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Misconceptions about family planning of women in Turkev¹

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Abstract

Background: The objective of this study is to investigate the myths of women about contraceptive methods.

Method: This study was planned as a cross-sectional research. The study population consisted of 1335 women aged between 16 and 56 years, who attended to a family planning clinic of a state hospital in Karaman City in the southwest part of Turkey.

Findings: The mean age of women has been 32.79±8.8. While 6.2% (n=84) of the women used no contraceptive method, 70.4% (n=945) of them used an effective method and 23.4% (n=312) used a traditional method. The 40.2% of women have believed in that the oral contraceptive method caused weight gain, infertility, bleeding disorders, hirsutism, cancer, irritability, malformed baby and premature menopause. The 24.2% of women have thought of that the intrauterine devices caused bleeding disorder, moving in the body, cancer, decreased sexual desire, genital infection and infertility.

Conclusions: There are many myths and misconceptions surrounding contraception, and they can sometimes prevent a woman from making an informed choice.

Keywords: Misconception; Myths; Contraceptive Methods; Family Planning; Turkey

1.Introduction

The relationship established among population, development, and fertility in the world has led the development of first "population planning", then "birth control", and "family planning" concepts. Since these concepts are related to women status and general women health, studies have focused on women population and required including "women health" in these concepts (Ministry of Health General Directorate of Mother and Child Health and Family Planning, 2010). 1984 International Conference on Population held in Mexico City defined family planning as

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"individuals, having as many children as they wish, freely and wisely deciding to have intervals between the deliveries, and having information training and tools about this issue" (Brown, 1984).

Women's freedom of having as many children as they wish has an important contribution on their health, quality of life and struggle to gain identity. Therefore, family planning services on women's life should not be underestimated. In order for family planning programs and services to be successful, the methods should be easily accessible and effective, should have no side-effects, and should be demanded by individuals (Sahin HG, Sahin HA, Zeteroğlu & Kolusarı, 2002).

The use of birth control methods has been increasing day by day in the world. According to United Nations 2009 report, the use of contraceptive methods is 62.9% in developing countries and 70% in the developed countries (United Nations [UN], 2009). Of the married women in Turkey, 99.8% know at least one contraceptive method and 73% use one method. Of all the women population, 46% use one of the effective family planning methods (Hacettepe University Institute of Population Studies, 2008). Various regions in our country demonstrate differences in terms of the use of family planning methods and thus the proportions of birth rates. The difference between regions can be eliminated by increasing the effectiveness of family planning services in regions and minimizing the negative factors regarding the individuals provided service.

Studies show that regulating fertility is affected by such factors as age, education level, occupation, economic status, duration of marriage, number of pregnancies, number of deliveries, and number of children alive (Ali, Okud, 2013; Palamuleni, 2013; Oltuluoglu, Baser, 2012). Factors in relation to the individuals who are provided service demonstrate findings regarding demographic data. However, knowledge of the effects of culture, traditions, and myths on the use of family planning methods is limited. Knowing about these beliefs is considered to be important in that it helps health professionals to plan health services that increase the use of effective methods.

2.Purpose

This study aims to identify people's misconceptions regarding family planning methods.

3. Method and material

3.1. The place and time of the study

The study population consisted of women who attended to a family planning clinic of a state hospital between January -May 2012 in Karaman (Turkey).

3.2. Population and sample selection

The universe of research was included 1335 women aged between 16 and 56 years, who were willing to participate in the survey and complied with the criteria between January-May 2012.

3.3. Type of study

This study was planned as a cross-sectional research.

3.4.Data collection

The data were collected by using the "Women Identification Form" regarding the demographic features and use of family planning and myths/misconceptions. The variables were age, education status, marital status, number of pregnancy, birth, abortion and curettage, used family planning methods, misconceptions about the method of family planning. The data were collected with a face-to-face interview technique using a questionnaire.

3.5.Limitations of the study

The results of the study cannot be generalized because of the small number of sample group and selection method.

3.6. Research ethics

Data were collected after getting permission from Karaman Local Health Authority considering voluntariness. Participants were informed of the purpose and procedure of the study. Oral and written consents were obtained from the informants.

4.Results

A total of 1335 women, aged between 16 and 56 years, participated in the study. All women have been living in the center of the city. The mean (SD) age of the participants was 32.79 ± 8.8 (16-56) years. When the obstetric findings investigated, it was found the average number of pregnancies (2.82 ± 1.5) , births (2.40 ± 1.24) , abortion (1.27 ± 0.67) and curettage (1.14 ± 0.4) . The characteristics of the participants are shown in Table 1.

Table 1:The descriptive characteristics of the participants

Characteristics	n	0/0	
Age			
16-25 years old	304	22.8	
26-35 years old	550	41.2	
36 years old and older	481	36.0	
Educational Status			
8 years and lower	824	61.7	
8 years and higher	511	38.3	
Marital Status			
Married	1288	96.5	
Single	47	3.5	

While 6.2% (n=84) of the women used no contraceptive method, 70.4% (n=945) of them used an effective method and 23.4% (n=312) used a traditional method (Table 2).

Table 2: The distributions of family planning methods used

Contraceptive Methods	n	%
Condom	354	26.5
Combined oral contraceptives (COC)	307	23.0
Withdrawal	312	23.4
Intrauterine devices (IUD)	172	12.9
Tubal ligation	72	5.4
No methods	84	6.2
Injection	28	2.1
Implant	6	0.5

The participants had misconceptions about COC most by 40.2%, followed by IUD by 24.2% and injection method by 12.5%.

The statistical analyses showed that the participants, who had misconceptions about the method of family planning, could never think of usage of related method. Table 3 shows the distribution of misconception and contraceptive methods and their percentages.

Table 3: Distribution of the misconceptions and contraceptive methods

Contraceptive	Methods	Misconceptions	n	%
COC	(n=734, 40.2%)			
		Weight gain	195	10.7
		Infertility	151	8.2
		Bleeding disorder	148	8.2
		Hirsutism	92	5.1
		Cancer	89	4.8
		Irritability	22	1.2
		Malformed baby	21	1.1
		Premature menopause	16	0.9
IUD	(n=442, 24.2%)			
		Bleeding disorder	170	9.3
		Moving in the body	118	6.4
		Cancer	63	3.5
		Decreased sexual desire	28	1.6
		Genital infection	37	2.1
		Infertility	26	1.3
Injection	(n=229, 12.5%)			
		Bleeding disorder	66	3.6
		Cancer	31	1.7
		Weight gain	45	2.4
		Infertility	42	2.3
		Hirsutism	24	1.3
		Premature menopause	21	1.2
Condom	(n=95, 5.2%)			
	·	Decreased sexual performance	76	3.0
		Pain	19	0.5
Female condom (n=16, 0.8%)				
		Decreased sexual desire	16	0.8
Vasectomy	(n=115, 6.3%)			

		Decreased sexual performance	115	6.3
Tubal ligation	(n=85, 4.7%)			
		Decreased sexual performance	85	3.0
		Premature menopause	30	1.7
Implant	(n=32, 1.8%)			
		Moving in the body	15	0.8
		Cancer	6	0.4
		Infertility	6	0.4
		Bleeding disorder	5	0.2
Diaphragm	(n=17, 0.9%)			
		Infection	10	0.6
		Decreased sexual desire	7	0.3

5.Discussion

In this study, 71% out of the women used an effective family planning method. The most common misconceptions were the COC (40.2%), IUD (24.2%) and injected contraceptives (12.5%), respectively. The probable reason of this order of the misconceptions about these methods might be the fact that these methods are the most known effective methods in Turkey. Indeed, the women also stated that they would certainly not use the methods about which they had myths. This can affect the distribution of usage of methods in future. Nearly half of the women in the study believed in that oral contraceptive methods caused weight gain, infertility, bleeding disorders, hirsutism, cancer, and premature menopause. Similarly to the results of this study, the women in Gilliam et al.'s study believed in that the oral contraceptives caused weight gain (Gilliam, Warden, Goldstein, & Tapia, 2004).

Also, in a study by Kücük et al.'s 45.2% out of 418 women believed that the usage of oral contraceptives caused weight gain (Kücük, Aksu & Sezen, 2012). Although this belief of women, a study done with total 1916 women in America by Brunner et al. (2005) identified no statistically significant relationship among body mass index (BMI) and the weight gain and the usage of oral contraceptives (Brunner & Hogue, 2005). It has been found no difference between the case group and the control group about the weight gain and usage of oral contraceptive methods in a systematic review of the Cochrane database in 2011 (Gallo, Lopez, Grimes, Schulz, & Helmerhorst, 2011). That was probably caused by the fact that the weight changes naturally as life circumstances change and as women age and because these changes in weight are so common, many women think that the oral contraceptive causes these gains in weight.

The participants believed that they would be infertile after the usage of oral contraceptives. Similarly, in another study done in Turkey, 13.4% of the women had the same opinion (Kücük et al., 2012). In a study performed in Pakistan, 61% of the women had the same belief, which was

very higher than those of our study (Ali et al., 2011). Although in some publications it has been claimed that there would be a delay in pregnancy after the usage of oral contraceptives, there is no clear evidence that the usage of oral contraceptives causes infertility (World Health Organization, 2009).

Another misconception about the use of combined oral contraceptives has been the concern that it would cause bleeding disorder. There are other similar studies reporting on the same concerns (Gilliam et al., 2004). On the other hand, in the literature it has been determined that this method can be used in the treatment of bleeding disorder (Farquhar &Brown, 2009).

In many studies in different countries, women have thought of that oral contraceptives are responsible for cancer (Gilliam et al., 2004; Guendelman, Denny, Mauldon, & Chetkovich, 2000; Sahin, Sahin, Zeteroglu, & Kolusan, 2002; Vogt & Schaefer, 2011). The results of population-based studies investigating the relationship between the usage of oral contraceptives and cancer risk are not consistent with each other. It is shown in research studies that while the usage of oral contraceptives causes in a decrease of the risk of endometrial and ovarian cancer, the usage of oral contraceptives causes in an increase in the risk of breast, cervical and liver cancer (Burkman, Schlesselman, & Zieman, 2004; Delgado-Rodriguez, Sillero-Arenas, Martin-Moreno, & Galvez-Vargas, 1992; Lurie et al, 2008; Kumle, Weiderpass, Braaten, Adami, & Lund 2004). For this reason, we believe that the women's concerns about cancer should not be denied.

In parallel to our study, the women in Gilliam et al.'s study believed in that the oral contraceptives caused depression and mood disorders (Gilliam et al., 2004). Guendelman et al.'s (2000) proved that the women using oral contraceptives suffered from irritability, emotional stress and mood disorders (Guendelman et al., 2000). In another study Rapkin et al. (2006) investigated the relationship between the usage of oral contraceptives and irritability/mood disorders. As a result of this study it has been found that the women did not experience any psychological symptoms when they took low-dose oral contraceptives (Rapkin, Morgan, Sogliano, Biggio, & Concas, 2006).

Another barrier found by this study against the usage of contraceptives has been the belief that the birth defects could happen. Although unaware usage of oral contraceptives in the early stages of pregnancy was claimed to cause VACTERL (Vertebral anomalies, Anal atresia, Cardiac defects, Tracheoesophageal fistula and/or Esophageal atresia, Renal & Radial anomalies and Limb defects) syndrome in the 1970s, these findings were proven later to be incorrect in well-controlled and unbiased epidemiologic studies (Harlap, Shiono & Ramcharan, 1985; Baumann, Greinacher, Emmrich, & Spranger, 1976). In recent years, Waller et al.'s study (2010), similarly to other previous studies proved that no increase was observed in most types of congenital malformation in women

usage of OCs during early pregnancy (Waller et al., 2010). That is why, by counseling the women on the benefits, side-effects and risks of OC use, and how to take the tablets correctly and compliantly, prevent unwanted pregnancies; OCs can impact significantly on women's lives.

In Gilliam et al.'s study, the women believed that IUD would stick to the fetus and cause genital infections (Gilliam et al, 2004). A study from India reported common beliefs that IUD would move in the abdomen and cause menstrual problems and infertility. In Ali et al.'s study 53% out of the women thought of that IUD would lead to infertility (Ali et al, 2011). Khan et al. identified similarly some worries that IUD would move inside the body and rust inside and cause infertility. It is an interesting point in Khan et al.'s study that the health care professionals had also worries that the fertility would be delayed and cause pain and discomfort and the infection would spread into the whole body after IUD removal (Khan & Shaikn, 2013). It plays a very important role on this subject that the intrauterine device called Dalkon Shield significantly has increased pelvic inflamation. Although this was many years ago, the device was withdrawn from the market and much safer devices were produced since then, the negative thinking caused by it has remained to this day (Kimble-Haas, 1998). This study identified similar concerns about IUD.

A particular worry reported by research studies has been that IUD would move inside the body (Gilliam et al., 2004). All of these worries could have been caused by the lack of sufficient knowledge about the anatomy and physiology of human reproductive? Therefore, IUD services without a proper training about these devices have not been sufficient to resolve the worries and myths. Rigid patient selection for IUD, strict aseptic technique and a proper training to prevent the wrong beliefs can be applied by nurses. Burrough et al.'s emphasized the significance of the consulting support by specially trained midwives and nurses who have proved to be capable of offering qualified consulting (Burroughs, Dmytrow, & Lewis, 2007).

In a study done with married women in a slum area of Delhi revealed that the women believed in that the injected contraceptives would cause infertility (Singh, Khokar, Pagare, Sharma, & Mehra, 2003). In a study done with South African women, it is found that the women believed in that the injected contraceptives would cause infertility, sexual reluctance (loss of libido), menstrual disturbances, and weight gain (Morroni, Myer, Moss, & Hoffman, 2006). The results of this study also showed that women in Turkey had the same worries. However, in contrast to all of these beliefs, there was no evidence to suggest that prolonged use of Depo-Provera increases the delay before conception, and the return of fertility among never pregnant ex-users resembled that of ever pregnant ex-users (Pardthaisong, Gray, & McDaniel, 1980). In our study, using condoms would cause a decrease in sexual performance and pain was identified as the primary concern. In a qualitative study done in Pakistan with married couples between the ages of 18 to 24, the

participants thought that using condoms would cause sexual reluctance, particularly low back pain and infection (Nishtar, Sami, Faruqi, Khowaja, & Ul-Hasnain, 2012).

A study done in the north of India similarly reported some common beliefs that using condoms would cause lack of sex sensation, weakness, and menstrual problems (Bajwa, Bajwa, Ghai, Singh, & Singh, 2012). Crosby et al.'s also reported research results supporting the worries related to sexuality. They determined that the men and women who had used condoms in the last three weeks of their sexual intercourses suffered from decreased sensation, lack of naturalness, decreased pleasure, and pain and discomfort associated with using condoms (Crosby et al., 2013). The worry has been reported by research studies that norplant remaining in the body for a long time like IUD would move in the body (Gilliam et al, 2004). All of these worries could have been caused by the lack of sufficient knowledge about the anatomy and physiology of human reproductive organs. Therefore, offering IUD services without a proper training about these devices have not been sufficient to resolve the worries and myths.

The participants in this study believed that vasectomy and tubal ligation would cause a decrease in sexual performance. The research studies done in Pakistan and Delhi also reported worries that vasectomy would cause impotency and weakness (Singh et al, 2003; Nishtar et al., 2012). In Shih et al.'s the women and men from all racial/ethnic groups reported a fear of long-term effects of vasectomy on sexual function. Determination of the same worries in research studies done in different countries, in different cultures and at different times seems noteworthy (Shih, Dubé, Sheinbein, Borrero, & Dehlendorf, 2013). On the other hand, contrary to the popular belief, Bertero et al.'s reported that vasectomy caused a positive impact on sexual function, especially on desire and sexual satisfaction, in the majority of men undergoing surgery (Bertero, Hallak, Gromatzky, Lucon, & Arap, 2005). In addition, Li et al.'s showed that, after female sterilization, there was a significant improvement in sexual satisfaction and sexual desire. Therefore, the media campaign featured satisfied vasectomy and tubal ligation users to create awareness of and a positive image for vasectomy and tubal ligation (Li et al., 2011).

In Turkey, the female fertility is highly important to be regarded as "woman" by themselves and by the society. For this reason, even if Turkish women want to use family planning methods for a period of time, they are usually worried about that many of those methods could cause infertility and premature menopause, as seen in most of the methods mentioned above. According to the comprehensive review by Mansour et al., it has been found that one-year pregnancy rates following cessation of oral contraceptives, contraceptive implants and monthly injections, copper IUDs and the LNG (Levonorgestrel)- IUD are broadly similar to those

reported following discontinuation of barrier methods or use of no contraceptive methods (Mansour, Gemzell-Danielsson, Inki, & Jensen, 2011).

6. Conclusions and recommendations

There are many myths and misconceptions surrounding contraception, and they can sometimes prevent a woman from making an informed choice. It is the responsibility of the health professional to be well-informed so that when these myths and misconceptions are raised, they can be challenged with an accurate response. The problem appears to be a health and education issue rather than a pure problem of family planning.

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