Attitudes About Sexual Activity Among Postmenopausal Women in Different Ethnic Groups: A Cross-sectional Study in Jahrom, Iran

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Abstract

Background: Sexual function is affected by personal and interpersonal factors, familial and social traditions, culture, religion, menopause, and aging. So, ethnicity is a determining factor in sexual function. The present study aimed to investigate the prevalence of sexual dysfunction and attitudes towards sexuality in postmenopausal women among three different ethnic groups in Iran.

Methods: This cross-sectional study was conducted on 746 postmenopausal women between 50 and 89 years who referred to Honoree clinic, Jahrom in 2013. Among the study participants, 42.4% were Arab, 33.5% were Persian, and 24.1% were Lor. Data were collected about women’s socio-demographic characteristics, attitudes regarding sexuality and sexual function. The descriptive statistics were used for demographic variables. Moreover, ANOVA, post hoc (LSD) was used. Besides, p<0.05 was considered statistically significant.

Results: The participants’ mean age was 60.10±6.89 years and the total mean score of Female Sexual Function Index (FSFI) was 19.31±8.5. In addition, 81.5% of the women had sexual dysfunction (FSFI < 26.55) and only 147 women (18.5%) had normal sexual function (FSFI >26.55). Sexual dysfunction was 75.3% in Arabs, 83.2% in Persians, and 86.1% in Lors. Besides, the most prevalent sexual dysfunction was dyspareunia in Arabs and arousal disorder in Persians and Lors.

Conclusion: The results of this study showed that sexual dysfunction is considerable among postmenopausal women. The most prevalent sexual dysfunction was dyspareunia in Arabs and arousal disorder in Persians and Lors.

Keywords: Ethnic groups, Menopause, Sexual dysfunction, Women's attitude.


Introduction

Making attempts towards women’s health is one of the priorities of health programs. Women comprise half of the world population and almost 90% of women reach the age of 65 years. Therefore, menopause is one of the life stages and women spend one third of their life time at this stage (1). Menopause is defined as disruption of menstrual cycles following reduction of ovaries’ activities at the end of the fertility period. This phenomenon has a large number of effects and can lead to physical, emotional, and social disorders (2). Menopause is in fact the main phenomenon in middle-aged women’s life which is important with regard to personal, cultural, and social dimensions. It is also of great importance as one of the health issues in women’s fertility (3). On the other hand, sexual activity is a major issue in individuals’ quality of life. Increase of life expectancy and the growing elderly population have made sexual health an important issue in menopausal women (4). Sexual instinct can be influenced by factors, such as diseases, drug consump-
tion, drug abuse, social problems, aging, and meno-

pau, eventually disturbing individuals’ mental health (5). Lumen reported the prevalence of sex-

ual dysfunction as 43% among the women be-

tween 18 and 59 years old and pointed to the im-

portance of menopause as a factor increasing the-

se disorders (6). Although physiological and patho-

logical changes are responsible for such changes

(5), women’s attitude towards menopause plays a

key role in creation or elimination of the problems

(7). However, there are not many studies that re-

port attitude towards sexual function in meno-

pause women and the available studies mentioned

different or incoherent results.

Wang et al. showed that sexual activity is related
to sexual knowledge and attitudes among men and
women over 65 years (8). Although it is a fact that
sexual attitudes of older women are restricted,
studies didn't mention any age-related decrease in
sexual activity and they also didn't confirm a de-
crease in frequency of sexual intercourse among
menopausal women (9, 10).

According to Krantarar et al.’s study about atti-
itudes of menopause women, 96% of women re-
ported having sex in menopause as a natural nor-
mal part of life, 95% reported having sex to make
their partner happy whereas 77% reported sex as a
method to make themselves happy (11).

Some women consider menopause as the period
of freedom because they have no responsibilities
towards their children and are not afraid of getting
pregnant any more. Thus, they may feel more
comfortable and be more sexually active com-
pared to the period before menopause. For some
other women, on the other hand, this period is the
beginning of worries, incidence of signs of old
age, and end of attractiveness (12). In spite of the
fact that women might be sexually inactive during
their reproductive ages, menopause might reduce
their sexual capability and make showing sexual
feelings disgusting for them (13). Thus, reduction
of sexual desire and satisfaction is one of the con-
cerns during menopause. In general, marital satis-
faction is one of the main factors in life (14). The
prevalence of sexual dysfunction was 4 times
higher in menopausal women compared to those
in the reproductive ages (15). Besides, reduction
of sexual attractiveness, desire, and activity was
the most common complaint after menopause
(16). Researchers demonstrated that 35% of men-
opausal women reported reduction of sexual de-
sire and 62% reported this disorder in various
stages of life. The prevalence of reduction of sex-

ual desire was reported to be 47%, 54%, 42%, and
24% in English, Italian, French, and German
menopausal women, respectively (17). The preva-
lence of sexual dysfunction is varied in different
countries. Nonetheless, a limited number of stud-
ies have been conducted on sexual function in
different races and ethnicities.

Huang performed a study on 4 groups of meno-
pausal women with different races and showed
that Black and Latin women had higher sexual
desire compared to White and Asian ones. In ad-
dition, the highest frequency of intercourse was
related to Latin women, while the lowest frequen-
cy was related to Black and Asian ones (18).

In another study conducted on 44-55 year old
women with different races, African-American
women were more sexually active compared to
White ones (19). Also, Nusbaum carried out a
research on White and African women above 40
years old and showed that reduction of lubrication
was more prevalent among the Whites compared
to the African-Americans (20).

Although researchers have recently had the re-
sponsibility to use scientific methods for provid-
ing the necessary compatibility and eliminating or
reducing the problems during menopause (21),
less attention has been paid to such women’s sex-
ual problems. Therefore, these problems might be
quite common during this period. Furthermore,
studies have mostly focused on the prevalence of
these disorders and a limited number of researches
have investigated sexual function in different eth-
icities. Because of the geographical status of
Iran, many races and ethnicities have lived here
from many years ago. Most of them are Fars, Lors
and Arabs, so these three groups were selected as
the community of this research. These ethnicities
are different in culture and habits that can affect
the sexual function. So considering the fact that
Iran is a multiethnic country, the present study
aimed to determine the prevalence of sexual dys-
function and compare it in the menopausal women
in these three different ethnicities.

Methods

The present cross-sectional study was conducted
on 746 postmenopausal women referring to gene-
cology clinics and Honaree clinic of Jahrom, Iran
from April to October 2013. The study was ap-
proved by the Ethics Committee of the Jahrom
University of Medical Sciences. After receiving
the written informed consent, postmenopausal
women were asked to answer the questionnaire by
themselves. It took about 25-30 min to complete the questionnaire form and the Female Sexual Function Index (FSFI) instrument. The questionnaire was read for the illiterate women and their responses were recorded.

Exclusion criteria were, chronic diseases (hypertension, heart disease, diabetes), women with continuous hormone therapy, having physical problems of spinal cord injury, mutilation, paralysis, having psychological problems or taking antidepressants or sedative medications.

The inclusion criteria of the study were women with natural menopause with ≥12 months since the last menstrual period and ≥50 years of age. All women lived with their sexual partners.

Data collection tools were questionnaires. These questionnaires were composed of three parts, the first part was the demographic part, which included age, education, occupation, body mass index, the second part was to assess sexual function by FSFI and the third part was the sexual attitudes.

Female Sexual Function Index (FSFI) is a questionnaire designed by Rosen et al. This questionnaire consists of 19 questions investigating the subjects in 6 domains of sexual desire, sexual arousal, lubrication, orgasm, sexual satisfaction, and pain during intercourse. In this questionnaire, the questions are scored based on 0/1-5 scoring system and the score of each domain is calculated through summing up the scores of that domain’s questions and multiplying the obtained number by the multiplier factor of that domain. It should be mentioned that sexual desire is covered by questions 1 and 2, excitement by the sum of questions 3, 4, 5, and 6, lubrication by adding questions 7, 8, 9, and 10, orgasm by the sum of questions 11, 12, and 13, sexual satisfaction by adding questions 14, 15, and 16, and pain by summing up questions 17, 18, and 19. In addition, multiplier factors of 0.6, 0.4, and 0.3 are used for domains including 2, 3, and 4 questions, respectively. In general, each domain has a minimum (0-1.2/1.8) and a maximum (6). In addition, the sexual function total score is obtained from the sum of the scores of all the domains and is ranged from 2 to 36. The cut-off score used to demarcate sexual dysfunction on the total FSFI score was obtained from a validation study that compared FSFI scores in women with documented sexual dysfunction with those of dysfunction-free volunteers and determined a total score below 26.55 to denote sexual dysfunction (22).

According to the study by Safarinejad, <10, 11-17, 18-23, and >23 scores were defined as severe, average, mild, and no disorders, respectively (23). The cut-off scores to determine the presence of difficulties on the six domains of the FSFI were obtained from published sources (22, 24, 25). Accordingly, scores less than 4.28 on the desire domain, less than 5.08 on the arousal domain, less than 5.45 on the lubrication domain, less than 5.05 on the orgasm domain, less than 5.04 on the satisfaction domain, and less than 5.51 on the pain domain were used to classify participants as having difficulties in that domain. Researchers translated this questionnaire to the language of their study populations and determined its reliability and validity as well. Overall, FSFI questionnaire is a general standard one in which the reliability and validity were determined by Rosen et al. in a study conducted in 2000. Mohammadi also performed a study in Shahed University, Iran in 2004 and confirmed the reliability as well as the validity of the questionnaire (26, 27). In this study, the Persian version of FSFI was used because Persian is the main national language in Iran. All people from different ethnicities in Iran are familiar with this language. So it isn’t necessary to translate FSFI for different ethnicities in Iran.

The other data collection tool was sexual attitudes self-made questionnaire which consisted of 12 questions that required participants to indicate whether they agree or disagree with the statements using the following scales: 1- disagree, 2- undecided, 3- agree. A final score was obtained for the total scale by summing responses graded with scores, ranging between 12-48. Lower scores showed negative sexual attitudes while higher scores showed positive attitudes. They were categorized as negative (scores 17-32), medium (scores 33-38) and positive (scores 39-48). According to Hashemi’s study, the questionnaire’s face and content validity were evaluated by ten gynecologists and psychiatrists who were expert in the field of sexual health. The reliability of the questionnaire was assessed using test-retest and inter-rater reliability. In these methods, first a trained questioner completed questionnaires for 30 participants, then another observer filled the same questionnaire. After one week, the first questioner filled them out again. Using statistical analysis, the results of two observatories as inter-rater reliability and two assessment of first questioner as test-retest reliability were compared. Both were confirmed by r=0.91 and r=0.85, respectively (28). The reliability of the questionnaire and questioners by using
test-retest and inter-rater method was assessed as well and it was confirmed by $r=0.88$ and $r=0.87$, respectively too.

**Statistical analysis:** Finally, the data were analyzed statistically using SPSS (Statistical Package for the Social Sciences, version 16) and descriptive statistics (including frequency, percent, mean, standard deviation, maximum and minimum) for the sociodemographic variables. Chi-square, one-way ANOVA and post hoc tests were used to determine the inter-domain correlations in the groups. Besides, $p<0.05$ was considered statistically significant.

**Results**

The present study was conducted on 746 postmenopausal women in the age range of 50-89 and with the mean age of 60.10±6.89 years. Almost 36.7% of the cases had no formal education. Most of the women (40.6%) in our study group were housewives. Among the women who answered the question about BMI, most (42.5%) were obese. Of all, only 35 women (4.7%) were current smokers. Almost 60.5% of women had no knowledge on menopause (Table 1). Comparing the sexual function in each domain, the lowest mean score was noted in the domain of desire (2.82±1.40), arousal (3.10±1.55), followed by orgasm (3.11±1.73), pain (3.25±1.73), lubrication (3.31±1.78), and satisfaction (3.72±1.50). There was no significant relationship between attitude and sexual function domains.

According to the results, 14.8%, 20.7%, 30.4%, and 34.2% of the study participants had severe, average, mild, and no sexual dysfunction, respectively.

Domain scores suggestive of difficulties related to desire was prevalent in 647 cases (86.7%); arousal in 682 (91.8); lubrication in 659 (88.6%); orgasm in 646 (86.9%); poor satisfaction in 593 (79.7%); and pain in 672 (90.40%). The prevalence of the sexual problems has been shown in Table 2. The common disorders were arousal dysfunction and dyspareunia. Besides, the prevalence of sexual dysfunction was 75.3% in Arabs, 86.1% in Lors, and 83.2% in Persians.

Furthermore, 52.49% of the women had a negative attitude towards having sex during menopause. However, 34.6% mentioned that sexual relationships were exhilarating for menopausal women, and 83% stated that these relationships led to their husbands’ happiness. On the other hand, 30% of the women believed that having sex during menopause was shameful, 30% stated that it was against Iranian culture, and 18% considered having sexual relationships in this period as a sin. Moreover, 30% of the women expressed that they were ashamed because of the physical changes which had occurred due to aging. Nonetheless, 65.5% mentioned that sexual relationships were quite pleasing since they were not worried about getting pregnant. Overall, the most prevalent sexual dysfunction was dyspareunia in Arab women and arousal disorders in Persian and Lor ones (Tables 3 and 4).

Regarding the participants’ attitude towards having sex during menopause, 30% of the Arab and Persian women stated that it was shameful and

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50-55</td>
<td>242</td>
<td>32.4</td>
</tr>
<tr>
<td>56-60</td>
<td>166</td>
<td>22.3</td>
</tr>
<tr>
<td>&gt;60</td>
<td>338</td>
<td>45.3</td>
</tr>
<tr>
<td>Educational level</td>
<td></td>
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<tr>
<td>Uneducated</td>
<td>274</td>
<td>36.7</td>
</tr>
<tr>
<td>Primary school</td>
<td>201</td>
<td>26.9</td>
</tr>
<tr>
<td>Secondary school</td>
<td>145</td>
<td>19.6</td>
</tr>
<tr>
<td>College or university</td>
<td>125</td>
<td>16.8</td>
</tr>
<tr>
<td>Body Mass Index</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMI 20-24.9</td>
<td>177</td>
<td>23.7</td>
</tr>
<tr>
<td>BMI 25-29.9</td>
<td>252</td>
<td>33.8</td>
</tr>
<tr>
<td>BMI &gt;29.9</td>
<td>317</td>
<td>42.5</td>
</tr>
<tr>
<td>The source of information on menopause</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physician, midwife/nurse</td>
<td>268</td>
<td>35.9</td>
</tr>
<tr>
<td>Neighbors-relatives</td>
<td>387</td>
<td>51.9</td>
</tr>
<tr>
<td>Books-magazines-newspaper-TV-radio-internet</td>
<td>91</td>
<td>13.2</td>
</tr>
</tbody>
</table>

**Table 1. Sociodemographic and menopause knowledge of the study population (n=746)**

<table>
<thead>
<tr>
<th>Domain</th>
<th>Sexual dysfunction</th>
<th>No sexual dysfunction</th>
<th>Domain FSFI (Mean±SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
</tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total score</td>
<td>599</td>
<td>81.5</td>
<td>136</td>
</tr>
</tbody>
</table>

Table 2. Prevalence of sexual dysfunction according to FSFI scores among postmenopausal women (n=746)
28.7% believed it is against Iranian culture. Also, 34% of the Lor women reported that having sexual activity during menopause was shameful and 32% mentioned it is against Iranian culture.

**Discussion**

Many studies assessed the attitude and sexual dysfunction in menopause women but few studies are done about ethnicity and comparing them in our country. According to the study results, the most prevalent sexual dysfunctions among menopausal women were arousal disorder and dyspareunia. The prevalence of sexual dysfunction was 81.5% in this study. Kaboudi also conducted a study on 141 menopausal women in Kerman-shah and reported that the prevalence of sexual responses disorders in desire and arousal phases was 70% (29). However, the prevalence of these disorders was estimated to be 40% by Olaoloram in Nigeria (30), 35.9% by Valadares (31) and 72.4% by Arman et al. (32). Moreover, Pohnholzer reported that dyspareunia is the most prevalent sexual disorder. In that study, the total prevalence of sexual dysfunction was 29.6% and the prevalence rates of dyspareunia, arousal disorder, orgasmic disorder, lack of satisfaction, and insufficient lubrication were 67.8%, 60.9%, 59.1%, 52.2%, and 50.4%, respectively (33). These results were in agreement with those of the present study. These disorders might be attributed to women’s negative attitude toward menopause and sexual relationships in this period as well as to some physiological changes resulting from reduction of levels of some hormones, particularly estrogen. In fact, menopausal women undergo a lot of endocrine, physical, and mental changes due to deprivation from estrogen, which cause considerable distress and disability in them (34, 35). One of such changes is urogenital atrophy which leads to various signs and symptoms and affects women’s tranquility and life quality. In this regard, Brown stated that vaginal atrophy and dyspareunia were less common among the women who were more sexually active (36). In general, almost two third of the women above 60 years experience sexual dysfunction and dyspareunia (37). In the current study also, nearly 80% of the participants stated that they had few sexual relationships with their husbands, which could have played a role in vaginal atrophy and dyspareunia. Furthermore, investigation of sexual function in menopausal women revealed that arousal decreased in this period leading to an increase in dyspareunia and vulvodynia (38). Lack of sexual desire and arousal could also lead to orgasmic disorder and lack of sexual satisfaction which have a negative impact on couples’ relations. Thus, these disorders must be prevented in menopause (39, 40).

In the present study, the lowest mean score was related to sexual desire. Olaoloram mentioned that sexual desire was influenced by aging in such a way that menopausal women reported this disorder more than premenopausal ones (30). The study by Lorenzi et al. showed that sexual desire had reduced in 60.6% of the menopausal women (41). Also, in a study which was conducted on menopausal women in Iran, 70.3% of the participants reported reduction of sexual activity after menopause and 56.4% had sexual dysfunction. Besides, the prevalence rates of dyspareunia and reduction of sexual desire were 55.6% and 70%, respectively (42).

Chedraui also evaluated middle-aged women’s sexual desire and stated that women’s sexual responses at these ages were affected by aging and signs of menopause (43), which is consistent with the findings of the current study. Similarly, Merryn indicated that aging and long-term relationships with one’s spouse were effective in reduction of couples’ sexual desires (44).

**Table 3.** Frequency of sexual dysfunction in each area among the three groups

<table>
<thead>
<tr>
<th>Domain</th>
<th>Arab (n=316)</th>
<th>Persian (n=250)</th>
<th>Lor (n=180)</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desire</td>
<td>81.6</td>
<td>87.6</td>
<td>94.4</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Arousal</td>
<td>86.7</td>
<td>94.8</td>
<td>96.6</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Lubrication</td>
<td>88</td>
<td>83.6</td>
<td>96.1</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Orgasm</td>
<td>81.3</td>
<td>90.4</td>
<td>96.1</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Satisfaction</td>
<td>77.5</td>
<td>81.6</td>
<td>80.9</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Pain</td>
<td>89.2</td>
<td>88.4</td>
<td>95.5</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td>Total score</td>
<td>75.3</td>
<td>83.2</td>
<td>86.1</td>
<td>p&lt;0.001</td>
</tr>
</tbody>
</table>

*P-value ANOVA and post hoc test: between first, second, and third groups

**Table 4.** Sexual function score in each domain and sexual function total score in the 3 groups (M±SD)
Our study results demonstrated a significant decrease in all dimensions of sexual function in all the three ethnicities. In addition, it seems Arabs are different from 2 other ethnicities because the most prevalent sexual dysfunction was dyspareunia among Arab women and arousal disorder was the common problem among Persian and Lor ones. With aging, sexual activity is more affected by culture and individuals’ behavior rather than physiology and hormones. Hence, racial, ethnic, and cultural differences and social traditions have been mentioned as the reasons for differences in the prevalence rates of sexual disorders. The present study results also showed that the participants of the three groups suffered from different sexual disorders.

In patriarchal societies, talking about sexual desire and satisfaction is considered as a taboo and women do not take satisfaction of sexual needs. Besides what women learn about love, sexual issues, and sexual relationships in family and religion, it is the culture that identifies the acceptable degree of satisfaction with sexual relations for them. Moreover, women’s attitude toward sexual function in menopause has a great effect on the prevalence of disorders and it was mentioned in Hashemi et al.’s study. In this study, almost one third of the women in all the three groups mentioned that having sex during menopause was shameful and 30% believed it is against Iranian culture. Nonetheless, the women with different ethnicities had gained various sexual function scores. Thus, cultural, social, and racial factors can to some extent justify the differences among the three groups.

Considering the menopausal women’s attitude towards sexual function, 33% stated that sexual relations were shameful at this stage, 30% mentioned that they were against Iranian culture, and 18% believed them to be a sin. The study by Wang et al. revealed a correlation between sexual activity and knowledge and attitude of the men and women above 65 years old. In the current study, 60.5% of the women had no information about the signs of menopause which could have resulted in sexual dysfunction as well as their negative attitude towards sexual relations during this period.

According to the results of a previous study which was conducted on 27500 men and women between 40 and 80 years from 29 countries, 82% of the women and 76% of the men believed that having sex was necessary for keeping a relation. Additionally, 65% of the men and 57% of the women were against the idea that the elderly should not have sex, which implies that sexual desire increases even after menopause. It seems that in addition to biological, cultural, and social status, women’s attitude towards sexual desire affects their sexual function. The current study findings indicated that 60.5% of the women had no information about the signs of menopause, 51.9% had obtained information from their relatives and neighbors, and only 35.9% had gained information from health staff and midwives. In the same line, Garsia et al. reported that the increase of sexual dysfunction and other signs of menopause resulted from their lack of sexual knowledge. Hence, increase of sexual knowledge in this period causes sexual dysfunction resulting from menopause signs and the changes in sexual behaviors not to be considered abnormal; rather, it leads to making attempts to handle, eliminate, or reduce these problems. Thus, sexual knowledge plays a key role in prevention and treatment of female sexual dysfunction.

In this study, one of the strong points was using FSFI questionnaire which contains all the key dimensions of sexual function, has a high reliability as well as validity, and has been less used in Iranian context. In addition, the individuals referring to the clinic had a specific socio-cultural status and a considerable amount of time had to be spent for explaining the questions and obtaining accurate answers. Nevertheless, since it was the first time that these issues were discussed with them, their answers were quite honest and reliable. The limitation of our research is that this study was performed in Iran for the first time and the result of the study from Jahrom (a city of Iran) can not be generalized. Therefore, more studies with more sample size should be performed in different ethnicities and races. The weakness of our study is that sexual performance of the partners is not assessed; as it is known, male sexual dysfunction can be one of the effective factors in the couple's sexual performance.

Conclusion

The prevalence of sexual dysfunction was 80% and the most common disorders were arousal disorders and dyspareunia. In addition, 50% of the women had negative attitudes towards having sex during menopause. Furthermore, investigation of the frequency of sexual dysfunction in various ethnic groups demonstrated that the prevalence of
these disorders could be different depending on ethnicity and mental and physical health status. Therefore, the health personnel are recommended to hold continuous training courses regarding sexual activities for menopausal women, refer the individuals suffering from sexual dysfunction to consultants and psychotherapists, and make the women at the end of their reproductive ages familiar with physiological changes during menopause and train them how to deal with such changes. Since the types of sexual dysfunctions vary in different cultures, this issue is suggested to be assessed in ethnicities with larger populations. In addition, qualitative studies are required to be conducted in order to determine sexual behaviors and provide facilities for sexual health which can eventually affect the menopausal women’s quality of life.

Acknowledgement
This study was approved and financially supported by Jahrom University of Medical Sciences.

Conflict of Interest
The authors declare that there is no conflict of interests regarding the publication of this paper.

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