Journal of Research in Medical and Dental Science 2018, Volume 6, Issue 3, Page No: 294-300

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eISSN No. 2347-2367: pISSN No. 2347-2545



An Investigation of the Relationship between Spiritual Health and Depression, Anxiety, and Stress among Students of Ilam University of Medical Sciences

Seyed Rahmatollah Mousavi moghadam¹, Mostafa Madmoli², Sasan Nikpay^{3*}

¹Associate Professor and the Head of the Islamic studies department of Ilam University of Medical Sciences, Ilam, Iran

²Emergency medical technician, Dezful University of Medical Sciences, Dezful, Iran ³BSc Student of Laboratory Sciences, Committee of Student Research, Ilam University of Medical Sciences, Ilam, Iran

DOI: 10.24896/jrmds.20186345

ABSTRACT

Due to daily occupational stress, students of medical sciences may experience some disorders in their spiritual, mental, and physical well-being. Therefore, this study was conducted to determine the relationship between spiritual health and depression, anxiety, and stress among the students of Ilam University of medical sciences in 1395. This is a descriptive-cross sectional study that was performed on 300 randomly selected students of Ilam University of medical sciences in 1395. In order to measure the level of spiritual health among the participants, Paloutzian-Ellison's 20-item standard questionnaire was utilized and DASS-21 questionnaire was used to measure variables depression, anxiety, and stress. Findings: In the present study, of 300 subjects under investigation, 194 subjects (64.6 percent) were female. The highest frequencies for depression, anxiety, severe stress, and extremely severe stress were observed among single subjects (12, 20, and 10.6 respectively). Pearson's correlation coefficient indicated that there is a statistically significant linear correlation between the mean score of spiritual health and the level of depression, anxiety, and stress in students (p=0.001). Conclusion: Results of this research showed a positive correlation between spiritual health and indices depression, anxiety, and stress among students of Ilam University of medical sciences. Accordingly, it can be said that acquiring skills in the domain of spiritual health for medical sciences students is as necessary as acquiring nursing and medical care skills

Key words: Spiritual Health, Depression, Anxiety, Stress, Students.

HOW TO CITE THIS ARTICLE: SeyedRahmatollah Mousavimoghadam, Mostafa Madmoli, Sasan Nikpay, An investigation of the relationship between spiritual health and depression, anxiety, and stress among students of Ilam University of medical sciences, J Res Med Dent Sci, 2018, 6(3): 294-300, DOI: 10.24896/jrmds.20186345

*Corresponding author: Sasan Nikpay e-mail⊠: sasan.nikpay1372@gmail.com

Received: 11/03/2018 Accepted: 25/04/2018

INTRODUCTION

In the definition given by World Health Organization (WHO), spiritual health is reckoned as one of the main dimensions of health. Spiritual health unites other health dimensions and includes religious and existential dimensions [1-3]. When spiritual health is endangered in a person, he/she may suffer from mental disorders such as loneliness, depression, and loss of

meaning in life [4]. When tension is experienced, positive feelings can calm down people; among these positive factors one can refer to spiritual health [5]. Students of medical sciences, due to mental and spiritual tensions of hospital environment, encountering patients' problems, or their daily occupational stress may confront many mental, spiritual, and physical disorders [6-7]. Furthermore, because of special conditions of studentship period like being far from family, entering larger stressful environments, economic issues, insufficient income, and heavy load of lessons, they are susceptible to losing mental health [8-9]. In previously conducted studies in

Iran, the prevalence of mental problems among students was reported to be 23-57 percent [10]. Spiritual health is the newest dimension of health which coordinates physical, mental, and social dimensions [11]. Spirituality and spiritual health can take on appearance in different ways like daily communication with others, specific spiritual interactions through love, respect, trust, honesty integration, righteousness, sacrifice. sympathy, relationship with a personal god who knows the person and protects him/her [12]. Spiritual health is one of the important subjects within different dimensions of health. At some historical stages, different aspects of spiritual health have been endangered [13]. When someone's spiritual health is seriously at risk, he/she may face mental and spiritual disorders such as feelings of loneliness, depression, and loss of meaning in life [14]. When spiritual health finds its place among people, perfect health would be attainable for them [15]. Numerous studies conducted on different groups in Iran and other countries in the world indicated a significant relationship between spiritual health and mental disorders; further, it has been concluded that religious beliefs and spirituality can be used to fight against stressful factors [16-26]. Mental disorders are the risk factors for many physical problems [49-51]. Susceptible as they are to such disorders due to their job and occupational pressure, students of medical sciences, as part of society, who are responsible for protecting and ensuring societies' health are expected to enjoy a high level of spiritual and mental health in order to be increasingly successful in their education and, consequently, in their profession [27]. For example, nursing students have an important role to play in society, given that they work as nurses in the future [48]. Therefore, this research study aimed at investigation the relationship between spiritual health and depression, anxiety, and stress among the students of Ilam University of medical sciences.

MATERIALS AND METHODS

This is a descriptive cross-sectional study undertaken in 1395 on 300 students of Ilam University of medical sciences. Random sampling method was utilized. A Sample size of 300 subjects was determined through the formula = (N.Z2.S2) /(N.d2+Z2.S2) with 95% confidence level and error coefficient of 0.05 %. In order for measuring the level of spiritual health in participants Ellison-Paloutzian Spiritual Well-Being Scale consisted of

20 items was utilized, 10 items of which measure religious health and the other half measuring individuals" existential health. Spiritual health score is the sum of these two subscales scores with a range of 20-120. Replies to these questions were arranged within the framework of a sixpoint Likert Scale including totally disagree, disagree, relatively disagree, relatively agree, agree, and totally agree. In items 3, 4, 7, 8, 10, 11, 14, 15, 17, 19, and 20, one point was given to option strongly disagree while in items 18, 16, 13, 12, 9, 6, 5, 2, and 1 it was given six point. Finally, according to spiritual health scores, participants were divided into three categories namely, 20-40 (low level), 41-99 (average level), and 100-120 (high level). Reliability and validity of this instrument have been previously measured and confirmed in studies conducted in Iranian populations. In a study by Mehri et al. Cronbach alpha coefficient for this instrument was calculated to be 0.87% [10] and 0.89 % in another study by Bagheri et al. [11]. DASS-21 Standard Questionnaire was employed to examine anxiety, stress, and depression. Each subscale (depression, anxiety, and stress) includes 7 items (the ultimate score for each is obtained by summing up the score of related items) (Table 1). Every item is scored from 0 (describes me not at all) to 3(describes me very well). Since DASS-21 scale is the shortened from of the original version (42 items), the final score of each subscale is doubled (Table 2). Reliability and validity of this scale were investigated and authenticated by Sabahi et al. in Iranian contexts.

Before data collection a short explanation about the study was given to participants to gain their consent, in case of agreement, questionnaires were given to participants with enough time to answer carefully. Finally data were entered into SPSS software, version 16 to be analyzed.

Table 1: subscales and their related items

| Subscales | Items | | |
|------------|--------------------|--|--|
| Anxiety | 20,19,15,9,7,4,2 | | |
| Stress | 18،14،12،11،8،6،1 | | |
| Depression | 21.17.16.13.10.5.3 | | |

Table 2: Severity of each subscale

| | Anxiety | Stress | Depression |
|------------------|---------|--------|------------|
| Normal | 0- 7 | 0-14 | 0-9 |
| low | 8- 9 | 15- 18 | 10- 13 |
| Average | 10- 14 | 19- 25 | 14- 20 |
| severe | 15- 19 | 26-33 | 21- 27 |
| Extremely severe | 20+ | 33+ | 28+ |

Table 3: Frequency distribution and percentage for depression, anxiety, and stress in students of Ilam University of medical sciences

| Level of subscales | Depression | | Anxiety | | Stress | |
|--------------------|------------|----------------|-----------|----------------|-----------|----------------|
| | Frequency | Percentage (%) | Frequency | Percentage (%) | Frequency | Percentage (%) |
| Normal | 164 | 54.7 | 132 | 44 | 172 | 57.3 |
| Low | 38 | 12.7 | 28 | 9.3 | 46 | 15.3 |
| Average | 62 | 20.7 | 80 | 26.7 | 48 | 16 |
| Severe | 26 | 8.7 | 26 | 8.7 | 30 | 10 |
| Extremely severe | 10 | 3.3 | 34 | 11.3 | 4 | 1.3 |
| Total | 300 | 100 | 300 | 100 | 300 | 100 |

RESULTS

The highest frequency (24.7%, 74 cases) belonged to age group of 22 years. 90/7% (274 cases) of participants understudy were single and the rest were married.

Mean score of religious dimension was 47.13 ± 10.4 ; mean score of existential dimension was 43.8 ± 9.8 ; and total mean score for spiritual health was 91.4 ± 17.6 . The level of spiritual health in 58% of subjects was at average.

Mean score of anxiety in the sample under investigation was $9.7\pm~8$; mean score of depression was $9.69\pm~8.4$; and stress mean score was $14\pm~9.5.~12\%$ of participants had severe and extremely severe depression. 20% had severe and extremely severe anxiety, and 11.3% of them had sever and extremely severe stress (Table 3).

Pearson's correlation coefficient indicated that there is a statistically significant linear correlation between the total score of spiritual health and the level of depression among students (p=0.001, r=-0.620) (Table 4).

Table 4: Relationship between spiritual health and its religious and existential dimensions and depression, anxiety, and stress in students of llam University of medical sciences

| Chl | Religious dimension | | Existential dimension | | Spiritual dimension | |
|------------|------------------------|--------|-----------------------|--------|------------------------|--------|
| Subscales | P-V | ALUE | P-VALUE | | P-VALUE | |
| | р | r | р | r | р | r |
| Depression | 0.001 | -0.283 | 0.001 | -0.633 | 0.001 | -0.602 |
| Anxiety | 0.001 | -0.290 | 0.001 | -0.385 | 0.001 | -0.376 |
| Stress | 0.001 | -0.329 | 0.008 | -0.125 | 0.001 | -0.297 |

According to the findings of this study a statistically significant linear correlation was obtained between the total spiritual health score and the level of anxiety among the students of Ilam University of medical sciences (p=0.001, r=-0.376). In addition, a significant relationship between the level of stress and total mean score of

spiritual health was observed; that is, students who enjoyed high levels of spiritual health had a significantly lower level of stress (p=0.001, r=-0.297) (Table 4).

Highest frequencies for depression, severe and extremely severe anxiety and stress (12%, 20%, and 10.6% respectively) were seen among single participants.

DISCUSSION

One of the most prevalent incapacitating problems of the youth and adolescents, that is widely developing, is depression which among other mental disorders is referred to as a common cold of mental illness [28]. Lack of religion would lead to such negative behavioral and mental outcomes which in turn would cause depression [29]. The peak for depression is seen during 20-50 years of age which includes the period of studentship (30). The present study set out to investigate the relationship between spiritual health and depression, anxiety, and stress among the students of medical sciences. Results indicated that there a significant linear correlation between the overall mean score of spiritual health and the levels of depression, anxiety, and stress among the students Ilam University of medical sciences. Bayani et al. in their study concluded that there is a negatively significant correlation between students' religious orientations and their depression and anxiety; that is, the mean scores for depression and anxiety among those students who had low religious orientations were significantly higher than that of the students who had average and high religious orientations. Furthermore, mean scores of depression and anxiety in students with average religious orientations were significantly higher than those of the students with high religious orientation, findings that are supportive of this study's findings [31]. In addition, in the current study, there was a significant correlation between

depression and religious and existential dimensions of spiritual health. However, in a study by GhareBughloo et al., there was found no significant correlation between depression and spiritual health and no significant correlation between depression and religious and existential dimensions of spiritual health as well, these findings don't support the findings of the present study [32]. This inconsistency of results may be due to differences in questionnaires and instruments for measuring depression and, also, differences in sample size; it should also be noted that samples in GhareBughloo's study were selected from two different cities. In the current study there was a significant correlation between spiritual health and depression and anxiety. This finding supports the findings of KhademVatani et al., They found a significant relationship between spirituality level and the levels of depression and anxiety in the patients hospitalized in cardiology ware. This means that subjects with higher levels of spirituality enjoyed a better condition with respect to depression and anxiety levels [33]. Still in another study by Bonab et al., a significant correlation between spirituality and depression and anxiety was reported which is again in line with the findings obtained herein; moreover, they introduced spirituality as an index for predicting depression and anxiety.

Similarly, EyvanBagh *et al.*, in their study found a negatively significant relationship between overall score of depression and spiritual health, which supports the present study. However, a significant linear correlation between spiritual health and anxiety was reported; that is, as spiritual health increases anxiety would also increase [35], this is in contrast to the present study. Such differing results can be attributed to differences in statistical population; in addition, as mentioned in this study test anxiety as a destructive factor should be considered [36].

Jan Bozorgi, in a similar study, concluded that there is a significant correlation between general health and religious orientations; in a way that the more individuals' religious orientation become external, the lower their general health would be. In addition, as religious orientations get more external, the level of depression and individuals' tendency towards suicide would also increase. In other words, there is a significant correlation between external religious orientations and the occurrence of depression [37].

Another study by Khezri et al. indicated that there is a significant correlation between existential dimension of spiritual health and participants' depression; this is in agreement with the presents study. In addition there were negatively significant correlations between overall mean score of spiritual health and death anxiety and between death anxiety and religious and existential dimensions. However, between spiritual health, its religious dimension and depression there was found no significant correlation (38), which may be due to selecting different sample sizes and different tools for measuring depression. This finding doesn't agree with the present study.

Results of a study by Momeni Ghale Ghasemi *et al.*, showed negatively significant correlations between the total mean score of spiritual health and anxiety, mean score of existential dimension and anxiety, and the mean score of religious dimension and anxiety [39], all supporting the results of the present study.

In the present study spiritual health of the majority of students was at average level, a finding which is in line with the results of Khezri *et al.* [26], Dehbash et al., [40], Moghimian *et al.*, [41], and Kaviri *et al.*, [42]. However, it doesn't support the studies of Rezaei *et al.*, [43] and Hojati *et al.*, [44] in which most of cancer patients had a high level of spiritual health. One possible reason for such inconsistencies may be differences in the target population and sample size.

In the present study the mean score for religious dimension of spiritual health was higher than that of existential dimension supporting the findings of Khezri et al., [38], Mousa Rezaei et al., [45]. However, Hojati et al. in their study revealed that the mean score for existential dimension in hemodialysis patients was higher than religious dimension's mean score. Moreover, results of Moghimian i., investigations [41] on patients' spiritual health indicated that mean score for existential health of cancer patients was higher than their score on religious health. Results of these two studies don't agree with current study, which may be attributed to the dominance of religious culture in Iranian societies and the fact that people would resort to religion in crises.

In this study, 45.3% of subjects experienced some degrees of depression, which is close to the Ranaei's *et al.*, report on depression level among

students (37.5%). However, in some other studies it is quite higher; for instance, MolaBagheri *et al.*, [47] obtained 74.5% for depression. Differences in the level of depression in these studies and the current study can be due to socioeconomic problems, deprivation of cities under study, or differences in sample size and instruments measuring depression.

CONCLUSION

Results of the current study show a positive correlation between spiritual health and depression, anxiety, and stress in students of Ilam University of medical sciences. It seems that high spiritual health is an important protective factor against depression, anxiety, and stress among these students. Hence, reinforcement and internalization of religious values can increase the level of mental health. Further it has implications for universities' councils and programmers to emphasize the effect of religious beliefs on students' mental health and utilize religion as a guiding element effectively when giving counsel to students having depression.

Acknowledgements

The authors would like to express their gratitude to professors, students, and personnel of Ilam University of medical sciences who sincerely cooperated with researchers. Further, this study is derived from a research designauthorized by committee of student research of Ilam University of Medical sciences with code 910648 and ethical code 57054399.

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