

PAKISTAN JOURNAL OF HEALTH SCIENCES

https://thejas.com.pk/index.php/pjhs ISSN (P): 2790-9352, (E): 2790-9344 Volume 5, Issue 1 (January 2024)



Original Article

Anxiety, Depressive Symptoms and Socio-Demographic Factors Associated with Self-Esteem among Male Nursing Students

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ABSTRACT

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ARTICLE INFO

Key Words:

Rosenberg Self-Esteem Scale, Anxiety, Depression, Mental Health, Socio-Demographic Factors, Substance use

How to Cite:

Khan, D. A., Khan, M. T., Masih, A. G., Siddiqui, D. A., Parvez, A., Ali, F. M., & Bibi, A. (2024). Anxiety, Depressive Symptoms and Socio-Demographic Factors Associated with Self-Esteem among Male Nursing Students : Self-Esteem among Male Nursing Students . Pakistan Journal of Health Sciences, 5(01). https://doi.org/10.54393/pjhs.v5i01.1249

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Received Date: 2nd January, 2024 Acceptance Date: 22nd January, 2024 Published Date: 1st February 2024

INTRODUCTION

Self-esteem is particularly associated with the disposition of healthcare professionals, specifically nurses. The person's worth is estimated through the yardstick of selfesteem. It is believed that the higher self-esteem, the better stress resistance, so people with higher self-esteem may deal with stress better than those less have. Selfesteem is a personal perspective of individual worth from the lens of one's values [1]. A person's day-to-day dealings, life experiences, and accomplishments carve self-esteem. A strong and flourishing self-esteem is responsible for a person's overall health and mental well-being. The Self-

Self-esteem is an individual attitude about his personality and the gratitude of his worth. It signifies an honest, suitable, steady appreciation of one's value. Objectives: To find out anxiety, depressive symptoms and socio-demographic factors associated with self-esteem among male nursing students. Methods: A cross-sectional research design was selected and conducted with 155 undergraduate students of nursing students at College of Nursing and Midwifery, Sindh Government Hospital, Liaquatabad, Karachi. The Urdu version of the Aga Khan University Anxiety and Depression Scale (AKUADS) and Rosenberg Self-Esteem Scale (RSES) validated questionnaires were used to collect data. Results: The study findings showed that 137 students(88.39%) had normal self-esteem levels, and 18 students(11.61%) had low self-esteem. Analysis of Self-esteem about socio-demographic variables revealed an insignificant association with age, gender, marital status, family type, socioeconomic levels, family income, residence, substance use, and education program. The only statistically significant association was found between the current degree year and self-esteem levels (p = 0.046). There was a weak statistically significant negative relationship between self-esteem and anxiety depressive symptoms((r = -0.221; p < 0.01). Conclusions: The current research study concluded that nursing students with normal self-esteem levels were also suffering from anxiety and depression. The junior students were found to have more anxiety and depression symptoms and low self-esteem levels. Socio-demographic variables have no significant effect on the self-esteem of nursing students.

> esteem scale measures an individual's true worth at different levels. The scale ranges from a high to a low level of self-esteem. A high level of self-esteem refers to positive self-evaluation from the global perspective, and low self-esteem denotes negative self-esteem. In contrast, absolute self-esteem means poised and stabilized recognition of one's achievements and accomplishments, whether physical or spiritual. Yet, this absolute self-esteem may deter one's way to selfconceited superiority over others[2]. Positive students do not suffer from stress or anxiety and do not fall prey to

drugs like alcohol, as they are strong and have the potency to cope with difficult and stressful situations. They are rather cheerful and eventually show better performance in academics. People with negative self-esteem are selfabased people who suffer from a lack of confidence in themselves and doubt their own decisions. They turn out as puppets in the hands of others and lose their self-respect and credence [2]. It is a vital predictor of stress coping. An increase in stress might result in a decrease in selfesteem. An outcome of a high self-esteem level is more active and effective coping [3]. Self-esteem is considered a vital personality attribute for healthcare professionals. The students' preexisting self-esteem strongly contributes to prosperous or non-adaptive adjustment to problems. The students with high self-esteem are more confident and perform well in any situation, considering new learning opportunities as a challenge and actively taking part in adapting new behavior. In contrast, students with low levels of self-esteem constantly show negative feelings about their personalities and are unenthusiastic in new situations [1]. Self-esteem is an individual attitude about his personality and the gratitude of his worth. It signifies an honest, suitable, steady appreciation of one's value. The final-year nursing students showed higher self-esteem levels than the junior students in a cross-sectional study conducted at the University of Mosul, Iraq, in the year 2015 comprises of 300 nursing students [2]. The result of a cross-sectional study of 190 nursing students conducted at Kathmandu University shows that 78% of nursing students have low self-esteem [1]. A research study was conducted at the University of Korea in 2017. A sample of 173 nursing students was selected. The result of the study indicated that communication skills had a positive substantial influence on self-esteem in student nurses. The study also revealed that communication competence mediated to some extent between emotional intelligence and self-esteem [3]. A cross-cultural research study was conducted on nursing students of Thailand and UK. The results of the study indicated that there was no statistical significant difference between the mean self-esteem scores of nursing students of both the countries [4]. Similarly a research study was conducted in Malaysia the study showed that there was no significant correlation found between students CGPA and self-esteem, a weak negative correlation was found between academic performance and self-esteem levels and there was no impact of demographic variables as well [5]. .Furthermore the study was conducted in Bangalore comprises of 118 nursing students confirm that majority of the students had normal self-esteem, one of the socio-demographic variable gender is found to be significantly associated with self-esteem [6]. A study conducted in the UK on the threeyear diploma nursing students found that self-esteem had fallen at the end of the training program [7]. A research study was conducted at the University of Saudi Arabia in May 2023. The results showed that 8.1% of students had high self-esteem, 76.6% had moderate self-esteem, and 15.3% had low self-esteem. Moreover, the study also showed that socio-demographic variables such as the father's education, physical health, year of study, and psychological health had a significant correlation to selfesteem [8]. The study was carried out on 276 nursing students, and the result findings showed that 64.1% had high self-esteem levels, while 35.5% of the students had normal self-esteem levels. The study also found out that there had no significant association between gender and self-esteem levels [9]. Anxiety is the word used to express worry, fear, or hesitation [10]. In this regard, a research study was conducted in Cyprus to find out the correlation between anxiety and depression with self-esteem and religious beliefs in student nurses; the sample size involved 123 nursing students. The results revealed a strong positive correlation between religious and spiritual beliefs and increased self-esteem, and there was no impact of gender on the findings [11]. In another cross-sectional study which was conducted in the nursing college of Kanpur, the result showed that 73.3% of students had a normal self-esteem level, 23.8% students had low self-esteem level, while merely 2.9% students had high self-esteem level. There was no significant association found between demographic variables and self-esteem levels, the only significant association was found between stress variable with self-esteem [12].

This study helped us to identify the anxiety depressive symptoms and socio-demographic factors which are associated with the self-esteem level.

METHODS

The research study's design was cross-sectional. The chosen design was used to assess the anxiety, depressive symptoms and socio-demographic factors associated with self-esteem among nursing students. The current study was conducted at the College Of Nursing and Midwifery (Male), Sindh Government Hospital, Liaquatabad, Karachi. The study population was the male students of the Bachelor of Nursing Program. The sample was selected using a convenience sampling technique. A sample size of 91 achieves 80% power to detect an effect size of 0.32 using 2 degrees of freedom Chi-Square test with a significance level of 0.05 computed using an association between degree year groups and self-esteem level. The current study was conducted on 155 students. The study was conducted from March 2023 to September 2023. Inclusion Criteria are Students of 1st, 2nd and 3rd year Bachelor of Science in Nursing program and Students who agreed to

participate in the study Exclusion Criteria are Students in the midwifery Nursing Diploma program And Students in the the certified Nursing Assistant program. Each student filled out out the informed consent before the data collection; students were fully aware of the objectives of the research study. The principal of the college, a BPS 19 government officer, obtained permission before the data collection. The data collection was done through a questionnaire comprised of socio-demographic information. Study approval was taken from the research committee of DOW university with reference number (DUHS/SPH/2023/03-0413). The AKUADS scale for anxiety and depression symptoms and the Rosenberg Self-Esteem Scale were used to collect data. The AKUADS scale for anxiety and depression symptoms comprises 25 items, with a cut-off value >19, and Cronbach's alpha for total anxiety depressive symptoms was 0.861 in this study. On the Rosenberg Self-Esteem Scale, comprising a 10-item self-report measure of global self-esteem, a score below 15 was considered Low self-esteem level, and abobe 15 high self-esteem and Cronbach's alpha for total Self-Esteem was 0.696 in this study. The statistical package of the SPSS version 25.0 was used for data analysis, for descriptive data, frequency tables and charts were used. Statistical tests such as correlation analysis, independent t test and ANOVA were used to find the relationship and association between the dependent and independent variables. The level of significance was 0.05.

RESULTS

The table 1 provides an overview of socio-demographic characteristics among a sample of 155 individuals. The gender distribution is entirely male, comprising 100% of the sample. In terms of age, the majority fall within the 16-22 age group (54.8%), followed by 23-29 (40.0%), and a smaller percentage in the 30-36 range (5.2%). Marital status indicates that 81.9% are unmarried, 16.1% are married, and 1.9% fall into the "Others" category. Family types are predominantly extended (63.2%), with 36.2%belonging to nuclear families. Regarding residence, the majority live with parents (94.8%), while a small percentage live with relatives (2.6%) or in a hostel (2.6%). Substance abuse is reported by 11.6%, with 88.4% indicating no substance abuse. Academic year distribution shows 41.3% in Year 1, 32.9% in Year 2, and 25.8% in Year 3. Employment status reveals 36.1% are self-employed, while 63.9% are not. The majority of fathers (68.4%) and mothers (94.2%) are employed. Family income is diversified, with 57.4% earning below 50,000, 28.4% between 50,000-100,000, 10.3% between 100,000-200,000, and 3.9% earning above 200,000.

DOI: https://doi.org/10.54393/pjhs.v5i01.1249

Table 1: Socio-demographic variables (n=155)

Socio-Demographic Variables	Characteristics	N (%)
Gender	Male	155 (100)
Gender	Female	0(0)
	16-22	85(54.8)
Age	23-29	62 (40.0)
	30-36	8(5.2)
	Married	25 (16.1)
Marital status	Unmarried	127 (81.9)
	Others	3 (1.9)
Family Type	Nuclear Family	57(36.2)
	Extended Family	98(63.2)
Residence	Living with Parents	147 (94.8)
	Living with Relatives	4(2.6)
	Hostel	4(2.6)
Substance abuse	Yes	18 (11.6)
Substance abuse	No	137(88.4)
	Year 1	64 (41.3)
Current Degree Year	Year 2	51(32.9)
	Year 3	40(25.8)
Self Employed	Yes	56 (36.1)
	No	99 (63.9)
Father Employed	Yes	106(68.4)
Father Employed	No	49 (31.6)
Mother Employed	Yes	9 (5.8)
	No	146 (94.2)
	Below 50,000	89(57.4)
Family Income	50,000-100,000	44(28.4)
r anny income	100,000-200,000	16 (10.3)
	Above 200,000	6(3.9)

The result of table 2 showed that 88.39% of nursing students had normal self-esteem levels and 11.61% of nursing students had low self-esteem levels.

Table 2: Level of self-esteem

Level of self Esteem	Percentage	Scored obtained
Normal self Esteem	88.39%	Above 15
Low Self Esteem	11.61%	Below 15

Result of table 3 shows that 59.35% of the students, the anxiety and depression symptoms score was absent, while 40.65% of students were found to have anxiety depression symptoms.

Table 3: Anxiety depressive symptoms

Anxiety Depressive Symptoms	Percentage
Symptoms Absent	59.35%
Symptoms Present	40.65%

Self-esteem levels and anxiety depressive symptoms were found to be negatively weakly statistically significant. (r = -0.221; n = 155; P < 0.01)(Table 4).

Table 4: Correlation between self-esteem and anxiety depressive symptoms

SE Levels, ADS	N	r	p-value
SE LEVEIS, ADS	155	- 0.221	< 0.01

Table 5 shows the result of Association of demographic variables with self-esteem score. The age group does not exhibit a significant association with self-esteem (p = 0.687). Marital status also shows no significant difference (p = 0.147). Residence type lacks a significant relationship with self-esteem (p = 0.286). However, academic year emerges as a significant factor, with first-year students demonstrating a notable difference in self-esteem compared to their peers (p = 0.046). Family income and family type do not reveal significant associations. Additionally, variables such as substance abuse, self-employment, and father's employment show no significant correlations with self-esteem (p-values: 0.523, 0.817, 0.923).

Table 5: Association of demographic variables with self-esteem

 score

Variables	Mean ± SD	N	p-value
	Age		
16-22	21.33 ± 4.489	85	0.687ª
23-29	21.97 ± 4.304	62	
30-36	21.63 ± 4.373	8	
	Marital Status		
Married	23.12 ± 2.818	25	
Unmarried	21.34 ± 4.614	127	0.147ª
Others	20.00 ± 3.464	3	
	Residence		
Living with Parents	21.73 ± 4.350	147	
Living with Relatives	19.75 ± 4.787	4	0.286ª
Hostel	18.75 ± 5.500	4	
	Academic Year		
Year 1	20.56 ± 4.475	64	
Year 2	22.27 ± 4.128	51	0.046°
Year 3	22.40 ± 4.355	40]
	Family income		-
Below 50,000	21.17 ± 4.200	89	
50,000 - 100,000	21.91 ± 4.482	44	0.70//a
100,000 - 200,000	23.13 ± 4.225	16	0.394ª
Above 200,000	21.67 ± 6.772	6]
	Family Type		
Nuclear Family	21.35 ± 4.786	57	0.054 ^b
Extended Family	21.74 ± 4.165	98	
	Substance Abuse		
Yes	20.89 ± 4.129	18	0.523⁵
No	21.69 ± 4.432	137	
	Self Employed		
Yes	22.64 ± 4.474	56	0.817 ^b
No	21.01 ± 4.256	99	וט.טו/־

DOI: https://doi.org/10.54393/pjhs.v5i01.1249

Father Employed			
Yes	21.48 ± 4.371	106	0.007
No	21.86 ± 4.472	49	0.923 ^b

^aANOVA test has been applied

^bIndependent T-test has been applied

DISCUSSION

The main aim of this study was to find out the association between anxiety depressive symptoms and sociodemographic factors with self-esteem among nursing students. Our study revealed that the majority of the nursing students have normal self-esteem levels. The students of 1st year nursing students have mean selfesteem scores in comparison with 2nd and 3rd-year nursing students. Similar results are found in the crosssectional study comprising 300 nursing students, which was conducted in Iraq, which showed that the final-year nursing students have high self-esteem scores compared to the junior students [2]. Low self-esteem can have a number of negative consequences for nursing students. It can make it difficult for them to succeed academically and clinically. It can also lead to problems in their personal and social lives. Nursing students with low self-esteem may be more likely to experience anxiety and depression, have difficulty coping with stress, avoid challenging tasks, procrastinate, give up easily, withdraw from social activities, and have negative relationships with others [13]. The current study findings revealed that 40.65% of the students have no anxiety symptoms. Similarly, another study found that,(41.3%) had low anxiety score during their clinical placement [14]. Another study found that the majority of the students have moderate stress [15]. In this regard, another study said that 17.6% of the pupils acknowledged feeling anxious [16]. Our study outcome shows that there was no significant association found between different socio-demographic variables such as gender, marital status, family type, family income, residence, or substance abuse with self-esteem levels. The only significant association was found between education level and self-esteem levels which means that change in education level has an impact on self-esteem scores. According to the cross-sectional study conducted in India, comprised of 210 undergraduate nursing students, the results revealed that there was no significant association was found between socio-demographic variables and selfesteem, the only stress variable was found to be significantly associated with self-esteem [12]. Despite having normal self-esteem scores, the students were found to have positive anxiety depression symptoms. The junior students were found to have more anxiety and depression symptoms in comparison with senior students. Similarly, another study found the same result that: junior

students have more anxiety than senior students [17]. This is due to several factors, including academic pressure, clinical concerns, long hours, irregular sleep patterns, exposure to human suffering and death. Anxiety and depressive symptoms have an adverse impact on selfesteem. People with anxiety depression often have a negative view of themselves and their abilities. They may also have difficulty coping with stress and challenges. Anxiety is a common experience among nursing students, and it can manifest in a variety of ways, such as feeling nervous, restless, or worried. Anxiety can interfere with academic performance, clinical performance, and overall well-being [18]. Depressive symptoms are also common among nursing students. These symptoms can include sadness, hopelessness, fatigue, and difficulty concentrating. Depressive symptoms can make it difficult to complete nursing school and can also lead to other problems, such as academic failure, relationship problems, and substance abuse [19]. There was a negative inverse weak correlation between self-esteem mean scores and anxiety depression symptoms mean score (r = -0.221; n=155; P=0.006). Similar results were found in the research study conducted in Saudi Arabia in the year 2018 involved 152 nursing students. The results of this study revealed that there was a weak statistically significant negative relationship between self-esteem and level of depression (r =-0.224; n=152; P < 0.01), with a lower level of depression associated with a high level of self-esteem [20]. Another study found a negative correlation between selfconfidence and anxiety p-value of 0.224 [14]. There is a need to look after the 1st year students as they had low mean scores on both variables, and the new academic environment and culture might affect the findings.

CONCLUSIONS

A negative, significant, weak correlation was found between anxiety, depressive symptoms and self-esteem.. Nursing students' academic level was found to be significantly associated with both self-esteem scores and anxiety depressive symptoms scores; the junior students are more prone to have more anxiety depressive symptoms and low self-esteem levels.

Authors Contribution

Conceptualization: DAK, MTK Methodology: DAK, AGM Formal analysis: DAK, MTK, DAS Writing-review and editing: DAK, AP, FMA, AB

All authors have read and agreed to the published version of the manuscript.

Conflicts of Interest

The authors declare no conflict of interest.

Source of Funding

The authors received no financial support for the research, authorship and/or publication of this article.

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