Review of the impact of stress management training on college students' academic performance and mental health

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Abstract - In order to improve one's overall well-being, these psychological treatments aim to do many things. The study's goal was to determine whether and how stress-reduction programmes at Osmania University improved students' mental health and school performance. A control group and pre- and post-tests were part of the quasi-experimental methodology used. This is why we split 40 students from Tehran's Osmania University into two groups, an experimental group and a control group, using a convenience sampling technique. "Both groups were given a pre-test consisting of 84 questions on mental health and academic vigour using two separate questionnaires. Then, the test group participated in 10 sessions of stress management training while the control group got no treatment. After collecting post-test results from both groups, we examined them using descriptive and inferential statistics in SPSS-26. The results demonstrated that students' academic liveliness and psychological well-being improved considerably after receiving training in stress management skills (p 0.001). This research indicated that teaching the skills for dealing with stress was an effective technique to help students exposed to high stress and pressure due to its high efficiency, especially when held in groups, its cheap cost, and its acceptability by the people.

Keywords - students' mental health, students' academic success, and stress management courses are some of the outcomes.

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INTRODUCTION

Education-related stress causes health problems that impair pupils' ability to study. Therefore, it was crucial to consider the aspects that can improve the students' physical and mental health by influencing their agreeableness and increasing their good psychological moods. Academic vigour is one of the main determinants of a person's resilience to the challenges of the modern educational system .Academic vitality refers to the ability to overcome the many obstacles one may encounter when studying. Having a strong feeling of inner vitality is characterised by one's tendency to act on impulse, rather than out of habit or habitual routine. The literature assessment of the studies conducted in Iran revealed a dearth of research on the elements encouraging academic vitality, despite the relevance of this variable in the effective confrontation of the hard academic time. Therefore, the importance of the present study was elevated by the necessity to try to fill this knowledge void.

The mental health of kids is another essential factor in their success in school. Purpose in life, meaningful relationships, personal development, self-

acceptance, autonomy, and mastery of one's surroundings are all parts of the psychological wellbeing factor. Having a goal and working toward it is what gives life meaning .In order to have good relationships with people, you need to show warmth, satisfaction, confidence, and empathy .To grow as a person is to feel that you can and will continue to develop your skills and knowledge .Positivity and acceptance of one's many facets constitute what is known as self-acceptance .What we mean by "autonomy" is the capacity to make decisions for oneself and evaluate performance based on one's own standards of success. Furthermore, environmental mastery involves feeling competent and having the capacity to control the complicated world around.

However, life skills education is one of the most influential factors in people's mental health and happiness .Many colleges and universities now include courses in stress management and other "life skills" in an effort to improve their students' physical and mental well-being ."The World Health Organization's primary motivation for promoting a life skills curriculum is in the domain of mental health". As a result, several groups work to

encourage the spread of and assessment of life skills education programmes across the globe. Its goal is to help people of all ages improve their cognitive talents, including those needed for solving problems, managing emotions, being more self-aware, getting along with others, and dealing with stress. Among the list of life skills, teaching kids how to cope with difficult situations is crucial. "Students' positive psychological states, in particular their energy and mental well-being, were deemed to be significantly boosted by learning stress management techniques". Therefore, the purpose of this research was to determine whether or not teaching students to cope with stress had a positive influence on their academic performance and mental health while attending Osmania University.

METHODOLOGY

The research design included a quasi-experimental pre- and post-test. All of the students at Osmania University in Tehran in the autumn of 2015 were included as part of the study's analytical community. In experimental investigations, a group size of 15 participants was shown to be optimal for calculating the sample size ."The initial sample size for each group was 15, and this was later increased. The sample size of 20 persons (n = 20) was then examined for each group in order to boost statistical power and control the potential drop in the number of participants". Students at Osmania University were invited to participate in a non-random, voluntary sample. Informed permission and a desire to engage in the study were required, as were attendance at all and cooperation in completing sessions assignments and instruments, as well as participants being between the ages of 18 and 35. Participants were disqualified if they did not meet one or more of the following criteria: they did not want to participate in the sessions, they missed more than three classes using the preparation method, they did not cooperate in completing assignments, and they were receiving psychological treatment or education outside of the scope of this study.

The research included selecting a subset of Osmania University students at random, with their consent; if they matched the study's inclusion requirements, they were then randomly allocated to one of two groups (experimental or control). Since it was important to respect ethical issues, all participants were given detailed information about the study's goals and the potential benefits to their mental health before giving their informed permission and the experiment began. After that, the researcher gathered the participants' information and promised them their privacy would be protected. "Thereafter, 10 sessions of stress management training were provided to the experimental group whereas the control group got no treatment. Both groups were given a posttest at the conclusion.

The protocol of stress management training sessions is presented in Table

Table 1: Protocol of stress management skills training sessions

Session	Subject					
First	Acquaintance of group members, practicing acquaintance, introducing stress, stress creating factors and responses to stress, and getting to know the physical effects of stress					
Second	Raising awareness of the effects of stress and understanding the importance of this awareness an increasing awareness of the physical responses related to stress creating factors					
Third	Explaining the relationship between thoughts, emotions, and physical senses, and providing numerous examples in different positions					
Fourth	Introducing and identifying the common types of negative thoughts and cognitive distortions					
Fifth	Challenging the common negative thoughts and cognitive distortions and replacing irrational thoughts with rational ones					
Sixth	Instruction, practicing, and implementing effective coping strategies					
Seventh	Continuing the training, practicing, and implementing of effective coping strategies					
Eighth	Training and discussion about anger management, assertiveness, time management, and recording daily events					
Ninth	Learning to use problem-solving skills in conflicts, discussing about the skills of saying "No", and delegating authority					
Tenth	Learning the importance and understanding the benefits of social protection and an overview of the program					

Research instruments included a demographic questionnaire, an academic motivation test, and a psychological well-being scale (PWBS-18)". Statistics on a single page the demographics page included questions on age, gender, education level, and marital status, among others. The study's researchers built and analysed the fictitious website.

Dehganizadeh MH, Hosseinchari M, and Martin AJ (2006) developed "the Academic Vitality Scale, from which Dehganizadeh MH and Hosseinchari (2012)derived the Academic Questionnaire". After numerous revisions of the items were applied, the questionnaire settled on its current form with 10 questions. In a pilot research with 186 high school students chosen by cluster randomization, the aforementioned questions were put through further testing to establish their psychometric properties. The findings showed that when item 8 were removed from the set, "the Cronbach's alpha was 0.80 and the retest coefficient was 0.73. The correlation between each element and the final score also ranged widely, from 0.51 to 0.68". In light of these results, it would seem that the items were both reliable and consistent.

Each and every one of the goods was dependable and constant.

Riffe's scale for measuring psychological health "consisted of 84 questions, each on a Likert scale ranging from 1 to 7. (Ranging from "strongly disagree" to "agree strongly"). Meaning in life, positive connections, personal growth, selfacceptance, independence, and perceived control over one's environment were the six domains examined in this self-report questionnaire on mental health. The estimated internal consistency coefficients for the different sections of this questionnaire fall in a range from 0.83 to 0.91. Cronbach's alpha for the derived psychological well-being measure was 0.81, according to research by Mohammadpour and Joshanloo (2014) .Similar results were obtained on the subscales evaluating self-compliance,

environmental mastery, personal growth and development, connection with others, life's purpose, and self-acceptance (scores of 0.60, 0.64, 0.58, 0.65, and 0.61, respectively). Kafka and Kozma (2002) performed a study to test the reliability of the items on Riffe's scale of psychological well-being. The findings demonstrated a robust relationship between this indicator and the subjective well-being (SWB) and contentment with life (SWL) scales (SWLS). When using the Cronbach's alpha formula to the study's index of psychological well-being, the coefficient of reliability comes out to be 0.81, suggesting high levels of internal consistency. In addition, on the test's subscales evaluating selfcompliance, environmental mastery, personal growth and development, relationships with others, the purpose in life, and self-acceptance, the participants earned scores of 0.60, 0.64, 0.54, 0.58, 0.65, and 0.61, respectively.

SPSS-26 was used to analyse the data. Mean, standard deviation, frequency, and frequency percentage indices were computed for descriptive statistics, while univariate and multivariate analysis of covariance models were used for inferential statistics".

FINDINGS OF THE RESEARCH

Thewriters are grateful to the respected administration of Tehran's Osmania University for their help. The authors would also want to express their gratitude to everyone who took part in the research.

Table Comparison of the two groups' pre- and posttest results on measures of academic and mental health, with descriptive statistics

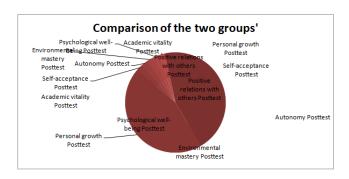
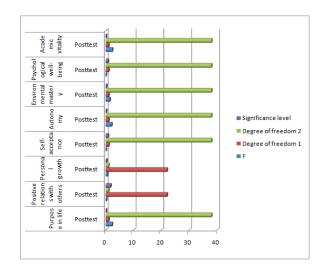


Table 2 shows that the null hypothesis that there is no difference between the two groups in the variances of academic vitality and psychological well-being is supported by the data. This result indicated there was no statistically significant difference between the two demographic groups with regard to academic vigour and psychological well-being. The study hypothesis data allowed for a covariance analysis since the Levene assumption was met.

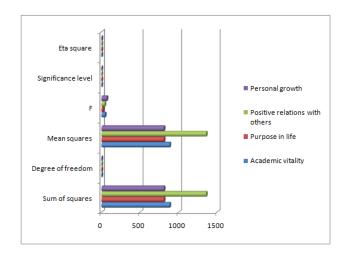
Table 2: "Results of Levene test for the examination of the consistency of variances of academic vitality and psychological well-being

variables with its components in the posttest stage



As there was a statistically significant difference between the two groups and at least one dependent variable, as shown in Table 5 (p 0.001). (Academic vitality and psychological well-being with its components). Additionally, the eta square indicated that 0.89 percent of the observed variations across subjects might be attributed to the impact of the intervention technique (stress management skills training)". However, because the statistical power was more than 0.80 (at 0.95) the sample size was enough for the study. Listed below are the findings about differences that are statistically significant across all dependent variables.

Table 3: "Findings from a multivariate examination of correlation between post- and pre-test scores on the academic vigour and mental health scale

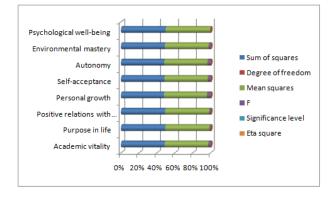


As shown in Table 6, the hypothesis that there is a difference between the two groups with respect to academic vitality and psychological well-being and its components was validated at the p 0.001 level of significance. Scores on measures of academic vitality, purpose in life, positive relationships, personal growth, self-acceptance, autonomy,

environmental mastery, and psychological well-being were found to shift by 0.54 percentage points, 0.25 percentage points, 0.64 percentage points, 0.60 percentage points, 0.45 percentage points, and 0.81 percentage points, respectively, as a result of the independent variable (stress management skills training). Hence, it might be concluded that training in stress management skills improved academic vitality and psychological well-being in all of their component parts.

Table 4: Multivariate analysis of covariance findings on the effect of stress management training on posttest levels and components of psychological well-being

Index	Sum of squares	Degree of freedom	Mean squares	F	Significance level	Eta square
Academic vitality	883.601	1	883.601	45.472	0.001	0.545
Purpose in life	810.003	1	810.003	19.585	0.001	0.341
Positive relations with others	1357.225	1	1357.23	42.097	0.001	0.526
Personal growth	810.001	1	810.001	67.574	0.001	0.64
Self-acceptance	1113.025	1	1113.03	70.287	0.001	0.649
Autonomy	792.1	1	792.1	55.761	0.001	0.595
Environmental mastery	1188.1	1	1188.1	51.363	0.001	0.575
Psychological well- being	36007.001	1	36007	212.607	0.001	0.848



DISCUSSION AND CONCLUSIONS

The purpose of this study was to determine whether or not teaching students how to deal with stress would have a positive effect on their academic performance and mental health, and the results of both the univariate and multivariate analysis of indicated covariance that teaching management skills did have such an effect. The results showed that training in stress management skills significantly improved students' performance in the classroom. Habibi M. (2015), A. Pakdaman, K. Ganji, M. Ahmadzadeh, and Z. Shirbim and M. Sudani and A. Shafi-Abadi (2008) all found similar results".

Life skills training helped enhance the scholastic circumstances of the subjects, as was also explained by Pakdaman A, Ganji K, Ahmadzadeh M (2012), who came to a similar conclusion. This was also due to the training, which helped pupils develop new abilities, gain insight into their own strengths and shortcomings, and make strides toward being more self-reliant. This might lead to improved facilities for

teaching and learning for the pupils. Shafi-Abadi (2008) explains their comparable result by saying that training life skills, such as stress management skills, is one method to promote the mental health of the people in the society and to avoid damages. Indeed, these teachings safeguarded the society's health and mental hygiene, preventing the spread of sickness, disability, and social unrest. This led to an uptick in people's feelings of safety and togetherness in the community, which in turn boosted their optimism, energy, and well-being.

The results indicated that teaching people how to deal with stressful situations had a major effect on their mental health. Similar explanations were provided for their results, in which they concluded that dealing with many pressures necessitated the acquisition of new coping mechanisms. That is to say, people need to know how to handle pressure and use appropriate coping strategies in order to better deal with the demands of their daily lives and the stresses they inevitably encounter. management intervention Therefore. stress resulted in the development of positive selfevaluations and improved performance in the predictable environment. It sparked people's curiosity and sparked their drive, all while boosting their own sense of worth. In turn, this enhanced people's emotional health.

Similarly, Chubforushzadeh A, Kalantari M, Molavi H (2009) explained their conclusion by saying that stress management therapies alter the patient's outlook on life in a number of ways". Therefore, it may be possible to reduce stress and improve mental health by helping people refine their self-assessments and coping strategies and by giving them opportunities to put their newly acquired knowledge into practise in realistic settings.

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REFERENCES

- Purabdul S, Subhi-Gharamaleki N, Abbasi M. Comparing academic procrastination and academic vitality in students with and without specific learning disorder. *Journal* of Learning Disabilities. 2015;4(3)
- Dehqanizadeh MH, Hosseinchari M. Academic vitality and perception of family communication patterns; the intermediary role of self-efficacy. *Journal of Teaching* and Learning Studies. 2012;4(2)
- 3. Vazquez C, Hervas G, Rahona JJ,

- Gomez D. Psychological well-being and health. Contributions of positive psychology. *Ann Clin Health Psychol.* 2009;5:15–27.
- 4. Mohammadpour S, Jooshanlou M. The relationship between generalized anxiety disorder and obsessive-compulsive personality disorder with psychological wellbeing in students: The mediating role of passionate, obsessive love. *J Rafsanjani Univ Med Sci.* 2015;14(5):353–366.
- Wenzel V, Weichold K, Silbereisen RK. The life skills program ISPY: Positive influences on Scholl bonding and prevention of substance misuse. *Journal of Adolescence*. 2009;32:1391–1401.
- J. Ashwini Assistant professor, Vivek vardhini School Of Business Management, Jambagh, Koti, Hyderabad Review Literature on
- 7. Ravichandran, L. J. Soundara Rajan, G. Bala Sendhil Kumar (2015), "A Study on Job Satisfaction of Employees ofManufacturing Industry in Puducherry, India", International Journal of Innovative Research and Development, Vol: 4,Issue:2, pp:344-349.
- 8. Abdul Kadar Muhammad Masum, Md. Abul Kalam Azad and Loo-See Beh (2015), "Determinants of Academics' JobSatisfaction: Empirical Evidence from Private Universities in Bangladesh", PLOS ONE Journal, Vol: 10, Issue: 2.(Available onlineat:journals.plos.org/plosone/article?id).
- AndrewClark,AndrewOswald&PeterWarr(199 6), "IsJobSatisfactionU-ShapedinAge?",JournalofOccupationalandOr ganisational Psychology, Vol:69, pp:57-81.
- Daniela Nescoi (2011), "Stress and Job Satisfaction among University Teachers", International Conference of Scientific Paper, pp:320-325.
- 11. Dessler(2005), "HumanResourceManagemen t", PearsonPrenticeHall, PearsonEducationInc; India, pp.410.
- 12. Dr Naveen Prasadula (2019) A PHD Thesis of "IMPACT OF RESPONSIVE PROJECT MANAGEMENT OF INDIAN ELECTRICITY UTILITIES" from JIWAJI State University GWALIOR.
- InduBhushanLal, Vibhawendra Pathak & ShivK ant Kumar (2015), "A Study of Job Satisfaction in Software Industry – Myths and Realities", International Journal of Emerging Research

- in Management &Technology, Vol. 4, Issue: 5, pp:43-49.
- 14. L. Price (1997),Handbook J. Ωf Organisational Measurement, International Journal of Manpower, 303pp. 558.NabizadehTahere,GharibTarzehZahra,D orbanaiFateme&YaghoobiJamiAsma(2012)," InvestigatingtheEffectsofJobExperience,Satis and Motivation on Organizational Commitment CaseStudy: TheNurses ofGhaemHospital in Mashhad, Iran", ResearchJournalof Recent Sciences, Vol:1, Issue:7, pp:59-67.
- NitinNayak&MadhumitaNayak(2014), "AStudy JobSatisfactionAmongUniversityTeachersInI ndia", TheCluteInstitute International AcademicConference, Orlando, Florida, USA.
- M. M. Petty, G. W. Mcgee, D. E. Gail, & J. W. Cavender (1984), "A Meta-analysis of the Relationships betweenIndividual Job Satisfaction and Individual Performance", Academy of Management Review, Vol. 9, Issue: 4, pp. 712-721.
- 17. PeterWarr(1992), "Age andOccupationalWellbeing",PsychologyandAging,Vol:7,Issue:1, pp:37-45.
- 18. Shabani M, Moghimi M, Zamiri RE, Nazari F, Mousavi Nasab N, Shajari Z. Life Skills Training Effectiveness on Non-Metastatic Breast Cancer Mental Health: A Clinical Trial. *Iran Red Cres Med J.* 2014;16(1):e8763.
- Delavar A. Research Methods in Psychology and Educational Sciences. Tehran: Edited Press; 2007.
- Sirigatti S, Penzo I, Giannetti E, Casale S, Stefanile C. Relationships between humorist profiles and psychological wellbeing. Personality and Individual Differences. 2016;90:219–224.
- 21. Habibi M. The effect of cognitive-behavioral stress management training on reducing academic stress caused by personal expectations and the expectations of parents in students. *School Psychology*. 2015;4(2):22–38.
- 22. Pakdaman A, Ganji K, Ahmadzadeh M. The effect of teaching life skills on achievement motivation and academic achievement of students. Social Welfare. 2012;12(47):245–265.
- 23. Shirbim Z, Sudani M, Shafi-Abadi A. The

- effectiveness of teaching stress management skills on improving the mental health of students. *Thought and Behavior*. 2008;2(8):7–18.
- 24. Martin AJ, Marsh HW. Academic buoyancy and its psychological and educational correlates: A construct validity approach. *Psychology in the Schools.* 2006;43(3):267–282.
- 25. Qadiri-Bahramabadi F, Mikaeli-Manee F. The effectiveness of cognitive-behavioral stress management training on psychological well-being and school satisfaction of teenage girls. *Armaqan-e Danesh.* 2015;20(5):433–443.
- Qanbari N, Habibi M, Shams-Aldini S. The effectiveness of cognitive-behavioral stress management on promoting the psychological, emotional, and social well-being of homesick students. Quarterly of Clinical Psychology. 2013;5(1):1–10.
- Khalatbari J, Azizzadeh-Haqiqi F. The impact of life skills training and stress management strategies on the mental health of female university students. Knowledge and research in applied psychology. 2011;2(12)
- Alavi-Arjmand N, Kashaninia Z, Hosseini MA, Reza-Soltani P. A review of the effect of stress management on work stress and work-life conflict among nurses. *Journal of Nursing and Midwifery, Tehran University of Medical Sciences.* 2012;18(4):81–91.
- 29. Chubforushzadeh A, Kalantari M, Molavi H. The effectiveness of cognitive-behavioral stress management on the subjective well-being of infertile women. *Quarterly of Clinical Psychology.* 2009;1(4):1–9.

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