# International Journal of Health Sciences and Research

ISSN: 2249-9571 www.ijhsr.org

Review Article

### Academic Stress, Anxiety, Remedial Measures Adopted and Its Satisfaction among Medical Students: A Systematic Review

Bhawna Sharma<sup>1</sup>, Ajesh Kumar<sup>1</sup>, Jyoti Sarin<sup>2</sup>

<sup>1</sup>Department of Mental Health Nursing, <sup>2</sup>Department of Child Health Nursing, Maharishi Markandeshwar College of Nursing, Mullana, Ambala, Haryana, India.

Corresponding Author: Bhawna Sharma

Received: 03/06/2016 Revised: 22/06/2016 Accepted: 27/06/2016

#### **ABSTRACT**

Students have different types of stressors, and this stressors lead to anxiety and poor performance in the scholastic skills. A number of remedial measures are adopted by students in order to reduce this stressors and anxiety. This study aims to determine the relationship between academic stress, anxiety and academic performance along with remedial measures adopted.

Methods: A Pub Med, SCOPUS and Google scholar (2002-2016) literature review was undertaken to define sources of academic stress, anxiety, remedial measures adopted and its satisfaction to reduce academic stress and anxiety among nursing students.

Results: We identified 62 relevant articles. The most frequently noted form of academic stress and anxiety is academic stressors, social stressors, personal stressors, year of study, gender and teacher's stress. Use of effective stress reduction techniques is benefitted for students to reduce academic stress, anxiety and improve academic performance.

Conclusions: This article highlights the prevalence of academic stress and anxiety due to excessive competition, study of new subjects, change in environment, come far from their homes and family and study in university among nursing students. Therefore this article also stated that use of remedial measures is highly benefited to students to reduce their stress and anxiety and to improve academic performance. This article recommended that the college should arrange the necessary environmental conditions to reduce the student's academic stress and anxiety.

*Keywords:* Academic stress, Anxiety, Academic Performance, Remedial measures.

### **INTRODUCTION**

Academic performance is the output of education of a student who achieves their educational goals in an institution. Academic performance is measured by continuous assessment and examinations but there is no general agreement on how it is best tested or which aspects are most important - declarative knowledge e.g. facts or procedural knowledge e.g. skills. [1]

The factors that affect academic performance include social economic status. admission points and institution background. Another factors that influence high academic achievements post graduates and undergraduates includes deep learning, family support, revision, learning in small groups, learning in skills lab, mind mapping, attendance to lectures, prioritization of learning needs, learning from mistakes. [2]

Academic stress is conceptualized as interactions between student's environment stressors, cognitive appraisal and coping psychological physiological and response to stress and stressors related to academics. [3] Academic stress is most often problem in all countries and cultures. In some societies it is very severe because they want to get academic success for their social mobility, family pride and respect, which results in very high demands and pressure of academic performance in the students. [4]

Academic stressors are events in life of the students that affect their mental health as well as academic performance. Normally excessive assignments, peer competition, examination and time management issues are universally accepted for academic stressors. [5]

Students have different types of stressors e.g. financial stress, academic pressure from teachers and parents, time and health related issues. <sup>[6]</sup> This stress leads to academic, cognitive, social and physical changes. Sometimes mild stress is beneficial for academic tasks and performance while progressive high stress leads to anxiety and depression. <sup>[7]</sup>

Increasing academic stress results in anxiety, anger, depression, as well as it decreases the self-confidence and self-esteem. A Research study suggested that depression, anxiety, low self confidence and low self-esteem can decrease their academic performance by disturbing their thinking. [8] For post graduate and undergraduate nursing students clinical setting is also a learning environment. As they are learning in this environment they may experience stress and anxiety. As anxiety increases it can decrease clinical performance of students. [9]

Remedial measures are the coping strategies adopted by the students to decrease the academic stressors and improve the academic performance. [10] There are many models e.g. Problem focused and emotional focused model that are developed for measuring coping strategies. [11]

Time management and leisure activities had greater effects on academic stress. Females have effective time management but also have high academic stress and anxiety than males. Males have high satisfaction by leisure activities than females. [12]

The Extra- curricular Activities are used to make equilibrium between studies and play. [13] A person should never underestimate the importance of Extraactivities. Extracurricular activities help students to learn modern and new things according to their own interest beside from academic studies. The process allows the students to ignore their academic work. Extra- curricular activities helps persons to build leadership qualities in a student, these will be useful in their further life. Therefore students must study hard as well as actively participate in Extra-curricular activities. [14]

Studying in group is also a one of the best way to cope with academic stress among students. By this method a student can understand about his doubt very quickly with the help of their peer group. Also, the presence of their friends gives psychological encouragement to students during stress. Study smart is the best way to cope with academic stress rather than study hard. [15]

### **MATERIALS AND METHODS**

Relevant articles on the topic of academic performance, academic stress, anxiety, remedial measures adopted to reduce academic stress and anxiety were identified by searching with related SCOPUS, GOOGLE SCHOLAR and Pub Med (2002-2015). Titles and abstracts of these articles obtained from the database searches were reviewed to ensure that they were related to academic stress, anxiety, performance and remedial academic measures. Articles falling outside of the searched date range, not written in English, or not pertaining to academic stress, anxiety, performance and academic remedial measures were excluded. Information from these 62 articles was extracted.

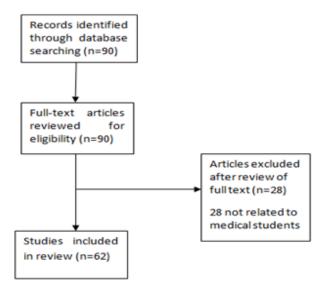


Fig. 1: Flowchart of review selection process and result

### **RESULTS**

## Academic Stress -and Academic Performance

Academic sources of stress are most stressful among nursing students. A study found that the most stressful category among these was academic sources of stress for all the students due to the pressure comes from the burden, course and for academic evaluation. procedures Personal and familiar factors were considered as less stressful stressors. [16] Related and Social-related Academic Stressors caused for severe and high stress, with insignificant differences between gender and residency. [17] The predominant themes were: perceptions of clinical practice, coping, personal issues, balancing school, work, and personal life. Implications and recommendations curriculum design, ensuring understand program expectations prior to admission, and enhancing accessibility to mental health/support services need to be considered. [18]

According to stage wise academic stress is found more in second and third year students rather than first year students and who have excellent academic performance at previous class. A study was suggested that medical students perceived stress. In Second and Third MBBS students stress was found to be significantly more rather

than First MBBS levels (p < 0.05). Stress was found to be significantly more in students having more than 95% of marks at 12<sup>th</sup> Standard as compared to others. It was found that with longer time spent in school psychophysical situation of girls and boys was deteriorating because the psychophysical stress from classes to classes was increasing. <sup>[19]</sup>

Female students have more academic stress as compare to male students. [20] A study was done to assess psychophysical stress among students of senior secondary schools during the years of education. The psychophysical stress of students in compared classes differed for both sexes. It was greater in girls in successive classes. The objective stressful situations and the personal experiencing of this stress increased among girls from year to year. [21] Females experienced higher self-imposed stress than males and had more physiological reactions to stress. With regards to control of time available, planning and organizing tasks and time control. Female students were also more recognized for taking good lecture notes, proof reading work, and having the ability to recall more facts from lectures than the male students. [22]

Teachers play a vital role in perceiving students academic stress. Findings of a study show that the faculty

members perceived the students to experience a higher level of stress and to display reactions to stressors more frequently than the students actually perceived. This could result simply from the faculty observing the students only during their moments of stress in the classroom. [23]

Respondent's status and interaction of status and stressors emerged as the two strongest predictors of their behavioral, emotional, physiological, and cognitive reaction to stressors. All the five stressors attained statistical significance in the model except for cognitive reaction. These variables explained 49% of variance in behavioral reaction, 28% for emotional reaction, 22% for physiological reactions, and 21% for cognitive reactions. [24]

Among private and government the institutions academic stress significantly more in the students of private institution as compare to government institution. A study Results indicated that magnitude of academic stress significantly higher among the Private institute students where as Government institute students were significantly better in terms of their level of adjustment. However, inverse but significant relationships between academic stress and adjustment were found for both the group of students and for each type of institute. [25]

High level of academic stress, depression, anxiety and no use of extracurricular activities lead to poor academic performance among students. A study was done to find out relationship between stress and academic achievement of medical students. The results of this study show strong indicators of poor academic performance include high levels of stress, anxiety and use of non-functional coping mechanisms. [26]

Academic stress affects academic performance of students. As stress increases academic performance of the students also increases. A study found positive correlation between stress and academic achievement. Significant difference exists in the academic achievement of students having high,

moderate and less stress. Students with high and moderate stress performed better than the students having less stress. <sup>[17]</sup> Another study also reveals that respondents with a high and severe stress level were observed to have higher CGPA (cumulative grade point average). <sup>[17]</sup>

Some studies also stated that as academic stress increases academic performance of the students decreases. A study was done to assess stress and academic achievement among undergraduate students in university Putra Malaysia. It found that there is a significant but weak negative relationship between undergraduate students' stress level and their academic achievement. [27]

### **Anxiety Due To Academic Stress**

Students with anxiety problems tend show lower levels of academic achievement, self-efficacy, and self-concept. Anxiety reduction requires the work of students. teachers, and parents. Mindfulness Meditation, metacognition, coping, teacher involvement, and test question order are anxiety reduction strategies explored. Problem based learning is a teaching method proven to increase students' levels of positive metacognition. [29]

As students anxiety increases their academic performance decreases. Findings of a study shows that a negative correlation between anxiety, depression, and worry, and academic performance with r = -0.43 for anxiety and depression, and r = -0.42 for worry. As students' levels of anxiety, depression, and worry increased, academic performance decreased. High levels of anxiety and depression also contributed to higher levels of worry in students. [30]

There is no significant difference between anxiety level and the gender of students. Mainly students perceive more anxiety during their examination or test time. A study reported that generally students expressed anxiety during examination which is seen as physiological, psychological and behavioural changes and abnormality. Also, at P <.0.05, chi square

(X2) = 2.144, difference (df) = 3 and P value 0.543, there was no statistical difference between gender and academic performance of students. [31]

Among students self confidence, optimism, family support, peer support etc. plays a vital role in improving academic performance of the students. A study was conducted on Anxiety, Optimism and Academic Achievement among Students of Private Medical and Engineering College and results shows that anxiety had a significant negative relationship optimism and academic achievement, whereas a significant positive relationship was found between optimism and academic achievement. [32]

### **Remedial Measures**

Remedial measures are the coping adopted by the students to strategies decrease stressors the academic performance. improve the academic Remedial measures include Yoga/Meditation, Extracurricular activities, Playing indoor/outdoor games, problems with parents and friends etc. [33]

Leisure participation is considered as an effective remedial measure to reduce stress and anxiety. A study findings revealed that significant relationships existed between leisure participation and leisure satisfaction (P=0.004 <0.05), leisure participation and life satisfaction (P=0.002 <0.01), and leisure satisfaction and life satisfaction (P=0.000<0.01) of university students in Kenya. [34]

Pranayama and aerobics have remarkable effect to relax mind and body. A study results shows that there was significant reduction of anxiety and well being score. [35] Yoga training helped to reduce examination anxiety, depression and academic stress. [36]

Higher time management and lower perceived stress were associated with high levels of academic achievement. However, time management was the most significant predictor of academic achievement and perceived stress. A co relational study was done to assess time Management and its relation to Students' Stress, Gender and Academic Achievement among Sample of Students and the findings of the study showed that there was statistically significant negative relationship between time management and perceived stress. Females reported higher time management compared to their males counter mates. [37]

Progressive Muscle Relaxation is effective in reducing academic stress anxiety and improving academic performance of students. A study was conducted to assess effectiveness of progressive muscle relaxation in reducing academic stress. The results shows that the posts test mean score is significantly lower than pre-test score which clearly proves that Progressive Muscle Relaxation is effective in reducing academic stress in classroom situation for the students. [38]

Another stress reduction techniques were given by Seyedfatemi N & Tafreshi M et al. (2007) experienced stressors and coping strategies among Iranian nursing students and found that majority of the students use the social support strategies, (59.6%), trying to keep up friendships or make new friends" (54.4%); the spiritual strategy, "praying" (65.8%); the seeking diversions strategy, "listening to music" (57.7%),the relaxing strategy dreaming" (52.5%), professional support strategies "getting professional counseling" (74.6%) and "talking to a teacher or counselor" (67.2%) and the humorous strategy "joking and keeping a sense of humor" (51.9%) were used by the nursing students. [39-41]

Conducting assertive training in institutions decreases student's anxiety, stress, and depression. [42,43] College age is most sensitive stages of one's life plus the fact that conducting such training programs besides their safe and low cost nature are effective and practical. [44,45] A study found that a significant difference between the mean score for assertiveness in the experimental group before (101.6  $\pm$  9.1), immediately after (96.47  $\pm$  10.84), and 2 months after (95.41  $\pm$  8.37) implementing

the training program (P = 0.002). There is no significant difference in the mean score for anxiety and stress between two groups before the assertiveness training program; however, 2 months after the intervention, the mean score for anxiety in the experimental group was found significantly lower than the control group. As for the mean score for depression, no significant difference between two groups before training; however, despite the decrease in the mean scores for depression in the experimental following group the difference was intervention, the not significant (P = 0.09). [46]

This is important for a student to use self-care and stress management skills education in nurse preparatory programs for use in both academic preparation and in future careers. [47,48] A study was done to Compare Mental Health Characteristics and Stress between Baccalaureate Nursing Students and Non-Nursing Students and result shows that Nursing students were found to have significantly more stress, anxiety, sleep disturbances, and stress-related illnesses than the general student body. [49-51]

A program of MBSR (mindfulness based stress reduction) was effective when it was used with nursing students in reducing measures of depression, anxiety and stress, and increasing their mindful awareness. [52,53] MBSR shows promise for use with nursing students to address their experience of mild depression, anxiety and stress, and to increase mindfulness in academic and clinical work, warranting further study. [54] A study finding reveals that Compared with participants, **MBSR** participants reported significantly greater decreases in depression, anxiety and stress, and greater increase in mindfulness. [55]

Guided reflection is effective in reducing anxiety in nursing students. <sup>[56]</sup> This method can be used for reducing test anxiety and increasing learning and academic progress among students. <sup>[57]</sup> A study was conducted to assess The effect of guided reflection on test anxiety in nursing

students and shows the Mean  $\pm$  SD of t anxiety scores increased to 36.48  $\pm$  9.34 three months after the intervention in the control group (P = 0.1). However, in the intervention group, the Mean  $\pm$  SD anxiety scores reduced immediately after (16.31  $\pm$  8.61) and three months after (27.72  $\pm$  10.09) the intervention, compared to before the intervention (35.47  $\pm$  10.66) (P < 0.001, paired T-test). [58]

### **CONCLUSION**

In this era of education academic stress, anxiety increases day by day which leads to reduce academic performance due to excessive competition, study of new subjects, change in environment, come far from their homes and family and study in university among nursing Therefore this article also stated that use of remedial measures e.g. yoga, meditation, leisure activities, time management, playing etc. is highly benefited to students to reduce their stress and anxiety and to improve academic performance. This article recommended that the college should environmental arrange the necessary conditions to reduce the student's academic stress and anxiety. The teachers should focus on reducing the academic stress by providing mentors classes, time scheduling activities, changing teaching method and providing extracurricular activities.

### **REFERENCES**

- 1. Von Stumm, Sophie, Hell, Bened. The Hungry Mind: Intellectual Curiosity Is the Third Pillar of Academic Performance. Perspective on Psychological Science 2012 Feb 6 (6), 574-588.
- Abdulghani HM, Al-Drees AA, Khalil MS. What factors determine academic achievement in high achieving undergraduate medical students: A qualitative study. 2014, April; 1(1): 43-48.
- 3. Lorson & Lee, Chi & Lau. Mindfulness for children and youth: A Review of the Literature with an Argument for School-Based Implementation. Canadian Journal of Counseling and Psychotherapy.2012; 46 (3): 201-220

- Juan Xiao. Academic Stress, Test Anxiety, and Performance in a Chinese High School Sample: The Moderating Effects of Coping Strategies and Perceived Social Support.2013; 3(2): 46-68
- Narasappa Kumaraswamy. Academic stress, anxiety and depression among college students- a brief review. International Review of Social Sciences and Humanities. 2013; 5(1) (2013): 135-143
- 6. Stress and education, Available at http://www.psychblog.co.uk/category/app lied-psychology/psychology-and-health
- 7. J. A. Afolayan, 1Bitrus Donald, Olayinka Onasoga et al. Relationship between anxiety and academic performance of nursing students, Niger Delta University, Bayelsa State, Nigeria. 2013; 4(5):25-33
- 8. David Putwain. Researching academic stress and anxiety in students: some methodological considerations. British Educational Research Journal. April 2007; 33(2): 207-219
- 9. Linda M. Moscaritolo. Interventional strategies to decrease nursing student anxiety in the clinical learning environment. Journal of nursing education, 2009, January; Vol. 48 (1)
- Sohail N. Stress and Academic Performance Among Medical Students. Journal of the College of Physicians and Surgeons Pakistan 2013; 23 (1): 67-71
- 11. Kumar Rajesh, Nancy. Stress and coping strategies among nursing students. Nursing and Midwifery Research Journal October, 2011; 7(4)
- 12. Yet-Mee Lim. perceived stress, coping strategy and general health: a study on accounting students in Malaysia. Journal of Arts, Science & Commerce, January, 2013; 4(1):88
- 13. Bhagat Vidya et al. Extroversion and academic performance of medical students. International Journal of Humanities and Social Science Invention. 2013 March; 2(3): 55-58
- 14. Gladys Nakalema, Joseph Ssenyonga. Academic Stress: Its Causes and Results at a Ugandan University. African journal of teacher education, 2013; 3(3)
- 15. Bhupinder Pal Singh. Study and analysis of academic stress of B.Ed. students. International Journal of Educational Planning & Administration. 2011 February; 1(2): 119-127

- 16. Wycliffe Yumba et.al. A study to assess major sources of academic stress among undergraduate students. Available athttps://www.divaportal.org/smash/get/diva2:556335/FULL TEXT01.pdf
- 17. Harlina H Siraj, Salam Aa et. al (2013) A study to determine stress and its association with the academic performance of undergraduate fourth year medical students at university kebangsaan Malaysia. The International Medical Journal Malaysia, June 2014;13(1): 19-24
- 18. Chernomas WM, Shapiro C et.al.Stress, depression, and anxiety among undergraduate nursing students. Int J Nurs Educ Scholarsh. 2013 Nov 7; 10.
- 19. Mosley Jr. et al. A study to assess stress, coping, depression, and somatic distress among medical students at the University Of Mississippi School Of Medicine. July,2003; 21(2): 10-15
- 20. Supe et.al. A study of stress in medical student at Seth GS Medical College. Journal of Postgraduate Medicine, January, 2002; 44(1):1-6
- 21. Polus-Szeniawska, Kocanda. The psychophysical stress among students of secondary schools during the years of education. International Journal of Stress Management Febuary, 2006;11(3):183-191
- 22. Misra, McKean. College students' academic stress and its relation to their anxiety, time management, and leisure satisfaction. American Journal of Health Studies, 2000; 16(1):41
- 23. Misra et al. Academic stress of college students: Comparison of student and faculty perceptions. College Student Journal, 2000; 34(2): 236-245
- 24. Misra Ranjita, Castillo G. Linda. Academic stress among college students: comparison of American and International students. International Journal of Stress Management 2004;11(2):132–148
- 25. Akbar Hussain, Ashutosh Kumar et.al. Study on academic stress and adjustment among high school students. Journal of the Indian Academy of Applied Psychology, April 2008; 34 (Special Issue): 70-73.
- 26. Gwedolyn Tchen, Annie Carter et.al. What is the relationship between indicators of stress and academic performance in first year university students? A prospective study. Available

- http://www.aair.org.au/app/webroot/medi a/pdf/JIR/JournalofInstitutionalResearchi nAustralasiaandJIR/Volume2010,No.202 October2001/Tchen.pdf
- 27. Kumari Rajni, Radhakanta Gartia. Relationship between stress and academic achievement of senior secondary school students. Asian Journal of Multidimensional Research 2012, August; 1 (3)
- 28. Habibah Elias, Wong Siew Ping et.al Study on stress and academic achievement among undergraduate students in university putra Malaysia. Procedia Social and Behavioral Sciences, December, 2011; 29:646-655.
- 29. Affum-Osei Emmanuel et. al. (2014) Study on perceived stress and academic performance of senior high school students in western region, Ghana. European Journal of Business and Social Sciences, February, 2014; 2(11): 88-101
- 30. Cassie Dobson et.al. Effects of academic anxiety on the performance of students with and without learning disablities and how students can cope with anxiety at school. Available athttps://www.nmu.edu/education/sites/Dru palEducation/files/UserFiles/Dobson\_Cas sie\_MP.pdf
- 31. Smita Shinde, Supriya Divekar, Savita kittad et al. Effects of pranayama and aerobic exercise on anxiety status of medical students. International Journal of Recent Trends in Science And Technology, 2014;11(2):214-217
- 32. East Tennessee State University, undergraduates. A study on stress relief habits and perceived stress among college nursing students. Available-at http://dc.etsu.edu/cgi/viewcontent.cgi?arti cle=1096&context=honors
- 33. Indoo Singh, Ajeya Jha et.al. A Comparative Study on Anxiety, Optimism and Academic Achievement among Private Students of Medical and of Engineering College. Journal & Educational Developmental Psychology, May, 2013; 3(1):222.
- 34. Wendy Rop et.al. A study on assessment of use of leisure time among undergraduate students in university of Eldoret town Kenya. 2013; 3(3): 76-82
- 35. Patil Usha et.al. Effects of pranayama and aerobic exercise on anxiety status of medical students. International Journal of

- Recent Trends in Science And Technology, 2014; 11(2): 214-217
- 36. Pant Gaurav, Bera T. K, Shete Sanjay Uddhav et.al Study on yoga for controlling examination anxiety, depression and academic stress among students appearing for Indian board examination. International Journal of Recent Scientific Research, June,2013; 5(3):45-57
- 37. Ahmad Saleh Al Khatib et.al. Time Management and Its Relation to Students' Stress, Gender and Academic Achievement among Sample of Students at Al Ain University of Science and Technology, UAE. International Journal of Business and Social Research (IJBSR), May, 2014; 4(5): 47-58
- 38. Praseeda P. Nair, Dr. K.P. Meera. Effectiveness of Progressive Muscle Relaxation in Reducing Academic Stress of Secondary Schools Students of Kerala. IOSR Journal Of Humanities And Social Science (IOSR-JHSS) August 2014; 19(8): 29-32
- 39. Seyedfatemi N., Tafreshi M et al. Experienced stressors and coping strategies among Iranian nursing students. November, 2007;6(11): 1-12
- 40. Carragher J, McGaughey J. The effectiveness of peer mentoring in promoting a positive transition to higher education for first-year undergraduate students: a mixed methods systematic review protocol. BioMed Central. Apr 22,2016;5(1):68
- 41. Spadaro KC, Hunker DF et at. Exploring The effects Of An online asynchronous mindfulness meditation intervention with nursing students On Stress, mood, And Cognition: A descriptive study. J Nurs Educ. Today.2016 Apr;39:163-169.
- 42. Eslami AA, Rabiei L, Afzali SM, Hamidizadeh S, Masoudi R et.al. The Effectiveness of Assertiveness Training on the Levels of Stress, Anxiety, and Depression of Students. Iran Red Crescent Med J. 2016 Jan 2; 18(1).
- 43. Bartlett ML, Taylor H, Nelson JD et.al. Comparison of Mental Health Characteristics and Stress between Baccalaureate Nursing Students and Non-Nursing Students. J Nurs Educ. Feb 2016, 55(2):87-90.
- 44. Song Y, Lindquist R et.al. Effects of mindfulness-based stress reduction on depression, anxiety, stress and

- mindfulness in Korean nursing students. Nurse Educ Today. 2015 Jan; 35(1):86-90.
- 45. Sharif F, Dehbozorgi R, Mani AVossoughi et.al. The effect of guided reflection on test anxiety in nursing students. Nurs Midwifery Stud. 2013 Sep; 2(3):16-20.
- 46. Battle, J., & Lewis, M. The increasing significance of class; The relatives effects of race and socioeconomic status on academic achievement. Journal of Poverty. 2002; 6(2), 21-35.
- 47. Saxton, J. Investment in education: Private and public returns. 2000. Available from http://www.house.gov/jec/educ.pdf.
- 48. *Dewey John*, Douglas J. Simpson. John Dewey's Concept of the Student. Canadian Journal of Education 2001; 26(2), 183-200.
- 49. Early childhood care and education: Education for All Global Monitoring Report - Unesco Available atwww.unesco.org/education/gmr2008/chap ter2.pdf
- 50. Early Start: Preschool Politics in the United States Available athttps://books.google.co.in/booksisbn
- 51. CARE College of Nursing, Begumpet CARE Foundation Available at-http://carefoundation.net.in/index.php/edu cation-main/courses/nursing/b-sc nursing/care-college-of-nursing-begumpet.html
- 52. Florence Nightingale: History of Nursing Available at

- http://www.historybits.com/florence-nightingale.html
- 53. Natalie Skead, shane rogers et.al (2013) conducted a study on stress, anxiety and depression in law students: how student behaviours affect student wellbeing. Available athttps://www.monash.edu/\_\_data/assets/pdf\_file/0016/232504/skead.pdf
- 54. Elegbeleye. Stress management techniques adopted by University undergraduates of the Obafemi Awolowo University in coping with the academic rigours encountered in the process of studying for a degree course. 2004; 5(2):23-30.
- 55. Yunsheng Bai. The Argumentative Essay for Writing 120: Parental Control in Chinese Students' Study. Available athttps://yunshengbai.wordpress.com/the-argumentative-essay/
- 56. Polus-Szeniawska, Kocanda. The psychophysical stress among students of secondary schools during the years of education. International Journal of Stress Management February, 2006; 11(3):183-191.
- 57. S. Menaga, V. Chandrasekaran et.al (2014) a study to assess academic stress of higher secondary school students. Journal for Interdisciplinary studie, Sept-October, 2014; 2(14):1973-81.
- 58. Victor Mlamblo. A study on analysis of some factors affecting student academic performance in an introductory biochemistry course at the University of the West Indies. November 2011; 1(2): 79-92

How to cite this article: Sharma B, Kumar A, Sarin J. Academic stress, anxiety, remedial measures adopted and its satisfaction among medical students: a systematic review. Int J Health Sci Res. 2016; 6(7):368-376.

\*\*\*\*\*