Contraceptive use and preferences of young married women in Kerala, India

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Background: As in other states of India, female sterilization is the most widely used contraceptive method in Kerala where women have higher levels of education compared to most other states in India. This paper describes the use and preferences of contraceptive methods among young married women in Trivandrum district, Kerala, India.

Subjects and methods: A community-based cross-sectional survey was carried out among 203 young married women (18–28 years) during January–March 2015 using multistage cluster sampling method. Statistical analysis was mainly descriptive, and chi-squared test was used to test the statistical significance of the relationship between sociodemographic factors and contraceptive use.

Results: The average age at marriage for women was 21.3 years, and 23% of women had more than one child. Current use of any contraceptive methods was 58%. Female sterilization was preferred by 13% and it was significantly higher among women aged 25–28 years than in those aged 18–24 years (20% vs 2.6%, p<0.001). Female sterilization was significantly lower among women with higher levels of education than in women with an education level of plus two or below (5.8% vs 19%, p=0.006). Women were mostly in favor of female sterilization (91%), and a significantly lower proportion of highly educated women preferred female sterilization than women with an education of 12 years or below (85% vs 95.7%, p=0.008).

Conclusion: A considerable number of females in the age group 25–28 years opting for sterilization and the unique preference for female sterilization when the family size is complete show the predominant reliance on female sterilization among young women. Higher education delays sterilization in young women due to delayed marriage and childbirth. Women empowerment, proper information and assuring availability and accessibility to different methods can gradually change the dominant preference for female-oriented permanent method of contraception.

Keywords: contraception, female sterilization, Trivandrum, contraceptive preferences

Introduction
In India, the family planning program was implemented in 1952 as a national population policy to control the rapid growth of population and reduce poverty. Initially, a number of modern methods were focused and later shifted toward male sterilization, but female sterilization became the main focus from late 1970. The sterilization targets, incentive-based administration, poor standards and forceful nature of the program created negative impression among population and political confrontation in the country. Until the mid-1990s, almost all reproductive and child health programs focused exclusively on women in India. In 1998, an informed choice model of service delivery was...
introduced and currently, such a model without any targets or incentives is implemented in the country.\(^2\) The utilization of contraceptive methods among Indian women is related to several factors such as personal, interpersonal, partner related, service related and/or method related.\(^4\) The limited choices and access to family planning services, poor quality of available services, cultural and religious opposition, fear of adverse effects and gender-based barriers are responsible for the very high rate of unmet need for contraception in low-resource countries such as India.\(^5\)

Currently, the most common method of contraception in India is female sterilization.\(^4\) Religion, education and occupation of women were reported to be associated with acceptance of female sterilization.\(^2\) Lack of information or misinformation regarding temporary methods and less opportunity to prefer modern temporary methods due to affordability and accessibility issues also affect women’s choice of female sterilization.\(^6\) Common misbeliefs such as “vasectomy reduces sexual desire” and “it makes a man physically weak” lead to people’s disapproval of vasectomy as a contraceptive method.\(^7,8\) Even the health workers in India are not well informed about vasectomy, which makes them unable to provide appropriate information regarding vasectomy to motivate people, and therefore, they mainly provide information on female-oriented methods.\(^9\) One qualitative study among women in low-income communities in Mumbai reported that from the perspective of poor women, the decision to undergo sterilization makes them effectively control their fertility, and hence it leads to improved sexual relationships and emotional health following sterilization. Because of this positive feel, most of them have little post-sterilization regret.\(^10\) All these factors make female sterilization the single choice of contraceptive method for women in countries such as India.

The educational status of women in Kerala is better than in most other states of India, and the enrollment of women in higher education is significantly higher compared to that in other South Indian states.\(^11\) It is a question of interest whether the higher levels of education influence the contraceptive preferences of young women in Kerala or still tubal occlusion is their single choice of contraception. In this paper, the pattern of contraceptive use among 18–28-year-old married women, their opinions on factors affecting contraceptive use and decision on the number of children, their contraceptive preferences and the reasons to prefer a particular method when family size is complete are described.

### Subjects and methods

This paper is based on a community-based cross-sectional survey carried out in Trivandrum district, Kerala using multistage cluster sampling method. The major objective of the survey was to understand the extent to which young women (18–28 years) are aware of and are able to exercise their reproductive rights. The main target was married women, and the sample size was calculated to be 200 using the assumptions that the anticipated prevalence of any reversible method of contraception among young married women is 15% in Kerala,\(^12\) with 95% CI having an absolute precision of 7%, design effect of 1.5 and refusal rate of 25%.

A summary of the survey and the participating women are given in Figure 1. In order to get a representative sample, five wards (which are the smallest administrative units) from the three administrative areas (corporation, municipality and panchayath) of Trivandrum district were randomly selected and an equal number of participants were decided to be included from each ward. Corporation and municipality cover the urban and semi-urban areas of the district, respectively, and panchayath covers the rural areas of the district. Field investigators selected one point in each ward and visited all houses in one direction to identify married women aged 18–28 years. The field investigator explained the study and purpose of their visit, and sought willingness of the eligible women to participate in the study. A written informed consent was obtained if the woman was willing to participate, and the interview was conducted using a structured interview schedule with open- and closed-ended questions. The process continued till the investigator achieved the target number of subjects from each ward. Field investigator revisited the household by fixing an appointment if the identified woman was not available or was busy with some other things at the time of visit, but wished to participate later in the study. The data collection was completed in 3 months from January to March 2015.

The technical advisory committee and ethics committee of Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, approved the study protocol. Participants were informed about the voluntary nature of participation and assured of the privacy and confidentiality of the provided information. Each participant was given an individual identification number to distinguish the area (corporation/municipality/panchayath), ward number, household and individual participant. If more than one eligible individual in one household was willing to participate, they were identified with separate individual numbers.
However, there were few instances of more than one married woman from the same household participating in the study. Data quality was verified throughout the data collection and data entry process. Data analysis was performed using the statistical software Intercooled STATA 14.1 (STATA/IC; StataCorp LP, College Station, TX, USA). Statistical analysis was mainly descriptive. The statistical significance of the relationship between sociodemographic factors and contraceptive use was tested using chi-squared test for association. The open-ended question meant to explain the reasons for preferring a particular method when the desired family size was complete was recorded in the provided space in the interview schedule. The survey was conducted in Malayalam and the data entry operator translated the quotes to English and entered them in an Excel sheet. The author verified all translations one by one and did the necessary editing and summarized them.

**Results**

The reproductive characteristics of married women are listed in Table 1. The average age at marriage was 21.3 years, and the mean difference of age at marriage and age at first child birth was 1.1 years (n=157). Around 23% of women

| Characteristic                        | Frequency | %   |
|--------------------------------------|-----------|-----|
| Number of children                   |           |     |
| One                                  | 110       | 54.2|
| Two                                  | 41        | 20.2|
| More than two                        | 6         | 3.0 |
| None                                 | 46        | 22.7|
| Women currently pregnant*            | 32        | 15.8|
| Women’s opinion on ideal age difference between two children (n=203) | | |
| ≤2 years                             | 16        | 7.9 |
| 3–5 years                            | 176       | 86.7|
| >5 years                             | 11        | 5.4 |
| Comfortable with the gap between childbirths (n=47) | | |
| Emotionally comfortable              | 42        | 89.4|
| Physically comfortable               | 43        | 93.5|
| Physically and emotionally comfortable| 40        | 85.1|
| Either physically or emotionally uncomfortable or physically and emotionally uncomfortable | 7 | 14.9 |

**Table 1 Reproductive characteristics of married women**

| Characteristics                        | Mean (SD) | Range |
|----------------------------------------|-----------|-------|
| Age at marriage (n=203)                | 21.3 (2.3)| 16–28 |
| Age at first child birth (n=157)       | 22.4 (2.24)| 17–27 |
| Age at most recent birth (if more than one child; n=47) | 24.6 (1.67)| 20–27 |

**Note:** *Twenty-three women who had no children, seven women who had one child, and two women who had two children were pregnant at the time of interview.*

**Figure 1** Summary of the survey and participating women.
had more than one child, and the difference in the average age at first child birth and most recent child birth was only 2.2 years (n=47). Only 11.3% (n=23) of 18–28-year-old married women were neither pregnant nor having a single child. Majority of women reported that the ideal age difference between two children was 3–5 years, and 85% of women who had more than one child were physically and emotionally comfortable with the gap between their two deliveries.

The current use of different contraceptive methods is shown in Figure 2. Overall, 118 women were currently using any type of contraceptive method (58%), of which 27 women had opted for female sterilization. Withdrawal method was the most used method, followed by male condoms. Intrauterine device (IUD) was used by only 2% of women and no other modern methods were reported by women. Totally, 85 women were currently not using any contraceptive methods, but half of them were pregnant or had recently delivered (Table 2). The main reason for using only traditional methods is “no interest to use other methods” or “fear of side effects”. Around 84% of women had ever used any method of contraception (Figure 3), in which male condoms was the predominantly used reversible method (52%).

The opinions of women on factors that can influence the use of contraceptive methods and the number of children are described in Table 3. Perception regarding the safety of the method was reported to be an important factor that determines the contraceptive use, along with the decision of women as well as their husbands. Women were mostly conscious about their own health and financial status to decide on the number of children they need to have. Ten percent of women reported that the decision on number of children was influenced by family pressure, and 16% reported that the desire for a son or daughter also would affect the decision on number of children. Women were also asked about the method they would prefer to use when their family size is complete. The responses on preferred methods and the reasons for preferring a certain method are given in Table 4. More than 90% of women reported that they would prefer tubal occlusion when their family size is complete. Only four women reported that they would prefer vasectomy.

The sociodemographic characteristics of married young women in relation to their current contraceptive use and the preference for female sterilization are described in Table 5. Though the overall prevalence of female sterilization was 13.3%, it was significantly higher among women aged 25–28

![Figure 2](https://www.dovepress.com/)

**Figure 2** Current use of contraceptive methods among 18–28-year-old married women in Trivandrum.

**Abbreviations:** CuT, copper T; IUD, intrauterine device.
Contraceptive use among young women in Kerala

years than those aged 18–24 years (20% vs 2.6%, \(p<0.001\)).

A significantly lower prevalence of female sterilization was observed among women with higher levels of education than women with education of 12 years or below 12 years (5.8% vs 19%, \(p=0.006\)). The current use of any contraceptive method was also significantly lower among highly educated women compared to women with the education level of 12 years or below 12 years (5.8% vs 19%, \(p=0.006\)). Preference for tubal occlusion was significantly less among highly educated women than the other group (85% vs 95.7%, \(p=0.008\)).

Table 2 Reasons for current nonuse of contraceptive methods

| Reasons                                      | For not using any contraceptive method (\(n=85\)) | For using only traditional method (not using any reversible method; \(n=47\)) |
|----------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|
|                                               | Frequency* | %   | Frequency | %   |
| Trying to become pregnant                    | 20         | 23.5|           |
| Husband’s disapproval                         | 2          | 2.4 |           |
| Not aware of how to use it                    | 1          | 1.2 |           |
| Now pregnant/recently delivered              | 44         | 51.8| 3         | 6.4 |
| Husband is abroad/sexual relation is rare    | 15         | 17.7| 1         | 2.1 |
| No interest/fear of side effects             | 26         | 30.6| 43        | 91.5|

*Multiple answers were possible.

Table 3 Factors affecting contraceptive use and decision on number of children – opinions of married women

| Questions asked                                      | Frequency* | %   |
|------------------------------------------------------|------------|-----|
| In your opinion, what are the determinants of your contraceptive use? |            |     |
| Own decision                                         | 203        | 100.0 |
| Husband’s decision                                   | 203        | 100.0 |
| Perception regarding safety of the method            | 198        | 97.5 |
| Recommended by doctor                                | 91         | 44.8 |
| Advertisements                                       | 34         | 16.8 |
| In laws’ approval                                    | 5          | 2.5 |
| Religious belief                                     | 3          | 1.5 |
| Approval by friends                                  | 1          | 0.5 |
| What are the factors affecting your decision on number of children? |            |     |
| Own health                                            | 136        | 67.0 |
| Financial status                                     | 113        | 55.7 |
| Desire for a son or daughter                         | 33         | 16.3 |
| Familial pressure                                    | 21         | 10.3 |
| Ease of accessibility of family planning services     | 21         | 10.3 |
| Social norms                                          | 3          | 1.5 |

*Multiple answers are possible.

Discussion

The acceptance or denial of contraceptive methods is influenced by individual-, family- and community-level factors. This study provides valid data on the pattern of use of different contraceptive methods among young married women in Kerala, where the women have a better educational and reproductive health status and have a median age at marriage well above 18 years. The use of reversible methods was very low.
and many women were using only traditional methods. There was only one choice for the majority of the women when their family size was complete, except the fact that very few women preferred a vasectomy, IUD, condoms or traditional methods. Regarding the determinants of contraceptive use by them, it is encouraging that all women gave importance to awareness and determinants of contraceptive use among their decision along with their husbands’ decision. In a study by them, it is encouraging that all women gave importance to awareness and determinants of contraceptive use among their decision along with their husbands’ decision.

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Table 4 Preferred contraceptive method and reasons for preferring a particular method when the desired family size is complete

| Methods preferred by married women (N=203) | Reasons                                                                 |
|------------------------------------------|-------------------------------------------------------------------------|
| Female sterilization (tubal occlusion), n=185 (91%) | 1. Safety and surety (n=149, 80.5%)  
2. It is the most common method/most aware of this method (n=64, 35%)  
3. No side effects (n=26, 14.1%)  
4. It can be done along with delivery/women can take rest along with delivery/men’s work will not get affected (n=23, 12.4%)  
5. Does not require follow-up/no need of going and buying each time/can save money (n=21, 11.4%)  
6. Husband is not willing/men will not agree/do not want husband to suffer (n=12, 6.5%)  
7. If a woman wants, it is possible to make her able to conceive again by a surgery (n=4, 2.2%) |
| Male sterilization (vasectomy), n=1 (2%) | 1. “Men need little rest after vasectomy.”  
2. “Wife has to suffer the delivery pain, husband also need to know such worries. But I don’t know what my husband’s opinion is. Any way we will take a decision only after getting two children.”  
3. “I am feared to undergo any operation. So prefer to do vasectomy. I will take a decision only after discussing with my husband.”  
4. “Females are suffering many things like injection, medicines, and pain at the time of delivery. The males also will understand such things if vasectomy is preferred. It is the best thing a man can do for his wife.” |
| Female or male sterilization, n=2 (1%) | 1. “I have some problems with my backbone, and now under treatment. So, the final decision will be depending on my health.”  
2. “If my husband is willing, I prefer vasectomy. Otherwise, I will undergo tubectomy.” |
| IUD, n=1 (0.5%) | 1. “Sterilization is not permitted by our religion. CuT is safer than condom and there is no need to go to buy it regularly.” |
| Male condoms, n=2 (1%) | 1. “I don’t want to suffer the difficulties while undergoing an operation. Condom is safe. If we use any other methods, we need to consult a doctor.”  
2. “Condoms will not make any risk; it has less chance of pregnancy.” |
| Natural methods, n=6 (3%) | 1. “I have no trust in pills and condoms. Tubectomy is a surgery which cuts a part of our body. My husband is so bothered about my health and hence no interest with tubectomy or CuT.”  
2. “Pills have future side effects. CuT can make discomfort and infection.”  
3. “Feared to undergo operation.”  
4. “Withdrawal method has no side effects and also no need to undergo an operation. Also we are confident to follow this method without becoming pregnant.”  
5. “Stopping delivery is against our religious beliefs. But all females in my family and husband’s family did sterilization. But my husband may not allow me to undergo sterilization. Also he is not interested to use any other methods. So we prefer this.”  
6. “If anything happens to the current children there is no way to get more children in the future. So, withdrawal method may be the better. After stopping delivery, one had to prefer test tube babies [if a woman needs another baby after female sterilization, she has to undergo an in vitro fertilization (IVF) or the so called ‘prefer test tube babies’, which will be quite expensive and has no surety of success].” |

Notes: For female sterilization, the number of women reporting a particular reason and its percentage is given. For other methods, the reasons reported by the women are listed because only a few women preferred those methods. The survey was conducted in Malayalam and the data entry operator translated the quotes to English and entered them in the computer, then the author verified all translations one by one and did the necessary editing and summarized them.

Abbreviation: IUD, intrauterine device.
Table 5 Sociodemographic characteristics vs current use and preference for contraception

| Characteristics                          | Number of married women (N=203) | Female sterilization (n=27) | Any modern method other than female sterilization (n=44) | Any traditional method (n=77) | Any method (n=118) | Preferring female sterilization when family size is complete (n=185) |
|-----------------------------------------|---------------------------------|----------------------------|--------------------------------------------------------|------------------------------|-------------------|---------------------------------------------------|
| Age, years                              |                                 |                            |                                                        |                              |                   |                                                    |
| 18–24, n                                | 78                              | 2 (2.6)                    | 16 (20.5)                                              | 29 (37.2)                    | 37 (47.4)         | 74 (95.0)                                          |
| 25–28                                   | 125                             | 25 (20)                    | 28 (22.4)                                              | 48 (38.4)                    | 81 (64.8)         | 111 (88.8)                                         |
| p value                                 | <0.001                          | 0.751                      | 0.862                                                  | 0.015                        | 0.139             |                                                   |
| Religion                                |                                 |                            |                                                        |                              |                   |                                                    |
| Hindu                                   | 123                             | 17 (13.8)                  | 28 (22.8)                                              | 45 (36.6)                    | 73 (59.4)         | 112 (91.1)                                         |
| Muslim                                  | 36                              | 5 (13.9)                   | 7 (19.4)                                               | 15 (41.7)                    | 22 (61.1)         | 32 (88.9)                                          |
| Christian                               | 44                              | 5 (11.4)                   | 9 (20.5)                                               | 17 (38.6)                    | 23 (52.3)         | 41 (93.2)                                          |
| p value                                 | 0.913                           | 0.891                      | 0.853                                                  | 0.661                        | 0.661             | 0.79                                               |
| Type of ration card                     |                                 |                            |                                                        |                              |                   |                                                    |
| APL                                     | 125                             | 15 (12)                    | 32 (25.6)                                              | 48 (38.4)                    | 75 (60.0)         | 112 (89.6)                                         |
| BPL                                     | 71                              | 10 (14.1)                  | 9 (12.7)                                               | 27 (38.0)                    | 38 (53.5)         | 66 (93.0)                                          |
| Nil                                     | 7                               | 2 (28.6)                   | 3 (42.9)                                               | 2 (28.6)                     | 5 (71.4)          | 7 (100.0)                                          |
| p value                                 | 0.441                           | 0.041                      | 0.873                                                  | 0.520                        | 0.512             |                                                    |
| Main activity                           |                                 |                            |                                                        |                              |                   |                                                    |
| Housewives                              | 151                             | 21 (13.9)                  | 29 (19.2)                                              | 55 (36.4)                    | 86 (57.0)         | 142 (94.0)                                         |
| Others*                                 | 52                              | 6 (11.5)                   | 15 (28.9)                                              | 22 (42.3)                    | 32 (61.5)         | 43 (82.7)                                          |
| p value                                 | 0.664                           | 0.146                      | 0.451                                                  | 0.563                        | 0.013             |                                                    |
| Highest educational attainment          |                                 |                            |                                                        |                              |                   |                                                    |
| 12 years or below                       | 116                             | 22 (19.0)                  | 23 (19.8)                                              | 43 (37.1)                    | 75 (64.7)         | 111 (95.7)                                         |
| Highly educated women                   | 87                              | 5 (5.8)                    | 21 (24.1)                                              | 34 (39.1)                    | 43 (49.4)         | 74 (85.1)                                          |
| p value                                 | 0.006                           | 0.461                      | 0.770                                                  | 0.030                        | 0.008             |                                                    |

Notes: Data shown as n, n (%), or p value. *Percentages are taken from row totals, chi-squared test is used to measure the association. †Others: studying/working/job seeking/study completed/waiting to join for another course/study stopped/trainee/taking tuition, and so on.

Abbreviations: APL, above poverty line; BPL, below poverty line.

The pattern of contraceptive use in this study was compared with the United Nations Population Division-WORLD Contraceptive Use data for the survey years 2014–2016. The use of reversible method among 15–49-year-old currently married (or in union) women is above 70% in Democratic People’s Republic of Korea followed by Zimbabwe (65.6%), whereas in India the prevalence is only 11.8%. This study showed a prevalence of 21.7% among 18–28-year-old women, but only 6.9% were using reversible method alone; the remaining 14.8% were using reversible and traditional methods alternatively. There are several countries where the prevalence of female sterilization among 15–49-year-old women is <5%, whereas India is one among the countries with a high prevalence of female sterilization. Dominican Republic shows the highest prevalence of female sterilization (40.7%), followed by El Salvador (37%), Mexico (36.2%) and India (36%). Nepal shows the highest prevalence of vasectomy (4.7%), whereas in India it is only 0.3%. The use of pills is high in Portugal (48.3%) and Zimbabwe (43.9%), but in India it is only 4.1%. The UN data show that the injective methods are quite popular in Indonesia (36.7%) and Ethiopia (31.1%), but are practically nil in India. Though this study population consists of 18–28-year-old women from an Indian state with better socioeconomic position, the pattern correlates with the overall use of contraceptive methods among 15–49-year-old women in India.

In this study, 92% (43/47) of women who currently use traditional method alone reported that the reason for not using any reversible method was fear of side effects or no interest, while 31% (26/85) of women who were not using any contraceptive method also reported the same reasons for nonuse of contraception. The data also show that 68% of women who reported using any reversible methods (30/44) alternatively used traditional methods; thus, the number of women who were using only reversible methods was very low (7%). Even in an educated society, a large number of young women avoid the use of reversible methods, especially IUDs and injectables which are highly effective, due to fear of side effects, which seeks serious consideration of the health authorities. If the traditional method fails, the women either go for an abortion or will continue with the pregnancy though there is a short interval between the pregnancies. Both can affect the health of young women.

In this study, among women who were currently not using any contraceptive method, 52% was either pregnant or had recently delivered. Kunwar et al reported that among mothers, a very high prevalence of using condoms (85.6%) was
found within 6 months of postpartum period, but the use was irregular. They also noticed that 74% of women were sexually active and 54% had resumed menstruation within 12 weeks postpartum, but the use of contraception at this period was only 36%. However, the lack of information on duration of postpartum in the present study precludes looking into the time to initiate contraceptive use after delivery.

Education is an important factor that determines the use of contraception in different ways. In the current study, the low prevalence of contraceptive usage among highly educated women was connected to age at marriage. Women who get married at an early age probably have one or two children before 28 years, and so they need to use either a temporary or a permanent method of contraception; but highly educated women who get married late mostly are trying to conceive, and hence, the current use of any contraceptive method is low among highly educated women in the age group of 18–28 years. A study on determinants of contraceptive use before first pregnancy reported that the contraceptive use was significantly increased if the women had a higher level of education. 

Chaurasia did an exploratory study using a multidimensional approach to analyze contraceptive use pattern among different groups of women. In that study, the prevalence of use of permanent methods was decreased and of modern spacing methods was increased with increasing level of wife’s education. Also, the prevalence of use of modern spacing method increased with higher levels of living standards.

de Oliveira et al also reported that highly educated and professionally skilled women mostly preferred alternative temporary methods, and relatively higher proportion of Muslim women preferred traditional or modern temporary methods than tubal occlusion in their study. Chaurasia also reported that Muslim women showed some type of stigma against permanent methods of contraception. Also, the prevalences of use of modern spacing methods and traditional methods were high among Muslim women who had an average standard of living. But in the present study, I did not find any significant difference in the use of contraceptive methods or in preferring tubal occlusion with respect to women from different religious groups. However, there were three women who reported that religious belief can influence contraceptive use. One woman who preferred IUD and other women who preferred traditional methods when their family size was complete reported that stopping delivery is not permitted or it is against their religious belief.

In this study, more than 90% of women preferred tubal occlusion when their family size was complete. The most reported reason for preference to tubal occlusion was the perception of its safety, surety and its acceptability in the society. Largely, socioeconomic status determines the persistent dominance of tubal occlusion. But since the majority of women preferred tubal occlusion, it is difficult to establish such a relation in this study. However, the importance of education is clearly shown by the data where the preference for female sterilization among highly educated women was 10% less compared to women who had low levels of education. The relationship between preference for tubal occlusion and the occupational status of women also showed the impact of education because the “others” consists of women who were studying/working/job seeking/study completed/waiting to join for another course/study stopped/trainee/taking tuition.

Arora et al reported the reasons for young rural women opting for female sterilization in India. The study highlights that lack of information and/or misinformation about temporary contraception leads to major reliance on female sterilization without thinking about its complications and future regret. In addition, the vigorous promotion of female sterilization often made it the single choice of contraceptive method in women’s reproductive life. The choice of sterilization is common among poor and socially disadvantaged women. Modern contraceptives including sterilization are freely available in the public sector, and women who access the public sectors for sterilization can avail it free of cost.

In the present study also, many women reported that they prefer female sterilization since there is no need of going and buying it each time and it can save money as it is a single time procedure. NFHS3 data showed that majority of women who accepted tubal occlusion never used any contraceptive method before accepting it. It was observed from this study that, among women who accepted female sterilization, 70% (19/23) ever used withdrawal method, 52% (14/23) ever used male condoms and 19% (5/23) of women ever used IUD, and the ever usage of other methods was much less among those who had done female sterilization.

In this study, participants were recruited from all three administrative areas of Trivandrum district based on random sampling, so that I had a representative sample of young married women in Trivandrum district. Due to the differences in socioeconomic position of women, and availability and accessibility of contraceptive services in different states, these estimates are not generalizable for the young women in India. However, the study provides valid estimates for the contraceptive usage of young married women in Trivandrum district, which may be true for the other districts in Kerala state too.
Another thing to be noted is the bias in the observed significantly low prevalence of female sterilization among highly educated young women. The low prevalence of sterilization among highly educated young women may not be due to their decision to avoid sterilization and to choose some alternatives, but due to the delayed marriage and pregnancy. Most of them are waiting for their first baby or still waiting to complete their family size and, hence, do not opt for sterilization before the age of 28. However, the observation cannot be ignored just as a biased result because education indirectly made a difference in the proportion of women who underwent female sterilization under the age of 28 years, which has some positive implication. Also, the proportion of women who reported that they would prefer alternative methods other than female sterilization when their family size is complete was higher among highly educated women than women with a lower level of education. Education makes them think about alternative methods, but how many of those women who wish to choose other methods can choose that method in future is a question, because most often, the final decision will be influenced by the opinions of husband and family members. However, taken as a whole, education shows its impact on the current use of contraception and women’s preferences.

A considerable number of 25–28-year-old married women opting for female sterilization and the unique preference for female sterilization when the family size is complete show the predominant reliance of young women on female sterilization. It shows the lack of proper information on vasectomy and reversible methods and lack of motivation to use reversible methods to avoid post-sterilization regret since they are at a very young age. Not only the lack of information and motivation, but also the economic implications should be taken into account to promote the use of reversible methods among young women. Women empowerment through educational attainment and proper information on the available contraceptive methods can gradually change the dominance of preference for female-oriented permanent method of contraception.

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Disclosure

The author reports no conflicts of interest in this work.

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