INTRODUCTION

Millions of women worldwide would prefer to avoid becoming pregnant either right away or never get pregnant, but are not using any contraception. These women are said to have an “unmet need” for family planning (FP). The concept of unmet need points to the gap between some women’s reproductive intentions and their contraceptive behavior. Unmet need can be a powerful concept for FP programs because it is based on the women’s own statement in answer to survey questions, and it identifies the group most likely to be interested in contraception, but who do not use it. The challenge is for FP to reach and serve these women. The concept of “unmet need” points to the gap between some women’s reproductive intention and their contraceptive behavior. According to National Family Health Survey (NFHS-3) Survey 2005-2006 unmet need for FP was 13% for India and 8.9% for Tamil Nadu. More married women with unmet need live in India than in any other country – approximately 31 million. While FP needs of the majority of women (86%) who wish to stop childbearing are being satisfied, the needs of women who wish to delay or space childbearing remain largely unsatisfied, (only 30% of these women have their needs met). For this reason, young women are more likely to report an unmet need for contraception. The desire to limit family size and to space births are the main reasons given by the majority of those who seek an abortion, which highlights the huge unmet need for contraception for women in India.

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According to the NFHS (2005-2006), nearly 21% of pregnancies are either unwanted or mistimed. The NFHS-3 survey (2005-2006) indicated that the unmet need for FP in India was 13% with 6.2% for spacing and 6.6% for limiting.[3]

Using multi-stage cluster sampling the unmet need for FP in different social and demographic groups in selected districts in Tamil Nadu, namely, Madurai, Kamarajar, Pudukottai, Thanjavur and Nagapattinam was estimated by Ramanujam et al. (2005). The percentage of unmet need for FP ranged from 50% in Madurai to 63% in Nagapattinam. It was 56% in Kamarajar and Thanjavur, 61% in Pudukottai and 57% in all the five districts combined. The unmet need for spacing was 1.6 times more than that of limiting births.[4] NFHS-3 report (2006) showed that the rural women had a higher unmet need than urban women for spacing and limiting.[5]

According to NFHS-3 Survey 2005-2006, the unmet need for FP was 13% for India and 8.9% for Tamil Nadu.[6] The use of spacing methods has remained low over the years. In 1990s, the use of contraceptives had declined even in the demographically advanced states like Tamil Nadu. The unmet need of FP was 8.8% for urban areas and 9.1% in the rural areas of Tamil Nadu. The prevalence of contraceptive use in Tamil Nadu is 61%.[7]

A community-based study done among married women in a rural settlement in Aurangabad (2001) showed that the prevalence of unmet need was 20%. The main reasons for this were low perceived risk of pregnancy (32.5%), lactation (31%) and ignorance (12%).[8]

Not many available published community based studies have assessed the unmet need of FP in the urban areas of Chidambaram, Cuddalore District. It is against this background that the present study was conducted with the objective of determining the prevalence of unmet need for FP and its socio-demographic determinants among married women of reproductive age in Chidambaram.

MATERIALS AND METHODS

The study was conducted in the urban areas of Chidambaram, Cuddalore district, Tamil Nadu. According to the 2001 census, the population of Chidambaram is 56,946, consisting of 33 wards with approximately 11,390 households. Married women of reproductive age from 15 to 49 years residing in the 33 wards of Chidambaram were taken as the study group. The study was done from December 2008 to June 2009. It was a community-based cross-sectional study.

Data collection

This was done using a pre-tested structured questionnaire which included the following information:

- Socio-demographic characteristics like age, education, occupation, family income, age at marriage and first birth, family size, whether the woman approved of FP
- Assessment of unmet need and reasons for it whether pregnant or not, whether currently using any contraceptive or not, and the reasons for this
- Assessment of contraceptive knowledge: By asking to name any temporary and/permanent methods of contraception, side effects of contraceptive devices
- Informed choice in FP where and how the women get information on FP, whether they know about the cafeteria approach in FP
- Assessment of male participation in FP. Whether the women discuss FP with their husbands, whether he helps her to choose FP method, whether he has used or opposes the use of FP methods

Sampling method

The sample size calculated using the formula $4pq/l^2$ was found to be 700.

Cluster sampling method was adopted. Among the 33 wards, 30 wards were selected. From each cluster, 24 women of reproductive age group were selected.

Cluster identification was done as follows:

The cumulative population of the wards was found out. This was divided by the number of clusters (33) which gave the sampling interval 56,946/33 = 1745. A number was randomly selected from the random number table numerically less than the sampling interval. This was taken as the starting point to which the sampling interval was successively added till 30 clusters were identified, corresponding to the cumulative population of the respective wards. The first house in a cluster was randomly selected. Starting with this household, a house-to-house survey was done till 24 married women in the reproductive age group were identified. The following information was collected by the interview method-age, religion, educational and occupational status, per capita income, age at marriage, age at first delivery, contraceptive knowledge and use, informed choice in FP, any opposition to contraceptive use, and male participation in FP.

Inclusion criteria

The inclusion criteria were women in the reproductive age group of 15-49 age group who were currently married. (Women who were married, who were not using any method of contraception, but who either did not want any more children or wanted to wait for 2 or more-years-before having another child.)

Exclusion criteria

The exclusion criteria were unmarried women, separated/divorced women, widows, pregnant due to contraceptive failure.
Data analysis
Prevalence of unmet need assessed by proportions and determinants of unmet need were analyzed by Chi-square test using SYSTAT package.

RESULTS
Of the 700 married women, 276 had an unmet need for FP. The prevalence was 39% in the study area of Chidambaram [Table 1]. In the study population, the majority were in the age group of 25-29 years which constituted 24.2% of the study population. The educational background of the women showed that 6% were illiterate, 29% had primary education, 42% had middle school education and 4% had degrees/postgraduate degrees. The unmet need for spacing was found to be 12 and 27% for limiting of births [Table 2].

Among the determinants of unmet need for FP, age group, education, occupation of the husbands of respondents, age at marriage, age at first child birth, number of children, desired family size, contraceptive knowledge, opposition to the use of contraceptive methods and male participation in FP had a significant association as shown in Table 3. Unmet need was highest (29%) among those aged between 25 and 29 years. It was seen that unmet need decreased as age advanced (P = 0.0000). There was a significant association between husband’s occupation and unmet need for FP. Out of those <20 years, 31% had unmet need for FP and 30% had no unmet need. Of the 52% of the women who were married by the age of 20-24 years, 49% had unmet need for FP. There was a significant association between age at marriage and unmet need. As age at marriage rose unmet need decreased (>35 years). 61% of those who had an unmet need for FP knew about only one method of FP, 20% knew about two methods, 6% had knowledge of three methods and 13% were not aware of any methods. Those who had better contraceptive knowledge were found to have fewer unmet needs. Statistically, there was a significant association between opposition to the use of contraception and unmet need. Of the respondents who were opposed to the use of contraceptive methods, 13.2% had unmet need. The major reason for this among the married group was low perceived risk of pregnancy (18%), 9% were afraid of the side effects of contraception, 5% lacked information on contraceptives, 4% had opposition from husbands and 3% gave medical reasons [Table 4].

DISCUSSION
A cross-sectional study on the prevalence of unmet need for FP of married women of reproductive age group was conducted in the urban area of Chidambaram. The study also aimed at finding out the determinants of unmet need for FP in the study population. Of the 700 married women interviewed, 276 (39%) had an unmet need for FP.
12% for spacing and 27% for limiting. The District Level Household surveys (DLHS) carried out in Tamil Nadu in 2008 showed an unmet need of 19.4% for spacing and 12.9% for limiting.[4] The NFHS-3 survey for unmet need was 13% for India and 8.9% for Tamil Nadu. There is a clear relationship between women's age and the level of unmet need. Most unmet need of younger women is for spacing births, whereas for older women it is for limiting births. Unmet need typically peaks for many women in their thirties and then declines in the forties.

The study showed that 24.2% was in the 25-29 age groups, where unmet need was at its highest (29%). The unmet need was found to increase with higher educational status. These findings are in accordance with those of various other studies conducted elsewhere.[5-8] The majority of women belonged to the nuclear family, i.e., 72%, and 28% were from joint families. In this study, 424 (61%) of the 700 women interviewed had no unmet need for FP. 53% had undergone permanent sterilization and 3% were using intrauterine devices (IUDs). None of them took oral pills. It was found that those who had a better knowledge of FP methods had less unmet need.

According to NFHS-3 (2006) two-thirds of the women currently married have used a FP method at some point in their lives.[3] National average percentage of women using any methods of contraception is 48%. The DLHS for Tamil Nadu (2008) reported similar findings of 53% for permanent sterilization and 3% users of IUDs. The major reason for not using any FP methods was low perceived risk of pregnancy (18%). Spinell noted that when a woman believes that she is unlikely to become pregnant, she may not be interested in contraception.[9] The other reasons in this study were the fear of the side effects of contraceptive methods (9%), lack of information (5%), opposition from husbands (4%) and medical reasons (3%). Ghosh et al. in Kolkotta observed that 25% of women did not accept contraceptive methods because of concerns about health and side effects.[9] For 69% of the women, the source of informed choice was the health care worker. A family member/neighbor was the source for 26% and mass media for 3%. According to 53% of respondents, detailed information on FP methods was provided by doctors. Eighty-four percent of the women had discussed FP methods with their husbands. Male participation in shared responsibility and counseling was very poor. Only 3% of the men used condoms. Ninety-six percent had nothing against their wives’ use of contraception. De Graft and De Silva in a Sri Lankan study (1997) reported that men and women who discussed FP were more likely to use contraception effectively and have fewer children than those who did not.[10] The critical role of the husband has been noted in several studies by Santhya et al. (2001),[11] and Jejeebhoy (2003) on decision-making relating to the use of contraception, especially during the early years of marriage.[12] A Reproductive Health Survey in Uttar Pradesh (1997) showed that 87% of women with unmet need said that the decision to use contraception ultimately rests with the husband. Seventy-five percent of men with secondary or higher education approved of FP.[13]

Limitations of the study

- In spite of the best efforts to get the correct age by cross checking, women older than 49 years might have been included in the 45-49 age group, thereby increasing the proportion of women with unmet need particularly for limiting births.
- Operational definition of unmet need has its own ambiguity. Especially those who are not sexually active beyond 35-40 years and are relatively not fecund would influence the unmet need towards the higher side. In fact, for them, there is no need for FP, especially in the Indian context.

CONCLUSION AND RECOMMENDATIONS

Over the last two decades, there has been a growing interest in estimating women's unmet need for contraceptive services. While the FP needs of the majority of women (86%) who wish to stop childbearing are being satisfied, the needs of women who wish to delay or space childbearing remain largely unsatisfied (only 30% of these women have their needs met).

The present study has revealed a high prevalence of unmet need for FP for which the following recommendations are suggested:

- One of the key findings in the study was the poor support for spacing methods (3% for IUDs). Efforts should be made to identify the issues in a case by case approach so that the Health care provider can tailor the spacing method to each case as appropriate.
- Couples should be given FP counseling together. Inter-spousal communication and joint decision making should be encouraged. The deficiency in this area was observed in this study.

| Table 4: Reasons for unmet need of family planning |
|-----------------------------------------------|
| Reasons                                      | No. (%) |
| Lack of information                          | 14 (5)  |
| Fears of side effects                        | 25 (9)  |
| Opposition from family                       | 11 (4)  |
| Little perceived risk of pregnancy           | 50 (18) |
| Medical reasons                              | 7 (3)   |

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Various aspects of men’s participation as reported in this study was very poor. It is recommended that men’s participation in decision making on FP and care about reproductive health should be encouraged. There should be programs to address young men’s reproductive issues through adolescent care clinics.

In the present study, the source of informed choice was attributed to the mass media by 3% of women only. More emphasis should be given to the dissemination of reproductive and contraceptive information through the mass media in order to get a wider circulation.

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