife	11.2	5.0	2.9	0.0	0.0	0.0	0.000
In my family girls/women eat last	12.1	6.2	14.7	10.3	5.0	17.6	0.000
Personal experience with ge	nder-based	discriminat	ion/violenc	е			
In my family girls/women get less food	3.3	5.0	2.9	0.9	1.2	2.9	<0.001
In my family, boys get more clothes, books, and toys	3.4	2.5	8.8	2.6	1.2	2.9	<0.002

In my family, I have seen discrimination against girls/women	4.2	2.5	5.9	2.6	1.2	0.0	<0.026
In my family, I have seen	2.6	1.2	0.0	2.6	1.2	2.9	<0.035
violence against							
girls/women							

Fewer than half of youth ages 10–24 strongly agreed that there should be a legal minimum age of marriage for boys and girls. For both males and females, those in the 15- to 19-year-old age group agreed the most with this statement (36.2% and 38.8%, respectively). Regarding a minimum age of marriage for girls specifically, the highest agreement was among females ages 20–24 years (41.2%).

RTIs, STIs, and HIV

Knowledge of RTIs/STIs was low. Only 40 percent of 20- to 24-year-old males and 21 percent of 15- to 19-year-old males had heard about these infections. None of the youngest males and none of the females in the study reported hearing about them. Television was reported to be the main source of information for RTIs/STIs by over 83 percent of the males in the two older age groups, and two-thirds of respondents in the 20- to 24-year-old age group also reported doctors and relatives/friends as sources of information. All male respondents ages 15–19 were knowledgeable that RTIs/STIs are transmitted through unsafe sex, yet fewer (83.3%) older respondents were aware of this. None of the females reported facing any RTI/STI problem (Table 10).

Table 10. Knowledge of and experience with RTIs/STIs

		Male (%)			Female (%)			
RTI/	STI Knowledge	10–14	15–19	20–24	10–14	15–19	20–24	
KII,	311 Kilowicage	yrs (n =	yrs (n =	yrs (n =	yrs (n =	yrs (n =	yrs (n =	
		62)	38)	15)	54)	42)	19)	
Hec	ard of RTIs/STIs*	0.0	21.1	40.0	0.0	0.0	0.0	
Sou	rce of information:							
1.	Television	0.0	87.5	83.3	0.0	0.0	0.0	
2.	Cinema	0.0	12.5	0.0	0.0	0.0	0.0	
3.	Newspaper/magazine	0.0	12.5	16.7	0.0	0.0	0.0	
4.	Brochure/pamphlet/poster/wa	0.0	12.5	16.7	0.0	0.0	0.0	
	Il notice							
5.	Doctor	0.0	37.5	66.7	0.0	0.0	0.0	
6.	Other facility-based health	0.0	25.0	33.3	0.0	0.0	0.0	
	worker (in the field)							
7.	ASHA	0.0	0.0	16.7	0.0	0.0	0.0	
8.	School teacher	0.0	37.5	0.0	0.0	0.0	0.0	
9.	Partner (spouse, boyfriend, or	0.0	12.5	0.0	0.0	0.0	0.0	
	girlfriend)							
10.	Relative or friend	0.0	12.5	66.7	0.0	0.0	0.0	
Aw	areness of source of RTI/STI							
1.	Unhygienic practices	0.0	37.5	66.7	0.0	0.0	0.0	
2.	Unsafe sex	0.0	100.0	83.3	0.0	0.0	0.0	
Fac	ed any RTI/STI problem							
1.	Painful urination	0.0	12.5	16.7	0.0	0.0	0.0	
2.	Ulcers/sores in genital area	0.0	12.5	0.0	0.0	0.0	0.0	
3.	No problem	0.0	87.5	83.3	0.0	0.0	0.0	

^{*} The P value was <0.002

Awareness and knowledge of HIV and AIDS was low. Among males, only 30 percent of participants in the 15–19 age group, and even fewer in the older and younger age groups, had heard about HIV and AIDS. Although females across all age groups had less awareness of HIV and how it is transmitted than their male counterparts, they also did not believe as many misconceptions about HIV transmission as the males. Television was listed as the most common source of information about HIV and AIDS.

Table 11. Knowledge of HIV/AIDS

		Male (%)			Female (%)	
HIN COLLABOR LOSS LOSS LOSS LOSS LOSS LOSS LOSS LO	10–14	15–19	20-24	10–14	15–19	20-24
HIV and AIDS knowledge	yrs (n =	yrs (n =				
	62)	38)	15)	54)	42)	19)
Heard of HIV and AIDS*	7.8	30.0	26.5	0.9	15.0	2.9
Source of information on HIV and						
AIDS	75.0	42.9	77.8	0.0	11.4	0.0
1. Television	0.0	2.9	0.0	0.0	0.0	0.0
2. Cinema	0.0	17.1	22.2	0.0	5.7	11.1
3. Newspaper/magazine	0.0	2.9	11.1	0.0	0.0	11.1
4. Brochure/pamphlet/poster/wall						
notice	0.0	5.7	0.0	0.0	0.0	0.0
5. Doctor	12.5	17.1	33.3	0.0	0.0	0.0
6. Other facility-based health						
worker	0.0	5.7	11.1	0.0	0.0	0.0
7. ASHA	87.5	48.6	33.3	12.5	14.3	0.0
8. School teacher	0.0	11.4	22.2	0.0	0.0	0.0
9. Partner (spouse or girlfriend or						
boyfriend)	25.0	20.0	44.4	0.0	5.7	0.0
10. Relative or friend	0.0	0.0	11.1	0.0	0.0	0.0
11. Workplace	0.0	2.9	0.0	0.0	0.0	0.0
12. Exhibition/mela (rural community						
fair)	0.0	2.5	0.0	0.0	7.1	0.0
13. School books						
Knowledge of source of HIV infection						
1. Unsafe sex	44.4	47.2	60.0	0.0	11.1	10.0
2. Infected mother to child	25.0	19.4	30.0	0.0	2.8	10.0
3. Transfusion of infected blood	62.5	38.9	50.0	0.0	5.8	10.0
4. Use of infected syringe	75.0	38.9	50.0	0.0	5.6	10.0
5. Shaking hands with infected	50.0	16.7	20.0	12.5	30.6	10.0
person						
6. Hugging an infected person	12.5	25.0	50.0	0.0	13.9	0.0
7. Kissing an infected person	37.5	38.9	60.0	0.0	0.0	10.0
8. Sharing clothes with infected	25.0	16.7	20.0	0.0	16.7	0.0
person						
9. Sharing food with infected	33.3	25.0	20.0	0.0	5.6	0.0
person						
10. Stepping on urine/stool of	0.0	22.2	30.0	0.0	0.0	0.0
infected person						
11. Mosquito, flea, or bedbug bites	12.5	19.4	50.0	0.0	2.8	0.0
12. Don't know	0.0	2.8	10.0	12.5	19.4	0.0

^{*} The P value is <0.003

When asked about protection from HIV transmission, again, more males than females know about modes of HIV transmission with older females and males, in general, being more knowledgeable. The group most

knowledgeable about where HIV tests are offered was 20- to 24-year-old males. None of the females had been tested for HIV, and no more than 20 percent of the males had been tested.

Table 12. Knowledge of HIV prevention

Knowledge about protection from		Male (%)			Female (%	5)
HIV transmission	10–14	15–19	20-24	10–14	15–19	20-24 yrs
	yrs (n =	(n = 19)				
	62)	38)	15)	54)	42)	
Abstain from sex	33.3	11.4	33.3	0.0	2.9	11.1
Use condom with every sex	0.0	22.9	40.0	0.0	0.0	0.0
Limit sex to one partner	25.0	31.4	50.0	0.0	8.6	0.0
Limit number of sexual partners	12.5	25.7	30.0	0.0	0.0	0.0
Avoid sex with sex workers	25.0	25.7	20.0	0.0	0.0	0.0
Avoid sex with homosexuals	0.0	14.3	20.0	0.0	0.0	0.0
Avoid sex with injecting drug users	50.0	22.9	30.0	0.0	0.0	0.0
Avoid untested blood	62.5	28.6	30.0	0.0	8.6	10.0
Avoid sharing razors and blades	25.0	22.9	50.0	0.0	8.6	10.0
with others						
Avoid getting pregnant if HIV-	37.5	25.7	40.0	0.0	0.0	0.0
positive						
Don't know	0.0	0.0	0.0	12.5	22.9	0.0
Knowledge of HIV testing places						
1. Government hospital	77.8	57.1	90.0	11.1	31.4	10.0
2. PHC	25.0	11.4	10.0	0.0	2.9	0.0
3. Subcenter	0.0	0.0	10.0	0.0	0.0	0.0
4. Voluntary counseling and	0.0	2.9	0.0	0.0	0.0	0.0
testing center/integrated						
counseling and testing center						
5. RTI/STI clinic	0.0	0.0	10.0	0.0	0.0	0.0
6. NGO hospital/clinic	0.0	0.0	10.0	0.0	0.0	0.0
7. Private hospital/clinic	37.5	17.1	30.0	0.0	5.7	0.0
Have been tested for HIV	10.0	13.9	20.0	0.0	0.0	0.0

Puberty and Menstruation

Only the female participants were asked about menstruation, given that this is still a taboo topic for boys (Table 13). Very few (3.2%) young respondents and well under half (37.3%) of the older participants knew about puberty. In all age groups, the main source of information on menstruation was the mother. Among participants in the 15- to 19-year-old age group, friends were mentioned as the second most popular source. Knowledge of menstruation as a normal, healthy part of a young woman's life was fairly low. Fewer older females (20–24 years) had knowledge that menstruation is a normal, physiological phenomenon than did females 15–19 years (22.8% versus 35.4%), yet 100 percent of all older females reported that they were having regular menstrual periods. Across all age groups, all females agreed that menstrual hygiene should be maintained. Almost an equal percentage of participants were using cloth and sanitary pads during menstrual periods, and the most common place to procure sanitary pads was the general store.

Table 13. KAP related to puberty and menstruation

		ale (%) (n	= 115)
Knowledge	10-14 yrs	15–19	20-24 yrs*
		yrs	
Knowledgeable about puberty	3.2	37.3	
Source of knowledge about puberty			
1. Mother	3.9	33.3	
2. Friend or companion	0.0	21.6	
Source of information on menstruation			
1. Mother	20.3	39.2	22.8
2. Grandmother	0.0	1.3	0.0
3. Aunt/relative	3.8	10.1	5.1
4. Friends	3.8	21.5	5.1
5. Teacher	7.6	6.3	1.3
6. Health worker	2.5	2.5	0.0
Menstrual periods are a normal part of growing up	15.2	35.4	22.8
We should keep our body clean during our menstrual periods	100	100	100
Attitude			
I feel embarrassed when I get my menstrual period (strongly agree)	37.5	25.6	11.1
Experiences and practices			
Started regular menstrual periods	80.0	91.1	100.0
Faced any problem related to menstrual periods in past three	0.0	12.8	0.05
months			
Problems faced in past three months			
1. No period	0.0	25.0	0.0
2. Painful period	0.0	75.0	0.0
3. Frequent/short period	0.0	0.0	100.0
4. Irregular period	0.0	25.0	0.0
Addressed these issues	0.0	75.0	100.0
Material used during menstrual period			
1. Cloth	43.8	45.9	52.9
2. Locally prepared napkins	18.8	21.6	5.9
· · · · · · · · · · · · · · · · · · ·	100	54.1	47.1
3. Sanitary napkins	43.8	1	
, , , ,	43.8	2.7	0.0
3. Sanitary napkins		1	0.0
3. Sanitary napkins4. Nothing		1	66.7
3. Sanitary napkins4. NothingPlace where sanitary napkins were sourced	6.2	2.7	

^{*} Respondents under the age of 19 were asked questions relating to relationship with parents, family life education, and adolescent-friendly health services. These sections were skipped for respondents in the age group 20–24.

Conception and FP

There is lack of knowledge about conception and pregnancy. Only up to half of the study participants were knowledgeable about conception. Although all the 15- to 19-year-old males knew that kissing does not cause pregnancy, only about half of the 20- to 24-year-old males knew this. None of the 15- to 19-year-old females were knowledgeable about when the fertile period is. Males reported a strong preference for a boy child and girls reported a preference for a girl child, though not nearly as strong as males' preference for a boy (Table 14).

Table 14. Knowledge and attitudes about conception and pregnancy

	Male (%)	Male (%) (n = 53)		%) (n = 61)
Conception	15–19 yrs	20–24	15–19	20–24
Conception		yrs	yrs	yrs
Knowledge about how pregnancy occurs	44.4	40.6	33.3	50.6
Kissing alone does not cause pregnancy	100.0	53.3	80.0	88.2
First time intercourse might cause bleeding	50.0	46.7	0.0	11.8
Pregnancy might occur after first intercourse	75.0	46.7	20.0	5.9
Pregnancy is possible when intercourse is halfway	75.0	40.0	0.0	5.9
between menstrual periods				
Pregnancy				
Knowledge about prenatal test/ sex determination	22.4	6.1	35.1	36.4
(n = 106*)				
Preference sex of future child (n = 106*)				
1. Boy	100.0	66.7	0.0	14.3
2. Girl	0.0	0.0	20.0	7.1
3. Doesn't matter (i.e., leaving it up to fate)	0.0	22.2	60.0	57.1
4. Up to God (i.e., is a matter of faith)	0.0	11.1	20.0	21.4

^{*} This question was asked to all the respondents above the age of 15 years.

Awareness of FP was low, with fewer than half the participants reporting an awareness of contraception. Most participants reported that their source of FP information was a spouse, partner, friend, or peer. All the respondents were aware of female sterilization, yet fewer than half of males and females were aware of other common FP methods, such as condoms, pills, injectables, and IUDs. More 20- to 24-year-old females were aware that pills and condoms can be obtained at government hospitals, pharmacies, or through an ASHA/Anganwadi worker than were males in the same age group. When asked with whom they discuss FP issues, most males overall said male friends, and an even higher percentage of females said their female friends. None of the females reported discussing FP with any type of health worker. Few said they discuss these issues with their spouses, and even fewer were currently using contraception (Table 15).

Table 15. Knowledge about contraception

	Male (%)		Female (%)	
Knowledge about contraception	15–19	20-24	15–19	20-24 yrs
	yrs	yrs	yrs	
		n=	114	
	(n=38)	(n=15)	(n=42)	(n=19)
Aware of FP	33.3	31.2	44.4	43.8
Source of FP information				
1. Mother	0.0	3.1	0.0	6.2
2. Sister	0.0	0.0	0.0	6.2
3. Spouse/partner	22.2	0.0	0.0	6.2
4. Friends/peers	11.1	28.1	44.4	25.0
5. Healthcare provider	11.1	6.2	0.0	0.0
6. Teacher/school/college	0.0	3.1	0.0	0.0
7. Doctor	0.0	3.1	0.0	0.0
8. Books/ magazines	0.0	0.0	0.0	3.1
9. Television	0.0	0.0	11.1	6.2
10. Others	0.0	0.0	0.0	3.1
Awareness of FP methods				
1. Female sterilization	100.0	100.0	100.0	100.0
2. Male sterilization	0.0	33.3	14.3	4.2

3. IUD	0.0	16.7	28.6	25.0
4. Oral pill	0.0	25.0	57.1	50.0
5. Emergency contraception	0.0	16.7	14.3	4.2
6. Injectable	0.0	8.3	28.6	33.3
7. Male condom	42.9	41.7	14.3	29.2
8. Withdrawal	0.0	8.3	0.0	4.2
Place to obtain pills or condoms				
Government hospital	0.0	9.1	42.9	54.5
2. Dispensary	14.3	9.1	0.0	4.5
3. PHC	0.0	4.5	0.0	0.0
4. Subcenter	0.0	4.5	0.0	0.0
5. Doctor	0.0	4.5	14.3	0.0
6. Nurse/auxiliary nurse midwife	0.0	4.5	0.0	0.0
7. ASHA/Anganwadi worker	28.6	22.7	0.0	27.3
8. Home visit by health worker	0.0	4.8	0.0	0.0
9. Chemist/pharmacy	28.6	45.5	42.9	50.0
Discussion of FP				
1. Mother	0.0	0.0	0.0	8.3
2. Sister	0.0	0.0	0.0	20.8
3. Male friend (including boyfriend)	28.6	29.2	0.0	0.0
4. Female friend (including girlfriend)	0.0	12.5	28.6	37.5
5. Neighbor	0.0	4.2	14.3	0.0
6. Other females	28.6	0.0	0.0	12.5
7. Other males	14.3	0.0	0.0	0.0
8. Doctor	14.3	8.3	0.0	0.0
Nurse/auxiliary nurse midwife	0.0	12.5	0.0	0.0
10. Healthcare provider	0.0	12.5	0.0	0.0
To. Healificale provider	0.0	1 1/		1 (7.0)
· ·				I I
11. Sister-in-law/brother-in-law	14.3	0.0	0.0	4.2
11. Sister-in-law/brother-in-law12. Husband/wife	14.3 14.3	0.0 8.3	0.0 14.3	4.2 0.0
11. Sister-in-law/brother-in-law	14.3	0.0 8.3 1.8	0.0 14.3 0.0	4.2
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself	14.3 14.3 1.8	0.0 8.3 1.8	0.0 14.3 0.0	4.2 0.0 3.5
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used	14.3 14.3 1.8 (n= 3)	0.0 8.3 1.8 n: (n=3)	0.0 14.3 0.0 =8 (n=0)	4.2 0.0 3.5
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization*	14.3 14.3 1.8 (n= 3) 0.0	0.0 8.3 1.8 (n=3) 0.0	0.0 14.3 0.0 =8 (n=0) 0.0	4.2 0.0 3.5 (n=2) 50.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD*	14.3 14.3 1.8 (n= 3) 0.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom*	14.3 14.3 1.8 (n= 3) 0.0	0.0 8.3 1.8 (n=3) 0.0	0.0 14.3 0.0 =8 (n=0) 0.0	4.2 0.0 3.5 (n=2) 50.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 50.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/pharmacy	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 50.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP?	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 0.0 60.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 20.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 20.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 20.0 0.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0 0.0 20.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 0.0 0.0 0.0 50.0 50
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 20.0 0.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0 0.0 20.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 0.0 0.0 0.0 50.0 50
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 60.0 40.0 0.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 0.0 0.0 50.0 50.0 5
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 60.0 40.0 0.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 0.0 0.0 50.0 50.0 5
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method Somewhat satisfied with current FP method	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3 100.0 0.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 60.0 40.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 0.0 0.0 0.0 50.0 50.0 50
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method Somewhat satisfied with current FP method	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3 100.0 0.0 0.0 100.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 20.0 0.0 0.0 50.0 50.0 33.3 33.3 (n=12)
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method Somewhat satisfied with current FP method Reason for not currently using FP method 1. Pregnant	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3 100.0 0.0 0.0 100.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 0.0 60.0 40.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 20.0 0.0 0.0 50.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method Somewhat satisfied with current FP method Reason for not currently using FP method 1. Pregnant 2. Not having sex	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3 100.0 0.0 100.0 0.0 (n=1) 0.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 60.0 40.0 0.0 20.0 33.3 0.0 (n=6) 16.7 0.0 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.2 0.0 3.5 (n=2) 50.0 50.0 0.0 50.0 20.0 0.0 0.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 0.0
11. Sister-in-law/brother-in-law 12. Husband/wife Currently using contraception, yourself Current method used 1. Female sterilization* 2. IUD* 3. Male condom* Place of availability 1. Government hospital 2. CHC 3. Anganwadi Center 4. Chemist/ pharmacy Who motivated you to use FP? 1. Anganwadi worker 2. ASHA 3. Relative/ friend Very satisfied with current FP method Somewhat satisfied with current FP method 1. Pregnant 2. Not having sex 3. Spouse away	14.3 14.3 1.8 (n= 3) 0.0 0.0 50.0 0.0 66.7 33.3 100.0 0.0 100.0 0.0 (n=1) 0.0 0.0 0.0	0.0 8.3 1.8 (n=3) 0.0 0.0 50.0 0.0 60.0 40.0 0.0 20.0 33.3 0.0	0.0 14.3 0.0 =8 (n=0) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.2 0.0 3.5 (n=2) 50.0 50.0 50.0 20.0 0.0 0.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 10.0 50.0

6. Respondent opposed	0.0	12.5	20.0	6.2
7. Spouse opposed	20.0	12.5	40.0	43.8
8. Others opposed	0.0	0.0	40.0	18.8
9. Interferes with body's normal proces	s 0.0	0.0	0.0	6.2
10. Did not like chosen method	0.0	6.2	0.0	0.0
Interested in using FP in future				
1. Strongly disagree	100.0	16.7	0.0	0.0
2. Neither agree nor disagree	0.0	5.6	60.0	83.3
3. Somewhat agree	0.0	0.0	20.0	0.0
4. Strongly agree	0.0	83.3	20.0	16.7
Want to start using FP in one to two years	0.0	66.7	0.0	0.0
Undecided when to start using FP	100.0	33.3	100.0	100.0
Which FP method would you prefer				
1. Female sterilization	100.0	16.7	0.0	0.0
2. Condom	0.0	83.3	20.0	8.3
3. Undecided	0.0	0.0	80.0	91.7

^{*}These were the only FP methods mentioned.

Pregnancy and Delivery

Out of the 118 female study participants, 11 had given birth to at least one child at the time of the survey. Among these women, nine had attended antenatal care services. During an antenatal checkup, 80 percent or more reported having their abdomen and blood pressure checked, urine and blood tested, and weight measured. Only one woman delivered at home because she could not get to the hospital in time. Five of the mothers stayed at the health facility for the recommended 48 hours postpartum. No MTPs were reported.

Table 16. Experience with antenatal care and delivery

Antend	tal care	Females 20–24 years (n=9) $\%$
Underv	vent pregnancy test	81.8
Attend	ed antenatal care and registered pregnancy	81.8
Place o	of registration	
1.	Government hospital	27.3
2.	CHC	54.5
3.	Subcenter	9.1
4.	Anganwadi/integrated child development services	63.6
	center	9.1
5.	Private hospital/ maternity home	
Check	up during antenatal visit	
1.	Weight measured	100.0
2.	Height measured	66.7
3.	Blood pressure checked	100.0
4.	Blood tested	100.0
5.	Urine tested	88.9
6.	Abdomen examined	80.0
7.	Breasts examined	30.0
8.	Ultrasound done	60.0
9.	Delivery date identified	10.0
10.	Delivery advice given	40.0
11.	Nutrition advice given	30.0
12.	Advised to visit health facility in case of complication	10.0
13.	Advised for institutional delivery	60.0
14.	Advised for breastfeeding	30.0

15.	Advised to keep body warm	10.0	
16.	Advised to keep the genital area clean	20.0	
17.	Advised on FP for child spacing	20.0	
Person	Person who conducted the most recent delivery		
1.	Doctor	60.0	
2.	Nurse/auxiliary nurse midwife/lady health visitor	30.0	
3.	Dai (female midwife from the community)	10.0	
Place o	of delivery		
1.	Government hospital	20.0	
2.	CHC	60.0	
3.	Private hospital	10.0	
4.	At home	10.0	
Stayed	at the health facility for 48 hours after delivery	71.4	

DISCUSSION

Policy Agenda and Implementation

In the 70 years since India's independence, policies have been formulated to reorient the health system toward a primary healthcare approach. The evolution of policy can be divided into three phases: Phase I, 1947–1977; Phase II, 1978–1990; and Phase III, post-1991 (Singh, 2010). In a phased manner, India is moving toward integrating primary healthcare goals with curative healthcare goals, resolving the dichotomy between urban and rural health, merging vertical disease programs under the umbrella of NHM and NHP, and aiming to align national health goals with sustainable development goals. The population policy and RCH program, which were segregated from the national health programs, have also been subsumed under the NHM, NHP, and RMNCH+A. RMNCH+A is much more than a rechristening of the RCH program. Based on a life cycle approach, RMNCH+A distinguishes "adolescents" and suggests several strategies to address the needs of this group. It also accounts for the RH needs of all adolescents irrespective of gender or marital status. Thus, the present policy agenda provides an integrated, all-encompassing framework for health policy implementation in the country.

Given the poor nutritional status of women and children in India, RMNCH+A provides a comprehensive, broad-based strategy on nutrition, including institutional interventions (through schools and Anganwadi Centers), community interventions, and service delivery, such as provision of meals, IFA supplements, counseling, and nutrition information.

Although the RMNCH+A envisages implementation of a life skills education program in schools, it has yet to be formulated and implemented in either of the two study states. Discussing RH issues in public spaces and institutions is considered taboo in India. RH issues are discussed in the family setting (often with mothers) or in the peer group. Discussing RH in the classroom is a morally, socially, culturally, and to some extent politically sensitive issue. Though there are movies like "Padman" and "Period. End of Sentence," films about villagers in India trying to revolutionize the manufacturing of sanitary napkins, which could be shown in schools to initiate the discussion around RH, it remains a "personal" issue.

There is an enormous push to promote menstrual health and hygiene, especially among school-going girls. The onset of menstruation, lack of modern methods of sanitary protection, and lack of separate toilets for girls has been among the major reasons for high rate of school dropout among adolescent girls. The present programs of menstrual health and hygiene, such as IEC, counseling, and distribution of sanitary pads, are likely to retain girls in school.

At the district level, RBSK and RKSK are programs that aim to provide comprehensive healthcare services to children and adolescents. These have been launched since 2014, and implementation is underway. It is a little early to assess the actual impact of these programs on the lives of the target groups. JSY, a well-established program that aims to enhance safe motherhood, works on financial incentives to health providers and clients who undergo institutional deliveries. In 2011, the newborn care component, JSSK, was added to JSY to make it more comprehensive. The extensiveness of programs focused on newborn care, child health, and adolescent health and their integration with safe motherhood highlight the importance accorded to the life cycle approach in the health policy framework.

At the state level, different ministries and government departments, such as the MOHFW, Ministry of Women and Child Development, and the Department of School Education, are responsible for formulating policies for different components of the health programs. To implement the policies, the various functionaries, be it a

school or Anganwadi Center, work together to deliver services such as distributing IFA tablets, carrying out health checkups, or organizing camps in villages. Private hospitals work with government facilities in such areas as conducting institutional deliveries under JSY and providing in-patient treatment under Bhamashah Yojana (state health insurance scheme) in Rajasthan. On the other hand, in Uttar Pradesh we found little involvement of private hospitals implementing government programs. Though the concept of public-private partnership is not new, it is slowly catching up, and there are a few schemes in which private hospitals work with the government. To improve access, use, and quality, the government should create incentives to enhance the participation of private hospitals and NGOs in delivering health services.

Additionally, comprehensive health insurance is needed for children in all states, because childhood sickness imposes a huge financial burden on the family, and can lead to loss of education or even life.

Adolescent Reproductive Health Care for Youth

Services related to FP counseling and methods largely remain focused on married women and with more of an emphasis on permanent methods. Moreover, adopting any FP method is based on financial incentives provided to the provider and the client. The financial incentive for adopting a permanent method is higher than that for nonpermanent methods. This raises two important ethical concerns: one, how can the clients have a free and informed choice when the use of FP methods is incentivized, and, two, is voluntary sterilization an appropriate method of FP for youth except under life-threatening circumstances? For women, there are effective long-acting reversible contraceptive methods, such as injectables and the 10-year IUD, which have been introduced by the government but are still overshadowed by voluntary female sterilization.

Though the key informants reported that adolescent health clinics are operating, few survey respondents reported being counseled by such a clinic. Moreover, the clinic in Rajsamand District hospital was not conveniently located. The infrastructure and resources for adolescent counseling already exist; however, it seems to be underused. Furthermore, given the very low awareness and knowledge of RH issues (e.g., STIs, HIV, FP, and menstruation) among the study population, it appears the adolescent clinics should be doing more outreach. Thus, access to and use of adolescent health clinics need to be enhanced.

Several health initiatives are implemented at school. However, only about half of the adolescents noticed that health services were being provided in the schools. This implies either that the school-based health services are not reaching them or are not being promoted well or the students are not able to recall seeing, hearing about, or seeking those services. The focus of the School Health Programme is to screen for diseases. The AYRH component consists of distributing weekly IFA tablets and sanitary pads. A formal family life-education program has not been included in the school curriculum, nor has AYRH counseling been provided through the schools. This is a stark gap that needs to be addressed. It is imperative for policymakers in education and health to formulate policies and implement programs related to family life education that include the entire gamut of AYRH care.

Overall, unmarried people in the 10- to 24-year-old age group—both in and out of school—need to be brought into AYRH programs. AYRH policies are needed that focus on nutrition and the equitable distribution of food in the household (for example, presently girls are given tea and boys are given milk), life skills (i.e., a program for students that covers how to be happy, manage depression, and think positively), self-defense training for girls, teacher training on AYRH, multimedia materials on AYRH (i.e., books, pamphlets, and films), AYRH education in school curriculums, school health counselors, IEC on AYRH for the 10-plus age group, and organized talks for students and parents on health issues. Many school children are from families where the father and/or mother have migrated to urban areas in search of work. In such cases, it is

even more important to inform and counsel the children and these parents, or the extended family members that have the closest relationships with the children, about nutritious food and leading a healthy lifestyle.

KAP Study

The KAP study comprised an equal mix of males and females, all in rural areas. Half the sample was in the 10-to 14-year-old age group, close to 35 percent belonged to the 15- to 19-year-old age group, and the remainder belonged to the 20- to 24-year olds age group. Approximately 86 percent of the respondents were unmarried, and a similar proportion of the respondents were literate, because of the greater proportion of people from the younger age group in the sample.

Though one-third of the sample recognize the importance of discussing important issues, mental health, and academic performance/studies with parents, no more than a quarter actually discuss these issues with parents. An issue of concern is the low proportion of respondents who discuss body changes and relationships with the opposite sex with their parents. Among the very young adolescents, knowledge of puberty was very low. The higher knowledge in the 15- to 19-year-old age group may be because as a child grows and develops, their maturity and understanding of things and the environment increases. Nonetheless, there is poor communication with parents because of social norms that hinder these discussions. Therefore, it is important for programs and initiatives to reach out to parents and families to support adolescents' healthy transition from childhood to adulthood. This requires adults having correct information about puberty, menstruation, RH, and FP.

The main source of knowledge about puberty and family life education is the mother in most of the cases, followed by a sister-in-law. Outside the home, the teacher is the main source of information about these topics. Since awareness of puberty and family life education itself is low, the proportion of respondents reporting the importance of receiving family life education is also low. These data reveal the shyness or inhibition faced by young people in discussing sensitive, yet important, issues related to AYRH with trusted adults, such as parents, teachers, or healthcare providers. Young people are more comfortable discussing these issues with their peer group, who often share myths and misinformation. A peer education campaign could be useful in disseminating information about AYRH. However, policymakers would need to consider ways to involve parents and teachers in disseminating accurate AYRH information to young people in a culturally appropriate way, particularly the 10- to 14-year-old age group.

Few respondents reported that mental health issues should be addressed in family life education, despite adolescence being a critical period for mental, social, and emotional well-being and development. Clearly this group of respondents does not view mental health as important. This could be a result of the stigma around mental health or the view that mental health issues (e.g., anxiety, depression, behavior disorders) are part of "normal development." This attitude could be the reason that one-third of younger boys said they kept silent about mental health issues.

In the case of menstruation, the mother is the main source of information for the female respondents. More than half of the respondents use sanitary pads, which could be attributed to the sanitary pad distribution scheme being implemented in schools and the greater awareness of menstrual hygiene.

Low awareness of RTIs and HIV was reported, which could be a result of the taboo of publicly addressing RH issues, nonexistent or ineffective HIV awareness campaigns in the rural areas (where the young study respondents live), and unfamiliarity of the respondents with technical terms. The respondents were not probed by mentioning specific symptoms of RTI, because the purpose of the study was to know the general awareness

of RH topics rather than specific knowledge of particular topics. The source of knowledge is mainly television, which points to broadcast media being an important means of information dissemination in rural areas. The use of mobile phones/smartphones and the Internet for information about RH topics was not reported.

No more than half of both male and female respondents know how a baby is conceived. Considering that the mean age at first birth for rural mothers in India is around 20 years old (IIPS and ICF, 2017), this signifies a major knowledge gap, especially in Uttar Pradesh and Rajasthan, where early marriage is prevalent. More younger males (ages 15–19) are knowledgeable about conception than are older males (ages 20–24) and females in both age groups, indicating the need for continued RH information and education among all young people. They find information gathered from books, magazines, youth counselors, and through pornography, with its increasing accessibility. Those exposed to sexually explicit content on the television and Internet are more likely to initiate early/premarital sex, which comes with a host of negative implications that they often find themselves unequipped to deal with. This applies to a quarter of India's young people who have engaged in premarital sex (Shashikumar, et al., 2013).

Knowledge of contraception is higher among females than males, yet fewer than half of males and females are aware of FP methods other than voluntary female sterilization, signaling a need to increase awareness of and demand for nonpermanent modern contraceptives. Out of the 32 married respondents, only eight respondents said they are using any method of FP (which includes voluntary female sterilization, IUD, and condoms only). This implies that the health system has a greater role to play in creating awareness of FP (especially for young people), promoting a range of modern FP methods, and motivating sexually active young people to adopt a method of modern contraception that suits their FP needs.

Among the 11 respondents who have delivered babies, a high proportion registered the pregnancy, sought antenatal care, had an institutional delivery, and adhered to the recommended 48-hour postpartum hospital stay. This demonstrates high awareness and uptake of antenatal care and institutional delivery. It also implies that the health system is functioning well, through its infrastructure and human resources, in implementing maternal health policies.

LIMITATIONS

We would have preferred a larger sample size of young respondents; however, it was difficult to find a cross section of out-of-school young people for comparison purposes, because education in India is compulsory. In the study sample, 85.2 of our respondents were ages 10–19 years, and only 13.9 percent of the total respondents were married. Furthermore, the study respondents were all from rural areas. This could be one of the reasons why we found that awareness of HIV and RTIs was low, and that very few respondents were using any type of FP method or had experienced a delivery. The study results may vary in urban settings, where information about and access to RH care is typically better.

Because premarital sex is strongly discouraged in India—and discussing issues related to sex is extremely sensitive from a social, cultural, and religious perspective—none of the 10- to 14-year-olds and none of the unmarried young people in the other age groups were asked questions related to pregnancy, conception, MTP, antenatal care, and delivery. Thus, there may have been some young respondents and/or unmarried young people who had experienced a pregnancy, MTP, or delivery, for example, that the study missed. Therefore, the results of the study are more relevant for the 15- to 24-year-old age group comprising unmarried respondents.

RECOMMENDATIONS

The adolescent population is large and diverse with needs that cannot be addressed by small, fragmented programs. The Medical and Health Department within the MOHFW is already overburdened with the plethora of health programs being implemented and demanding resources. We offer the following recommendations to address the gaps in RH care for adolescents and better integrate AYRH care in existing structures and programs:

- Institute a dedicated adolescent health program with earmarked financial and human resources to address adolescents' emotional, mental, and physical health needs, per the RMNCH+A strategy.
- Base government programs or schemes on demand generation and not just supply orientation.
- Make RTI/STI specialists available at both district-level and lower-level institutions.
- Integrate health issues in the school education program by including family life education and counseling on health topics (e.g., preventing unwanted pregnancy, drug and alcohol abuse, mental health issues, fertility awareness, and menstrual hygiene).
- Train schoolteachers on how to talk about and counsel adolescents on RH topics to meet the needs of
 adolescents and accurately satisfy students' natural curiosity.
- Staff schools with designated, trained mental health and adolescent health counselors.
- Capitalize on youth's familiarity with social media, television, and film to promote accurate RH information and care. Show movies such as "Padman" and "Period. End of Sentence" in schools to create awareness about RH, because audiovisual media can be more effective in conveying messages than conventional media. Develop discussion guides for teachers to prepare them for questions the students may have about RH topics.
- Make family life education compulsory in all schools from class five (around age 10) onward. A family
 life-education curriculum should be developed incorporating issues related to puberty, menstruation,
 mental health, RTI/STI, HIV/AIDS, contraception, pregnancy, nutrition, violence, and gender
 discrimination.
- Because the main source of information for AYRH issues for most respondents was broadcast media, and respondents preferred to discuss AYRH issues with parents or friends, design messages and programs wherein parents and the wider community are counseled and involved in discussions about AYRH issues. This could be implemented through regular parent-teacher meetings in schools and counseling of parents by AYRH counselors.
- Ensure adherence of standards of practice for FP counseling and method provision for adolescents. The focus should be on providing youth with a range of modern FP methods.

CONCLUSION

This research aimed to provide evidence related to AYRH policy, implementation, service delivery, and KAP in two states in northern India: Uttar Pradesh and Rajasthan. The study sought to reveal gender differences in KAP related to RH.

The results of the study revealed a number of policies, programs, and schemes both at the national and state levels aimed at RMNCH+A. Previously fragmented, vertical, disease-specific programs have been integrated under NHM. RMNCH+A is based on a life cycle approach and covers many aspects of life: birth of a child, nutrition in early years, life skills education in adolescence, contraception, pregnancy, and delivery.

The results of the KAP study reveal low knowledge about RH issues. Very few respondents believe that receiving family life education is important. Health services provided in schools include health checkups and weekly IFA supplementation, yet almost half of the study respondents are unaware of school-based health services. Most of the respondents discuss puberty and bodily changes with friends and peers, and mental health issues with parents, followed by friends and peers. More than 10 percent of 10- to 14-year-old boys believe that gender discrimination and violence are acceptable in the family. Fewer than half of male and female respondents across all age groups agree that there should be a minimum legal age for marriage. Fewer than one-quarter of 20- to 24-year-old female respondents are aware that menstruation is a normal part of development. None of the female respondents are aware of RTIs/STIs, and fewer than half of males are aware. Awareness of HIV/AIDS is also very low, with female respondents again having less knowledge of HIV and AIDS than do males. The respondents believe many misconceptions about HIV transmission. Although women are more aware of FP than males are, awareness overall is less than 50 percent. FP use is extremely low for males and females.

The study makes several recommendations to increase knowledge of RH issues; provide support to adolescents during this milestone in their emotional, social, cognitive, and physical development; and ultimately improve RH outcomes for adolescents.

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APPENDIX 1. SCHEDULE FOR KAP STUDY

Project Title: Engendering Evidence-Based Policy for Young People's Sexual and Reproductive Health in India

Funding Agency: MEASURE Evaluation Project, University of North Carolina at Chapel Hill

Implementing Agency: Indian Institute of Health Management Research, Jaipur

Schedule 1: Knowledge, Attitudes and Practices Regarding RH Among Young People in the Age Group 10-24 years

Introduction:

The project, Engendering Evidence-Based Policy for Young People's Sexual and Reproductive Health in India, is a one-year long project funded by MEASURE Evaluation Project (supported by USAID), University of North Carolina at Chapel Hill, North Carolina, USA. The focus of this research is on policy, service delivery and knowledge, attitude and practices related to sexual and reproductive health among young people (10-24 years age group).

The present tool (schedule) has been developed to collect data from males/females in the 10-24 years' age group. Informed written consent would be taken from the respondents/parents of minors prior to filling up the schedule.

S.No. _____ Date: _____

_			
Α.	Socio-Demographic Profile		
1.	Name (optional):	1 .	
2.	Sex	Male	Female
3.	Date of birth	// (DD/MM/YYYY)	
4.	Age (in completed years):	years	
5.	In school/out of school (only for respondents <19 years)	1. In school	
		2. Out of school	
6.	State educational level	1. Illiterate	
		2. Literate but not formally	educated
		3. Number of yrs of formal	schooling completed
		4. Graduate and higher	
7.	Working status (in last one week)	1. Worked (paid money for	work)
		2. Not worked	
8.	Number of days worked (in last one week)	days	
9.	Occupation	1. Student	
		2. Salaried	
		3. Self-employed	
		4. Farmer	
		5. Daily wage laborer	
		6. Housewife	
		7. None	
10.	Monthly family income Rs	1. Upto Rs. 2000	
		2. Rs.2001-4000	
		3. Rs.4001-6000	
		4. Rs.6001-8000	
		5. Rs.8001-10000	
		6 Rs10001 and above	

11.	Religion	 Hindu Sikh Christian Muslim Jain Other specify
12.	Caste	,
13.	Category	 General SC ST OBC Other (specify)
14.	Marital status	Married Unmarried
15.	For unmarried respondent → Currently who are you living with?	 Both parents Father Mother Neither parent
	ightarrow (If unmarried and age under 19, go to section B. If unma	rried and age completed 19 years, go to section E)
16.	For married respondent → What is your current marital status?	 Currently married & living with spouse Currently married but not living with spouse Married but gauna not performed Separated → If response is 4,5,6,7, skip Q.18 Deserted Divorced Widower/widow
17.	At what age did you get married? (age in completed yrs)	years
18.	Spouse's age (in completed years)	years
		99. Don't know
19.	Spouse's educational status	 Illiterate Literate but not formally educated Number of yrs of formal schooling completed Graduate and higher
20.	Spouse's occupation	 Student Salaried Self-employed Farmer Daily wage laborer Housewife None
21.	Current pregnancy status of self/spouse	 Pregnant Not pregnant Don't know
22.	Total number of pregnancies of self/spouse till now	—— → If '0' and age <19, go to section B. If response '0' and age completed 19 years, go to section E)
23.	Number of living children	Sons Daughters
24.	Number of spontaneous/ induced abortions	Spontaneous Induced abortion
25.	Number of stillbirths	
26.	Number of children died during delivery	Boys Girls
27.	Number of children died after birth	Boys

[→] Respondents under the age of 19, proceed to section B. Respondents 19 years old or more, go to Section E.

S. No.	Item	Response	
B.	Relationship with Parents (Only for respondent age less than 19 years)		1

20	//A 1911 1 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1	5.00
28.	"A child should discuss important issues and	5. Strongly Agree
	worries with their parents."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
29.	"A child should discuss their studies and academic	5. Strongly Agree
	performance with their parents."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
30.	"A child should discuss with parents about	5. Strongly Agree
	changes in the child's body as they grow up."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
31.	"A child should discuss with parents about their	5. Strongly Agree
	relationships with boys/girls."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
32.	"I discuss important issues and worries with my	5. Strongly Agree
	parents."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
33.	"I discuss my studies and academic performance	5.Strongly Agree
	with my parents."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
34.	"I discuss with my parents about changes in my	5.Strongly Agree
	body as I am growing up."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
35.	"I discuss with my parents about my relationships	5.Strongly Agree
	with boys/girls."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
36.	With who else do you discuss important issues and	A. Older brother/sister
	worries? (Record all mentioned)	B. Younger brother/sister
		C. Cousin
		D. Friend/ companions
		E. Other (specify)
37.	With who else do you discuss your studies and	F. Older brother/sister
	academic performance?	G. Younger brother/sister
		H. Cousin
		I. Friend/ companions
		A. Other (specify)
38.	With who else do you discuss about changes in	J. Older brother/sister
	your body as you are growing up?	K. Younger brother/sister
	(Record all mentioned)	L. Cousin
ı		
	,	M. Friend/ companions

39.	With who else do you discuss your relationships	N. Older brother/sister
39.	with boys/girls?	O. Younger brother/sister
	(Record all mentioned)	P. Cousin
	(Necord all mentioned)	Q. Friend/ companions
C.	Family Life Education (Only for respondent age les	A. Other (specify)
40.	Are you aware of puberty, ie., how our body	1. Yes
40.	changes as we grow up?	2. No → If no go to Q.42
41.	What has been the most important source of	1. Mother
71.	information for you on this topic?	2. Father
	information for you on this topic:	3. Brother
		4. Sister
		5. Spouse/partner
		6. Sister-in-law
		7. Friends/peers
		8. Healthcare provider
		9. Youth club/mandal
		10. NGO worker
		11. Sex education expert
		12. Teacher/school/college 13. Doctor
		14. Books/ magazines
		15. Films/videos 16. Television/ radio
		17. Other (specify) 18. Don't know
42.	It is important for young people to receive family	5. Strongly Agree
42.		
	life education, ie., about their bodies, growing up, etc.	4. Somewhat Agree
	etc.	Neither agree nor disagree Somewhat disagree
		1. Strongly disagree
43.	From what age and standard do you think young	Age years
	people should receive family life education?	DK/ Can't say
	people should receive ranning me education.	Standard
		DK/ Can't say
44.	According to you, who should provide family life	A. Mother
	education to children at home/ in the family?	B. Father
		C. Brother
		D. Sister
		E. Spouse/partner
		F. Sister-in-law
		G. Friends/peers
		H. Books/ magazines
		I. Films/ videos
		J. Other (specify)
		K. None
		L. Don't know
45.	According to you, who should provide family life	A. Healthcare provider
	education outside the home/ family?	B. Youth club/ mandal
		C. NGO worker
	(Record all mentioned)	D. Sex education expert
		E. Teacher/ school/ college
		F. Doctor
		G. Friends/peers
		H. Books/ magazines
		I. Films/ video
		J. Other (specify)
		K. None

	1	L. Don't know	
46.	Have you ever received formal family life	1. Yes	
	education outside the home/ family?	2. No → If no go to Q.53	
47.	If yes, where did you receive that?	A. NGO programme/ camp	
	(Record all mentioned)	B. Govt. programme/ camp	
		C. School/ college	
		D. Youth club	
	//=! C !! !!C ! . !!	E. Other (specify)	
48.	"The family life education programme answered	5. Strongly Agree	
	many of the questions I had."	4. Somewhat Agree	
		Neither agree nor disagree Somewhat disagree	
		1. Strongly disagree	
49.	"The teacher/trainer explained the subject in a	5. Strongly Agree	
.5.	way I understood.	4. Somewhat Agree	
	,	3. Neither agree nor disagree	
		2. Somewhat disagree	
		1. Strongly disagree	
50.	"I felt very embarrassed in the family life	5. Strongly Agree	
	education programme."	4. Somewhat Agree	
		3. Neither agree nor disagree	
		2. Somewhat disagree	
		1. Strongly disagree	
51.	"I felt comfortable in the family life education	5. Strongly Agree	
	programme."	4. Somewhat Agree	
		Neither agree nor disagree Somewhat disagree	
		1. Strongly disagree	
52.	The family life skills education programme	A. Human body	
32.	informed you about which topics? (Record all	B. Healthy lifestyle (exercise, healthy diet)	
	mentioned. Probe, if respondent unable to	C. Changes in human body as we grow up	
	answer on his/her own).	D. Relationships with boys/girls	
		E. HIV/AIDS	
		F. RTI/STI	
		G. Substance abuse (alcohol/ tobacco/ drugs)	
		H. Discrimination against girls	
		I. Violence against women	
		J. Mental health issues, such as anxiety, stress,	
53.	"I am interested in attending a family life	depression, suicidal tendencies, etc.	
<i>J</i> 3.	education programme in future."	5. Strongly Agree 4. Somewhat Agree	
	eadeation programme in ruture.	3. Neither agree nor disagree	
		Somewhat disagree	
		1. Strongly disagree	
D.	Adolescent Friendly Health Services (only for response	ondent less than 19 years)	
54.	→ Only for in-school respondent. Out-of-school	1. Yes	
	male respondent go to Q.58 Out-of-school	2. No	
	female respondent go to Q.56)	3. Don't remember	
	Have you undergone any health check-up in your		
ГГ	School?	1 Voc	
55.	Have you got any medicines from your school	1. Yes 2. No	
	(such as for deworming)? → Male respondent go to Q.58	2. NO 3. Don't remember	
56.	→ For female respondent only Have you got iron	1. Yes	
50.	folic acid tablets provided by school/ Anganwadi	2. No	
	Centre?	3. Don't remember	
57.	→ For female respondent only	1. Yes	
	. ,	2. No	
	-		

school/ Anganwadi Centre? 58. "If I face a health issue related to changes in my body/ menstruation, I should keep silent." 59. "I faced a health issue related to changes in my body, and I approached a health worker/health centre/doctor." 60. "For the issue related to changes in my body, and I approaching a health worker/health centre/doctor." 61. "If I face mental health issues, such as anxiety, stress, depression, suicidal tendencies, etc., I should keep silent. " 62. If you face mental health issues, such as anxiety, stress, depression, suicidal tendencies, etc., who do you discuss it with? " (Record all mentioned) 63. "I faced a mental health issue, such as anxiety, stress, depression, suicidal tendencies, etc., who do you discuss it with? " (Record all mentioned) 64. "For the mental health worker/ health centre/doctor/ counsellor." 65. Strongly Agree 4. Somewhat Agree 3. Neither agree nor disagree 4. Somewhat Agree 3. Neither agree nor disagree 4. Somewhat Agree 3. Neither agree nor disagree 4. Somewhat Agree 5. Strongly Agree 4. Somewhat Agree 6. Somewhat disagree 6. Somewhat disagree 6. Somewhat disagree 6. Strongly disagree 6. Strongly disagree 6. Strongly Agree 6. Teachers 6. Health workers 6. Other (specify) 6. Somewhat disagree 6. Strongly Agree 6. Strongly Agree 6. Strongly Agree 6. Strongly Agree	
body/ menstruation, I should keep silent." 4. Somewhat Agree 3. Neither agree nor disagree 2. Somewhat disagree 1. Strongly disagree 1. Strongly disagree 1. Yes 2. No → Go to Q.61 For the issue related to changes in my body, I felt comfortable approaching a health worker/health centre/doctor." 5. Strongly Agree 4. Somewhat Agree 3. Neither agree nor disagree 2. Somewhat disagree 3. Neither agree nor disagree 2. Somewhat disagree 1. Strongly disagree 3. Neither agree nor disagree 4. Somewhat Agree 3. Neither agree nor disagree 2. Somewhat Agree 3. Neither agree nor disagree 4. Somewhat Agree 4. Somewhat Agree 5. Strongly Agree 6. Somewhat Agree 6. Somewhat Agree 6. Somewhat Agree 6. Somewhat Agree 6. Neither agree nor disagree 6. Somewhat Agree 6. Neither agree nor disagree 6. Somewhat Agree 6. Somewhat Agree 6. Neither agree nor disagree 6. Neither agree	
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doctor/ counsellor."	
64. "For the mental health issue, I felt comfortable 5. Strongly Agree	
approaching a health worker/health centre/ 4. Somewhat Agree	
doctor/ counsellor." 3. Neither agree nor disagree 2. Somewhat disagree	
1. Strongly disagree	
E. Substance Abuse	
65. How many times in the last month, have you times	
been to a mela? 98. Never	
66. How many times in the last month, have you times	
been to the cinema hall to watch a movie? 98. Never	
67. How many times in the last month have you consumed alcohol? times 98. Never	
68. How many times in the last seven days have you times	
smoked a cigarette? 98. Never	
69. How many times in the last seven days have you chewed/ sniffed tobacco? — times 98. Never	
70. "If we consume alcohol, tobacco or drugs, we 5. Strongly Agree	
become popular among our friends." 4. Somewhat Agree	
3. Neither agree nor disagree	
2. Somewhat disagree	
1. Strongly disagree	
F. Gender Discrimination/ Violence	
71. "In the household, men and boys should eat meals 5. Strongly Agree	1
first and women and girls should eat last". 4. Somewhat Agree 3. Neither agree nor disagree	
2. Somewhat disagree	
1. Strongly disagree	
72. "It is okay if girls get less food than boys". 5. Strongly Agree	

		1 Compulat Agree
		4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
73.	"Boys should get more clothes, books and toys	5. Strongly Agree
	than girls."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
74.	"It is okay if a husband beats his wife."	5. Strongly Agree
		4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
75.	"In my family, men and boys eat meals first, and	5. Strongly Agree
	women and women and girls eat last".	4. Somewhat Agree
	g	3. Neither agree nor disagree
		Somewhat disagree
		1. Strongly disagree
76.	"In my family girls get less food than boys".	5. Strongly Agree
70.	in my family girls get less food than boys.	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
	//o C :1 1	1. Strongly disagree
77.	"In my family, boys get more clothes, books and	5. Strongly Agree
	toys than girls."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
78.	"In my family, I have seen discrimination against	5. Strongly Agree
	girls/women."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
79.	"In my family, I have seen violence against	5. Strongly Agree
	girls/women."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
G.	Age at Marriage	3,7
80.	"There should be a legal minimum age at	5. Strongly Agree
	marriage for boys."	4. Somewhat Agree
	marriage for boys.	3. Neither agree nor disagree
		Neither agree nor disagree Somewhat disagree
		-
01	"There should be a legal asiains as at	1. Strongly disagree
81.	"There should be a legal minimum age at	5. Strongly Agree
	marriage for girls."	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
82.	What is the legal minimum age at marriage for	years
	boys?	Don't know/Can't say
83.	What is the legal minimum age at marriage for	years
	girls?	Don't know/Can't say
	Reproductive Health	
H.	Menstruation → For female respondent only. For	male respondent, go to section I
84.	What changes occur in girls' bodies as they grow	
	3 3	
	<u> </u>	

	→If respondent does not mention 'menstrual	
	periods' go to section I	
85.	From which source of information did you learn	A. Mother
	about menstrual periods?	B. Grandmother
	1,-	C. Aunt/relative
	(Record all mentioned)	D. Friends
		E. Teacher
		F. Health worker/ ANM/ASHA
86.	Menstrual periods are a normal part of growing	G. Other (specify) 5. Strongly Agree
80.	up.	4. Somewhat Agree
	up.	3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
87.	Do you have menstrual periods?	1. Yes
	, , , , , , , , , , , , , , , , , , ,	2. No → Go to section I
88.	I feel embarrassed/ scared when I get my	5. Strongly Agree
	menstrual period.	4. Somewhat Agree
	·	3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
89.	We should keep our body clean during menstrual	5. Strongly Agree
	periods.	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
90.	Did you face any problems related to	1. Yes
_	menstruation during the last three months?	2. No → Go to Q.93
91.	Mention the problems you faced related to	A. No periods
	menstruation during the last three months.	B. Painful periods
	(Record all mentioned)	C. Frequent/ short periods
		D. Irregular periods
		E. Prolonged bleeding
		F. Scanty bleeding G. Inter-menstrual bleeding
		H. Blood clots/ excessive bleeding
92.	What did you do to address these problems?)	A. Did nothing
32.	(Record all mentioned)	B. Took home remedy ?
	(Nesser a an inclusioned)	C. Consulted health worker/ANM/nurse
		D. Consulted doctor
		E. Other (specify)
93.	Women use different methods of protection	A. Cloth
	during menstrual period to prevent bloodstains	B. Locally prepared napkins (If use A&B go to
	from becoming evident. What do you use for	Section I)
	this?	C. Sanitary napkins (If use C go to Q 94)
	(Record all mentioned)	D. Nothing
		E. Other (specify) (If use D&E go to Section I)
94.	From where do you get sanitary napkins?)	A. ANM/ ASHA
	(Record all mentioned)	B. General store/ grocery
		C. Chemist shop
		D. Vending machine in school
	DTI/CTI	E. Other (specify)
l.	RTI/STI	1 Vaa
95.	Have you ever heard of an illness called	1. Yes
	Reproductive Tract Infection/ Sexually	2. No → If no, go to section J
96.	Transmitted Infection? From which sources of information have you	A. Radio
30.	heard about RTI?	B. Television
	ווכמוע מטטענ אוו:	חי ובובאופוחוו

Record all mentioned) C. Cinema D. Newspaper/magazine E. Slogans/pamphlets/ posters/ wall hoardings F. Doctor G. Health worker H. ASHA J. Adult education programme J. Religious leaders C. School teachers M. Partner N. Community meetings D. Relatives/ friends P. Work place D. School teachers		(Decord all mentioned)	C. Cinama
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N. Community meetings O. Relatives / Friends			
97. How does a person get RTI? (Record all mentioned) 98. → For Women (for men, go to Q.99) During the last three months, did you face any of the following problems? (Record all mentioned) 99. → For Men (for women, go to Q.100) During the last three months, did you face any of the following problems? (Record all mentioned) 99. → For Men (for women, go to Q.100) During the last three months, did you face any of the following problems (Record all mentioned) 99. → For Men (for women, go to Q.100) During the last three months, did you face any of the following problems (Record all mentioned) 100. Did you discuss about these problems with your spouse/ partner/ anybody else? 101. Did you consult anybody or seek treatment for these problems? 102. If yes, where did you go for consultation or treatment of your problems? 103. Have you ever heard of HIV/ AIDS? 104. HIV/AIDS 105. HIV/AIDS 105. Other (Specify) A. Abnormal vaginal discharge A. Abnormal vaginal discharge A. Abnormal vaginal discharge B. E. thing or irritation over vulva C. Boils/ ulcres/ warts around vulva D. Pain in lower abdomen (not related to menses) E. Pain during urination or defectation F. Swelling in the groin F. Swelling or irritation or defectation F. Swelling or irritation or defectation F. Swelling or irritation or deventable or valva C. Boils/ ulcres/ warts around vulva D. Pain ulcres about a five groin and around vagina H. Low backache I. Pain during sexual intercourse K. No problem→ go to section J D. Views or problem→ go to section J D. No prob			
P. Work place C. Exhibition/ mela R. Other			
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R. Other A. Unhygienic practices (not keeping the body clean)			
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During the last three months, did you face any of the following problems? (Record all mentioned) During the last materian problems Pain In lower abdomen (not related to menses)	98.	→ For Women (for men, go to Q.99)	A. Abnormal vaginal discharge
the following problems? (Record all mentioned) Deain in lower abdomen (not related to menses) Enain during urination or defecation F. Swelling in the groin G. Painful blister like lesions in and around vagina H. Low backache I. Pain during sexual intercourse J. Spotting after sexual intercourse K. No problem→go to section J Pain during sexual intercourse J. Spotting after sexual intercourse K. No problem→go to section J During the last three months, did you face any of the following problems (Record all mentioned) D. No problem→go to section J Did you discuss about these problems with your spouse/partner/anybody else? Did you consult anybody or seek treatment for these problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment of your problems? Dif yes, where did you go for consultation or treatment dispensary CHC/Rural hospital Primary Health Centre Sub Centre NGO/Trust hospital/clinic Private hospital/clinic Private hospital/clinic Themse remedy The HIV/AIDS Diff yes were heard of HIV/ AIDS? They were related to menses Enain during viriation or defections F. No problem→go to section J Discharge from penis Revolution and around vagina Reval intercourse No problem→go to section J Di Green's penis de reveal and penis de reveal and penis de revea			
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Record all mentioned) D. No problem→go to section J		During the last three months, did you face any of	B. Pain during urination
100. Did you discuss about these problems with your spouse/ partner/ anybody else? 101. Did you consult anybody or seek treatment for these problems? 102. If yes, where did you go for consultation or treatment of your problems? 103. If yes, where did you go for consultation or treatment of your problems? 105. If yes, where did you go for consultation or treatment of your problems? 106. Government hospital 107. CHC/Rural hospital 108. AYUSH hospital/ Clinic 109. NGO/Trust hospital/ clinic 100. Private hospital/ clinic 110. Outreach camp in village 120. Chemist/ medical store 131. Home remedy 141. Traditional healer 151. Other (specify) 151. HIV/AIDS 161. Yes 175. Ves		the following problems	C. Ulcers/ sores in genital area
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103. Have you ever heard of HIV/ AIDS? 1. Yes		LIN//AIDO	15. Other (specify)
' '			
2. No → go to section K	103.	Have you ever heard of HIV/ AIDS?	
			2. No → go to section K

104.	From which sources of information have you	A. Radio
104.	heard/read about	B. Television
	HIV/AIDS?)	C. Cinema
	(Record all mentioned	D. Newspaper/ magazine
	(Necord an mentioned	E. Slogans/pamphlets/ posters/ wall hoardings
		F. Doctor
		G. Health worker
		H. ASHA
		G. Adult education programme H. Religious leaders
		I. Political leaders
		J. School teachers
		K. Partner
		L. Community meetings M. Relatives/ friends
		·
		N. Workplace
		O. Exhibition/ mela
105	How is HIV/AIDC transmitted?	P. Other (specify)
105.	How is HIV/AIDS transmitted?	A. Unsafe sex
		B. Infected mother to child
	(B. 1 II I)	C. Transfusion of infected blood
	(Record all mentioned)	D. Use of infected syringe
		E. Other (specify)
		F. Don't know
106.	Which are the ways through which one can get	A. Shaking hand with a person who has HIV/AIDS.
	HIV/AIDS?, (Record all mentioned)	B. Hugging a person who has HIV/AID
		C. Kissing a person who has HIV/AIDS.
		D. Sharing clothes with a person who has HIV/AIDS
		E. Sharing food with a person who has HIV/AIDS.
		F. Stepping on urine/stool of someone who has
		HIV/AIDS.
_		G. From mosquito/flea/ bedbug bites.
107.	Is there anything else a person can do to avoid or	A. Abstain from sex
	reduce the chances of getting HIV/AIDS?	B. Using condoms correctly during each sexual
	(Record all mentioned)	intercourse
		C. Limit sex with one partner/ stay faithful to one
		partner
		D. Limit number of sexual partners
		E. Avoid sex with sex workers
		F. Avoid sex with homosexuals
		G. Avoid sex with persons who inject drugs
		H. Use tested blood
		I. Use only new/ sterilized needles
		J. Avoid sharing razors/blades
		K. Avoid pregnancy when having HIV/AIDS
		L. Others (specify)
		M. Don't know
108.	Where people can go to get	A. Government hospital
	tested for HIV /AIDS?	B. Primary Health Centre
	(Record all mentioned)	C. Sub Centre
		D. VCTC /ICTC ohlhVhlh@vkbZlhVhlh
		E. RTI/STI Clinic
		F. NGO/Trust hospital/ clinic
		G. Private hospital/ clinic
		H. Other (specify)
109.	Have you ever undergone HIV test?	1. Yes
		2. No
К	Contraception	
	•	

	→ For unmarried respondent (below the age → For married respondent (below the age	
	→ For unmarried/married respondent (15-	
110.	Are you aware of how a couple can have a child/ or how pregnancy occurs?	1. Yes 2. No 3. Not sure
111.	Are you aware of family planning – the various ways or methods that a couple can use to delay or avoid a pregnancy.	 Yes No → For unmarried respondent (15-24 years), go to section L. For married respondent, go to Q.117
112.	What has been the most important source of information for you on this topic?	1. Mother 2. Father 3. Brother 4. Sister 5. Spouse/partner 6. Sister-in-law 7. Friends/peers 8. Healthcare provider 9. Youth club/mandal 10. NGO worker 11. Sex education expert 12. Teacher/school/college 13. Doctor 14. Books/ magazines 15. Films/videos 16. Television/ radio 17. Other (specify) 18. Don't know
113.	Which ways or methods of family planning have you heard about? (Record all mentioned)	 A. Female sterilization (women can have an operation to avoid having any more children). B. Male sterilization (men can have an operation to avoid having any more children) C. IUD (Women can have a device placed inside the uterus by a doctor or a nurse) D. Pill (Women can take a pill every day or once a week to avoid becoming pregnant) E. Emergency contraception (Women can take pills within three days after sexual intercourse to avoid becoming pregnant) F. Injectables (Women can have an injection by a health provider that stops them from becoming pregnant for one or more months G. Condom/ Nirodh (Men can put a rubber sheath on their penis before sexual intercourse). H. Female condom (Women can place a sheath in their vagina before sexual intercourse I. Rhythm method (Every month that a woman is sexually active she can avoid pregnancy by not having sexual intercourse on the days of the month she is most likely to get pregnant) J. Withdrawal (Men can be careful and pull out before climax)
114.	Have you heard of other ways or methods that women or men can use to avoid pregnancy?	K. Other (specify) Yes Specify No
115.	If the respondent is aware of pill/condom, ask: Do you know from where to get pill/condom? (Record all mentioned)	A. Government hospital B. Dispensary C. Primary Health Centre

		T
		D. Sub Centre
		E. AYUSH hospital/ clinic
		F. Doctor
		G. Nurse/ANM
		H. ASHA/AWW
		I. Home visit by health worker
		J. Chemist/ pharmacy
		K. Other (specify)
116.	With whom have you discussed about	A. Mother
	contraception?	B. Father
	(Record all mentioned)	C. Brother
		D. Sister
		E. Male friend
		F. Female friend
		G. Neighbour
		H. Other females
		I. Other males
		J. Doctor
		K. Nurse/ANM
		L. Other community organization
		M. Healthcare provider
		N. Sister-in-law/ brother-in-law
		O. Teacher
		P. Other (specify)
	→ For unmarried respondent, go to section L . For	
117.	Are you or your spouse, currently doing	1. Yes
	something/ using any method to delay or avoid	2. No → go to Q.123
	getting pregnant?	2. 110 7 80 10 4.220
118.	Which method are you or your spouse currently	A. Female sterilization
110.	using? (If more than one method mentioned,	B. Male sterilization
	specify)	C. IUD
	эрсспуу	D. Daily pills
		E. Weekly pills
		F. Injectables
		G. Condom/ nirodh
		H. Female condom
		I. Rhythm method
		J. Withdrawal
110	If the response to the observate A to 11 calculations	K. Other (specify)
119.	If the response to the above is A to H, ask: where	L. Government hospital
	did you obtain the (current method) the last time?	M. Dispensary
	umer	N. Primary Health Centre
		O. Sub Centre
		P. AYUSH hospital/ clinic
		Q. Doctor
		R. Nurse/ANM
		S. ASHA/AWW
		S. ASHA/AWW T. Home visit by health worker
		S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy
400		S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify)
120.	For how long have you been using current	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy
	method continuously (without stopping)?	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify)days/ months/ year
120. 121.	method continuously (without stopping)? Who facilitated or motivated you to use current	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify) days/ months/ year 1. Doctor
	method continuously (without stopping)?	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify)
	method continuously (without stopping)? Who facilitated or motivated you to use current	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify) days/ months/ year 1. Doctor 2. ANM 3. Health worker
	method continuously (without stopping)? Who facilitated or motivated you to use current	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify) days/ months/ year 1. Doctor 2. ANM 3. Health worker 4. Anganwadi worker
	method continuously (without stopping)? Who facilitated or motivated you to use current	S. ASHA/AWW T. Home visit by health worker U. Chemist/ pharmacy 1. Other (specify) days/ months/ year 1. Doctor 2. ANM 3. Health worker

		<u>, </u>
		7. Spouse
		8. Mother-in-law
		9. Mother
		10. Relatives/friends
		11. Dai (Trained birth attendant)
		12. Self
		13. Other (specify)
122	"NA /I am fully acticfical with a surrout	
122.	"My spouse/I am fully satisfied with current	5. Strongly Agree
	family planning method".	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
	After answering Q.122, go to section L.	
123.	To be asked only if answer to Q.117 is 'no'.	A. Pregnant
	What is the main reason for currently not using	B. Not having sex
	any modern method of family planning?	C. Infrequent sex
		D. Spouse away
		E. Menopause
	(Record all mentioned	F. Hysterectomy
	, , , , , , , , , , , , , , , , , , , ,	G. Subfecund/ infecund/ unable to bear children
		H. Postpartum amenorrheic
		I. Breastfeeding
		J. Up to God
		K. Respondent opposed
		L. Spouse opposed
		M. Others opposed
		N. Religious prohibition
		O. Knows no method
		P. Knows no source
		Q. Health concerns
		R. Fear of side effects
		S. Lack of access/ too
		T. Costs too much
		U. Difficult/ inconvenient to get method
		V. Inconvenient to use
		W. Interferes with body's normal processes
		X. Do not like existing methods
		_
		Y. Afraid of sterilization
		Z. Cannot work after sterilization
		AA. Other (specify)
46:		BB. Don't know
124.	In future, I am interested in using any family	5. Strongly Agree
	planning method.	4. Somewhat Agree
		3. Neither agree nor disagree
		2. Somewhat disagree
		1. Strongly disagree
125.	When do you want to start using any modern	Within one year
	family planning method?	2. One to two years
		3. More than two years
		4. Undecided
126.	Which family planning method would you prefer	Female sterilization
	to use?	Male sterilization
		3. IUD
		4. Daily pills
		5. Weekly pills
		6. Injectables
		7. Condom/ nirodh
		8. Female condom

		Rhythm method/ periodic abstinence
		10. Withdrawal
		11. Undecided
		12. Other (specify)
L.	Reproduction	T
127.	It is possible to know the sex of the baby before	1. True
	birth by medical test.	2. False
128.	Pregnancy can occur by kissing or hugging.	3. Don't know/ Not sure 1. True
120.	Fregulaticy can occur by kissing of magging.	2. False
		3. Don't know/ Not sure
129.	When a woman has intercourse for the first time,	1. True
	she has to bleed.	2. False
		3. Don't know/ Not sure
130.	A woman can get pregnant on the very first time	1. True
	she has sexual intercourse.	2. False
		3. Don't know/ Not sure
131.	A woman is most likely to get pregnant is she has	1. True
	sexual intercourse halfway between her periods.	2. False 3. Don't know/ Not sure
132.	In future, when you have a child, would you	1. Boy
132.	prefer your child to be a boy or girl?	2. Girl
	prefer your crima to be a boy or girr.	3. Doesn't matter
		4. Up to God
	→ For male respondent, go to END.	, ,
	→ For unmarried female respondent, go to END.	
	→ For married female respondent, continue.	
*	Ask married female respondent, "Have you ever	1. Yes → Go to section M
	been pregnant"?	No → Go to END
M.	Abortion (for married women only, who have bee	
133.	Did you ever have an induced abortion?	1. Yes 2. No → Go to section 'N'
134.	How many months pregnant were you when you	months
154.	had the induced abortion?	(If less than one month, record 0)
135.	Did you have an ultrasound test before the	1. Yes
	induced abortion?	2. No
136.	Who advised you for the induced abortion?	A. Doctor
	(Record all mentioned)	B. ANM/Nurse/LHV
		C. Male health worker
		D. ASHA
		E. Dai F. Spouse
		G. Mother-in-law
		H. Mother
		I. Relatives/ friends
		J. Self
		K. Other (specify)
137.	Where was the last induced abortion performed?	Government hospital
		2. Govt. dispensary
		3. CHC/ Rural hospital
		4. Primary Health Centre
		5. Sub Centre
		6. NGO/ Trust hospital/ clinic
		7. Private hospital/ maternity home/ clinic
		8. Home 9. Other (specify)
N.	Antenatal Care (with reference to last pregnancy)	or married women only/have been pregnant at least
	once)	oa.r.iea women omy/nave been pregnant at least
	onecj	

138.	Did you undergo pregnancy confirmation test	1. Yes		
130.	(urine test) during the last pregnancy	2. No		
	(unite test) during the last pregnancy	3. Don't know		
139.	Did you register your last programs 2	1. Yes		
139.	Did you register your last pregnancy?	2. No → Go to Q.141		
140.	With whom did you register your pregnancy?	1. Government doctor		
140.	with whom did you register your pregnancy:			
		2. Private doctor		
		3. ANM		
		4. Anganwadi Worker		
		5. ASHA		
		6. Other (specify)		
141.	After how many months of last pregnancy did	months		
	you receive first antenatal care?	Don't know		
142.	How many times you received antenatal checkup	times		
	during last pregnancy?	Don't know		
143.	Where did you receive antenatal care for last	A. Government hospital		
	pregnancy?	B. Govt. dispensary		
	(Record all mentioned)	C. CHC/ Rural hospital		
		D. Primary Health Centre		
		E. Sub Centre		
		F. Anganwadi/ ICDS Centre		
		G. NGO/ Trust hospital/ clinic		
		H. Private hospital/ maternity home/ clinic		
		I. Home		
		J. Other (specify)		
144.	As part of your antenatal care during last	A. Weight measured		
	pregnancy, were any of the following done at	B. Height measured		
	least once?	C. Blood pressure checked		
	(Record all mentioned)	D. Blood tested		
	(E. Urine tested		
		F. Abdomen examined		
		G. Breast examined		
		H. Ultrasound done		
		I. Delivery date told		
		J. Delivery advice given		
		K. Nutrition advice given		
		L. Informed about pregnancy complications		
		(bleeding, convulsions or prolonged labour)		
		M. Advised to visit health facility in case of		
		pregnancy complications		
		N. Advised for institutional delivery		
		O. Advised for breastfeeding		
		P. Advised for keeping the baby warm		
		Q. Advised for cleanliness at the time of delivery		
		R. Advised for family planning for spacing		
		S. Advised for family planning for limiting		
		T. Advised for better nutrition for mother and child		
145.	Who facilitated or motivated you for antenatal	A. Doctor		
	care?	B. ANM		
		C. Health worker		
	(Record all mentioned)	D. Anganwadi worker		
		E. ASHA		
		F. NGO/CBO		
		G. Spouse		
		H. Mother-in-law		
İ		I. Mother		
l		J. Relatives/ friends		
		K. Self		
	· ·	ı		

How many IA tablets/syrup bottles did you receive / purchase during last pregnancy? Don't remember			L. Others (specify)		
Number of bottles Den't remember	146.	How many IFA tablets/syrup bottles did you			
Don't remember					
2. Primary Health Centre 3. Sub Centremi 4. AYUSH hospital/ clinic 5. Dector 6. Nurse/ANIM 7. ASHA/AWW 8. Home visit by health worker 9. NGO/ trust hospital or clinic 10. Private hospital or clinic 11. AYUSH hospital / clinic 12. Chemist/ pharmacy 13. Other (specify) 149. During last pregnancy, for how many days and how much did you take IFA tablets/ syrup? 150. During last pregnancy, did you receive any supplementary nutrition from Anganwadi centre? 150. During last pregnancy, did you receive any supplementary nutrition from Anganwadi centre? 150. Who conducted your last delivery 151. Who conducted your last delivery 152. During last pregnancy, where did you have your delivery? 153. During last pregnancy, where did you have your delivery? 154. Did you receive any supplementary nutrition from Anganwadi centre? 155. Sub Centre 156. AYUSH hospital/ clinic 157. No one 158. Private hospital/ clinic 158. Private hospital/ clinic 159. Private hospital/ clinic 159. Private hospital/ clinic 159. On the way to hospital 150. Other home 151. At parents' home 152. Workplace 153. What was the main mode of transportation used by you to reach the health facility for delivery? 159. In case of institutional delivery, go to Q. 155 150. What was the main mode of transportation used by you to reach the health facility for delivery? 159. In case of other place of delivery, go to Q. 156 151. What was the main mode of transportation used by you to reach the health facility for delivery? 150. Did you receive any government financial assistance for delivery care under Janani Shishu 151. Did you receive any government financial assistance for delivery care under Janani Shishu 152. No Other (specify) 153. Did you receive any government financial assistance for delivery care under Janani Shishu			Don't remember		
3. Sub Centremi	147.	From where did you get IFA tablets/ syrup?	Hospital/ dispensary		
4. A AVISH hospital/ clinic 5. Doctor 6. Nurse/ANM 7. ASHA/AWM 8. Home visit by health worker 9. NGO/ trust hospital or clinic 10. Private hospital or clinic 11. AVUSH hospital/ clinic 12. Chemist/ pharmacy 13. Other (specify) 149. During last pregnancy, for how many days and how much did you take IFA tablets/ syrup? 149. During last pregnancy, how many times did you get Tetanus injection? 150. During last pregnancy, did you receive any supplementary nutrition from Anganwad centre? No 0. Delivery → For married women only, who have undergone at least one delivery. For others, go to END 151. Who conducted your last delivery 150. Under health personnel 151. Doctor 1 During last pregnancy, where did you have your 152. During last pregnancy, where did you have your 153. Relatives/ friends 154. Other (specify) 7. No one 155. Government hospital 156. Cherry 1 Government hospital 1 Government hospital 2 Dispensary 3. CHC/ Rural hospital 1 A Primary Health Centre 5. Sub Centre 6. AYUSH hospital/ clinic 7. NGO/trust hospital or clinic 8. Private hospital/ clinic 9. On the way to hospital 10. At own home 11. At parents home 12. Workplace 13. Other (specify) 13. Other (specify) 149. Pin case of institutional delivery, go to Q. 153. 150. Tempo/ auto/ tractor 151. Ambulance 2. Jeep/ Gar 3. Motorcycle/ scooter 4. Bus/ train 5. Tempo/ auto/ tractor 6. Cart 7. Foot march 8. Other (specify) 1. Yes 2. No			2. Primary Health Centre		
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Section Sect			7. ASHA/AWW		
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6. Cart 7. Foot march 8. Other (specify) 154. Did you receive any government financial assistance for delivery care under Janani Shishu 2. No					
8. Other (specify) 154. Did you receive any government financial assistance for delivery care under Janani Shishu 2. No			• • • • • • • • • • • • • • • • • • • •		
154. Did you receive any government financial assistance for delivery care under Janani Shishu 2. No			7. Foot march		
154. Did you receive any government financial assistance for delivery care under Janani Shishu 2. No			8. Other (specify)		
assistance for delivery care under Janani Shishu 2. No	154.	Did you receive any government financial			
Suraksha Yojana (JSSY)/ State specific scheme? 3. Don't know			2. No		
	<u> </u>	Suraksha Yojana (JSSY)/ State specific scheme?	3. Don't know		

155.	Did you stay for 48 hours at the hospital/ health	1. Yes		
133.	centre at the time of delivery?	2. No		
	Go to Q.157	3. Don't know		
156.	→If delivery was not conducted at health facility	A. Cost too much		
130.	What were the reasons for not going to health	B. Poor quality service		
	facility for delivery?	C. Too far/ no transport		
	facility for delivery:	D. No time to go		
	(Record all mentioned)	E. Not necessary		
	(Necord all Mentioned)	F. Not customary		
		G. Better care at home ?		
		H. Family did not allow		
		I. Lack of knowledge		
		J. Other (specify)		
157.	At the time of last delivery, disposable delivery kit/	1. Yes		
137.	Mamta kit was used.	2. No		
	iviaiiita kit was useu.	3. Don't know		
158.	At the time of last delivery, baby was	1. Yes		
136.	immediately wiped dry and wrapped without	2. No		
		3. Don't know		
159.	being bathed. At the time of last delivery, new sterilized blade	1. Yes		
159.	was used.	2. No		
	was useu.	3. Don't know		
160	After your delivery were any of the following	A. Advised for breastfeeding		
160.	After your delivery, were any of the following done at least once?	I		
	done at least once:	B. Advised for keeping the baby warm C. Advised for cleanliness at the time of delivery		
	(Record all mentioned)	D. Advised for family planning for spacing		
	(Record all mentioned)			
		E. Advised for family planning for limiting		
1.01	Harring and development and division and division become	F. Advised for better nutrition for mother and child		
161.	How many days after your delivery did you have your first check-up?	days 98. Check-up not done at all → Go to Section P		
	your first check-up:	99. Don't know → Go to Section P		
162.	Where did you have your first check-up after	Government hospital		
102.	delivery?	2. Dispensary		
	delivery:	3. CHC/ Rural hospital		
		4. Primary Health Centre		
		5. Sub Centre		
		6. AYUSH hospital/ clinic		
		7. NGO/trust hospital or clinic		
		8. Private hospital/ clinic		
		9. At own home		
		10. At home, by nurse/ANM		
		11. Other (specify)		
163.	During the check-up, was your abdomen	1. Yes		
105.	examined?	2. No		
	Caumilleu:	3. Don't know		
164.	Within six weeks of delivery, how many check-	times		
104.	ups did you receive?	99. Don't know		
P.	Neonatal Care→ For women whose last delivery w			
165.	Did your child have any check-up within 24 hours	1. Yes		
105.	of birth?	2. No		
166.	How many check-ups took place within 10 days of	times		
100.	child's birth?	97. Check-up not done at all		
	Ciliu 5 Dil til!	· ·		
		98. Child did not survive till 10 days 99. Don't know →		
		(If response is '0' or 97, 98, or 99, go to END of		
167	Whore did the first sheet we take also also a	Interview)		
167.	Where did the first check-up take place for your	Government hospital Signature		
	child?	2. Dispensary		

		3. CHC/ Rural hospital
		4. Primary Health Centre
		5. Sub Centre
		6. AYUSH hospital/ clinic
		7. ICDS Centre
		8. NGO/trust hospital or clinic
		9. Private hospital/ clinic
		10. At home by doctor
		11. At own home
		12. At home, by Nurse/ANM
		13. Other (specify)
168.	Within six weeks of birth, how many check-ups	times
	did your child receive?	97. Check-up not done at all
		98. Child did not survive till 6 weeks
		99. Don't know
169.	When did you first breastfeed your child?	Immediately/ within one hour of birth
		2. Within 24 hours of birth
		3. 2 to 3 days
		4. After 3 days
		5. Never breastfed
170.	Did you feed milk colostrum/ khees (yellowish	1. Yes
	thick milk) secreted during first few days after	2. No
	childbirth?	

END: Thank the respondent and end the interview.

Observation			
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