Examining the relationship between spiritual health and mental health with drug addiction among the student population in central Iran

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Abstract
Background and aims: It has been nearly a century since human society has been determined to find a fundamental solution to the problem of drug addiction, as one of the fundamental problems of human life. Therefore, this study was conducted to determine the relationship between spiritual and mental health and the tendency to addiction in the student population of Kashan.

Methods: In this Analytical cross-sectional research, the statistical population included the 600 participants of students aged 18 to 35 in Kashan city, and Simple Random Sampling was done from universities of medical sciences, Islamic Azad University, and Kashan University in 2018-2019. The students completed questionnaires about spiritual health, mental health, and the tendency to use drugs, and the results obtained after collecting and recording were analyzed by statistical tests using SPSS version 26 software.

Results: The average scores of the students in terms of mental health, spiritual health, spiritual health from the perspective of Islam, and readiness for addiction were 1.01 ± 0.70, 75.10 ± 20.83, 86.43 ± 21.26 and 30.95 ± 20.34, respectively. Spiritual health, spiritual health from the perspective of Islam, and readiness for addiction were related to the age (P < 0.05), gender, educational level (P < 0.05), and marriage (P < 0.001) of the students.

Conclusion: Considering the positive and significant role of spiritual health in mental health, strengthening the spiritual dimension can improve mental health, reduce mental disorders, reduce the desire to use drugs, and continue the course of addiction treatment.

Keywords: Spiritual health, Mental health, Drug addiction, Student

Introduction
Drug abuse among students is a public health concern. The use of drugs at this young age makes one susceptible to drug dependence later in adulthood. Research has indicated that the use of licit and illicit drugs among adolescents has enhanced worldwide. The age of initiation to drug abuse is reducing as it is reported that all forms of addiction are highest in the age group of 20–29 years (1). In Iran, drug abuse is one of the critical public health, treatment, social, and cultural issues, so more than 90% of Iranian people expressed their concerns about drug abuse incorporating all aspects of an individual’s health. It is a central core that links to and underlies all other facets of a person’s health and helps them live a meaningful life behaviors and problems such as mental disorders, aggression, violence, antisocial behaviors, academic failure, lack of interest in education, suicide attempts, and prostitution, which shows the problem’s importance (3,4). Researchers are looking to identify influential factors in preventing substance abuse. It is possible that some factors as protective and others as risk factors can delay or accelerate the development of drugs (5). One of the protective factors is religiosity and spirituality, which has been mentioned in some research as a shield against substance addiction (6-8)

Spiritual health has been defined as a power that can incorporate all aspects of an individual’s health. It is a central core that links to and underlies all other facets of a person's health and helps them live a meaningful life

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(9). In religious psychology, in terms of the importance of religion in all aspects of life, psychological factors of religion are examined. The relationship between religion and personality has been a topic of interest, and acceptable results have been reached. As an example, Wienemann et al (10) showed that religion causes a feeling of well-being; it seems that religious attitude affects human behavior (11). Also, Schuler et al (12) state that religious beliefs lead to improved health, quality of life, and increased self-esteem. It is among the factors that can play an influential role in preventing and reducing mental disorders, as well as the problems caused by them, such as suicide, drug addiction, depression, and anxiety.

In addition, mental health is one of the underlying factors in preparing for addiction in different people (13). Research has shown that more than half of people with addiction disorders also have mental disorders (14). According to the definition of the World Health Organization, mental health is: “balanced and harmonious communication with others, modification of the personal and social environment and resolution of conflicts and personal desires in a logical, fair and appropriate manner” (15). Many mental disorders are associated with an increased risk of later substance use conditions, but essential differences in these associations are observed across the categories of use, abuse, and dependence on abuse (16). Studies have shown that people's mental health plays a determinant role in their quality of life and protects them from dangerous factors, so people with mental health issues are less likely to abuse drugs (16-18).

Through establishing a moral order, providing opportunities to acquire learned competencies, and preparing social laws, religion plays an influential role in the occurrence or prevention of social and moral problems, physical health, and even mental health issues (19-22). In one survey, 85% to 90% of people answered that religion helps them cope with stress and is a source of mental calmness. Meanwhile, an essential part of people who turn to drugs, instead of using spirituality, take help from drugs to reduce pain and suffering and cope with stress (23). In addition, the research results show that spirituality and religious beliefs play an essential role in preventing and recovering addiction. Also, research shows that many recovering drug addicts attribute their recovery to spirituality in the first place, and religious and spiritual beliefs play an important role in relapse prevention (20).

On the other hand, other research results show that religious beliefs are an important predictive factor for drug use in the future, and non-religious people are more exposed to drug use in the future than others; some research also shows opposite results. In another study, Brown et al showed that religiousness protects against risky behaviors such as smoking, alcohol, marijuana, and cocaine (24). In similar results, Nonnemacher et al found that people's religiousness is a protective factor against the use of alcohol, marijuana, and cocaine (25). In a study on Tehran University students by Jamali et al, they investigated the predictive power of spiritual experiences and thrill-seeking. The results showed that predicting that people with high excitement will fall into a disorder like addiction in the future would not be an entirely reasonable prediction. However, this study of Jamali emphasizes the role of spiritual experiences in the tendency to use drugs; in fact, we can expect that with the increase of spiritual experiences, we will witness a decrease in the tendency to addiction (26). Also, the results of Heinz and colleagues' study showed that Spirituality enhances the potential to adapt, reduces stress, and enhances resilience before stress (27).

Therefore, considering the unfortunate increase in addiction statistics and the danger of the destruction of the country's young generation and future builders, and considering the role of colonialism and cultural invasion on the one hand, and the weak performance and measures taken in the field of cultural struggle and the increase in public awareness on the other hand, and the danger of spreading this ominous phenomenon and the destruction of the country's creative future makers, the present research seeks to be able to investigate some of the causes and issues related to addiction. According to the above information, this study was conducted to explain whether there is a relationship between spiritual health and mental health with the tendency to addiction in the student population of Kashan so that its results can be used in effective planning.

**Methods**

This cross-sectional study has been approved by the Kashan University of Medical Sciences ethics committee (IR.KAUMS.MEDNT.REC.1398.013). The statistical population of this research is all students of Kashan universities. From this community, 750 people were selected by random sampling from different universities in Kashan city (University of Medical Sciences, Kashan University, and Islamic Azad University). The sampling method was simple, random, and multi-stage from Kashan University of Medical Sciences, Kashan University, and Kashan Islamic Azad University.

The included subjects were aged 18 to 35 years, being a student and studying in Kashan city in 2019. In this study, from the universities of medical sciences, Islamic Azad University, and Kashan University, 250 people from each university were enrolled in the study at associate, bachelor, master, and doctorate levels. The tools used in this study included questionnaires for demographic information, spiritual health, mental health (symptom checklist SCL-90-R), and desire for drugs (Iranian Addiction Potential Questionnaire, IAPS).

Study inclusion criteria: the age was 18 to 35 years, and being a student and studying. Also, the exclusion criteria of the study It is an incomplete questionnaire and a lack of cooperation.

The instruments used in the study include the following:

**Mental Health Questionnaire:** In this research, to
measure mental health, the SCL90 designed by Drogatis et al, which includes 90 questions in a 5-point Likert scale, is used. This questionnaire measures the mental health of the subject in 9 subscales. These subscales include depression, anxiety, self-morbidity, obsession, interpersonal sensitivity, aggression, paranoia, phobias and psychosis (28). Each item is graded from 1 to 5 according to the severity (none, mild, moderate, severe, and extreme). The scores of these 90 items were summed to create a total score, and the symptoms were regarded as positive when the total score exceeded 160 points. In addition, each factor was scored (factor score = total score of all items contributing to the factor/number of items contributing to the factor), and a factor score of ≥ 2 indicated positive symptoms.

The content validity of this questionnaire was checked and confirmed by Bagheri in 2013 (29). The calculated alpha coefficient for the entire questionnaire was 0.89.

Spiritual health questionnaire: Amiri and colleagues' spiritual health questionnaire was used in this research. With 48 items, this questionnaire was recognized as necessary, relevant, and understandable by the experts and the target community. This questionnaire showed the existence of 6 factors in the structure of the formulated items, and the optimal model was explained in the form of two cognitive-emotional and behavioral components. Each item is scored based on the Likert scale from 1 (completely agree) to 5 (completely disagree). Then, the scores are changed to the format of 0 to 100 (1-100, 2-75, 3-50, 4-25, 5-0) so that the higher score indicates a higher level of spiritual health.

The content validity of the spiritual health questionnaire was checked and confirmed by Amiri et al. The internal consistency method checked the tool's reliability, and Cronbach's alpha was reported to be more than 0.7 (29).

Addiction tendency questionnaire: In this research, the IAPS by Wade et al, which contains 41 questions, was used to measure addiction tendencies. Efforts have been made to determine its authenticity in Iran, which Zargar made according to Iranian society's psychological and social conditions. This questionnaire comprises two factors and has 36 items plus five lie detector items. This questionnaire is a combination of two active and passive preparation factors. Active readiness is related to antisocial behaviors, desire to use drugs, positive attitude to drugs, depression, and excitement, and in the second factor, most substances are related to lack of self-expression and depression. The validity and reliability of the addiction readiness questionnaire have been proven by Zargar et al in 2013,(30) and the reliability of the scale was calculated using Cronbach's alpha method of 0.90, which is within the optimal range.

In this study, all the confidential information of individuals was protected. In order to conduct this study, the research and technology vice-chancellor introduced the presenters to the research units; then, the research objectives were explained to the units, and informed consent was obtained from the participants. This questionnaire has a lie detector with questions 2, 15, 21, and 33. In order to get the overall score of the three-part question, the total scores of each question (except for the lie detector scale) must be added together. This score will have a range from 0 to 108. Higher scores mean the respondent is more prepared for addiction and vice versa (29).

Descriptive statistics (prevalence, frequency percentage, cumulative frequency percentage, mean, standard deviation, and standard error of the mean) were used to describe and analyze the data in the research, as well as inferential statistical methods such as Pearson’s correlation coefficient test and bivariate and multivariate regression analysis were used to test the hypotheses.

SPSS version 16 software was used for data analysis, and the significance level was considered less than 0.05.

Results

Descriptive and demographic characteristics of the students under study

A total of 617 students from three Kashan University of Medical Sciences (215 people), Islamic Azad University of Kashan (204 people), and Kashan Ministry of Science (198 people) participated in this study. The reason for dropping out of the study is the refusal to complete the questionnaire and participate in the research.

The demographic findings show that 388 (62.9 %) of the participating students were male. The average age of the studied students was 23.79 ± 3.90. 146 (24%) students are married, and 358 (58%) studied students are studying at the undergraduate level.

Determining the condition of students in terms of mental health, spiritual health, and addiction readiness

The condition of the students in terms of mental health, spiritual health, and the desire for addiction is shown in Table 1.

The findings of Table 1 show that the average score of the total students in terms of mental health, spiritual health, and readiness for addiction is 1.01 ± 0.70, 75.10 ± 20.83, 86.43 ± 21.26, 30.95 ± 20.34 respectively.

Investigating the relationship between mental health and spiritual health and addiction readiness

The relationship between mental and spiritual health and addiction readiness is shown in Table 2.

The findings of Table 2 show that mental health (P < 0.01, R = 0.585), spiritual health (P < 0.01, R = -0.399), and spiritual health from the perspective of Islam (P < 0.01, R = -0.303) have a significant relationship with readiness for addiction so that with a decrease in the mental health score (improvement of mental health) in students, the level of readiness for addiction in them decreases. Also, with the increase in the scores of the variables of spiritual health and spiritual health from the perspective of Islam in
The condition of students in terms of the total score of mental health, spiritual health, and addiction readiness according to demographic variables

The condition of the students in terms of the total score of mental health, spiritual health, and addiction readiness according to demographic variables is shown in Table 3.

The results of Table 3 show that mental health and spiritual health have a significant relationship with the gender of students, so the average mental health among male students was significantly lower (better mental health) than among female students ($P = 0.023, R = -0.019$); also, the average spiritual health among male students was significantly higher than female students ($P = 0.001, R = -0.271$).

Among the other findings in Table 3, it can be mentioned that there is a significant inverse relationship between spiritual health, spiritual health from the perspective of Islam (R = -0.088), and readiness for addiction with the age of the students ($P < 0.05, R = -0.103$).

Table 3 shows that the place of study and the university have no relationship with mental health, spiritual health, or spiritual health from the point of view of Islam; students’ tendency towards addiction and the level of mental health of all students in all universities has been similar.

The findings of Table 3 also show that mental health, spiritual health from the perspective of Islam, and readiness for addiction have a significant relationship with the marital status of students so that the average mental health among married students is significantly lower (better mental health) than single students ($P = 0.014$). In addition, the average spiritual health from the perspective of Islam among married students was significantly higher than that of single students ($P = 0.014$). In addition, married students’ average readiness for addiction was significantly lower than that of single students ($P < 0.001$).

From the findings of Table 3, it can also be seen that mental health, spiritual health, and spiritual health from the perspective of Islam among married students was significantly higher (better mental health) than single students ($P = 0.014$). In addition, the average spiritual health from the perspective of Islam among married students was significantly lower than that of single students ($P < 0.001$). In addition, the average spiritual health from the perspective of Islam among dental students is significantly lower than that of single students ($P < 0.001$). In addition, the average spiritual health from the perspective of Islam among dental students is significantly lower than that of single students ($P < 0.001$).
Table 3. The condition of students in terms of the total score of mental health, spiritual health, and addiction readiness according to demographic variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mental health</th>
<th>Spiritual health</th>
<th>Spiritual health from the perspective of Islam</th>
<th>Preparation for addiction</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of study</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Medical Sciences</td>
<td>1.01 ± 0.70</td>
<td>75.04 ± 20.86</td>
<td>86.83 ± 21.38</td>
<td>30.84 ± 20.29</td>
</tr>
<tr>
<td>Islamic Azad university</td>
<td>1.02 ± 0.70</td>
<td>74.99 ± 20.90</td>
<td>85.97 ± 21.37</td>
<td>31.12 ± 20.45</td>
</tr>
<tr>
<td>Ministry of Science</td>
<td>1.01 ± 0.70</td>
<td>75.27 ± 20.84</td>
<td>86.46 ± 21.10</td>
<td>30.90 ± 20.39</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Man</td>
<td>0.96 ± 0.69</td>
<td>77.23 ± 19.82</td>
<td>87.67 ± 22.23</td>
<td>32.05 ± 22.19</td>
</tr>
<tr>
<td>Woman</td>
<td>1.10 ± 0.71</td>
<td>71.48 ± 22.02</td>
<td>84.32 ± 19.36</td>
<td>29.10 ± 16.62</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correlation coefficient</td>
<td>-0.019</td>
<td>-0.271</td>
<td>-0.088</td>
<td>-0.103</td>
</tr>
<tr>
<td>P value**</td>
<td>0.640</td>
<td>0.000</td>
<td>0.029</td>
<td>0.011</td>
</tr>
<tr>
<td>Marital status</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>1.05 ± 0.69</td>
<td>75.42 ± 20.87</td>
<td>85.26 ± 21.24</td>
<td>33.17 ± 20.66</td>
</tr>
<tr>
<td>Married</td>
<td>0.89 ± 0.72</td>
<td>74.04 ± 20.76</td>
<td>90.18 ± 20.94</td>
<td>23.79 ± 17.51</td>
</tr>
<tr>
<td>Grade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associate degree</td>
<td>0.94 ± 0.70</td>
<td>79.14 ± 16.95</td>
<td>90.54 ± 18.87</td>
<td>30.91 ± 19.40</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>0.99 ± 0.66</td>
<td>73.87 ± 20.95</td>
<td>84.62 ± 21.39</td>
<td>30.49 ± 19.95</td>
</tr>
<tr>
<td>Master's degree</td>
<td>1.22 ± 0.88</td>
<td>77.78 ± 20.84</td>
<td>91.39 ± 16.76</td>
<td>32.02 ± 19.49</td>
</tr>
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<td>Ph.D</td>
<td>0.51 ± 0.50</td>
<td>58.39 ± 23.59</td>
<td>76.58 ± 25.84</td>
<td>19.33 ± 13.06</td>
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<td>Doctor of Medicine</td>
<td>1.03 ± 0.71</td>
<td>78.19 ± 20.14</td>
<td>90.88 ± 22.17</td>
<td>31.39 ± 22.84</td>
</tr>
<tr>
<td>Doctor of Dentistry</td>
<td>1.25 ± 0.74</td>
<td>73.25 ± 24.08</td>
<td>80.48 ± 22.98</td>
<td>37.18 ± 21.77</td>
</tr>
<tr>
<td>P value***</td>
<td>0.004</td>
<td>0.012</td>
<td>0.007</td>
<td>0.193</td>
</tr>
</tbody>
</table>

* ANOVA; ** Independent t-test; *** Correlation test.

significantly lower than among associate, master, and medical students (P < 0.05).

Discussion

This current study aims to determine the relationship between spiritual and mental health and the tendency to addiction in the student population of Kashan. Based on the obtained results, the average score of the total students in terms of mental health, spiritual health, spiritual health from the perspective of Islam, and readiness for addiction is, respectively, 1.01 ± 0.70, 75.10 ± 20.83, 86.43 ± 21.26, and 30.95 ± 20.34 and it is at a medium level.

Patients who received spirituality-based interventions mentioned spirituality as an essential factor in reducing temptation and high-risk behaviors such as AIDS and increasing hope and happiness (20).

The results of Morjaria and Orford's research show that a purposeful and meaningful life, spiritual activities such as praying and participating in religious gatherings prevent heavy drug use during recovery (31).

In a study conducted by Naghibi et al (32) to determine the relationship between spiritual health and mental health in methadone maintenance patients affiliated with private and public centers in Sari City, the average spiritual health score was 43.29. The average mental health score was 41.26, which was lower than the results obtained in the present study. This study's lower mental health scores can be due to the difference in the statistical population between the two studies. In another study conducted by Shahabinejad et al (33) to determine the level of mental health of students using the SCL90 questionnaire, 36% of the students were healthy in terms of general symptoms of mental disorders, and 64% were suspected of mental disorders, of which 50.9% had mild disorders, 10.9% had moderate disorders, and 2.2% had severe disorders. Also, in line with the results of this study, in the research conducted by Mostafazad and Asadzadeh, 94.73% (72 people) of midwifery students had spiritual health at an average level (34).

Based on the findings of this study, there is a significant relationship between students' mental and spiritual health and their gender. So, the average mental health among male students was significantly lower (better mental health) than female students. Also, the average spiritual health among male students was significantly higher than female students. Similar to the findings, in the study of Hojjati et al (35), it was found that there was a significant relationship between mental health and gender, so men had higher mental health. In the study of Ghodasara et al (36), they stated that gender is known to be one of the most important influencing factors on students' mental health. In other evidence, Asadi et al (37), Rafati et al (38), Biró and colleagues' study (39), and Chen et al (40), in line with the present study, showed that female students had more mental disorders than male students, more restrictions on girls before entering the university in our society, biological and hormonal factors, environmental stress and their being more sensitive to their surroundings are among the factors that predispose them to emotional and mental problems. However, contrary to the results obtained in the present study regarding gender, in the study by Kolahi Hamed (41) and Shahriari et al (42), no statistically significant difference was found between the gender of the participants, the tendency to use drugs, and
the prevalence of mental disorders.

Based on the results of this study, there was a significant inverse relationship between spiritual health, spiritual health from the perspective of Islam, and addiction readiness with the age of students. In a research conducted by Hsiao et al, it was shown that age and spiritual health have a positive relationship. The age factor has a significant effect on spiritual health, and as a person grows and matures, the ability to excel usually increases (43).

In this study, mental health, spiritual health from the perspective of Islam, and readiness for addiction have a significant relationship with the student's marital status. So, the average mental health among married students was significantly lower (better mental health) than single students. The results obtained in this research were similar to those obtained in the study of Ansari et al (44) that the symptoms of mental disorders in single people were significantly more than in married people. In the results of López-Bárcena and colleagues' study (45), it is mentioned that the mental health of married students is higher than that of single students. In addition, according to the results of Asadi and colleagues' study (37) and Imani and colleagues' study (46), no significant relationship was found between marital status and the prevalence of mental disorders. Despite the different results obtained in many studies, the difference in the results can be attributed to the difference in the statistical population, in terms of socio-cultural differences and the difference in the role of the family in the individual's mental health in different studies.

Based on the findings of the upcoming study, mental health, spiritual health, and spiritual health from the perspective of Islam have a significant relationship with the student's educational level, so the average mental health among Ph.D. students was significantly lower (better mental health) than that of Master's and dental students. In addition, the average spiritual health and spiritual health from the perspective of Islam among Ph.D. students is significantly lower than that of associate, master, and medical students. In a study conducted by Bahamin et al (47) in 2018 to develop a model for predicting mental health and the tendency to use drugs concerning the mediating role of spirituality, they stated that people's education and level of education have nothing to do with their spiritual health and drug addiction. The difference in the findings of different studies can be the difference in the statistical population and many confounding factors in evaluating the results.

According to the findings of this study, mental health, spiritual health, and spiritual health from the perspective of Islam have a significant relationship with addiction readiness. By decreasing the mental health score (improvement of mental health) in students, the level of readiness for addiction will decrease. Also, with the increase in the scores of the variables of spiritual health and spiritual health from the perspective of Islam in students, the degree of readiness for addiction decreases. In similar results, Nonnemaker et al (25) found that people's religiosity protects against alcohol, marijuana, and cocaine use. Also, in a study conducted by Amirafzali and Shirazi (48) in 2016, they stated that along with the usual methods of quitting spiritual health and religiosity training and self-efficacy training, especially in people prone to addiction, it can play a role in reducing addiction dependence. In a study conducted in Brazil (49) to determine the preventive role of religion in drug abuse among Brazilian students, The results showed that the consumption of drugs by those students who did not regularly attend religious ceremonies was significantly higher than the other group. This study showed that religiousness and regular attendance at religious ceremonies are strong protective factors against drug abuse. Merrill et al (50) showed in their research that factors such as frequency of church attendance, high level of religiosity of family members and parents, and frequency of family religious discussions have a supportive effect against drug use in adolescents and young people. The highest consumption of tobacco, marijuana, and other illegal substances was observed in people with less religious orientations. Family attendance in church and higher levels of parents' religiosity were also significantly related to less consumption of the mentioned substances (51). Also, in another study of 250 at-risk women conducted by Klein et al (52), the results showed that women with higher religiosity reported less use of illegal drugs.

One of the limitations of this study is the use of self-report questionnaires, which may need to be more honest for the participants to complete the questionnaires. The incomplete information in the questionnaires was one of the other limitations of this study, in which case, the participant would have been excluded from the study. Considering the importance of the living environment and the presence of the family in preventing drug addiction, it is recommended that in future studies, the effect of the residence factor and the nativeness of the students should also be considered in the studies. Conducting more studies with a larger sample size is recommended to achieve definitive results.

Conclusion

In summary, the findings of this study showed that factors such as mental health and spiritual health play a crucial role in predicting people's readiness for addiction, and it is necessary to pay attention to these factors in prevention programs, especially in universities, which are holding different programs for the prevention of addiction. Based on the results obtained, with the increase of spiritual health and spiritual health from the perspective of Islam in students, the level of readiness for addiction decreases. On the other hand, in addition to the importance of addiction for the whole society, the results of this study can be used by centers and organizations that are directly involved with the problem of addiction (such as education organizations, universities, police force, addiction...
We are thankful to all subjects who participated in this project.

Authors’ Contribution


Formal analysis: Mohammad-Javad Azadchehr, Abdollah Omidii, Amir Ghaderi.

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Writing—review & editing: Fariba Dehghanizade, Razieh Eghtesadi, Amir Ghaderi.

Competing Interests
The authors have no competing interests to declare.

Consent to Publication
Not applicable

Data Availability Statement
The datasets generated and/or analyzed during the current study are not publicly available because the funding body owns the intellectual property. They may be available from the corresponding author on reasonable request containing the approval from the associated funding body.

Ethical Approval
At the beginning of the questionnaire distribution session, the purpose of the study was explained to the participants, and they were assured about the anonymity and confidentiality of their responses. All participants gave their signed written informed consent letters. The study protocol was approved by the Ethics Committee of Kashan University of Medical Sciences “approval no. IR.KAUMS.MEDNTREC.1398.013”. All procedures performed in studies involving human participants were following the ethical standards of the institutional and national research committee and with the 1964 Helsinki Declaration and its later amendments.

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