Risk Factors and Barriers to Male Involvement in the Choice of Family Planning Methods in the Buea Health District, South West Region, Cameroon: A Cross-Sectional Study in a Semi-Urban Area

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ABSTRACT

Background: Family Planning (FP) promotion and services are often focused on women, but nonetheless men have an important role to play also. Engaging men in family planning programs and services has the potential to improve the use of FP methods, increase healthy pregnancy timing and child spacing, and improve on the overall health of the community. It may also facilitate decision-making by men and their partners in reproductive health matters that include FP.

Objectives: The aim of this study is twofold; to 1) determine the risk factors associated with male involvement in the choice of FP methods; and 2) describe the perceived barriers to male involvement in family planning.

Methods: We conducted a cross-sectional, community-based study among men in the Buea Health District (BHD). The multistage sampling technique was used to select four health areas and twenty communities. Eligible participants were selected by consecutive and convenient sampling and were administered a structured questionnaire to measure their involvement in the choice of FP methods. Socio-demographic and reproductive characteristics of participants were obtained; and so were communication factors and barriers in FP. The logistic regression model was used to determine the factors associated with male involvement. Statistical significance was set at \( p < 0.05 \).

Results: A total of 292 men participated in this study, more than half (57.2%) of whom were involved in the choice of FP methods. Factors affecting the choice of FP methods were men’s age (adjusted Odds Ratio (aOR)=0.35; 95% Confidence Interval (CI): 0.12-0.86; \( p = 0.042 \)), knowledge level (aOR=2.62; 95% CI: 1.50-4.58; \( p = 0.001 \)), educational level (aOR=2.45; 95% CI: 1.10-5.48; \( p = 0.029 \)), partners level of education (aOR=2.37; 95% CI: 1.12-5.02; \( p = 0.024 \)) and birth spacing between partners last two deliveries (aOR=3.14; 95% CI: 1.48-6.68; \( p = 0.003 \)). The identified barriers to male involvement were financial constraints (lack of money), conception difficulties, inadequate information on FP methods, tradition, unskilled healthcare providers, weight gain by partners, and desire for large family size.

Conclusion: This study revealed that men in the BHD were highly involved in FP. Their age, level of education, FP knowledge level, partner’s level of education, and birth spacing between partner’s last two deliveries were among the factors that influenced male involvement in FP. Identified barriers to male involvement in FP methods were lack of money to pay for FP meth-
ods, conception difficulties of their partners, inadequate information on FP, desire for large family sizes, tradition, unwanted weight gain (side effect of female contraceptive methods), and unskilled health care providers.

KEYWORDS: Male involvement; Family planning; Buea Health District; Cross-sectional study.

ABBREVIATIONS: FP: Family Planning; aOR: adjusted Odds Ratio; CI: Confidence Interval; IRB: Institutional Review Board; SD: Standard Deviation.

INTRODUCTION

Family Planning (FP) is one of the main interventions required to improve on sexual and reproductive health choices of individuals and communities. It enables individuals and couples to have a healthy sexual life by deciding freely on the number of children they want and when they want them.1,2

The global use of contraceptives has increased slightly, from 54% in 1990 to 57% in 2012. In Asia, 62% of the women use contraceptives; in Latin America and in the Caribbean, the figure has gone from 64% to 67%. In Africa, the use of contraceptives remains very low; it went from 23% in 2008 to 24% in 2012.3 In Cameroon in particular, the rate increased from 16.1% in 1991 to 23.4% in 2011.4 This low uptake has been due to negative perceptions regarding FP among men (a woman’s problem, time consuming, meant for prostitutes, lack of enough family planning clinics and expenses to pay for FP activities). Furthermore, FP is not much embedded in their culture.

The proportion of male participation varies across countries. This proportion is higher in more developed countries where it stands at approximately 63.2%,3 and lower in sub-Saharan Africa where it ranges from 4.8%6 to 40%.5

In Africa, and particularly so in Cameroon, men believe FP to be the woman’s responsibility, with their own role being limited to making financial contributions towards its pursuit.2,6 This explains why male contraceptive methods are few and for the most part unknown to would-be users. Even among those who use them, most complain of lack of satisfaction with the method. Majority of men complain of not having adequate sexual pleasure with the condom. The situation is not made any better by fear of side effects of female methods. To these inhibiting factors must be added poor access to family planning services,7 men-unfriendly FP services, unwelcoming healthcare workers, preference for large family sizes, religious sanctions, lack of finances, and long waiting times at FP clinics.8

The aim of this study is twofold: 1) to determine the risk factors associated with male involvement in the choice of Family Planning methods; and 2) to describe the perceived barriers to male involvement in family planning.

MATERIALS AND METHODS

Study Design

This was a cross-sectional, community-based study carried out during the period 20th April to 16th May 2015.

Study Area and Setting

The Buea Health District, with an estimated population of 147,891 inhabitants, is one of the eighteen Health Districts in the South West Region of Cameroon. It has seven health areas, each made up of a number of communities or quarters. It is from these communities, sixty-seven of them in all, that the study participants were enrolled.

Study Population and Sampling

Study population: This was made up of men aged 21 and above, in the Buea Health District in the South West Region of Cameroon.

Sample size calculation: The statistical software Epi info version 7.1.3.0 was used to calculate the sample size using the one proportion formula. The proportion (p) for male involvement in family planning was assumed to be 18% (p=0.18) from a previous study; 95% CI and 5% tolerable error and design effect of 1.5 for multistage sampling from previous study. Therefore, using the formula, we obtained a calculated minimum sample size of 340 participants needed for study.

Sampling method: Multistage sampling was conducted in four stages to obtain the desired number of participants.

There are seven health areas in the Buea Health District: Bokwango, Bova, Buea Road, Molyko, Muea and Tole. Molyko was excluded from this study because the majority of its population are university students, who are not very stable for follow-up and are dependent on their parents for subsistence.

Stage 1: Four out of six Health Areas were randomly selected from the District, without replacement.

Stage 2: Using simple random sampling, five communities were selected within each Health Area. This amounted to twenty communities from which data was collected.

Stage 3: Seventeen households were then conveniently chosen from each community.

Stage 4: Lastly, one eligible respondent was chosen from each household.

Eligibility criteria: The participants included in this study were men aged 21 years of age or older, with at least a partner, and who freely consented to be part of the study. Participants were expected to have spent at least the past six months in the health area.
Exclusion criteria: Participants who had not spent the past six months in a particular household were not eligible; nor were those who did not approve of the study.

Study Procedures

Administrative approvals were obtained from the Faculty of Health Sciences, University of Buea, the South West Regional Delegation of Public Health, and from the Buea Health District. Ethical approval was obtained from the Institutional Review Board (IRB) of the Faculty of Health Sciences, University of Buea.

Informed consent was obtained from participants. The data was collected using a structured questionnaire.

Participant recruitment: Once in the households, adequate information on the study was given to the household members and only one eligible participant was selected from each household.

Interview: After written informed consent was obtained from the participant, data was collected using a structured questionnaire. The data collected focused on factors associated with male involvement in the choice of FP methods (socio-demographic, reproductive and communication factors) and on barriers to male involvement. The questionnaire was both self and interviewer administered.

Data Management and Analysis

The questionnaire was in the English language and contained information on male involvement, knowledge of FP, socio-demographic details, and reproductive and communication variables. The data collected was checked on a daily basis for completeness and accuracy after having been transformed into electronic readable versions, and after specific codes and names had been assigned to the variables. All missing data were entered as “missing”. Data was backed up in an external hard drive for safety.

Data collected was entered into Microsoft Access (MS) access interface on Epi-info version 7.1.3.0. The statistical analysis was done using STATA version 10 (STATA corps, Texas USA). The questions aimed for both quantitative and qualitative data. Continuous variables were described using means, medians, standard deviations and interquartile ranges. Absolute and relative frequencies were used to describe categorical variables and were reported as such.

The following three categories of factors associated with male involvement in the choice of family planning methods were studied:

- **Socio-demographic factors**: Age, education level, religion, marital status, employment status, age of partner, level of education and employment status of partner.

- **Reproductive factors**: Current number of living children, duration of birth spacing, desired number of children, and current use of any family planning methods.

- **Communication factors**: Discussion of family planning methods, approval of its use.

The categorical variables were described using numbers and proportions while continuous variables were described using mean, Standard Deviation (SD), median and range.

To assess the factors associated with male involvement, selected variables from socio-demographic factors (age, education level, employment status, age of partner, education level of partner and employment status of partner), reproductive factors (current living children, desired number of children and birth spacing), and FP knowledge level were analyzed. For categorical variables, the proportion of men who were highly involved in the choice of FP methods in each category of the factors was indicated. These proportions were compared using Chi-square test or Fischer’s exact test where appropriate. Also, Odds Ratio (ORs) and 95% CI were reported. For continuous variables, the mean, SD or range for men whose involvement is high or low was indicated. The means were compared using the Student t-test. Statistical significance was set at $p<0.05$.

Furthermore, the association between the predictors (men’s age, level of education, employment status, age of partner, level of education of partner, employment status of partner, current living children, the desired number of children, birth spacing and FP knowledge) and men who were highly involved in the choice of FP methods was computed to get the adjusted odds ratio and 95% CI. Statistical significance was set at $P<0.05$.

To describe the perceived barriers of male involvement in family planning a qualitative data were used where participants gave their opinion about the barriers to their participation in family planning. These barriers were grouped into the following three categories: 1) individual barriers, 2) healthcare provider’s barriers, and 3) health facility barriers. The frequencies and percentages for each category were reported.

Ethical Considerations

Participants were given adequate information, and in return informed consent was obtained from them. Participation was voluntary and participants were free to withdraw at any time. To ensure confidentiality, participants were identified by codes rather than names. Findings provided information on the factors that aided or hindered men’s participation in the choice of FP methods. This information is intended to contribute in improving male participation in FP programs, with particular focus on the use of contraceptive methods. No invasive procedures were used, except that some of the questions asked were considered by respondents to be too indiscreet. However, they had the option not to respond to questions that they deemed too personal.
RESULTS

Of the 340 questionnaires distributed in the four health areas of the Buea Health District, only 292 (85.9%) were returned, and in the following proportions: Muea health area, 76 out of 102 (74.5%); Buea town health area, 72 out of 85 (84.7%); Buea road health area, 80 out of 85 (94.1%); and Bokwango health area, 64 out of 68 (94.1%).

Socio-Demographic Characteristics of Participants

Table 1: A total of 292 persons participated in this study. Male participants were older than their partners, with mean ages of 35.3 and 29.6 years respectively. The level of education was fairly equally distributed among the men and their partners, with the highest levels being secondary education (43.8% for men and 44.9% for their partners). Illiteracy was very low, 3.08% for men and 7.53% for their partners. As many as 43.2% of the men were self-employed and 41.6% of their partners were unemployed. Many of the men were monogamously married (45.9%) while 6.2% of them were married in a polygamous union. A high proportion of the participants, 89.7%, were Christians.

Reproductive Characteristics of Respondents

Table 2: The median birth spacing between their partners’ last two childbirths was 3.5 months (interquartile range: 0 to 72 months). The mean of current living children was 2.6 children (range 0 to 16 children). The number of children desired by the participants ranged from 0 to 22 children, with a mean of 4.9 children.
Factors Associated with Male Involvement in the Choice of Family Planning Methods

Table 3: Men with adequate FP knowledge were 3.06 times more likely to take greater interest in male involvement in the choice of FP methods (OR: 3.06; 95% CI: 1.87-5.0). Also, male participants aged 35 or less (OR: 2.7; 95% CI: 1.7-4.4), men in monogamous or polygamous unions (OR: 0.45; 95% CI: 0.27-0.74) and whose partners were aged 30 or more (OR: 0.48; 95% CI: 0.30-0.79) were also more likely to take greater interest in the choice of FP methods. Men who had attained secondary or tertiary levels of education (OR: 5.94; 95% CI: 3.07-11.5), and whose partners had attained similar levels (OR: 6.01; 95% CI: 3.38-10.7) were also more likely to show greater involvement in the choice of FP methods. Finally, participants who desired to have more than five children (OR: 0.30; 95% CI: 0.18-0.52) or already had more than five children (OR: 0.16; 95% CI: 0.08-0.33) were also more likely to demonstrate higher levels of involvement.

After adjusting for the other factors, it was found that men’s involvement in the choice of FP methods was determined largely by their age, FP knowledge, educational level, their partner’s educational level, and the birth spacing between their partner’s last two births.

After controlling for other factors, it was realized that men with higher FP knowledge were 2.62 times more likely to be involved in the choice of family planning methods (OR 2.62; 95% CI: 1.50-4.6, \( P=0.001 \)).

After adjusting for confounders, men with secondary or tertiary levels of education had 2.5 times higher levels of involvement in the choice of FP methods than those who were uneducated or with primary levels of education (OR 2.5; 95% CI: 1.10-5.5, \( P=0.03 \)).

After controlling for other factors (OR: 2.4; 95 % CI: 1.12-5.02, \( P=0.024 \)), it was found that men whose partners had at least secondary or tertiary level of education were 2.4 times more likely to have higher levels of involvement in the choice of FP methods than those whose partners had no, or only, primary education. Equally, the odds against men demonstrating higher levels of involvement in the choice of FP methods increased 2.9 times for every year’s increase in men’s age (OR 2.9; 95% CI: 0.12-0.96, \( P=0.042 \)).

In conclusion, after controlling for other factors, the odds against men demonstrating greater involvement in the choice of FP was 3.14 times higher for every month’s increase in the interval between their partner’s last two deliveries (OR: 3.14; 95% CI: 1.5-6.7, \( P=0.003 \)).

Barriers to Male Involvement in the Choice of Family Planning Methods

The identified barriers to male involvement were gathered into three sub-groups: 1) individual, 2) healthcare provider, and 3) health facility related barriers.

Table 4: More than half (59.9%) of the participants did not provide any reasons which hindered them from involvement in the choice of FP methods while 40.1% provided reasons for their low involvement. 9.3% evoked financial constraints in the purchase of contraceptives as a barrier while 1.4% reported the unfriendliness of healthcare providers.

DISCUSSION

Involving men in FP is another way of obtaining their commitment to the improvement of its methods. This study provides information on the factors that aid or hinder men’s participation in FP. For men to be more involved in FP and other reproductive health services, they require adequate information. Some participants felt they did not have adequate information on FP services. Even so, their overall involvement was good and would have been better still if they had been better informed.

Factors Associated with Male Involvement

Among the study population in the Buea Health District, age was a significant factor in men’s involvement in the choice of FP methods. More than half (66.7%) of the men aged 35 years or younger demonstrated higher levels of involvement in the choice of FP methods, meaning that younger men were more likely to participate in FP. This result differs from those of other studies which report higher levels of involvement in men aged 35 years and older.5,10-13 Currently, many more young men are educated; as such they have access to information from sources like the internet, radio, TV, and even from their partners. Men aged 35 and less were more represented in this study than those aged 36 and more. Besides, younger men were more willing to participate in the study. This picture explains the FP bias in favor of younger participants.

We also found, as have others,5,14 that men with ade-
Table 3: Association of knowledge, socio-demographic and reproductive characteristics with male involvement in the choice of FP methods in 292 men in the Buea Health District.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>N</th>
<th>Knowledge</th>
<th>%</th>
<th>Unadjusted OR</th>
<th>95% CI</th>
<th>p-value</th>
<th>aOR</th>
<th>95% CI</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td></td>
<td>Inadequate</td>
<td>161</td>
<td>45.3</td>
<td>1.00</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adequate</td>
<td>131</td>
<td>71.8</td>
<td>3.06</td>
<td>1.87, 5.00</td>
<td>&lt;0.001</td>
<td>2.62</td>
<td>1.50, 4.58</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td>Single with partner</td>
<td>107</td>
<td>69.2</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Married monogamous/ married polygamou/ living with partner</td>
<td>185</td>
<td>50.3</td>
<td>0.45</td>
<td>0.27, 0.74</td>
<td>0.002</td>
<td>0.54</td>
<td>0.25, 1.16</td>
</tr>
<tr>
<td>Education of men</td>
<td></td>
<td>None/ primary</td>
<td>58</td>
<td>24.1</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Secondary/tertiary</td>
<td>234</td>
<td>65.4</td>
<td>5.94</td>
<td>3.07, 11.5</td>
<td>&lt;0.001</td>
<td>2.45</td>
<td>1.10, 5.48</td>
</tr>
<tr>
<td>Education of partners</td>
<td></td>
<td>None/ primary</td>
<td>79</td>
<td>26.6</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Secondary/tertiary</td>
<td>213</td>
<td>68.5</td>
<td>6.01</td>
<td>3.38, 10.7</td>
<td>&lt;0.001</td>
<td>2.37</td>
<td>1.12, 5.02</td>
</tr>
<tr>
<td>Employment status of men</td>
<td></td>
<td>None</td>
<td>70</td>
<td>64.3</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Employed/self employed</td>
<td>222</td>
<td>55.0</td>
<td>0.68</td>
<td>0.39, 1.18</td>
<td>0.170</td>
<td>1.09</td>
<td>0.54, 2.20</td>
</tr>
<tr>
<td>Employment status of partners</td>
<td></td>
<td>None</td>
<td>121</td>
<td>60.3</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Employed/self employed</td>
<td>170</td>
<td>54.7</td>
<td>0.79</td>
<td>0.49, 1.27</td>
<td>0.340</td>
<td>0.89</td>
<td>0.48, 1.65</td>
</tr>
<tr>
<td>Age of men(years)</td>
<td></td>
<td>36 years and more</td>
<td>115</td>
<td>42.6</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35 years and less</td>
<td>177</td>
<td>66.7</td>
<td>2.69</td>
<td>1.66, 4.37</td>
<td>&lt;0.001</td>
<td>2.88</td>
<td>1.04, 8.03</td>
</tr>
<tr>
<td>Age of partners(years)</td>
<td></td>
<td>30 or less</td>
<td>191</td>
<td>63.4</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More than 30</td>
<td>101</td>
<td>45.5</td>
<td>0.48</td>
<td>0.30, 0.79</td>
<td>0.004</td>
<td>1.87</td>
<td>0.67, 5.25</td>
</tr>
<tr>
<td>Current living children</td>
<td></td>
<td>5 or less</td>
<td>243</td>
<td>64.2</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More than 5</td>
<td>49</td>
<td>22.5</td>
<td>0.16</td>
<td>0.08, 0.33</td>
<td>&lt;0.001</td>
<td>0.45</td>
<td>0.14, 1.40</td>
</tr>
<tr>
<td>Desired number of children</td>
<td></td>
<td>5 or less</td>
<td>212</td>
<td>65.1</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More than 5</td>
<td>80</td>
<td>36.3</td>
<td>0.30</td>
<td>0.18, 0.52</td>
<td>&lt;0.001</td>
<td>0.78</td>
<td>0.33, 1.83</td>
</tr>
<tr>
<td>Birth spacing (months)</td>
<td></td>
<td>12 or less</td>
<td>170</td>
<td>55.3</td>
<td>1.00</td>
<td>-</td>
<td>-</td>
<td>1.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More than 12</td>
<td>122</td>
<td>59.8</td>
<td>1.20</td>
<td>0.43, 0.75</td>
<td>0.439</td>
<td>3.14</td>
<td>1.48, 6.68</td>
</tr>
</tbody>
</table>

The educational level of men also plays a significant role in their involvement in FP. This study revealed that men who had secondary or tertiary level of education were more likely to be more involved in FP than men who were uneducated or had only the primary level of education. This result compares with those of other studies conducted in Nigeria, Bangladesh, Papua New Guinea and Nepal where men who were uneducated or had primary level of education were likely to have a more conservative perception towards FP.3,5,15-18 Educated men are more likely to have good knowledge of FP which can enable them to make informed decisions on the benefits and risks of FP methods. Uneducated men, on the other hand, often have misconceptions about FP methods, especially with regards to side effects. These misconceptions are usually the cause of low male involvement.
in FP services. Providing adequate information to men who have no, or only, primary education can change their views of FP and so boost their involvement. This proposition was not verified by a study conducted in Nepal which instead reported that men with no formal education or with only primary level of education had greater involvement in reproductive and sexual health services.\(^\text{13}\) Whilst focus is on women’s education (and rightly so) in improving health outcomes, men’s educational level is equally important as it enables them to access information relevant to health.

Women’s level of education was also seen to be a strong factor in their husband’s or partner’s involvement in FP. Our findings suggest that women who are educated facilitate their partner’s involvement in their health issues and in those of their children. Other studies also found an association between women’s educational level and male involvement in FP and other related issues.\(^\text{5,14,18}\)

Birth spacing was also discovered to be significantly associated with male involvement in FP. Men whose partner’s interval between the last two deliveries was 13 months and more demonstrated higher levels of involvement in FP. However, the studies reviewed did not report this association; rather, they reported the current number of living children and the desire for more than five children to be associated with men’s participation in FP.\(^\text{3,7,11,15,18,19}\)

While men’s marital status, their partner’s age, the current number of living children and the desire for 5 children and more determined their level of involvement in the bivariate analysis, these same factors were not determining when the other factors were taken into account in the multivariate analysis.

### Barriers to Male Involvement in Family Planning

The barriers to male participation vary across countries because of differences in customs and traditions. The identified barriers to male involvement were financial constraints (9.3%) and inadequate information on FP methods (8.2%). This picture is similar to findings in Nigeria, Ghana, Democratic Republic of Congo (DRC) and Ethiopia.\(^\text{3,4,20,21}\) Some modern female FP methods are expensive and therefore tend to dissuade men from being involved. Also, since some men are ignorant or do not have adequate information about FP, their involvement is affected to the same extent. Some participants reported that they are not involved in FP because their customs and tradition do not permit them to be. They claim that FP in their culture is a woman’s activity and so they do not see any reasons why they should be involved. Besides, their preference for large family sizes makes it difficult for them to support any methods that challenge such interests. Studies in other countries have shown participants reporting that large family sizes are intrinsic to their culture and that their only obligation to women concerning FP is the provision of money.\(^\text{3,4,6,8,22}\) Other participants reported that when their partners use FP methods they later have side effects like difficulties to conceive, and unwanted weight gain; and that when they use condoms they do not derive sexual satisfaction. These findings have also been reported in studies conducted in Uganda and Kenya.\(^\text{6,23}\) Some participants reported that they do not have time to accompany their partners to the FP clinic or to discuss FP with them because they are busy looking for money to take care of the family. These findings are similar to those in studies carried out in Uganda.\(^\text{8}\)

<table>
<thead>
<tr>
<th>Barriers</th>
<th>Frequency (N)</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual barriers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infertility or conception difficulty of partners</td>
<td>21</td>
<td>7.2</td>
</tr>
<tr>
<td>Inadequate information on FP methods</td>
<td>24</td>
<td>8.2</td>
</tr>
<tr>
<td>Ignorance</td>
<td>7</td>
<td>2.4</td>
</tr>
<tr>
<td>Time constraint</td>
<td>7</td>
<td>2.4</td>
</tr>
<tr>
<td>Tradition and custom</td>
<td>19</td>
<td>6.5</td>
</tr>
<tr>
<td>Financial constraint</td>
<td>27</td>
<td>9.3</td>
</tr>
<tr>
<td>Not yet attain desired family size</td>
<td>10</td>
<td>3.4</td>
</tr>
<tr>
<td>Weight gain of their partners</td>
<td>17</td>
<td>5.8</td>
</tr>
<tr>
<td>Having sex with no pleasure when using the male condom</td>
<td>6</td>
<td>2.1</td>
</tr>
<tr>
<td>Health care provider barrier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unskilled health care providers</td>
<td>17</td>
<td>5.82</td>
</tr>
<tr>
<td>Health care provider not user friendly</td>
<td>4</td>
<td>1.37</td>
</tr>
<tr>
<td>Health facility barrier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health facility not accessible</td>
<td>20</td>
<td>6.85</td>
</tr>
</tbody>
</table>

Table 4: Barriers to male involvement in the choice of Family Planning (FP) methods.
Among some of the barriers caused by healthcare providers and health facilities were the unfriendliness of health care providers, their poor skill, and in some areas difficulty in accessing healthcare facilities. These findings are corroborated by other studies.\textsuperscript{21,22,24}

**Study Limitations**

This study was done in four health areas in the Buea Health District in the South West Region of Cameroon. The BHD is only one in 18 Districts in the Region. There may therefore be need to conduct a larger survey, for example in all the Health Districts in the South West Region, and in other parts of Cameroon. Also, the sample may not be representative enough of the population of men in the South West Region and in Cameroon as a whole. There is also the problem of recall bias as many of the participants could not give the correct intervals between their partner’s last two childbirhths. Furthermore, since this study is a cross-sectional study, it may also limit the ability to establish relationships between the predictors (age of man, education level of man, employment status of man, age of partner, education level of partner and employment status of partner, current living children, desired number of children, birth spacing and knowledge) and men who were highly involved in the choice of FP methods. These limitations should be considered when interpreting the results.

There are a number of strengths to this study. The Buea health district is made up of urban and rural communities. Focus on men from both communities in this study provides valuable insights into their involvement in FP, their knowledge on FP methods, and its determinants. These insights will help inform the policies and programs targeting increased male involvement in FP programs. Qualitative data on barriers to male involvement added insights into factors which hinder male participation in FP. This data will provide information on how to overcome barriers to increased male involvement.

**Conclusion**

Men may not benefit directly from safe motherhood services, but their partners need their understanding and support to have access to basic reproductive health services. Men’s involvement, therefore, remains a major determinant in all FP initiatives. The level of male involvement in this study was high, and was driven, among other factors, by age, level of education, level of FP knowledge, partner’s level of education, and birth spacing between their partner’s last two deliveries. Some of the obstacles to male involvement were financial constraints, conception difficulties, inadequate information on FP, desire for large family sizes, tradition, side effects of female methods (unwanted weight gain for example) and unskilled and/or unfriendly health care providers. Men and women have equal responsibility in their reproductive health condition and should make joint decisions in FP methods.

**Recommendations**

Male involvement in sexual and reproductive health services, especially in FP, is crucial in boosting FP methods among men and their partners. FP programs should, therefore, be designed to strengthen and incorporate the responsibility and role of men in the practice of FP services. Furthermore, community health education sessions should be organized to provide communities with adequate information on FP services.

We also recommend that the FP services be made more male friendly to address men’s sexual and reproductive health needs.

**COMPETING INTERESTS**

The authors declare that they have no competing interests.

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