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Student's Coping Strategy: Comparison Within Undergraduate Male Health Prfessional Students

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Abstract

Background of the problem:

Stress is prevalent among medical professionals and the medical students are under significant training stress which can cause distress and influence health outcomes.

Objectives

The purpose of the study was to determine the effects of academic stress on health outcomes in medical students

Methods

Total 735 medical students from different medical college selected for the present study. For measure the academic of stress, Gadzella's (1991) Students-life Stress Inventory (SSI) was used. In assessing the Health outcomes, the Medical Outcome Study: Short-form 36 (MOS SF-36) that was developed by Ware, Snow, Kosinski, Gandek (1993) was used.

Results

The findings of the study shows that, Academic stressors and Reaction to stressors were correlated negatively with General health perception, Physical functioning, Role of functioning, Social functioning, Bodily pain, and Mental health.

Conclusion

The study found that there was Negative correlation between Academic Stress and Health outcomes.

Introduction

oping is a psychological construct that involves the use of emotional processing and emotional expression in response to a stressful situation. (Stanton & Franz, 1999). Coping is a conscious attempt to address and alleviate demands perceived as stressful. Folkman, et.al (2006). Coping styles correctly handle stressful events (Wood,2007).Coping processes have also been defined instead on whether they involve approaching the stressful situation or avoiding it (Charles et.al.1994). "Behavioral inhibition, behavioral activation, and affective responses to impending reward and punishment: The **BIS/BAS** Scales". Journal of Personality and Social Psychology. 67 (2): 319–333. Coping is expending conscious effort to solve personal and interpersonal problems, and seeking to master, minimize or tolerate stress or conflict. Academic Stress was found to be a part of students' life and could give impact on how students cope with the demands of Academic life. Three general strategies or styles of coping with stressful situations have been identified by Kohn et

al. (1994): (a) problem-focused coping, directed at remedying a threatening or harmful external situation; (b) emotion-focused coping including ventilating, managing, or relieving one's emotional response to such a situation; and (c) avoidancefocused coping involving attempts to remove oneself mentally or even physically from threatening or damaging situations. Research by Kohn et al. (1994) found that both problem-focused and emotionfocused coping were significantly related to positive adaptation to stress, while avoidance-focused coping was related to both positive and negative adaptation to stress. Academic Stress was found to be a part of students' life and could give impact on how students cope with the demands of academic life. There are number of reports available and indicates that medical school's environment is not congenial and friendly to enhance psychological and physical health of students (Guthrie et al., 1998; Given et al., 2002; Vitaliano et al., 1989, Singh 2015, Singh 2015b,). It is less than 3% in any population suffers from psychiatric diseases. Similar figure also observed with medical students before taking admission in medical school (Institute for Health System Research, 2002; Yusoff et al., 2013a; Yusoff VOL- VII ISSUE- I JANUARY 2020 PEER REVIEW IMPACT FACTOR ISSN e-JOURNAL 6.293 2349-638x

et al., 2013b; Smith et al., 2007). Coping strategies have been found to moderate stressful experiences. Coping strategies included individual lifestyle adaptations, family support, religious structures and study groups

Methods

Target Population

In all,388 medical students (MBBS) during the academic year 2014-2015 selected as a sample size for the study. The data was collected from the students Govt. Medical College Aurangabad, Govt Medical College, MGM Medical College, Aurangabad, Medical College Latur, Shankarao Chavan Medical College Nanded, Government Medical College Akola and Punjab Rao Deshmukh Medical College Amravati. Instructions were given to the students before filling these questionnaires by the Researcher or Research Assistant

Demographic information

The demographic information was collected through respondents in the form of different descriptive tests. The demographic information about, age, sex, daily smoking etc. was obtained before seeking responses.

Consent form

This form was formatted in English language & give to all participants of this study. The written consent will be taken from each subject before screening procedure.

Data processing:

The collected data was analyzed as a whole. The data was checked for accuracy and completeness and was coded and put up into the SPSS Descriptive statistics for all studied variables, Regression analysis, was considered statistically technique throughout the study and the level of significant was set-up at 0.05 level.

Results of the study

The results concerning this are presented in the form of tables. For the sake of convenience and methodical presentation of the results, following order has been adopted.

TABLE – 1
MEAN SCORES AND STANDARD DEVIATION OF THE
COPING AND ITS SUBSALES AMONG YEAR WISE
MALE MEDICAL STUDENTS

'n	MALE MEDICAL STUDENTS							
	Sr.	Coping	Years	Numbe	Mean	Standard		
	No		wise	r	Score	Deviation		
			male medical		S	S		
			students					
		Problem	First	170	17.74	4.87		
	1	focus	Second	108	18.47	4.58		
		coping	Third	78	16.88	4.74		
			Fourth	32	19.59	3.78		
			First	170	8.25	3.38		
١	2	Wishful	Second	108	9.19	2.96		
		Thinking	Third	78	8.89	2.83		
			Fourth	32	8.93	3.05		
			First	170	9.31	3.68		
	3	Seeking	Second	108	9.42	3.35		
		social	Third	78	10.03	3.01		
		support Detachment	Fourth	32	10.93	2.19		
			First	170	10.44	3.80		
١	4	Seeking	Second	108	11.73	3.19		
	social		Third	78	10.29	3.49		
		support	Fourth	32	12.68	3.06		
	5	Focusing	First	170	6.75	2.86		
		on the positive	Second	108	6.86	2.54		
			Third	78	6.70	2.67		
			Fourth	32	7.59	1.79		
	6	Self-blame	First	170	5.22	1.87		
			Second	108	5.06	1.89		
			Third	78	5.02	1.75		
			Fourth	32	5.37	1.80		
	7	Tension	First	170	4.32	2.27		
		reduction	Second	108	4.56	1.92		
			Third	78	4.84	1.94		
			Fourth	32	5.12	1.38		
4	8	8 Keep of self	First	170	5.19	2.10		
			Second Third	108	4.95	1.77		
				78	5.37	1.77		
	Garden .		Fourth	32	4.78	1.67		
			First	170	67.27	15.47		
	(Coping	Second	108	70.26	13.86		
			Third	78	68.06	11.93		
			Fourth	32	75.03	9.83		

Table- 1 Shows the Mean scores and Standard deviation of the Coping and its eights subscales of year wise male medical students. The mean scores (SDs) of Coping with respect to Problem focus coping of first year male medical students were obtained 17.74(4.87), second year male medical students were recoded 18.47(4.58), third year male medical students was got 16.88 (4.74) and fourth year male medical students were observed 19.59 (3.78) respectively. Whereas, The mean scores (SDs)

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of Coping with respect to Wishful Thinking of first year male medical students were obtained 8.25(3.38), second year male medical students were recoded 9.19(2.96), third year male medical students was got 8.89 (2.83) and fourth year male medical students were observed 8.93(3.05) respectively. However, The mean scores (SDs) of Coping with respect to Seeking social support Detachment of first year male medical students were obtained 9.31(3.68), second year male medical students were recoded 9.42(3.35), third year male medical students was got 10.03(3.01) and fourth year male medical students were observed 10.93 (2.19) respectively. Meanwhile, The mean scores (SDs) of Coping with respect to Seeking social support of first year male medical students were obtained 10.44(3.80), second year male medical students were recoded 11.73(3.19), third year male medical students was got 10.29 (3.49) and fourth year male medical students were observed 12.68 (3.06) respectively.

While considering, the mean scores (SDs) of Coping with respect to Focusing on the positive of first year male medical students were obtained 6.75(2.86), second year male medical students were recoded 6.86 (2.54), third year male medical students was got 6.70(2.67) and fourth year male medical students were observed 7.59 (1.79) respectively. Meanwhile, the mean scores (SDs) of Coping with respect to Self-blame of first year male medical students were obtained 5.22(1.87), second year male medical students were recoded 5.07 (1.89), third year male medical students was got 5.02(1.75) and fourth year male medical students were observed 5.37(1.80) respectively. Meanwhile, the mean scores (SDs) of Coping with respect to tension reduction of first year male medical students were obtained 4.32 (2.27), second year male medical students were recoded 4.56(1.92), third year male medical students was got 4.84 (1.94) and fourth year male medical students were observed 5.12 (1.38) respectively. Meanwhile, the mean scores (SDs) of Coping with respect to keep of self of first year male medical students were obtained 5.19 (2.10), second year male medical students were recoded 4.95 (1.77), third year male medical students was got 5.37(1.77) and fourth year male medical students were observed 4.78 (1.67) respectively. Finally, the mean scores (SDs) of Coping with respect to coping of first year male

medical students were obtained 67.27(15.47), second year male medical students were recoded 70.26(13.86), third year male medical students was got 68.06 (11.93) and fourth year male medical students were observed 75.03(9.83) respectively.

TABLE – 2 DIFFERENCES OF COPING OF YEAR WISE MALE MEDICAL STUDENTS

	MALE MEDICAL STUDENTS							
	Sr. No	Coping	Source of Variance	DF	SS	MSS	F- ratio s	
	1.	Problem focus	Between groups	3	211.62	70.54	3.20	
		coping	Within groups	38 4	8443.20	21.98		
	2.	Wishful Thinking	Between groups	3	64.33	21.44	2.17	
			Within groups	38 4	3782.58	.85		
	3.	Detachm ent	Between groups	3	88.80	29.59	2.61	
A III			Within groups	38 4	4342.01	11.30		
	4.	Seeking social	Between groups	3	239.01	79.67	6.41 *	
		support	Within groups	38 4	4768.32	12.41		
	5.	Focusing on the	Between groups	3 (20.93	6.97	.97	
		positive	Within groups	38 4	2736.47	7.12		
STREET, STREET,	6.	Self- blame	Between groups	3	4.67	1.55	.45	
			Within groups	38 4	1314.04	3.42		
	7.	Tension reduction	Between groups	3	25.63	8.54	2.02	
ANI		-004	Within groups	38 4	1621.75	4.22		
4	8.	Keep of self	Between groups	3	12.50	4.16	.23	
			Within groups	38 4	6957.04	18.11		
	Copi	ng	Between groups	3	1911.05	637.0 1	3.26	
-			Within groups	38 4	74986.4 1	195.2 7		

Table -2, depicted the differences of Coping along with its eight subscales of year-wise Male medical students. The result given in Table -6.13 reveals that significant difference of Coping was found in year wise male medical students (F=3.26, P<.05). In order to find out the differences of eight subscales of Coping between year wise male medical students; Fratio was computed for each category separately. The result reveals that significant differences were found in Coping with respect to Problem focus coping (F=3.20, P <.05), Seeking social support

(F=6.41, P<.05). However, insignificant differences were found in Wishful Thinking (F=2.17), Detachment (F=2.61,), Focusing on the positive (F=0.97), Self-blame (F=0.45), Tension reduction (F=2.02) and Keep of self (F=0.23) among year wise male medical students.

Table 6.14, presents the results in order to locate the differences of Problem focus copingamong four groups male medical students; Scheffe post hoc test was applied for differences of Problem focus coping of year wise male medical students.

TABLE-3 SCHEFFE POST HOC TEST FOR THE DIFFERENCES BETWEEN THE ADJUSTED POSTS PAIRED MEANS ON PROBLEM FOCUS COPING OF YEAR WISE MALE MEDICAL STUDENTS.

	ME	MEAN	C.D.AT				
I YEAR	II YEAR	III YEAR	IV YEAR	DIFFE RENCE	0.5% LEVEL		
17.74	18.47			.73	2.35		
17.74		16.88		.86	0.94		
17.74		U	19.59	1.85	1.38*		
	18.47	16.88		1.58	.36*		
	18.47	16	19.59	1.12	2.77		
		16.88	19.59	2.71	2.47*		

The results of the study showed that 1) there was insignificant difference of Problem Focus Coping was found between first and second year male medical students. 2) There was insignificant difference of Problem Focus Coping was found between first and third year male medical students. 3) There was significant difference of Problem Focus Coping was found between first and fourth year male medical students. The findings of the study shows that fourth year male medical students were found to have got more Problem Focus Coping rather than first year male medical students. 4) There was significant difference of Coping with respect to Problem Focus Coping was found between second and third year male medical students. The findings of the study shows that second year male medical students were found to have got more Problem Focus Coping rather than third year male medical students. 5) There was insignificant difference of Problem Focus Coping was found between second and fourth year male medical students.5) There was significant difference of Problem Focus Coping was found between third

and fourth year male medical students. The findings of the study shows that fourth year male medical students were found to have got more Problem Focus Coping rather than third year male medical students.

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TABLE-4, SCHEFFE POST HOC TEST FOR THE DIFFERENCES BETWEEN THE ADJUSTED POSTS PAIRED MEANS ON SEEKING SOCIAL SUPPORT OF YEAR WISE MALE MEDICAL STUDENTS.

	MEA	N SCORE	S	MEAN	C.D.AT	
o o	I YEAR	II YEAR	III YEAR	IV YEAR	DIFFE RENCE	0.5% LEVEL
Townson.		11.73	ILAK	ILAK		1.25*
	10.44	11.75	10.29		1.29	1.20
	10.44			12.68	1.24	2.14
		11.73	10.29		1.44	.03*
		11.73		12.68	.95	1.94
k			10.29	12.68	2.39	2.28*

The results of the study showed that.

- 1) There was significant difference of Seeking Social Support was found between first and second year male medical students. The findings of the study shows that second year male medical students were found to have got more Seeking Social Support rather than first year male medical students.
- 2) There was insignificant difference of Seeking Social Support was found between first and third year male medical students.
- 3) There was insignificant difference of Seeking Social Support was found between first and fourth year male medical students.
- 4) There was significant difference of Seeking Social Support was found between second and third year male medical students. The findings of the study shows that second year male medical students were found to have got more Seeking Social Support rather than third year male medical students.
- 5) There was insignificant difference of Seeking Social Support was found between second and fourth year male medical students.
- 6) There was significant difference of Seeking Social Support was found between third and fourth year male medical students. The findings of the study shows that fourth year male medical students were found to have got more Seeking Social Support rather than third year male medical students.

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Discussion

The result (Table -2) reveals that significant difference of Coping was found in year wise male medical students. The findings of the study shows that, fourth year medical students have better coping ability due to more experience and ability to face problems from long time. In order to find out the differences of eight subscales of Coping between year wise male medical students; significant differences were found in Coping with respect to Problem focus coping and Seeking social support. However, insignificant differences were found in Wishful Thinking, Detachment, Focusing on the positive, Self-blame, Tension reduction and Keep of self among year wise male medical students. The findings of the study shows (Table-6.3) that fourth year male medical students were found to have got more Problem Focus Coping rather than their counterparts. In addition, fourth year male medical students (Table-6.4) also more Seeking Social Support coping rather than first, second and third year male medical students. The fourth year medical students have more competitive temperament, ability to solve problem efficiently and experience may contributed to their more Problem Focus Coping and Seeking Social Support coping. Stewart et. Al. used the COPE, a multidimensional coping inventory which includes evaluation of both problem-focused and emotion-focused coping strategies, in studies of Hong Kong Chinese medical students (Stewart et al. 1997, Stewart et al, 1999). Studies from developing countries like Pakistan, India, Thailand and Malaysia have reported stress among medical students and have underscored the role of academics as a source of stress (Shaikh et. al, 2004; Supe, 1998; Saipanish, 2003 and Sherina, 2004). But these studies have either not assessed the coping strategies or did not use biological factor as parameter to assess stress. A study from the United Kingdom has reported a higher rate of psychological morbidity and stressors related to medical training among the first year students in a new problem-based medical curriculum (Moffat et. al, 2004)

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