A comparative study on attitude of contraceptive methods users towards common contraceptive methods

Soheila Ehsanpour*, Maedeh MohammadiFard**, Shahla Shahidi***, NafiseSadat Nekouyi****

Abstract

BACKGROUND: Family planning is a method of thinking and a life style which is chosen voluntarily and according to the attitudes and responsible determination of the couples in order to promote the hygiene and convenience of the family. This study aimed to identify and compare the attitudes of the users of common contraceptive methods with regard to each method separately.

METHODS: The descriptive study was conducted in 2010. The study samples included 378 women using common contraceptive methods as LD pills, IUD (intrauterine devices), condom, withdrawal, tubectomy (females sterilization) and vasectomy as well as withdrawal method. The samples were selected through systemic random sampling from 9 health care centers. The data collection tool was a researcher-made. In order to determine the validity and reliability of the questionnaires, the content validity and Cronbach’s alpha correlation coefficient methods were used. In order to analyze the data, the descriptive and inferential statistical methods (ANOVA) were used.

RESULTS: Mean score of attitude regarding different contraceptive methods in the group who were users of the same method was above the users of all the methods; however, total attitude score toward the contraceptive methods was approximately similar to each other in all the groups and there was no significant difference among the different groups.

CONCLUSIONS: The findings of this study showed that attitude is an important factor in choosing the contraceptive methods; therefore, this issue should to be taken into account by the family planning planners and consultants.

KEY WORDS: Attitude, contraceptive methods, family planning.
Ability of a woman to start a successful, continuous and appropriate contraceptive method is influenced by many different factors; e.g. access to the health care, community, cultural attitudes and personal attitude can all be considered as obstacles to apply correct use and effective method of the women to family planning objectives. Beekle in a study on awareness and determinants of family planning practice showed that knowledge and access to the services alone could not be adequate for acceptance of contraceptive devices. Furthermore, in developing countries, where women are dependent upon old traditions and social constraints, knowledge and awareness about family planning acceptance would not be the only decisive factor as well as reduction in reproductivity rate. A study in the United States showed that there are a series of complicated factors for non-use or ineffective use of contraceptive methods among Hispanic women. Although economic factors and access to the health care are important factors, it has been proven that knowledge, attitude and cultural values impact on reproductivity behavior. Ozgoli et al also in their study showed that the proponents of vasectomy start sterilization with poor awareness and positive attitude and eligible individuals did not undergo it with neutral attitude. Moreover, in a study in Lebanon, non-continuous and unstable causes of using condom mentioned as 5 factors as different vain believes, reduce in sexual pleasure, bad experiences, fear and anxiety during the sex and negative attitude of society to consumers of the condom.

Tendency to use a contraceptive method as well as any other desire depends upon the individual’s general attitude toward using that method. Knowing individuals’ attitudes can be of high importance. Provided with being aware from people’s attitudes, their behavior would be predicted and be controlled, and as we all know, predicting and controlling the behaviors is of high importance for many people like community health practitioners. Furthermore, it should be noted that although sexual relationship, pregnancy and child birth are inevitable part of the human beings everywhere, social and cultural environment in this regard have such high diversity so that they cause that not all the contraception methods and devices be equally accepted everywhere. However, there are some attitudes and trends in human being (such as superstition, delusions, and prejudices) which would be identified based on distantness from the reality. Because, these attitudes and trends frequently counterpart social measures and analyzing the cause of difference between beliefs and facts is of high priority. This note also should always be kept in mind that contraceptive consulting is more than proving information or answering to the questions of the clients; but health staff should explore and modify their attitudes and beliefs in this area. According to this and considering that in recent years there were very little comprehensive researches about attitudes towards contraceptive methods in Iran and have mostly been about permanent methods and/or about family planning and there was no comprehensive study to review the attitude towards the common contraceptive methods on users of these methods; therefore, the present study aimed to determine and compare the attitude of the common contraceptive methods users about their own used method and other methods.

Methods
This was a cross-sectional descriptive study which conducted in 2010. The study population included the women aged 15-49 years referred to Isfahan health centers who were the current consumers of one of the common contraceptive methods. Sampling conducted in 9 health centers which randomly were selected and then, the study subjects of this study, (378 women) who were the consumers of combined LD pill, IUD, condom, withdrawal, tubectomy and vasectomy, were selected in regular systematic random sampling in proportion with the number of the women under the coverage of family planning of each center.

The inclusion criteria included as the following: all the married women aged 15-49 years referred to Isfahan health centers who were the
current consumers of one of the common contraceptive methods at least for six months, Iranian citizenship, the least literacy ability and having at least one child.

The data were collected through a researcher-made questionnaire. The questionnaire consisted of two parts; the first part related to the individual-reproductivity characteristics of the consumers of the common contraceptive methods and the second part related to attitude survey of the women toward common contraceptive methods. In the second part, totally there were 44 attitude phrases among which 8 phrases associated with pills method, 8 phrases related to condom method, 9 phrases related to intrauterine devices, 6 phrases related to vasectomy for men and 7 phrases related to tubectomy for women and 6 phrases related to the withdrawal method. The attitude questions followed the Likert scale; i.e. the questions were 5-degree Likert scale and range of the answers began with "completely agree" and ended with "completely disagree". Scoring the attitude phrases was like where the direct of the sentences was in accordance with the subject, score 4 was given to the completely agree and in cases that the direct of the sentences was not in agreement with the attitude subject, score 4 was given to the completely disagree. Thereafter, the obtained scores of each method separately were added together. In this study, for comparability of the attitude score among the groups, the attitude score was calculated as 100. The score higher than 75 considered as desirable attitude, the scores between 50-75 as semi-desirable and the scores between 25-50 as undesirable and the scores less than 25 also as extremely undesirable attitude.

Validity of the questionnaire was determined by content validity method and reliability of the questionnaire confirmed by determining Cronbach’s alpha coefficient. Cronbach’s alpha coefficient calculated as 0.71 and thus, the questionnaire was used to study the study objectives. The data were analyzed using Software SPSS11 and also descriptive statistics (frequency distribution table, mean, SD) and inferential statistical method (ANOVA).

Results
The results showed that the maximum and minimum mean age of the women respectively were in tubectomy method 38.65 (5.13) and natural method 28.84 (5.55) years. The maximum and minimum mean of the number of the children respectively were seen in tubectomy method 3.09 (1.02) and withdrawal method 1.42 (0.64). In this study, 77.8% of the women were high school graduates and lower. Most of the study subjects were housewives (86.7%) and the lowest numbers of them were working mothers (13.3%). In regard with tendency to reproductivity in the future, the most frequency (54.1%) was associated with withdrawal method. In terms of frequency distribution of the previous contraceptive method, the highest frequency was associated with withdrawal method (35.2%) and the lowest frequency (1.3%) also was associated with injection method. In terms of frequency distribution of experience of unintended pregnancy, the highest frequency was associated with tubectomy (57.1%) and the lowest frequency (1.3%) also was associated with condom method. In general, 34.9 percent of them stated that they have had unintended pregnancy. In terms of the used method before the unintended pregnancy, the results of the present study indicated that the most cases of unintended pregnancy occurred in all the methods during using the withdrawal method (49.3%). Besides, this method indicated that 27% of the users of the withdrawal method had unintended pregnancy that 70.6% of them have used withdrawal method before their unintended pregnancy; nonetheless, they continued to use this method.

According to table 1, the results indicated that mean score of attitude towards different contraceptive methods in the group used the same method was higher than users of other methods; however, the total score of attitude was almost similar in all the groups and there was no significant difference between different groups.
Furthermore, according to Table 2, the results of the present study indicated that about pills method, 1.9% of them had desirable attitude, 32.5% had semi-desirable attitude, 60.8% had:

**Table 1.** Comparing the attitude score toward contraceptive methods separately by the common contraceptive methods

<table>
<thead>
<tr>
<th>Mean score of the attitude towards the methods</th>
<th>LD pill</th>
<th>Condom</th>
<th>IUD</th>
<th>Tubectomy</th>
<th>Vasectomy</th>
<th>Withdrawal</th>
<th>Total score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
<td>Mean SD</td>
</tr>
<tr>
<td>LD pill</td>
<td>55.35</td>
<td>11.54</td>
<td>49.90</td>
<td>13.58</td>
<td>55.29</td>
<td>8.89</td>
<td>51.25</td>
</tr>
<tr>
<td>Condom</td>
<td>46.8</td>
<td>11.19</td>
<td>64.03</td>
<td>14.17</td>
<td>54.10</td>
<td>10.53</td>
<td>51.98</td>
</tr>
<tr>
<td>IUD</td>
<td>44.64</td>
<td>12.25</td>
<td>47.02</td>
<td>11.27</td>
<td>65.87</td>
<td>11.90</td>
<td>51.98</td>
</tr>
<tr>
<td>Tubectomy</td>
<td>46.72</td>
<td>11.68</td>
<td>46.77</td>
<td>11.11</td>
<td>57.45</td>
<td>9.78</td>
<td>58.46</td>
</tr>
<tr>
<td>Vasectomy</td>
<td>47.96</td>
<td>10.38</td>
<td>48.11</td>
<td>9.92</td>
<td>55.99</td>
<td>8.61</td>
<td>57.47</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>43</td>
<td>13.51</td>
<td>49.20</td>
<td>11.51</td>
<td>56.11</td>
<td>9.34</td>
<td>54.36</td>
</tr>
<tr>
<td>F = 8.38 p &lt; 0.001</td>
<td>F = 18.85 p &lt; 0.001</td>
<td>F = 11.60 p &lt; 0.001</td>
<td>F = 4.06 p &lt; 0.001</td>
<td>F = 14.25 p &lt; 0.001</td>
<td>F = 9.42 p &lt; 0.001</td>
<td>F = 1.64 p = 0.14</td>
<td></td>
</tr>
</tbody>
</table>

**Table 2.** Frequency distribution of dividing the attitude score about the methods in the study subjects

<table>
<thead>
<tr>
<th>Attitude toward the methods, Dividing the attitude score</th>
<th>LD pill</th>
<th>Condom</th>
<th>IUD</th>
<th>Tubectomy</th>
<th>Vasectomy</th>
<th>Withdrawal</th>
<th>Total score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
<td>Number Percentage</td>
</tr>
<tr>
<td>Desirable (&gt;75)</td>
<td>7</td>
<td>1.9</td>
<td>16</td>
<td>4.2</td>
<td>16</td>
<td>4.2</td>
<td>12</td>
</tr>
<tr>
<td>Semi-desirable (50-75)</td>
<td>123</td>
<td>32.5</td>
<td>158</td>
<td>41.8</td>
<td>254</td>
<td>67.2</td>
<td>206</td>
</tr>
<tr>
<td>Undesirable (25-50)</td>
<td>230</td>
<td>60.8</td>
<td>194</td>
<td>51.3</td>
<td>107</td>
<td>28.3</td>
<td>156</td>
</tr>
<tr>
<td>Extremely undesirable (&lt;25)</td>
<td>18</td>
<td>4.8</td>
<td>10</td>
<td>2.6</td>
<td>1</td>
<td>0.3</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>378</td>
<td>100</td>
<td>378</td>
<td>100</td>
<td>378</td>
<td>100</td>
<td>378</td>
</tr>
</tbody>
</table>
undesirable attitude and 4.8% also had extremely undesirable attitude. About condom method, 4.2% of the study subjects had desirable attitude, 41.8% had semi-desirable attitude, 51.3% had undesirable attitude and 2.6% also had extremely undesirable attitude. About IUD method, 4.2% of the study subjects had desirable attitude, 67.2% had semi-desirable attitude, 28.3% had undesirable attitude and 0.3% also had extremely undesirable attitude. About tubectomy method, 3.2% of the study subjects had desirable attitude, 54.5% had semi-desirable attitude, 41.3% had undesirable attitude and 1.1% also had extremely undesirable attitude. About vasectomy method, 17.5% of the study subjects had desirable attitude, 61.6% had semi-desirable attitude, 19.8% had undesirable attitude and 1.1% also had extremely undesirable attitude. About withdrawal method, 6.9% of the study subjects had desirable attitude, 45% had semi-desirable attitude, 42.1% had undesirable attitude and 6.1% also had extremely undesirable attitude and about the total attitude of all the subjects about contraceptive methods, 77.2% had semi-desirable attitude and 22.8% had undesirable attitude.

Discussion
The findings of this study showed that the highest frequency of the attitude scores about LD pills method (60.8%) was associated with the women with undesirable attitude and mean scores of the pill method was lower than other methods; that considering to the responses of the participants, it can be said that the fear resulted from the pill’s side effects was due to its hormonal combination, and whereas a large number of the participants believed that pills method was an effective contraceptive method. Lee and Jezewski (2007) showed that women, regardless of their ethnicity, age and living area, scare from oral contraceptive method and this negative feeling had been due to concerns about side effects and health risks. Furthermore, the worldwide researches recommended that pills if properly administered, it would be preferable to its risks. Using pill would be safer than pregnancy and labor; but women would never think that pregnancy has any risk. In addition, nowadays the pills have very low dose of estrogen and progesterone. The hormonal dose which was taken daily in 1960s was equal to dose of one week of today’s pills.

The highest frequency of the attitude scores about condom method (51.3%) was associated with the women with undesirable attitude and mean scores of the condom method was lower than other methods (IUD, tubectomy, vasectomy, withdrawal method) which could be due to reduction of sexual pleasure in men and women and also due to unpleasantness of the condom method. Study results of Hounton et al (2005) about understanding barriers to use condom, it was shown that the imagined efficacy of the individual (imperfect efficacy) and the related problems to use condom were the barriers of using condom. In the study of Randolph et al (2007) titled as “sexual pleasure and condom use”, it was indicated that many men and women believed that condom would reduce the sexual pleasure; besides, particularly the men, who believed condom would reduce the sexual pleasure, used condom with lower probability. In the study of Kulczycki (2004) in Lebanon, non-continuous and unstable causes of using condom mentioned as five factors as different vain believes, reduction in sexual pleasure, bad experiences, fear and anxiety during the sex and negative attitude of society to consumers of the condom and also mentioned its usage as lack of physiological side effects.

The highest frequency of the attitude score toward intrauterine devices method (67.2%), was associated with the women with semi-desirable attitude and mean scores of IUD method was higher than other methods (pill, condom, tubectomy and withdrawal) and was lower in comparison with vasectomy method. More desirable attitude in comparison with other methods could be due to high efficacy, ease of use, lack of interference with sexual relationship and no need for daily remembrance; however, the researcher believed that the main cause of desirable attitude of the women was due to encouragement of the staff to utilize this method. However, there are some shortages for consul-
tant to remove the side effects of IUD and false beliefs. Women’s attitude towards IUD would be formed through her knowledge from the method as well as her assessment from relative risks and associated benefits to use it. In some of the cases, the false information would overcome which also would be exacerbated through reporting the severe side effects of the old IUDs (which are not available anymore). 18 In the present study also, 50.8% of the participants announced that IUD cause infection, while the infection associated with IUD, only would occur at the first 20 days of insertion and it is due to cervical infection which is not diagnosed during the IUD placement. Alnakkash (2008) in a study titled as "influence of IUD perceptions on method discontinuation" showed that almost half of the women asked to take the IUD out; fears and false beliefs were the cause of IUD discontinuation. 19 In the present study also, concerns about IUD side effects have been observed. Therefore, by training and consulting the clients about possible side effects and how to confront with them would remove their concerns.

The highest frequency of the attitude scores about tubectomy (54.4%) was associated with the women with semi-desirable attitude, and mean scores of tubectomy method was higher than other methods (pill, condom and withdrawal) and was lower in comparison with vasectomy and IUD. This more desirable attitude toward other methods could be due to high efficacy, lack of concern about unintended pregnancy and lower restriction feeling in sexual relationship. In the study of Sharemi et al (2003) titled as "reviewing the awareness and attitude of the women of Rasht City towards tubectomy and its side effects", only 5.5% of the participants had positive attitude toward tubectomy and 72% of them had moderate attitude and 12.1% also had negative attitude. About the attitude toward tubectomy, the following percentages believed that was not an appropriate method as: 52.1% of the women due to cause of low back pain, 30.7% due to pelvic and abdominal pain, 41.5% due to hemorrhage and 21.8% due to complication of ovarian cysts. While other participants, for answering to the questions, selected “I do not know” and “I am disagree” choices. 20 Difference in attitudes in the study of Sharami might be due to study population and the obtained information might have been different by them that the information could influence the attitude of the individual; besides, it could be due to difference in dividing the mean scores to positive, moderate and negative categories.

The highest frequency of the attitude scores of vasectomy (61.6%) was associated with the women with semi-desirable attitude and mean scores of vasectomy method was higher than other methods (pill, condom, withdrawal, IUD and tubectomy). This more desirable attitude in comparison with other methods could be due to high confidence to this method, no need for surgery and lower side effects. In the study of Naeimi et al (2003) titled as "reviewing the awareness and attitude of the married men about vasectomy in Dehdasht City on the studied men in 2003", 44 percent of them had poor attitude, 24.8 percent had moderate attitude and 21.2 percent of the also had good attitude. 21 Manhosoo and Hoga (2005) quoted from Medici (1999) stated that vasectomy has surrounded by more beliefs, prejudices, bias and superstition than other methods. The opposition of the men with vasectomy was due to fear of losing their manhood, sexual function and fear of surgery. According to their survey, the positive experience of other men was the most important factor in removing the fear associated with vasectomy and decision-making about it. In fact, interpersonal relations have a major role in changing the attitude of the men towards vasectomy. 22 However, in the present study, in response to the phrase “vasectomy is a private issue and no one should get informed about it except the couple”, 38.1 percent of the women selected “I am agree” and “I am completely agree” and 48.9 percent selected “I have no idea” and this indicated the lack of tendency of the participants to talk about vasectomy surgery to others.

Furthermore, the present study indicated that 57.21% of the consumers of pill, condom
IUD and withdrawal methods had no tendency for future reproductivity; however, they used no permanent method. One of the causes of lack of acceptance of this issue might be due to shortage of information obtained through effective sources and consequently receiving incorrect information from other individuals. In the study of Ozgoli et al. (2004) it was shown that the eligible individuals did not carry out the methods not because of unawaresness and ignorance, not even incompatible with religious beliefs and negative attitudes but also more due to fear of the side effects and wives’ disagreement; besides, their obtained information were acquired not from a reliable sources but from friend and those around them.9

The highest frequency of the attitude scores about withdrawal method (45%) was associated with the women with semi-desirable attitude and mean score of the withdrawal method was lower than other methods such as IUD, tubectomy and vasectomy and was almost similar to condom and pill methods that the lower attitude probably could be due to fear from unintended pregnancy. In the study of Yanikkerem (2006), 84.4% of the women announced that they were satisfied with this method and according to them 69.9% of their spouses were orgasm with this method. Besides, 53.6% announced that withdrawal method was more effective. Only 1.4% of them stated that withdrawal method impaired their sex health and 65.2% announced that they were afraid of pregnancy when using this method.23

Sometimes, health staff do not consider the withdrawal method as a contraceptive method and in health care centers, it was seen that healthcare givers extremely prohibit the women from this method and try to refrain people from using this method; while some of the people have a very positive attitude toward this method. In the study of Yanikkerem (2006), even after training the women, 57.6% of them continued using the withdrawal method and had no tendency to change their method and believed that this method had been effective.23 Health staff should know that some of the clients trust this method even if they do not report using it! Withdrawal method should be recognized as “better than nothing” in contraceptive method. Withdrawal method may not be that effective as much as modern methods, but according to the documents, it can be effective as much as condom (at least for contraceptive method to prevent from pregnancy).24 Therefore, instead of insisting to the couples using withdrawal method to use modern methods, more effective ways such as sexual abstinence during the fertile period and using emergency contraception methods should be taught to them.

The findings of the present study showed that attitude is an important factor in selecting contraceptive method and it has a major role in behaviors related to use contraceptive methods; therefore, reviewing the attitude of the users is an important issue in consulting the contraceptive method.

The authors declare no conflict of interest in this study.

References
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