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### **Original Research Article**

# Assessment of family planning practices of women of reproductive age group in rural area of West Bengal

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#### **Abstract**

Introduction: The National Family Planning and Welfare Program has been in place for more than 50 years, yet the high rate of unmet family planning need remains a significant obstacle for the program. The goal is to reach all women whose reproductive behavior necessitates the use of contraception but who, for a variety of reasons, do not use it. **Objectives:** This study aimed to determine the prevalence of different types of contraceptive methods adopted by eligible couples (aged 15-49 years) as a method of family planning. **Methods:** The present descriptive, cross sectional study was carried out amongst 200 women of reproductive age group in the Sonarpur rural area of West Bengal. Participants were interviewed by the trained staff using the pre-tested questionnaire. The information about various family planning methods adopted by couple was taken. Study was carried out from August 2023 to December 2023. Statistical data were analysed by using Microsoft Excel and SPSS V.20 software. **Results:** A total of 200 eligible couples were interviewed. Maximum couples were in the age group of 30-34 years i.e. 44 (40%). Total 110 (55%) couples were using one or the other method of family planning. Condoms were most commonly used method by 52 (47%) couples followed by oral contraceptive pills 32 (29%). Among permanent methods of family planning, tubectomy was adopted by 8 (7%) and vasectomy

#### Journal of Cardiovascular Disease Research

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VOL 15, ISSUE 07, 2024

only by 6 (6%) couples. No one was practising any miscellaneous method of contraception. The percentage of family planning methods used by Hindus was maximum 84 (76.4%). The highest percentage of using family planning methods was used by upper middle class (41.8%) followed by middle class (34.5%) and least by lower middle class (5.5%). **Conclusions**: Almost 50% of couples who qualified did not use any form of birth control. The adoption of permanent methods of contraception, particularly vasectomy, ought to be encouraged among suitable couples.

**Keywords:**, Eligible couple, Family planning, Permanent methods, Temporary methods

#### **Introduction:**

Family planning is a method of thinking and living that individuals and couples choose to adopt willingly based on their knowledge, attitude, and responsible decision-making.<sup>1</sup> Family planning is the deliberate use of contraceptive treatments by a couple to reduce or space out the number of children they have.<sup>2</sup> Family planning addresses the woman's reproductive health, appropriate spacing between pregnancies, prevention of unwanted pregnancies and abortions, prevention of STDs, and enhancement of the quality of life for the mother, fetus, and family as a whole.<sup>3</sup>

If a man's sperm gets to a woman's egg (ovum), she can conceive. In order to prevent this, contraception either stops the generation of eggs, separates the egg and sperm, or prevents the fertilized egg from being inserted into the uterus. Simply put, contraception is the act of preventing pregnancy, and contraceptive methods are by definition those preventive measures that assist women in avoiding unintended pregnancies.<sup>4</sup>

There are currently 7.7 billion people on the planet, and by 2045, that number is predicted to rise to 9 billion.<sup>5</sup> Today, the globe faces a challenge with growing populations. India, the second most populous country in the world, accounts for one-fifth of the global population and grows by 16 million people annually.<sup>6</sup> Despite the fact that India was the first nation in the world to adopt a national population control program in 1952, unchecked population increase has been identified as the single biggest obstacle to our country's progress.<sup>6</sup> Therefore, it is crucial to guarantee that all pregnancies are desired or intended on a national and worldwide level.

The use of contraceptives can shield against STDs and avoid unwanted pregnancies and unsafe abortions, which can reduce the risk of at least 25% of maternal fatalities,<sup>7</sup> like the Human Immunodeficiency Virus (HIV), Syphilis, Chlamydia, and so forth, The obstacles in poorer

VOL 15, ISSUE 07, 2024

nations include a lack of awareness about contraceptive methods, limited accessibility, high costs, and a lack of supply sources.<sup>8</sup>

Presently, long-term family planning methods are offered at health centers, hospitals, and private clinics, while short-term modern family planning methods are available at all levels of governmental and private health institutions. A study conducted in Jimma, Ethiopia, revealed that a high rate of contraceptive use is not always correlated with having adequate understanding of contraceptives. On the contraceptive of the cont

Hence, aim of this study was to determine the prevalence of different types of contraceptive methods adopted by eligible couples (aged 15-49 years) as a method of family planning.

#### Methods

This present descriptive cross-sectional study of 200 eligible couples (aged 15-49 years) of Sonarpur rural area of West Bengal were interviewed using the pre-tested questionnaire. Study was conducted over a period of five months from August 2023 to December 2023.

**Sample size:** Estimated sample size was 200. Sample size was calculated by 4pq/l2 [p- 6%, q- (100-6), l- 4%].

**Inclusion criteria:**. Couples who consented to participate in the study were included in the study and interviewed.

**Exclusion criteria :** Couples who had reported infertility and pregnancy were excluded from the study

After initial selection data was collected using pre-tested questionnaire. Information was collected regarding the use of various family planning methods, unwillingness of contraceptive usage and reasons for unwillingness. Care was taken to maintain the confidentiality of the data.

**Data Analysis plan-** Data were entered in MS Excel and analyzed in the form of percentage and proportions whenever necessary and was analyzed using Statistical Package for Social Sciences, version 20 (SPSS).

#### **Results**

Table 1: Distribution of eligible couples according to their age (n=200)

Age (in years)	Contraceptive use	No Contraceptive use	Total

VOL 15, ISSUE 07, 2024

	No.	<b>%</b>	No.	%	No.	%
15-19	10	9.1	14	15.6	24	12
20-24	6	5.5	16	17.8	22	11
25-29	20	18.2	28	31.1	48	24
30-34	44	40.0	14	15.6	58	29
35-39	16	14.5	10	11.1	26	13
40-45	14	12.7	8	8.9	22	11
Total	110	100.0	90	100.0	200	100

A total of 200 eligible couples were interviewed. Maximum couples using any form of contraception 40% were in the age group of 30-34 years. Contraceptive prevalence was 55% as 110 out of 200 eligible couples were using one or the other method of family planning. (Table 1)

Figure 1 : Type of contraceptive method practised by eligible couple.

Condoms was most commonly used method by 52 (47%) couples followed by oral contraceptive pills 32 (29%) and intrauterine devices 12 (11%). Among permanent methods of family planning, tubectomy was adopted by 8 (7%) and vasectomy only by 6 (6%) couples. No one was practicing any miscellaneous method of contraception. (Figure 1)

Table 2: Distribution of eligible couples according to their sociodemographic characteristics. (n=200)

VOL 15, ISSUE 07, 2024

Sociodemographic characteristics	Total (n=200)	No. of eligible couples using any contraceptive methods (n=110)		
	No.	No.	&	
Religion				
Hindu	142	84	76.4	
Muslim	32	22	20.0	
Christian	26	4	3.6	
Socioeconomic status				
Upper	14	12	10.9	
Upper Middle	62	46	41.8	
Middle	68	38	34.5	
Lower Middle	38	6	5.5	
Lower	18	8	7.3	

The percentage of family planning methods used by Hindus was maximum 84 (76.4%) followed by Muslims (20%) and Christians (3.6%). Difference was also observed in the context of socioeconomic status. The highest percentage of using family planning methods was used by upper middle class (41.8%) followed by middle class (34.5%) and least by lower middle class (5.5%). (Table 2)

## **Discussion:**

Family planning is an attitude and style of thinking that people and couples voluntarily adopt based on their knowledge, character, and responsible decision-making.<sup>11</sup> Married couples must make a deliberate effort to decide on the size of their family and space out the births of their children using contraceptive method.<sup>12</sup> Family planning addresses the woman's reproductive health, appropriate spacing between births, avoiding unintended pregnancies and abortions, preventing STDs, and enhancing the quality of life for the mother, the fetus, and the family as a whole.<sup>13,14</sup>

In our environment, the situation regarding the use of contraceptives was not very encouraging, since just 55% of eligible couples were using any sort of contraception. Comparable findings were seen in the Punjab research and the NFHS 4 survey, where the rates of contraceptive usage were 53.84% and 53.5%, respectively. However, studies conducted in Southern India, had higher acceptance rates (nearly 80%) of contraceptive methods. Lower acceptance and practice of contraceptives could due to comparatively low awareness levels in rural area, incomplete family size, notwilling, fear of side effects and lower education status. Eligible couples from lower middle and lower socio- economic status were among the least users of contraceptive methods. Christians

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were the least users of contraceptives (3.6%) followed by Muslims (20%) while maximum eligible

couples 84 (76.4%) practicing contraceptive methods belonged to Hindu. These results

corroborated with research conducted in other parts of country as well.

Condoms were the most widely used method of contraception among eligible couples, followed

by IUDs and oral contraceptive pills. The permanent procedure known as tubectomy was more

frequently used. Studies released in other regions of the nation also revealed a similar consumption

pattern. 19,20 The most commonly proposed explanations for this include its transitory nature,

convenience of usage, and lack of negative effects. Sensitizing male partners to use long-term

contraceptive techniques is still very important.

**Conclusions** 

The current study found that male sterilization was the least favored family planning technique,

while the barrier approach like condom was the most chosen option.

Family planning and welfare services coverage, accessibility, and quality must be prioritized at

all levels of the local health system, following the model of Mission Parivar Vikas. ASHAs

should be included in the community-based distribution of contraceptives, and IEC/BCC

activities should be concentrated on increasing demand and raising family planning awareness

through outreach programs.

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