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Abstract

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Students' mental health status and its related factors in Sanandaj City Universities, Iran, 2016

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Original Article

BACKGROUND: Mental health is considered as one of the most important factors in the promotion and development of people. This is very important, especially in students. This study aimed to determine the students' mental health status in Sanandaj City universities, Iran, during the year 2016.

METHODS: In this cross-sectional study, the samples were 1100 students in Kurdistan University, Islamic Azad University of Sanandaj, and Kurdistan University of Medical Sciences. The samples were selected using stratified random sampling method with proportional allocation. The data were collected using General Health Questionnaire (GHQ) including 28 questions to assess mental health status.

RESULTS: The average score of mental health among the students was 32.10 ± 12.00 . The highest and the lowest frequency of mental disorders were related to aspects of social functioning (11.24 ± 3.62) and depression (5.53 ± 5.24), respectively. The students of Kurdistan University of Medical Sciences had better mental health than the other students in all aspects of mental health. There was a significant relationship between mental health with gender (P = 0.060), and marital status (P = 0.010).

CONCLUSION: The findings of the study showed that parents, educational environment, economic situation of families, and students' current home have important role in their mental health. **KEYWORDS:** Mental Health, Universities, Students, Major Depressive Disorder

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Introduction

One of the important factors affecting youth, which creates major changes in their social, family, and personal life, is entry to university. Students' life is a very important and critical part of their life. In this period of time, one of the most important components of public health, which is mental health issue, must be given special attention.¹⁻³ Mental health is considered as one of the most important

Corresponding Author: Ahmad Vahabi Email: vahabiahmad@gmail.com factors in development of human beings. This is especially important for students. Although students are considered to be the preferred community, various studies indicated that students are also suffering from a variety of emotional disorders.^{4,5} These disorders begin with mild anxiety, and end in various disorders of psychosomatic, neurotic, and even psychotic.⁶ Based on World Health Organization (WHO) report, more than 450 million people around the world live with a kind of mental disorders.7 More than 15% of all recognized diseases around the world are mental health disorders.8

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Mental health is one of the most important components of public health that provides a balance in life, and resistance against the problems for people. Psychosocial problems impose a significant pressure on individuals; as predicted, in 2020 depression has the highest cost for community health systems after heart diseases.1,9 Failure of having mental health impairs development of individual, and causes some problems for his/her ability to perform his/her duties, which leads to a lack of community development and consequences of it.10 It is important to pay attention to the mental health of students, because they are considered as the main and important pillars of universities. One of the important components of creating mental health among students is their attitude and satisfaction with the field of study, which itself is also considered as a strong and important stimulus to motivate them, which improves the quality of education and academic achievement.11

The conducted researches in Iran revealed that university students have different mental and emotional disorders. In creating these problems, factors such as lack of social support, students' unfamiliarity with the university environment at the time of their entry to university, separation and distance from the family, lack of interest in the field of study, incompatibility with the dormitory environment and his/her roommates, lack of amenities, and economics can play a role.12-15 Gallagher¹⁶ and Mackean¹⁷ conducted that university students had increased mental health problems such as depression, suicidal thoughts, psychosis, anxiety, addictions, risk for suicide, use of psychiatric medications, and other chronic psychiatric disorders compared to general population. In the study of Movlazadeh et al., 69.7% of the students had mental health problems, and there was a significant and inverse relationship between

the mean score of the previous semester with depression and social function.¹⁸ In another study, Anbari et al. concluded that the students were not in good health status, and had a mild impairment.¹⁰

This study was designed to determine mental health status among the students in Kurdistan University, Islamic Azad University, and Kurdistan University of Medical Sciences, in Sanandaj City, Iran, in year 2016.

Materials and Methods

The present research was a cross-sectional study. Study population consisted of students in Kurdistan University, Islamic Azad University of Sanandaj, and Kurdistan University of Medical Sciences. The study population in 3 surveyed universities was about 12000 students. Based on cluster random sampling method, 1100 cases of them were selected. Among 3000, 4500, and 5500 students in Kurdistan University of Medical Sciences, Kurdistan University, and Islamic Azad University, 250, 400, and 450 cases, were selected and surveyed, respectively. Each university was considered as a cluster; in each university, several colleges, and in each college, several classes were randomly selected and finally, students of those selected classes were surveyed. Inclusion criteria included being student in Universities of Kurdistan, Medical Sciences, and Islamic Azad, willing to participate in the study, and having spent at least two semesters. Not having of any inclusion criteria was considered as exclusion criterion.

To examine the mental health status of the surveyed students, the Goldberg's General Health Questionnaire was used. The questionnaire has 28 questions, known as the GHQ28, and was made by Goldberg in 1972 to examine the general health status of individuals.¹⁹ The Persian version of this questionnaire has been used in several studies, and its validity and reliability have been verified from 0.79 to 0.85.^{10,20,21} In this study,

the Persian version of the questionnaire was used. The questionnaire contains 28 questions in 4 dimensions including physical symptoms, anxiety and sleep disorders, social function disorders, and depression. Each of the fields has 7 questions.

The scale of the questionnaire has 4 points; 0 (no), 1 (a little), 2 (much), and 3 (very much). Therefore, the score for each domain is 0 to 21 and the total score of the questionnaire will vary from 0 to 84 for each person. Scores from 0-22 are considered as the lack of mental disorders, 23-40 indicate a mild mental disorder, 41-60 indicate a moderate mental disorder, and scores from 61 to 84 are considered to be severe mental disorders. The remarkable point in this questionnaire is that achieving a high score on a scale indicates more symptoms of mental health disorders, in other words lower general health. Getting lower score in this research, represents the least symptoms of mental health disorders, and indicates more and higher general health.

For data collection from the studied individuals, the researchers went to the selected classes. Before the study, explanations were given to the students about the importance of the study. We requested the samples to complete the questionnaires carefully. Participation in the study was optional for the students, and they were not forced to do this. They did not need to write their names and other identifiable specifications.

The collected data were entered into the computer. To describe the collected data, descriptive statistics including frequency, mean, and standard deviation (SD) were used. Mann-Whitney and Kruskal-Wallis statistical tests were used to analyze the collected data, and the relationship between mental health and demographic characteristics. In all statistical tests, P < 0.05 was considered significant.

Results

1034 cases (94%) completed and returned the

Their questionnaires. mean age was 22.27 ± 3.40 years with the minimum and maximum of 18 and 45 years, respectively. The mean score of mental health among the respondents was 32.10 ± 12.00. These scores were 32.45 ± 10.82, 27.22 ± 12.86, and 34.55 ± 11.66 in the students of Kurdistan University, Kurdistan University of Medical Sciences, and Islamic Azad University of Sanandaj, respectively. Of the total number of studied students, 261 (25.2%) had no mental disorders, and 773 (74.8%) had mental disorders. Among the students in Kurdistan University of Medical Sciences, 126 (51.2%) had psychiatric disorders, and 120 (48.8%) had suitable mental health, and had no mental disorders. In Kurdistan University, 278 students (79.9%) had mental disorders, and 70 (20.1%) of them had no mental disorders. 369 students (83.9%) in Islamic Azad University had psychiatric disorders, and 71 (16.1%) had no mental disorders.

Of the total students, 240 (23.2%) had no mental disorders, and 534 (51.6%), 248 (24%), and 12 (1.2%) of them had mild, moderate, and severe mental disorders. The amounts were 114 (46.3%), 92 (37.4%), 37 (15%), and 3 (1.2%) students in Kurdistan University of Medical Sciences, 64 (18.4%), 190 (54.6%), 92 (26.4%), and 2 (0.6%) students in Kurdistan University, and 62 (14.1%), 252 (57.3%), 119 (27%), and 7 (1.6%) students in Islamic Azad University, respectively.

Of the studied students, 32.1% were boys, and 83% were single (Table 1). Moreover, 80.4% were in bachelor, 17.2% in Masters and higher degrees, and the others were assistant.

There was a significant difference in mental health, based on the marital status; as it was better among single students (1.13 ± 0.43) compared to married students (2.21 ± 0.40) (P = 0.01).

Most of the studied subjects had a father with university education and a mother with high school education (Table 1).

Variable		n (%)	Mean ± SD	Т	Р		
Gender	Boy	332 (32.1)	1.11 ± 0.42	-1.87	0.060		
	Girl	702 (67.9)	1.16 ± 0.43				
Marital status	Single	858 (83.0)	1.13 ± 0.43	-2.44	0.010		
	Married	176 (17.0)	1.22 ± 0.40				
Variable		n (%)	Mean ± SD	F	Р		
Degree	Assistant	25 (2.4)	1.00 ± 0.45	7.44	0.001		
	Bachelor	831 (80.4)	1.17 ± 0.41				
	Masters and higher	178 (17.2)	1.35 ± 0.47				
Father's education	Illiterate	79 (7.6)	1.10 ± 0.39	2.16	0.070		
	Elementary	172 (16.7)	1.16 ± 0.48				
	Guidance	164 (15.9)	1.22 ± 0.39				
	High school	232 (22.4)	1.15 ± 0.40				
	Academic	387 (37.4)	1.12 ± 0.44				
Mother's education	Illiterate	168 (16.2)	1.10 ± 0.48	1.88	0.110		
	Elementary	214 (20.7)	1.12 ± 0.45				
	Guidance	197 (19.1)	1.21 ± 0.35				
	High school	239 (23.1)	1.15 ± 0.43				
	Academic	216 (20.9)	1.14 ± 0.42				
Current home	With family	494 (47.8)	1.19 ± 0.42	5.09	0.006		
	Single house	95 (9.2)	1.15 ± 0.38				
	student dormitory	445 (43.0)	1.10 ± 0.44				
University	Medical Sciences	246 (23.8)	0.97 ± 0.46	31.33	< 0.001		
	Kurdistan	348 (33.6)	1.16 ± 0.39				
	Islamic Azad	440 (42.6)	1.23 ± 0.41				
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Table 1. Frequency, percentage, and mean scores of mental health among the studied students and	
their relationship with different variables in year 2016	

SD: Standard deviation

There was a significant difference between students' educational level and their mental health (P = 0.001). Associate students had higher mental health than the others.

There was a significant difference between the current home and mental health status (P = 0.006). Students residing in the student dormitories had better mental health than the others.

There was a significant difference between the university and students' mental health (P < 0.001). The students from Kurdistan University of Medical Sciences had better mental health status than the others; and the students of Kurdistan University had better mental health status than the students from Islamic Azad University.

The results of the study revealed that, there was no significant differences in mental health based on parents' literacy (P > 0.050).

Based on degree of the students, social functional disorder had the highest and depression had the lowest score between the studied students, respectively (Table 2).

Except in the case of depression, there was a significant difference between the other dimensions of mental health and degree.

Table 2. Mean and standard deviation of the scores in different dimensions of mental health among the
students according to their degree in year 2016

students according to their degree in year 2010							
Assistant	Bachelor	Masters and higher	κ ²	Р			
0.91 ± 0.64	1.13 ± 0.56	1.02 ± 0.67	9.92	0.007			
0.91 ± 0.73	1.11 ± 0.64	0.95 ± 0.68	10.63	0.005			
1.52 ± 0.47	1.63 ± 0.51	1.51 ± 0.54	8.55	0.010			
0.64 ± 0.70	0.81 ± 0.76	0.72 ± 0.70	2.70	0.260			
	$\begin{array}{c} {\rm Assistant} \\ 0.91 \pm 0.64 \\ 0.91 \pm 0.73 \\ 1.52 \pm 0.47 \end{array}$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	AssistantBachelorMasters and higher \varkappa^2 0.91 ± 0.64 1.13 ± 0.56 1.02 ± 0.67 9.92 0.91 ± 0.73 1.11 ± 0.64 0.95 ± 0.68 10.63 1.52 ± 0.47 1.63 ± 0.51 1.51 ± 0.54 8.55			

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Та	Table 3: Mean and standard deviation of the scores in different dimensions of mental health among the							
	students according to their university in year 2016							
-							2	

Examined dimensions	Medical Sciences	Kurdistan	Islamic Azad	\varkappa^2	Р
Physical signs	0.91 ± 0.62	1.12 ± 0.52	1.22 ± 0.57	47.01	< 0.001
Anxiety and sleep disorders	0.88 ± 0.67	1.08 ± 0.62	1.19 ± 0.65	36.25	< 0.001
Social Functional Disorder	1.53 ± 0.49	1.64 ± 0.48	1.62 ± 0.56	6.24	0.040
Depression	0.57 ± 0.66	0.79 ± 0.71	0.91 ± 0.79	34.87	< 0.001

Bachelor students were more disturbed than other students in terms of anxiety and sleep disorders compared with other students and other aspects of mental health.

Based on the university, students from Islamic Azad University of Sanandaj had a worse mental health status than other universities; and students from Kurdistan University of Medical Sciences had a better mental health status than the others (Table 3).

There was a significant difference between all dimensions of mental health and university of education. The median score of the physical aspect among the students in Islamic Azad University was higher than other students, meaning that in this aspect of mental health, students of Islamic Azad University had a higher degree of disorder than other students and other aspects of mental health.

Discussion

This research, which studies mental health status and its related factors among the students of Kurdistan University of Medical Sciences, Kurdistan University, and Islamic Azad University of Sanandaj, indicates that the mental health status among the studied students was not very favorable, and about 75% of them had mental disorders. Although about 52% of the students in Kurdish University of Medical Sciences had some kinds of psychiatric disorders, compared to the students from Kurdistan and Islamic Azad universities, they were in a better position. Among three studied universities, Islamic Azad University of Sanandaj was ranked as the worst, and then was the Kurdistan University.

In a study by Dadkhah et al., the rate of

mental disorders among the studied students was 28%,¹⁴ that is not consistent with the findings of the present study. One of the reasons for the differences between these studies can be due to the studied population in two researches. Another difference may be to the interval between the two studies. For the time being, student problems, employment, marriage, etc. have increased, and studied students in this research have fewer mental health and more mental disorders than the students who have been studied in previous years. Another reason for this difference is the variety of disciplines studied in this research, which included various disciplines in the medical field, humanities, and engineering departments, while Dadkhah et al.¹⁴ studied medical students only. In some researches from Iran, rate of mental disorders were various.6,10,14,15,22-27

For example, in a study by Namdar Areshtanab et al., the average of mental health score of the students was 25.71 ± 11.02. The highest and lowest mean score in their study were related to the dimensions of social function and depression, respectively.²⁴ The findings of our study showed that the average score of mental health of the studied students was 32.10 ± 12.00 . In the present study, Kurdistan University of Medical Sciences students' had a mean score of 27.22 ± 12.87 that is consistent with the mean score of the findings in the study of Namdar Areshtanab et al.²⁴ The highest and lowest mean score of this study was related to the dimensions of social function and depression, which is consistent with Namdar Areshtanab et al.²⁴ findings.

A study in Sabzevar universities, Iran,

showed that 39.0% of the surveyed students were suspected to mental or physical disorders. Among them, 32.3% had physical impairment, 35.9% had anxiety disorder, 57.8% had social functional disorder, and 23.7% had depression.²³ The results of the present study conducted that social functional disorders had the highest score among 4 components of mental health, and depression had the lowest score. In our research, more than half of the samples had mental health disorders. This finding is similar to the results of Parvizrad et al.³, Behrouzian and Neamatpour,²⁸ Ahmadi,²⁹ and Zeighami and Pour Bahaadini Zarandi.³⁰

The results of this study showed that there was no statistically significant relationship between gender and mental health. This finding is similar to the results of Namdar Areshtanab et al. in Tabriz University of Medical Sciences,²⁴ Zare et al. in Shiraz University of Medical Sciences,31 and also Parvizrad et al.,3 Tavakolizadeh and Khodadadi,²² and Adham et al.³² in other cities of Iran; but this finding is not consistent with the results of the study by Mehri and Sedighy Some-Koochak;²³ because in their study, there was a significant difference between the level of anxiety and gender, and men were more anxious than women.

In this study, it was found that single students had better mental health than married students, and there was a significant difference between them. This finding is consistent with Parvizrad et al.³ and Farahbakhsh et al.;³³ but in a study by Mohammadzadeh et al.,²⁵ there was no significant difference between marital status and mental health.

There was a significant difference between students' educational level and mental health status. Associate students had better mental health than the others. This finding is not similar to the findings of the studies in Tabriz,²⁴ Ilam,²⁵ and and Mazendaran University of Medical Sciences³ in Iran.

There was a significant difference between

the current location and mental health status of the students. Students residing in student dormitories had better mental health than the others. In a study conducted in Ilam University, students who lived with their parents had a better mental health status compared to the students who lived in student dormitories and single residences.²⁵

The results of statistical analysis showed that except for disorders in social function, there was a significant difference between all dimensions of mental health and field of study. There was a significant difference between students' age and all aspects of mental health. In a study by Yousefi et al.,²⁰ 41% of the surveyed students had mental disorders; but in a study by Anbari et al.,¹⁰ the rate of mental disorders was mild.

Conclusion

The findings of the present study revealed that mental health status was bad among the respondents, and more than half of the respondents had mental health disorders. The findings of this study show the important role parents, educational environment, of household economics, and the current residence of the students, and students with educational and welfare facilities have higher levels of mental health. It is obvious that students surveyed in Kurdistan University of Medical Sciences, which has a better mental health status, and lack of proper educational facilities would cause more mental disorders. Providing more facilities for university especially students, and suitable accommodation facilities, can help them to improve their academic status.

Conflict of Interests

Authors have no conflict of interests.

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References

- Sadeghi H, Abedini Z, Norouzi M. Assessment of relationship between mental health and educational success in the students of Qom University of Medical Sciences. Qom Univ Med Sci J 2013; 7(S1): 17-22. [In Persian].
- Abdi masooleh F, Kaviani H, Khaghanizade M, Momeni Araghi A. The relationship between burnout and mental health among nurses. Tehran Univ Med J 2007; 65(6): 65-75. [In Persian].
- Parvizrad P, Yazdani Charati J, Sadeghi M R, Mohammadi A, Hosseini H. Relationship between mental health, demographic variables and academic achievement of medical sciences students. J Mazandaran Univ Med Sci 2014; 23(109): 241-6. [In Persian].
- 4. Hemchand L. Psychological problems of students and the role of counseling [PhD Thesis]. Bengaluru, India: Bangalore University; 1983. p. 231.
- Cho YB. Suicidal ideation, acculturative stress and perceived social support among Korean adolescents. Diss Abstr Int 2003; 63(8-B): 3907.
- Farahbakhsh S, Gholamrezaei S, Nikpay E. Relationship between mental health and some background variables in Lorestan University Students. Yafteh 2006; 7(4): 79-86. [In Persian].
- World Health Organization. Mental health: Strengthening our response [Online]. [cited 2018]; Available from: URL: http://www.who.int/newsroom/fact-sheets/detail/mental-health-strengtheningour-response
- Sakellari E, Leino-Kilpi H, Kalokerinou-Anagnostopoulou A. Educational interventions in secondary education aiming to affect pupils' attitudes towards mental illness: A review of the literature. J Psychiatr Ment Health Nurs 2011; 18(2): 166-76.
- Hasan Tehrani T, Karami Kabir N, Sheraghi F. The relationship between emotional intelligence, mental health and academic achievement in Neyshabour nursing students. Sci J Hamadan Nurs Midwifery Fac 2012; 20(3): 35-45.
- 10. Anbari Z, Jamilian H, Rafiee M, Qomi M, Moslemi Z. The relationship between students' satisfaction

with major, mental health and academic achievement in Arak University of Medical Sciences. Iran J Med Educ 2013; 13(6): 489-97. [In Persian].

- 11. Mosalanezhad L, Amini M. A study of relationship between education and mental health in first- year and near graduation of Jahrom medical school students in first-year medical school students. J Fundam Ment Health 2004; 6(21-22): 71-6. [In Persian].
- Sadeghian E, Heidarian Pour A. Stressors and mental health status among students of Hamadan University of Medical Sciences. Hayat 2009; 15(1): 71-80. [In Persian].
- Hosanei SH, Mosavy MH. The comparative study of health status of medical students and para-medical students trainee. J Gorgan Univ Med Sci 2004; 6(1-2): 101-7. [In Persian].
- 14. Dadkhah B, Mohammadi M, Mozaffari N. Mental health status of the students in Ardabil University of Medical Sciences, 2004. J Ardabil Univ Med Sci 2004; 6(1): 31-6. [In Persian].
- 15. Ghamari F, Mohammad Beygi AA, Mohammad Salehi N. The association between mental health and demographic factors with educational success in the students of arak universities. J Babol Univ Med Sci 2010; 12(Supplement 1): 118-24.
- Gallagher RP. National survey of counseling center directors 2008 [Project]. Pittsburgh, PA: The International Association of Counseling Services, Inc.; 2008.
- 17. MacKean G. Mental health and well-being in postsecondary education settings: A literature and environmental scan to support planning and action in Canada [Online]. [cited 2011]; Available from: URL: http://citeseerx.ist.psu.edu/viewdoc/download?doi=1 0.1.1.737.6978&rep=rep1&type=pdf
- 18. Movlazadeh AR, Hamaieli Mehrabani H, Gholami MS, Mortazavi AR, Dovlatkhah HR, Ghodsi R. Relationship of general health and improvement motivation with educational success among the students of Fasa University of Medical Sciences in 2013. J Neyshabur Univ Med Sci 2014; 2(4): 54-61. [In Persian].
- 19. Goldberg DP. The detection of psychiatric illness by questionnaire: A technique for the identification and assessment of non-psychotic psychiatric illness. Oxford, UK: Oxford University Press; 1972.
- Yousefi N, Jadidi H, Shirbegi N. An Investigation mental health in students among as predictive of academic performance. J Med Educ Dev 2013; 5(9): 63-73. [In Persian].
- 21. Arasteh M, Hadinia B, Sedaghat A, Charejo N. Assessment of mental health status and its related factors among medical and non-medical staff in the hospitals of Sanandaj city in 2006. Sci J Kurdistan Univ Med Sci 2008; 13(3): 35-44. [In Persian].

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- 22. Tavakolizadeh J, Khodadadi Z. Assessment of mental health among freshmen entering the first semester in Gonabad University of Medical Sciences in 2009-2010. Horizon Med Sci 2010; 16(2): 45-51. [In Persian].
- 23. Mehri A, Sedighy Some-Koochak Z. Assessment of mental health status and some related factors among students of Sabzevar Universities in 2010. Med Sci J Islamic Azad Univ Tehran Med Branch 2012; 21(4): 293-304. [In Persian].
- 24. Namdar Areshtanab H, Ebrahimi H, Sahebihagh M, Arshadi Bostanabad M. Mental health and its relationship with academic achievement in students of Tabriz Nursing-Midwifery Faculty. Iran J Med Educ 2013; 13(2): 146-52.
- 25. Mohammadzadeh J, Kosravi A, Akbary M. Mental health and its determinants among students of Ilam University, Iran. J Health Syst Res 2012; 8(5): 799-805. [In Persian].
- 26. Nabavi SJ. Surveying mental health status of new students of medical branch, Islamic Azad University using MMPI inventory in 2006-2007 educational year. Med Sci J Islamic Azad Univ Tehran Med Branch 2012; 21(4): 292-7. [In Persian].
- Abdollahi MH, Shahgholian M, Baheshmat S. The role of fatigue and depression in illness perception of patients with multiple sclerosis. Chron Dis J 2016; 4(2): 39-47.
- 28. Behrouzian F, Neamatpour S. Stressors coping

strategies and their relation with general health of first year students of Ahwaz University of Medical Sciences in 2005. Jundishapur Sci Med J 2007; 6(3): 284-8. [In Persian].

- 29. Ahmadi Z. Surveying mental health status of nursing and non-nursing students of Shahroud Islamic Azad University. Med Sci J Islamic Azad Univ Tehran Med Branch 2007; 17(2): 107-11. [In Persian].
- 30. Zeighami M, Pour Bahaadini Zarandi N. The relationship between academic achievement and students' general health and coping styles: A study on nursing, midwifery and health students of Islamic Azad University - Kerman Branch. Strides Dev Med Educ 2011; 8(1): 41-8. [In Persian].
- 31.Zare N, Daneshpajooh F, Amini M, Razeghi M, Fallahzadeh MH. The relationship between selfesteem, general health and academic achievement in students of Shiraz University of Medical Sciences. Iran J Med Educ 2007; 7(1): 59-67. [In Persian].
- 32. Adham D, Salem Safi P, Amiri M, Dadkhah B, Mohammadi M, Mozaffari N, et al. The survey of mental health status in Ardabil University of Medical Sciences students in 2007-2008. J Ardabil Univ Med Sci 2008; 8(3): 229-34. [In Persian].
- 33. Farahbakhsh S, Gholamrezaei S, Nikpay E. Mental health survey of students' academic. J Fundam Ment Health 2007; 8(33-34): 61-6. [In Persian].