Spousal communication on family planning and perceived social support for contraceptive practices in a sample of Malaysian women

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ABSTRACT

Background: In Malaysia, contraceptive prevalence rate (CPR) during past three decades has been steady, with only 34% of women practicing modern contraception. The aim of this study was to determine the factors associated with modern contraceptive practices with a focus on spousal communication and perceived social support among married women working in the university.

Materials and Methods: A cross-sectional study was carried out using self-administered structured questionnaire. The association between variables were assessed using Chi-square test, independent sample t-test, and logistic regression.

Results: Overall, 36.8% of women used modern contraceptive methods. Significant association was found between contraceptive practice and ethnicity (P = 0.003), number of pregnancies (P < 0.001), having child (P = 0.003), number of children (P < 0.001), positive history of mistimed pregnancy (P = 0.006), and experience of unwanted pregnancy (P = 0.003). The final model showed Malay women were 92% less likely to use modern contraception as compared to non-Malay women. Women who discussed about family planning with their spouses were more likely to practice modern contraception than the women who did not [odds ratio (OR): 2.2, Conﬁdence Interval (CI): 1.3–3.7]. Those women with moderate (OR: 4.9, CI: 1.6–10.8) and strong (OR: 14, CI: 4.5–26.4) perception of social support for contraceptive usage were more likely to use modern contraception than the women with poor perception of social support.

Conclusion: Spousal communication regarding family planning would be an effective way to motivate men for supporting and using contraceptives. Family planning education initiatives should target both men and women, particularly high-risk cases, for promoting healthy timing and spacing of pregnancies. Ethnic disparities need to be considered in planning reproductive health programs.

Key words: Contraceptive practices, family planning, social support, spousal communication

INTRODUCTION

According to the World Health Organization estimates, about 210 million pregnancies occur each year, one-third of which are unintended. Most of them end in still births, miscarriages, and induced abortions.[1] Five million women are hospitalized each year for treatment of abortion complications such as hemorrhages and sepsis.[2] When abortion is restricted by law and women have limited access to safe abortion, the rate of unsafe abortion increases.[3] In Malaysia, abortion is permitted to save the woman’s life or to preserve her physical or mental health.[4] It lacks implementation and there is restricted access to abortion care in the public health care system.[5] Doctors are reluctant to provide abortion services, even to women who are legally qualiﬁed.[6] A high proportion (98%) of unsafe abortions occurs in the developing countries. Unsafe abortion is said to cause 13% of the maternal deaths or 68,000 deaths each year.[1,7]

Promoting family planning contributes substantially to improving maternal health, reducing child mortality, and for women’s empowerment.[8,9] This requires that women have access to safe and effective contraceptive methods. Promoting family planning can help avoid unwanted pregnancy among reproductive women. Thus, improving maternal health is the core to achieving the Millennium Development Goal (MDG).[10]

Family planning also has potential to prevent high-risk pregnancies. Studies have shown significant association
between parity, maternal age, and pregnancy outcomes such as obstetric complications, perinatal death, and neonatal morbidity, after adjusting for socioeconomic and demographic confounders. An important aspect of family planning is Healthy Timing and Spacing of Pregnancy (HTSP) which helps women and couples space or delay their desired pregnancies, in order to achieve the healthiest outcomes for mothers and babies within the context of free and informed choice. 

It is estimated that 90% of abortion-related and 20% of pregnancy-related morbidity and mortality, along with 32% of maternal deaths, could be avoided by effective contraceptive practices. In developing countries, about one in every six married women faces an “unmet need” for family planning. Demographic Health Survey (DHS) defined a woman to have an unmet need for contraception if she is fecund, sexually active, not using any form of contraception, and does not want a child for at least 2 years (spacers) or wants no more children (limiters). The importance of the unmet need for family planning was clearly restated by the Programme of the Action of the International Conference on Population and Development (ICPD) as “Government goals for family planning should be defined in terms of unmet needs for information and services” and that all countries should, over the next several years, assess the extent of national unmet need for good-quality family planning services. One of the goals of ICPD includes 50% reduction in the unmet need for contraception by 2005 and its total reduction by 2015. A revitalization of the agenda is required and political willingness is also required to incorporate family planning into the development arena.

Studies have shown that family planning information availability and proper counseling, demographic characteristics, cultural and religious beliefs, and economic and education level of the women can also affect the selection of a modern contraceptive method. Husbands’ opposition to the use, fear of side effects, health concerns, and dissatisfaction with sexual sensation when using them have been identified as obstacles to the use of modern contraceptives.

Lack of knowledge of modern contraceptive methods and their mechanism of action has been cited as one of the major reasons for the non-use of contraception by women. Due to lack of knowledge on reproductive physiology and fertile period among women, especially adolescent girls, they may not be effectively assessing their risk of getting pregnant when they have occasional or infrequent sex.

Furthermore, the importance of cooperation and support from men as partners is undeniable. Studies have shown that involving men in family planning counseling does increase contraceptive adoption, satisfaction of clients, effective use of contraception, and contraceptive continuation. Husband’s opposition has been reported as the main factor for not using any contraceptive methods among Turkish married women. In South Asia, apart from husbands, the role of peers, mothers-in-law, and elders in contraceptive decision-making is well documented. Urban women in Pakistan are more likely to use family planning if their mothers-in-law have discussed it with them as an option for their families.

Several studies demonstrated strong positive association between spousal communication and use of contraceptive methods. The communication between husband and wife about family planning and the desired number of children is closely linked to successful contraceptive use.

In Malaysia, the use of modern contraceptive method among married women is low. Contraceptive prevalence rate (CPR) during past three decades has been steady at about 50% for any method. In terms of modern contraception, only 34% of women practice these methods. The Reproductive Rights Advocacy Alliance Malaysia (RRAAM) reported that unwanted pregnancies are increasing due to low contraceptive practice among Malaysian women. Reports from Confidential Enquiries into Maternal Death (CEMD) Malaysia 2001–2005 revealed that in up to 70% of the maternal deaths, any form of family planning was not followed. Maternal mortality due to postpartum hemorrhage (PPH) was greater among mothers with high parity, short birth intervals, with lack of antenatal care, and higher maternal age.

There is a lack of published data in Malaysia about the factors influencing modern contraceptive use with a view on women’s spousal communication and their perceived social support for using modern contraception. This study was planned to determine the factors associated with modern contraceptive practices among married female women working in a university. Findings of the study can provide health policymakers with the information needed to develop strategies to improve contraceptive practices among couples, especially among women in a university.

Materials and Methods

A cross-sectional study was carried out among married female staff in the university. The list of married women between the ages of 20 and 49 years was obtained from the Registrar’s office according to each faculty. Out of
15 faculties in the university, 9 faculties were selected randomly. The academic and non-academic staff of each faculty were selected using stratified random sampling. All married female staff (576) in selected faculties were invited to participate in this study. The women who were pregnant, infertile, menopausal women, medical lecturers as well as nurses were excluded from the study. The data for the study were collected using validated, reliable self-administered questionnaire which was written in Malay. Reproductive health knowledge scale was developed by researchers based on the World Health Organization guideline, Decision-Making Tool for Family Planning Clients and Providers (2005), and was divided into modern contraceptive knowledge (17 items) and reproductive system and sexually transmitted infection (STI) knowledge (9 items). Knowledge on modern contraceptive methods investigated included general awareness about contraceptive methods, indication, mode of action, and side effects of the methods. Knowledge on reproductive system and STI included physiology of human reproductive organs and STIs including HIV and its prevention. For the knowledge questions, the respondents were requested to respond to individual statements using the options “Yes,” “No,” or “Do not know.” For scoring of knowledge items, the respondents were given one point for answering correctly and no points for answering wrongly or that they did not know the answer. Respondents’ knowledge scores were summed up and then categorized as good (>75th percentile), moderate (50th–75th percentile), and poor (<50th percentile). Participants’ perceived social support from husbands and peers for contraceptive use was measured by seven items adopted and modified from a previous study. All items related to this scale were scored on 5-point Likert scale from 1 (strongly disagree) to 5 (fully agree). Total score for perceived social support ranged from 7 to 35. Respondents’ perceived social support scores for modern contraceptive practice were categorized as follows: Poor if they obtained <50th percentile, moderate for 50th–75th percentile, and strong for >75th percentile.

Content validity of the questionnaire was ascertained by two medical doctors and a midwife. Pretesting of the questionnaire was carried out among 40 married female staff working in the administration building of the university to ensure that the respondents understood the items and to measure the reliability (internal consistency) of the scales in the questionnaire.

The Cronbach’s alpha coefficient was 0.78 for modern contraceptive knowledge, 0.71 for knowledge on reproductive system and STI, and 0.86 for perceived social support. The Cronbach’s alpha coefficient for all scales was above 0.70, indicating that the questionnaire had adequate reliability.

Outcome variable in this study was modern contraceptive practice. A positive response was recorded if the woman or her husband was using any form of modern contraceptive methods within past 1 month. Oral contraceptive pills (OCP), injectables, condom, intrauterine device (IUD), implant, male sterilization (vasectomy), and female sterilization (tubal ligation) were considered as modern contraceptives. The independent variables studied were socio-demographic and reproductive health variables, reproductive health knowledge, having discussion with spouse about family planning methods, and perceived social support for contraceptive practice. Unintended pregnancy was classified as mistimed and unwanted. In this study, mistimed pregnancy was defined when pregnancy occurred sooner than the desire time and an unwanted pregnancy was defined when the woman reported that she did not want a child at the time of conception or any time in the future. In the study, high-risk women for pregnancy were considered those aged >35 years, having high parity (≥5 pregnancies), or having a child younger than 2 years.

**Statistical analysis**

Data were analyzed using IBM, SPSS Inc., Chicago, USA. Significance level was set at $P < 0.05$. Descriptive analysis was presented in terms of frequency, percentage, means, and standard deviations. Chi-square test was used to determine the associations between categorical variables. Fisher’s exact test was used to examine the association among categorical variables since the study sample size and cell sizes were relatively small. Independent sample $t$-test was used to compare the means of the two groups of an interval or the ratio of variables. The variables that were significant in the bivariate analysis were re-examined in the multivariate analysis. Binary logistic regression was conducted to identify the significant predictors after controlling other variables.

**Ethical considerations**

The Ethics Committee of the Faculty Medicine and Health Sciences, Universiti Putra Malaysia reviewed and approved the study protocol. From all married female staff who agreed to participate in the study, informed consent was obtained prior to their involvement in the research.

**RESULTS**

**Socio-demographic and reproductive health characteristics**

Out of 576 eligible women, 386 responded giving a response rate of 67%. The overall mean age of respondents was 34.53 years ($SD = 7.27$). Most of the participants were aged between 31 and 40 years. Minimum age was
24 years and maximum age was 49 years. Overall mean age of participants’ husbands was 37.10 years (SD = 8.37) with a range of 24–58 years. The mean working experience in years was 10.99 (SD = 7.81). Majority (61.7%) of the respondents had working experience of less than 10 years. The mean total household income was Malaysian Ringgit (RM) 5561 (SD = 3871). The mean age at marriage and duration of marriage was 25.1 (SD = 2.95) and 9.37 (SD = 7.75), respectively. The mean number of children was 2.49 (SD = 1.41) with a minimum of 1 and a maximum of 11. Overall, 51% of women used any of the contraceptive methods, of which 36.8% used modern and 14.2% practiced traditional contraceptive methods. Among the modern contraceptive users, OCP was reported as the most prevalent contraceptive method (51%), which was followed by IUD (19%), condom (17%), and injection (5.1%) [Figure 1]. Figure 2 shows the modern contraceptive practices among high-risk women, who were above 35 years, with high parity (≥5 pregnancies), and those with a child younger than 2 years. A majority (87%) of the respondents had heard about modern contraception. Awareness of specific modern contraception was as follows: For OCP (92%), IUD (83.4%), injectable (89%), implant (78.5%), male condom (93.5%), and female sterilization (85.5%); only 46% of the participants knew about vasectomy. Regarding modern contraceptive knowledge, overall, 15% of the participants had poor knowledge, 45% had moderate knowledge, and 40% had good knowledge.

Respondents’ knowledge on reproductive system and STI was poor in 53%, moderate in 35%, and good in 12% of the participants. Out of 386 respondents, 48% had discussed about family planning with their spouse while 52% had not. About one-third (32%) of the participants had strong, 52% had moderate, and 16% had poor perceived social support for modern contraceptive use.

Table 1 shows the association between use of modern contraceptives and background variables such as age, husband’s age, income, ethnicity, and religion. Significant association was found only between ethnicity and modern contraceptive practice. The proportion of non-Malay women was more (7.7%) among contraceptive users compared to non-users (1.6%, \( P = 0.003 \)). Table 2 shows the association between reproductive health factors and modern contraceptive practice. The mean number of pregnancies was significantly higher among modern contraceptive users (M = 3.04, SD = 1.70) compared to non-users of the methods (M = 2.32, SD = 1.86) [t (384) =1.59, \( P < 0.001 \)]. Those women who had child more likely practiced modern contraception compared to childless women \( [\chi^2 = (1, 386) =8.75, P = 0.003] \). The relation between number of children and modern contraceptive use was significant \( [\chi^2 = (2, 338) =17.26, P < 0.001] \). A large majority (90.2%) of contraceptive users had between one and four children and only a small proportion (9.8%) of women with more than four children practiced modern contraception.
There was significant association between modern contraceptive practice and a past history of mistimed pregnancies \[\chi^2(1, 386) = 7.47, \ P = 0.006\]. Experience of mistimed pregnancies was higher among modern contraceptive users (29.6%) as compared to non-users (17.6%). Similarly, significant association was found between modern contraceptive practice and a positive past history of unwanted pregnancies \[\chi^2(1, 386) = 8.56, \ P = 0.003\]. Experience of unwanted pregnancies was more (17.6%) among modern contraceptive users than among non-users (7.8%).

Table 3 shows that women who had good contraceptive knowledge significantly practiced modern contraceptive methods as compared to women with moderate or poor knowledge \[\chi^2(1, 386) = 12.023, \ P = 0.002\], while no significant association was found between knowledge of reproductive system–STI and modern contraceptive practice \(P = 0.194\). There was significant association between spousal communication and modern contraceptive practice \[\chi^2(1, 386) = 131.5, \ P < 0.001\]. Modern contraceptive users discussed with their spouses about family planning more than non-users (50.5% vs. 24.5%). Furthermore, significant association was found between perceived social support and modern contraceptive practice \[\chi^2(2, 386) = 58.64, \ P < 0.001\].

The observed association in bivariate analysis was further re-examined by logistic regression to identify adjusted association with the probability of using modern contraception [Table 4]. The variables such as ethnicity, discussing with spouse about family planning, and perceived social support are significant predictors of using modern contraceptives after controlling for other variables. Malay women [92%; odds ratio (OR): 0.082, 95% Confidence Interval (CI): 0.01–0.33] were less likely to use modern contraception as compared to non-Malay women. Further, those women who discussed with their spouse about family planning were 2.2 times more likely to practice contraceptive methods than those who did not (OR: 4.9, CI: 1.6–10.8; \(P < 0.01\)). Moreover, those women who had moderate (OR: 4.9, CI: 1.9–10.8) and strong (OR: 14.2, CI: 4.5–26.4) perception of social support for using modern contraceptives are more likely to use the contraceptive methods as compared to women with poor perception of social support. Nagelkerke \(R^2\) value was 0.325, suggesting that 32.5% of the variation in modern contraceptive practices is explained by the three predictor variables: Ethnicity, spousal communication, and perceived social support [Table 4].
DISCUSSION

This study assessed the contraceptive practices and factors associated with modern contraceptive practices among married women at a public university in Malaysia. The CPR was almost the same as the recently reported figure (in 2004) by National Population and Family Development Board, i.e. 51.7%. In the current study, about 37% of the subjects practiced modern contraceptive methods. The study revealed that a majority (>60%) of women in reproductive age did not practice modern contraception. Poor contraceptive practice placed women at risk of unintended pregnancy and its negative health outcomes. The contraceptive practice among married female staff in the university was found to be relatively low in comparison with modern contraceptive practice in neighboring countries like Singapore (55%), Thailand (70%), and Vietnam (67%).[43] In this study, the Muslim majority Malay women were less likely to practice modern contraceptives as compared to non-Malay women. The low usage of contraception, particularly permanent methods, may reflect the women’s religious belief that contraceptive practice is not permitted by Islam and putting a stop to pregnancy is considered a sin.[30,44] It should be noted that Islam generally permits reversible contraceptive methods and Islamic guiding principle for using contraception is safety of the method, legality, and only should be used in the context of marriage.[45-48] From the Islamic perspective, any contraception that is reversible and does not induce abortion can be used.[49,50] Muslim women were more likely to discontinue using contraception due to bleeding and pain than Protestant women. Because of the problems caused by some contraceptive method and inability to follow the religious rituals, Muslim women were more likely to stop the use of contraceptive.[51,52]

The findings of this study showed that about one-quarter of the respondents had experienced mistimed pregnancy and 11% had a positive history of unwanted pregnancy. This
reflects that a higher proportion of unintended pregnancies occurred among those women who desired to delay their childbearing than those who wanted to limit their fertility.

Studies have shown that unintended pregnancy is associated with risky prenatal behaviors that increase poor pregnancy outcomes such as low birth weight, prematurity, and abuse among children born of unintended pregnancy.[53-55]

Prevention of pregnancy is more important among high-risk groups, namely subjects who are in postpartum period, breastfeeding women, those with high parity (≥5 pregnancies), >35-year-old women, and those approaching menopause. Globally, delayed childbearing and decline in birth rate are becoming general phenomena. The risk of adverse obstetric and perinatal outcome is increased by advancing maternal age.[14] Therefore, the physicians and health staff should explain the risk of advancing maternal age to clients who are planning a pregnancy. In the present study, more than half (58.5% out of 142) of the women who had a child below 2 years and also more than half (59% out of 136) of the women who were above 35 years old did not use modern contraceptive, which increases the chance of unintended and risky pregnancies. Studies have shown that inter-pregnancies interval of 3–5 years could raise the chance of infant and maternal survival by 2.5 times compared to children born at an interval of ≤2 years.[56,57]

Although a majority of participants were aware of modern contraception, their specific knowledge about modern contraception was inadequate. More than half (60%) of the participants had poor and moderate knowledge about the methods. Majority of the participants also lacked adequate knowledge about reproductive system and STI, whereas only 12% were found to have good knowledge. The importance of spousal communication for the use of contraception has been highlighted in several studies.[58-60] Investigation of the influence of spousal communication on the use of family planning methods in rural Nepal and Myanmar showed a strong positive impact of spousal communication on contraceptive use.[61,62]

It was found in the present study that women who had discussion with their spouses about family planning were 2.2 times more likely to practice modern contraception than the women who did not.

Studies have shown that exposure of women to physical abuse within their marriage significantly decreased contraceptive use among them.[63-66] It may be related to women’s low power in abusive marriages to negotiate contraceptive methods’ usage with their husbands and are captured in a violent relationship with fewer options including autonomous family planning decisions.

Involving influential community members in family planning program can positively change couples’ contraceptive behaviors. A community-based intervention conducted among young couples in India and influential people such as parents, in-laws, and those who have a role in shaping family planning decision-making of young people was able to positively influence contraceptive behavior change of young couples.[67] The result of this study indicated that those women who had moderate or strong perception of social support for using modern contraceptives were more likely to use the contraceptive methods as compared to women with poor perception of social support. This finding is in agreement with Samandari et al.’s findings which showed that those women who believed that their husbands had a positive attitude toward contraception were more likely to use a method than those who did not (OR: 3.4, P < 0.001), while the women who were nervous about discussing contraception with their husbands were less likely than others to use a method (OR: 0.6, P < 0.05).

Similarly, Agha in Pakistan demonstrated the perception of women that their in-laws’ support in contraception use was the strongest determinant of their intentions to use hormonal contraceptive methods (OR: 2.12, CI: 1.68–2.68; P < 0.001), IUD (OR: 2.18, CI: 1.60–2.98; P < 0.001), and female sterilization (OR: 2.19; CI: 1.78–2.70; P < 0.001) in the next 12 months.[68] In Malaysia, men’s role in family planning program and their contribution were not acknowledged.[69] Men need to be more involved in health educational programs for support and family planning practices. This study was carried out among married educated women in a public university, who may not be a representative sample of Malaysian women. More investigations need to be conducted in the actual community. The study showed that modern contraceptive use was low among married women in the university. Ethnicity, family planning spousal communication, and perceived social support were the most important predictors of modern contraceptive practices among married women in the university. Majority of the reproductive age women were at risk of unintended pregnancy, which can lead to poor maternal and child health outcomes. Serious attention should be paid to women with risk factors for high-risk pregnancies. Family planning education programs should target all the women in reproductive age, especially those who are in breastfeeding period, those with high parity, of advanced age, and approaching menopause, for promoting HTSP. Therefore, educating women can contribute to improve maternal and child health that is the central goal of the MDG four and five.
ACKNOWLEDGMENT

The authors wish to thank the deans of all faculties in University Putra Malaysia for their permission to conduct this study and all the staff for their participation in this research.

REFERENCES


Support of Source: This study financially has been supported by Research Management Center, University Putra Malaysia (Grant No: 9337800). Conflict of Interest: The authors have no conflicts of interest to disclose.