

## Original Article

# Study on the Relationship of Happiness, Ethical Climate, and Perceived Stress with Self-esteem of Nursing and Paramedical Students of Jahrom University of Medical Sciences in 2018

Zohreh Badiyepeymaiejahromi <sup>1</sup> , Zahra Shadfard <sup>2</sup> , Mohammadali Motaseri <sup>3</sup>, Faride Maarefi <sup>4</sup>, Neda Pournoroz <sup>5</sup>, Mahboobeh Taghizadeganzadeh <sup>\*2</sup>

<sup>1</sup> Faculty of Nursing, Jahrom University of Medical Sciences Jahrom, Iran.

<sup>2</sup> Faculty of Operating Room Department, School of Nursing and Paramedical Sciences, Jahrom University of Medical Sciences, Jahrom, Iran.

<sup>3</sup> Faculty of Nursing Department, School of Nursing and Paramedical Sciences, Jahrom University of Medical Sciences, Jahrom, Iran.

<sup>4</sup> Faculty of Nursing Department, Jahrom Islamic Azad University, Jahrom, Iran.

<sup>5</sup> Instructor of Nursing Department, School of Nursing and Paramedical Sciences Jahrom University of Medical Sciences, Jahrom, Iran.

## Article Info



### Article history:

Received 11 Jun 2020

Accepted 24 Apr 2021

Published 14 Jun 2021

### Keywords:

Self-esteem

Perceived Stress

Happiness

Ethical Climate

### \*Corresponding author:

Mahboobeh Taghizadeganzadeh,  
Faculty of Operating Room  
Department, School of Nursing  
and Paramedical Sciences, Jahrom  
University of Medical Sciences,  
Jahrom, Iran.

Email: m.taghizadeagn@jums.ac.ir

## Abstract

**Background & Objective:** Medical students should have adequate self-esteem to deal with stressful situations and have proper compatibility. Since self-esteem is affected by internal and external factors, the present study aimed to investigate the relationship between students' self-esteem with variables of happiness, ethical climate, and perceived stress at Jahrom University of Medical Sciences.

**Materials & Methods:** This correlational study was performed in the second semester of 2018-2019 and 316 students were selected by consensus sampling method. Data were collected using the Rosenberg Self-Esteem Scale, Oxford Happiness Questionnaire, Olson's Hospital Ethical Climate Survey, and Cohen's Perceived Stress Scale. Data analysis was performed in SPSS version 16 using descriptive and analytical statistics.

**Results:** In this study, the mean and standard deviation of self-esteem, happiness, ethical climate, and perceived stress were calculated at  $4.06 \pm 4.45$ ,  $41.87 \pm 12.39$ ,  $91.28 \pm 13.81$ , and  $26.39 \pm 6.33$ , respectively. A significant correlation between happiness ( $r=0.431$ ,  $P<0.001$ ) and perceived stress ( $r=-0.427$ ,  $P<0.001$ ) with the self-esteem of students was found. On the other hand, there was no significant relationship between ethical climates with the self-esteem of students. According to the multiple linear regression analysis results, happiness and perceived stress of students predicted 26% of the self-esteem variance.

**Conclusion:** Due to the relationship between students' self-esteem and the variables of happiness and perceived stress, it is recommended that programs be developed to increase happiness and decrease stress in students, so that their self-esteem could be improved.



Copyright © 2021, This is an original open-access article distributed under the terms of the Creative Commons Attribution-noncommercial 4.0 International License which permit copy and redistribution of the material just in noncommercial usages with proper citation

## Introduction

Medical students deal with stress in the hospital environment and patients' problems, which are among the specific problems of medical students, in addition to having common problems with non-medical students. Therefore, they are at risk of psychological health deterioration (1). In this regard, self-esteem has been recently identified as a basic component of psychological health (2). In general, self-esteem is an inner attitude at the root of the construction of the personality and psychic balance and demonstrates a person's ability to generate

compatibility and value (3). Moreover, self-esteem is one of the most important operators regarding personality, behavior, motivation, and personal development (1). However, despite the undeniable impact of this concept on mental health, most studies have reported unfavorable self-esteem levels in students. For instance, In the study conducted by Azizi et al. in one of the universities of medical sciences in Tehran 56.5% of nursing students had low self-esteem (4). Megahed et al. also reported a low self-esteem level in nursing students of Saudi Arabia (5). Some studies have found moderate or good self-esteem

levels in students during the study. According to the results obtained by Ibrahim, most nursing students had moderate self-esteem (6). In another study, 91% of all nursing and midwifery students had high self-esteem (7).

Self-esteem is affected by internal and external factors; in this regard, internal factors are those that originate from the inside of the person, whereas external factors are environmental ones (8). Studies have detected a relationship between self-esteem and some negative concepts such as depression, anxiety, loneliness, and suicidal thoughts (9), and positive concepts including emotional intelligence (7) and academic achievement (10). In qualitative research, nursing students' low self-esteem, self-efficacy, and self-confidence, sense of unworthiness, and ineffective interaction with the instructor were identified as the factors affecting the decrease of the participants' self-esteem (11). Given the specific conditions of medical fields, as well as high dropout rates and low self-esteem and self-worth of students (12), it seems vital to better understand students' self-esteem and its relationship with different variables (11).

According to some studies, medical students' self-esteem negatively affected their stress during education, which also harmed their self-confidence and motivation to learn (13-15). Overall, stressful factors of medical students are divided into three categories of education, clinical and personal-social factors. McCarthy introduced clinical and financial issues as the main sources of stress for nursing students in the university. However, the clinical environment had the highest impact in this regard (16). According to the Lazarus stress theory, nursing students' stress in the clinical environment could be due to their different needs in clinical situations and their resources and ability to carry out their responsibilities (17). As observed in a study by Bartlett and Jun, nursing students had a higher stress level, compared to students in general disciplines (18, 19).

Besides, self-esteem was affected by the way people communicate with others (20). Ethical climate in clinical environments is a type of organizational

climate that includes interpersonal relationships between the medical staff and physicians and relationships with patients regarding their care and support of patients by the medical staff (21). This issue is so important to students that, from their perspective, a proper environment is one where students are supported and accepted as young colleagues and members of the healthcare team (22). In research in Egypt, there was a relationship between students' self-esteem and their agreement on the educational environment (23).

Results of other studies have also shown a relationship between self-esteem and well-being indicators such as mental health (24) and happiness (25). Happiness is defined as the degree to which an individual judges the overall quality of their own life as a whole favorably (26) and is associated with positive consequences such as physical and psychological health, favorable performance, and entrepreneurship (27, 28). Increased happiness in people activates their immune system and affects various aspects of psychological health through influencing cognitive processes (29). Furthermore, happy people get more positive feedback from other individuals, which means that they are more successful in their interactions with others and have higher self-esteem as a result of that behavior (30).

However, despite the need to assess the factors affecting medical students' self-esteem, research is scarce in this area. The research conducted in this area has been performed on a specific group of students (e.g., nursing students), which has led to an improper understanding of medical students' self-esteem. With this background in mind, this study aimed to investigate the relationship between nursing and para clinical students' self-esteem with three variables of happiness, perceived stress, and ethical climate of the hospital.

## Materials and Methods

This correlational study was performed in the second semester of the academic year 2018-2019 in

Jahrom University of Medical Sciences. Subjects were selected by sampling census method from nursing, anesthesiology, operating room, and medical emergency students ( $n=400$ ), 316 of whom completed the questionnaires (79%).

The inclusion criteria were passing at least one clinical course in a hospital ward in previous semesters and not being a guest or transfer student. On the other hand, the exclusion criteria were unwillingness to participate in the research and incomplete questionnaires.

After receiving permission from the professor, the researcher referred to the classes of different groups of students and distributed the questionnaires following explaining research objectives and receiving consent from the participants. Notably, the completed questionnaires were returned in the same visit. Each questionnaire took 35-45 minutes to complete and the following instruments were applied to collect data:

The Rosenberg Self-Esteem Scale (31): includes 10 items with two agree and disagree options. In this regard, a positive response to each of the 1-5 items was scored (+1) while a negative response to these items was scored (-1). Notably, the items 6-10 were scored reversely. Therefore, a score of zero showed low self-esteem, whereas scores +10 and -10 demonstrated very high and very low self-esteem, respectively. The score range of the scale is -10 to +10 (32). The reliability of the scale was reported at a Cronbach's alpha of 0.77 (33). In the current research, the reliability of the scale was confirmed at a Cronbach's alpha of 0.723.

Oxford Happiness Questionnaire (revised): encompasses 29 multiple-choice questions scored from 0 to 3. According to the questionnaire's instructions, the highest and lowest happiness scores are 87 and 0, respectively. Besides, the normative score is in the range of 40-42 (34). In research, Alipour approved the reliability of the tool at a Cronbach's alpha of 0.91 (35). In the present research, the reliability of the instrument was confirmed at a Cronbach's alpha of 0.862.

Cohen's Perceived Stress Scale (PSS):

encompasses 14 items and is scored based on a five-point Likert scale (0-4). Therefore, the score range is 0-56, and a higher score is indicative of higher perceived stress. The total perceived stress scores are divided into three ranges of 0-14, 15-28, and 29-56. The total score of this test shows students' perceived stress levels (36, 37). Alsuni and Latif reported the internal consistency of the scale at a Cronbach's alpha of 0.74 (38). In Iran, Asghari et al. confirmed the internal consistency of the scale at a Cronbach's alpha of 0.84 in a research population of 300 students. Moreover, the content and construct validity of the tool was confirmed by the factor analysis method (39). In the current study, the reliability of the scale was confirmed at a Cronbach's alpha of 0.732.

Olson's Hospital Ethical Climate Survey (HECS) includes 26 items in five fields of communication with colleagues (items 1, 10, 18, and 23), physicians (items 5, 9, 14, 17, 22, and 26), hospital (items 4, 8, 13, 16, 21, and 25), patients (items 2, 6, 11, and 19) and managers (items 3, 7, 12, 15, 20, and 24). According to the survey, people's perception of the ethical climate of hospital wards is scored based on a five-point Likert scale (1=almost never, 2=rarely, 3=sometimes, 4=often, 5=almost always). Therefore, the minimum and maximum possible total scores of the survey are 26 and 130, respectively. Also, the internal consistency of the tool was confirmed at a Cronbach's alpha range of 0.68-0.92 for five areas and 0.91 for the entire survey (40). It is worth noting that the survey was translated into Farsi by Mobasher et al. (2004) and had favorable reliability (0.92) (41). In the current research, the survey's reliability was approved at a Cronbach's alpha of 0.903.

Data analysis was performed in SPSS version 16 using descriptive (frequency, percentage, mean and standard deviation) and inferential statistics, Kolmogorov-Smirnov test (to assess the normal distribution of the data) ( $P>0.05$ ), Pearson's correlation coefficient (to analyze the relationship between students' self-esteem and variables of happiness, ethical climate, perceived stress, and age),

Eta test (to evaluate the correlation between students' self-esteem and variables of gender, the field of study, marital status, accommodation status, and occupational status), Spearman's test (to assess the association between semester and students' self-esteem), and multiple linear regression test (to predict students' self-esteem based on independent variables of happiness, ethical climate, and perceived stress). Notably, P-value of 0.05 was considered statistically significant.

In this study, we adhered to ethical considerations by explaining the research objectives to the participants and ensuring them of the confidentiality

terms regarding their personal information (anonymous questionnaire completion). Also, oral and written consent was obtained before the research. It is noteworthy that the current paper was approved by the vice-chancellor for research of Jahrom University of Medical Sciences with the ethical code of IR.JUMS.REC.1395.074.

**Results**

In this study, 60.1% of the participants were female and the mean age them was  $21.99 \pm 2.53$  years. Table 1 shows the demographic characteristics of the participants.

**Table 1: Demographic Characteristics of Study Participants**

Demographic variables		Frequency (percentage)
Gender	Male	126 (39/9)
	Female	190 (60/1)
Field of Study	Operating room	83 (26/3)
	Nursing	151 (47/8)
	Anesthesiology	63 (19/9)
	Medical emergency	19 (6/0)
Semester	Second	48 (15/2)
	Third	45 (14/2)
	Fourth	44 (13/9)
	Fifth	45 (14/2)
	Sixth	47 (14/9)
	Seventh	42 (13/3)
Marital status	eighth	45 (14/2)
	Single	254 (80/4)
	Married	62 (19/6)
Accommodat ion status	Family home	81 (25/6)
	Dormitory	225 (71/2)
	Student home	10 (3/2)
Employment	No	286 (90/5)
	Yes	30 (9/5)

According to the results, the subjects received a moderate score of happiness ( $41.87 \pm 12.39$ ) and perceived stress ( $26.39 \pm 6.33$ ). However, their self-

esteem ( $4.06 \pm 4.45$ ) and perception of the ethical climate of the hospital ( $91.28 \pm 13.81$ ) were above moderate (Table 2).

**Table 2: Mean and Standard Deviation of Ethical Climate, Happiness, Perceived Stress and Self-Esteem of Students**

Variables	Mean $\pm$ Standard deviation	Maximum	Minimum
Ethical climate	91/28 $\pm$ 13/81	130	50
Happiness	41/87 $\pm$ 12/39	86	6
Perceived stress	26/39 $\pm$ 6/33	51	8
Self-esteem	4/06 $\pm$ 4/45	10	-8

The results showed a positive correlation between students' self-esteem and the variable of happiness ( $r=0.431$ ,  $P<0.0001$ ) while a negative correlation was found between the participants' self-esteem and perceived stress levels ( $r=-0.427$ ,  $P<0.001$ ). On the

other hand, no significant correlation was found between the ethical climate of the hospital and students' self-esteem (Table 3). Similarly, we detected no significant correlation between students' self-esteem and demographic characteristics (Table 3).

**Table 3: Relationship between Ethical Climate, Happiness, Perceived Stress and Demographic Variables with Students' Self-esteem**

Variables	P- value	Correlation coefficient with self-esteem (r)	Eta correlation coefficient
Ethical climate	0.085	0.097	---
Happiness	$P<0.001$	0.431	---
Perceived stress	$P<0.001$	0.427-	---
Age	0.384	- 0.049	---
Gender	---	---	0.078
Field of Study	---	---	0.113
Marital status	---	---	0.108
Accommodation status	---	---	0.064
Employment	---	---	0.019
semester	0.560	- 0.033	---

According to the multiple linear regression analysis (enter method), the two variables of happiness and perceived stress predicted 26% of the variance of self-esteem (Table 4). The results demonstrated that

an increased happiness score was associated with a higher self-esteem score (0.327) while an increase in the perceived stress score of the participants led to a decrease in their self-esteem (0.309).

**Table 4: Regression Analysis to Predict Self-esteem in Students based on the Variables of Ethical Climate, Happiness and Perceived Stress**

Predictive variable	B	SE	Beta	t	P-value
Constant	0.395	0.194	-----	2.042	0.042
Ethical climate	0.035	0.041	0.042	0.853	0.394
Happiness	0.327	0.054	0.314	6.012	0.001
Perceived stress	0.309-	0.051	0.315-	6.096-	0.001
0.523 a= R		0.274 = R2		0.267 = ADj.R2	



## Discussion

The present study aimed to determine the relationship between paramedical and nursing students' self-esteem and variables of happiness, perceived stress, and ethical climate of the hospital. According to the results, there was a positive significant relationship between happiness and self-esteem of the students. Consistent with our findings, some studies have pointed out a correlation between happiness and self-esteem (42-44). For instance, Salavera et al. reported a positive significant relationship between self-esteem and happiness (45). Another study reported a positive significant association between students' self-esteem and variables of happiness and creativity (46). Azizi et al. researched 130 nursing students, reporting a significant correlation between self-esteem and depression. In other words, an increase in the self-esteem of students led to a decrease in their depression scores (1). This can be explained by the fact that being happy depends on how people feel about themselves, and people who feel high about self-worth and self-esteem are usually happy. This can be justified by the fact that being happy depends on how people feel about themselves, and people who have high self-worth and self-esteem are usually happy.

In the current research, there was a negative significant relationship between self-esteem and perceived stress of students, in a way that an increase in their perceived stress led to a decrease in their self-esteem and vice versa. In line with our findings, studies conducted on nursing students have shown a decrease in subjects' self-esteem due to their stressful experiences during the education and the high load of the programs (13, 47). According to Kumar et al., last-year nursing students had lower self-esteem and higher stress levels, compared to first-year students (48). Regarding the relationship between students' self-esteem and perceived stress, it could be explained that people with high self-esteem may use more adaptive self-regulatory strategies to deal with stress, which makes them experience less stress.

In the current research, we detected no significant correlation between students' self-esteem and the ethical climate of the hospital. Notably, no similar study was found in this regard. However, perceived ethical climate can indirectly affect students' self-esteem by affecting their perceived stress (49). According to Fry et al., the more unfavorable the ethical climate of the hospital, the higher the participants' perceived stress and associated complications (50).

According to the regression analysis results, two variables of perceived stress and happiness of students predicted 26% of students' self-esteem. In this respect, Bayat and Yaghobi reported that happiness and creativity justified 62% of the self-esteem variance (46). Studies show a relationship between psychological health and happiness. In other words, those who have a high psychological health level have a high level of happiness. Therefore, not only increased happiness leads to better psychological health, but also it lays the foundation for growth and development of people's abilities and talents, which results in higher self-esteem.

In the current study, we observed no significant relationship between demographic characteristics of the subjects (gender, field of study, semester, marital status, accommodation status, and employment) and their self-esteem. Meanwhile, Peyrovi et al. (51) reported a significant relationship between students' self-esteem and the variables of marital status and accommodation status. This lack of consistency between the results might be due to different married or native participants in the studies. Nevertheless, our findings are congruent with the results obtained by Peyrovi et al. (51) regarding the relationship between self-esteem and other variables, including gender, semester, and employment. In research by Hosseini et al. (52), there was no relationship between students' self-esteem and the variables of accommodation status, marital status, gender, and semester, which is consistent with our findings. It seems that factors

other than gender and semester or accommodation status had a relationship with self-esteem, in a way that both genders experienced this issue during the study. On the other hand, the lack of relationship between students' work experience and self-esteem could be due to its short period.

One of the major limitations of the present study was using the correlational method, which means that the discovered relationships cannot be assumed as causal relations. Another limitation was collecting data through self-report, which might have affected the final results due to a high number of tools and impatience of students. Furthermore, since the participants were selected from one university, the results cannot be generalized to other universities or students of other fields. It is suggested that further studies be conducted on other samples and fields.

## Conclusion

Given the fact that the students' self-esteem was above moderate in the current research and those with higher self-esteem had higher happiness and lower perceived stress, it could be concluded that providing educational and stress management programs to increase happiness and vitality in students, especially in the medical sciences department, can increase self-esteem in these individuals.

## Acknowledgments

We thank the research deputy of Jahrom University of Medical Sciences for the financial support of this project .

**Conflicts of Interest:** The authors declare that there are no conflicts of interest.

## References

1. Azizi M, Khamseh F, Rahimi A, Barati M. The relationship between self-esteem and depression in nursing students of a selected medical university in Tehran. *Iran J Psychiatric Nurs.* 2013;1(1):28-34.
2. Valizadeh L, Zamanzadeh V, Badri GR, Ghahramanian A, Jabbarzadeh TF, Keogh B. Self-esteem challenges of nursing students: an integrative review. *Res Dev Med Educ.* 2016; 5(1):5-11.
3. Doré C. Self esteem: A concept analysis. *Recherche en soins infirmiers .* 2017;(2):18-26.
4. Megahed M, Mohammad F. Effect of cooperative learning on undergraduate nursing students' self-esteem: A quasi-experimental study. *J Nurs Educ Pract .* 2014;4(11):1-7.
5. Ibrahim RH. Assessment of self esteem among nursing students. *J Health Med Nurs.* 2015;16:34-6.
6. Janati Y, Musavi SA, Âzimi Lolaty H, Fani Saberi L, Hamta A, Feyzi S, et al. Investigating emotional intelligence and self esteem level among nursing and midwifery students of Mazandaran University of Medical Sciences in 2010. *J Mazand Univ Med Sci .* 2012;21(1):254-61.
7. Asgari F, Mirzaee M, Tabari R, Kazemnejad Leili E. Self-esteem in students of Guilan University of Medical Sciences. *Res med Educ.* 2016;8(2):18-26.
8. Nguyen DT, Wright EP, Dedding C, Pham TT, Bunders J. Low self-esteem and its association with anxiety, depression, and suicidal ideation in Vietnamese secondary school students: a cross-sectional study. *Front Psychiatry.* 2019;10(698):1-7.
9. Mirzaei-Alavijeh M, Rahimi H, Matin BK, Jalilian F. Self-esteem and academic achievement among students of Kermanshah university of medical sciences. *Educ Res Med Sci.* 2018;7(1).
10. Valizadeh L, Zamanzadeh V, Gargari RB, Ghahramanian A, Tabrizi FJ, Keogh B. Pressure and protective factors influencing nursing students' self-esteem: A content analysis study. *Nurse Educ Today.* 2016;36:468-72.
11. He L, Ma Y-F, Zhang K-S, Wang Y-X. Self-esteem enhancement as a strategy for promoting the mental health and averting the occupational problems of nurses. *Front Nurs.* 2019;6(1):59-65.

12. Hedayati B, Fatehizadeh M. Evaluate the effectiveness of training parents in Islam based on adolescents' self-esteem. *Islamic Stud Psychol*. 2008;1(2):117-38.
13. Edwards D, Burnard P, Bennett K, Hebden U. A longitudinal study of stress and self-esteem in student nurses. *Nurse Educ Today*. 2010;30(1):78-84.
14. Boey KW. Distressed and stress resistant nurses. *Issues Ment Health Nurs*. 1999;20(1):33-54.
15. Rosseter R. Nursing shortage fact sheet. American Association of Colleges of Nursing (AACN). 2014;8(6):12.
16. McCarthy B, Trace A, O'Donovan M, Brady-Nevin C, Murphy M, O'Shea M, et al. Nursing and midwifery students' stress and coping during their undergraduate education programmes: An integrative review. *Nurse Educ Today*. 2018;61:197-209.
17. Admi H, Moshe-Eilon Y, Sharon D, Mann M. Nursing students' stress and satisfaction in clinical practice along different stages: A cross-sectional study. *Nurse Educ Today*. 2018;68:86-92.
18. Bartlett ML, Taylor H, Nelson JD. Comparison of mental health characteristics and stress between baccalaureate nursing students and non-nursing students. *J Nurs Educ*. 2016;55(2):87-90.
19. Jun WH, Lee G. Comparing anger, anger expression, life stress and social support between Korean female nursing and general university students. *J Adv Nurs*. 2017;73(12):2914-22.
20. Heydarpour S, Dokaneheifard F, Bahari S. The impact of teaching effective communication skills on self-esteem and reduction of shyness among the physically challenged in Tehran. *J Mod Thought in Educ*. 2008;3(4):41-52. [Persian].
21. Jalili H, Jolaei S, Rafiei F, Haghani H. The relationship between nurses' perception of moral distress and ethical environment in Tehran University of Medical Sciences. *Iran J Med Ethics Date*. 2011;4(4):56-66.
22. Papp I, Markkanen M, von Bonsdorff M. Clinical environment as a learning environment: student nurses' perceptions concerning clinical learning experiences. *Nurse Educ Today*. 2003;23(4):262-8.
23. Saeid Mustafa A, Adam S, Abd ElAzeem H. Educational Environment versus Nursing Students' Self-Esteem at Technical Institute of Nursing. *Egypt J Health Care*. 2020;11(2):20-30.
24. Karaca A, Yildirim N, Cangur S, Acikgoz F, Akkus D. Relationship between mental health of nursing students and coping, self-esteem and social support. *Nurse Educ Today*. 2019;76:44-50.
25. Tavan B, Jahani F, Rafeei M. The relationship between self-esteem and happiness among students of Arak University of Medical Sciences. *Iran J Med Educ*. 2014;14(6):474-82.
26. Pelechano V, Gonzalez-Leandro P, García L, Moran C. Is it possible to be too happy? Happiness, personality, and psychopathology. *Int J Clin Health Psychol*. 2013;13(1):18-24.
27. Henricksen A, Stephens C. The happiness-enhancing activities and positive practices inventory (HAPPI): Development and validation. *J Happiness Stud*. 2013;14(1):81-98.
28. Rajabi S, Abbasi Z. The epidemiology of migraine headaches and the efficacy of Fordyce's happiness training on reducing symptoms of migraine and enhancing happiness. *Contemp Psychol*. 2015;9(2):89-100.
29. Hamid N, Keikhosravani M, Babamiri M, Dehghani M. The relationship between mental health, spiritual intelligence with resiliency in student of Kermanshah University of Medical Sciences. *Jentashapir J Health Res*. 2012; 3(2):331-8.
30. Barkhori H, Refahi J, Farahbakhsh K. The Effectiveness of Group Positive Thinking Skills Training on Achievement Motivation, Self-Esteem, and Happiness in First-Year High School Male Students in Jiroft. *New Approach Educ Manag Q*. 2009;2(5):131-44.
31. Rosenberg M. Society and the Adolescent Self-Image, Revised Edition. Middletown, CT. Wesleyan University Press Retrieved November. 1989;11:2006.
32. Bayrami M, Malekiran A, Hashemi T, Mansouri N. Psychological tests. Tehran: Nikmaleki; 2010.



33. Alizadeh T, Farahani MN, Shahraray M, AlizadeganSh. The relationship between self-esteem and locus of control with infertility related stress of no related infertile men and women. *J Reprod Infertil*. 2005;6(2):204-194.
34. Hills P, Argyle M. The Oxford Happiness Questionnaire: a compact scale for the measurement of psychological well-being. *Pers Individ Dif*. 2002;33(7):1073-82.
35. Alipour A, Agahheris M. Reliability and validity of the Oxford happiness inventory among Iranians. *J Iran Psychol*. 2007;3(12):287-98.
36. Cohen S, Kamarak T, Mermelstein R. A global measure of perceived stress. *J Health Soc Behav* . 1983;24(4):385-96.
37. Chan CK, So WK, Fong DY. Hong Kong baccalaureate nursing students' stress and their coping strategies in clinical practice. *J Prof Nurs*. 2009;25(5):307-13.
38. Alsunni A, Latif R. Perceived stress among medical students in preclinical years: A Saudi Arabian perspective. *Saudi J Health Sci*. 2014;3(3):155-9.
39. Asghari F, Sadeghi A, Aslani K, Saadat S, Khodayari H. The Survey of Relationship between Perceived Stress Coping Strategies and Suicide Ideation among Students at University of Guilan, Iran. *Int J Educ Res* . 2013;1(11):111-8.
40. Olson LL. Hospital nurses' perceptions of the ethical climate of their work setting. *Image J Nurs Sch*. 1998;30(4):345-9.
41. Mobasher M, Nakhaee N, Garooci S. Assessing the ethical climate of Kerman teaching hospitals Iran. *J Med Ethics Hist Med*. 2008;1(1):45-52.
42. Malekiha M, Abedi M. Self-esteem predictors of happiness and depression among High School Student in Iran. *Personality. Interdiscip J Contemp Res Bus*. 2012;3(10):269-80.
43. Ng JC, Cheung VW, Lau VC. Unpacking the differential effects of dispositional envy on happiness among adolescents and young adults: The mediated moderation role of self-esteem. *Pers Individ Dif*. 2019;149:244-9.
44. Tan C-S, Lee Q-W. The role of self-esteem and social support in the relationship between extraversion and happiness: a serial mediation model. *Curr Psychol*. 2017;36(3):556-64.
45. Salavera C, Usán P, Teruel P. The Mediating Role of Positive and Negative Affects in the Relationship Between Self-Esteem and Happiness. *Psychol Res Behav Manag*. 2020;13:355.
46. bayat A, Yaghobi A. The Relationship between Self-Esteem of Students of Bu-Ali Sina University with Their Happiness and Creativity. *J Innov Creat Humanit* . 2014;3(4):147-64.
47. Suliman WA, Halabi J. Critical thinking, self-esteem, and state anxiety of nursing students. *Nurse Educ Today*. 2007;27(2):162-8.
48. Kumar P, Rathee S, Bishnoi M. Self-esteem, Perceived Stress and Pain among Nursing Students, Sirsa, Haryana. *J Disabil Manag Rehabil*. 2020;5(2):78-84.
49. Fazljoo E, Borhani F, Abbaszadeh A, Razban F. The relationship between nurses' perceptions of moral distress and the ethical climate in Shahid Sadoughi University of Medical Sciences of Yazd. *J Med Ethics Hist Med*. 2014;7(2):80-90.
50. Fry ST, Harvey RM, Hurley AC, Foley BJ. Development of a model of moral distress in military nursing. *Nurs Ethics*. 2002;9(4):373-87.
51. Peyrovi H, Ghezelbash S, Ghorbani A, Inanloo M, Alizadeh H, Haghani H, et al. Relationship between Self Esteem and Demographic Variables among Undergraduate Student Nurses. *J Health Care*. 2013;14(4):52-61.
52. Hosseini M, Dejkam M, Mirlashari J. Correlation between academic achievement and selfesteem in rehabilitation students in Tehran University of social welfare and rehabilitation. *Iran J Med Educ* . 2007;7(1):137-42.

Badiyepeymaiejahromi Z, Shadfard Z, Motaseri M, Maarefi F, Pournoroz N, Taghizadeganzadeh M. Study on the Relationship of Happiness, Ethical Climate, and Perceived Stress with Self-esteem of Nursing and Paramedical Students of Jahrom University of Medical Sciences in 2018. J Med Educ Dev. 2021; 14 (41):42-51