Review Article

Effectiveness of Dance and Movement Therapy (DMT) and Progressive Muscle Relaxation (PMR) on Depression and Quality of Life (QOL) among elderly: A Systematic Review

Prakash Jha¹, Srinivasan P.², Uma J. Deaver³

¹Department of Mental Health Nursing (M.sc Nursing student), ²Department of Mental Health Nursing (Associate Professor), ³Department of Community Health Nursing (Professor) Maharishi Markandeshwar College of Nursing, Mullana, Ambala, Haryana, India

Corresponding Author: Prakash Jha

ABSTRACT

Background: Physical as well as psychological interventions such as dance and movement therapy and progressive muscle relaxation may reduce depressive symptoms both in healthy aged populations and in elderly, but few specific analysis were conducted on the efficacy of dance and movement therapy and progressive muscle relaxation as an adjunctive treatment which may be probably more useful in clinical practice, considered the high prevalence of treatment resistant depression, the low cost and safety of physical activity interventions. With this background, systematic literature search and Meta- Analysis was carried out.

Objective: To establish the new findings on the effectiveness of dance and movement therapy and progressive muscle relaxation on depression and quality of life among elderly, with particular focus on the efficacy of the dance and movement therapy and progressive muscle relaxation as an adjunctive treatment.

Methodology: The search of significant articles was carried out in Pub Med/Medline, SCOPUS, CINAHL, PsycINFO, Embase, Elsevier and Google Scholar with the following key words: "depression", "quality of life", "dance and movement therapy", "progressive muscle relaxation". Systematically searched for studies including depression and quality of life among elderly of age 60 years and above.

Inclusion criteria: The included studies were evaluated according to predefined quality criteria.

Exclusion criteria: the study excludes the studies those discussed about the other method to deal with depression and quality of life among elderly.

Results: 35 papers were retrieved by the search. Among the 26 were evaluated to be of higher quality. Studies recruiting samples of elderly with a mild depressive disorder, moderate or severe cognitive impairment or those who were dependent on care were insufficient.

Conclusion: Depression has also been shown to be associated with various psychosocial factors, lifestyle and dietary factors, and presence of chronic physical illness. There are very few therapeutic interventions. The efficacy of dance and movement therapy and progressive muscle relaxation on depression and quality of life among elderly, due to persistent lack of high quality research, in part to clinical issues of management of depression to establish effectiveness of exercise on depressive symptoms.

Key Words: Elderly, Depression, Quality of Life, Dance and Movement Therapy, Progressive Muscle Relaxation

INTRODUCTION

Depression is a situation where a person feels enormously sad, distressed and

hopeless with little to no energy for normal physical or mental activities. It is

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accompanied by a feeling of loss of guilt and lowering of self-esteem. [1]

The aim of the study was to find out the debilitating factors causing the increase in the prevalence of depression and poor quality of life and the effects of dance and movement therapy and progressive muscle relaxation. [2]

However, there is lack of data on symptom profile and limited data is available on various therapeutic interventions for the management of depression among elderly. [2]

Based on the research evidences the researcher has done the systematic review and meta-analysis study on depression and quality of life among elderly and the effects of physical exercise. The review of literature was arranged under two sections.

MATERIALS AND METHODS

Relevant articles based on the topic of depression, quality of life and the effects of dance and movement therapy on elderly were identified by search of significant Pub Med/Medline, SCOPUS. CINAHL, PsycINFO, Embase, Elsevier and Google Scholar with the following key words: "depression", "quality of life", "dance and movement therapy", "progressive muscle relaxation".

INCLUSION:

The included studies were evaluated according to predefined quality criteria. Data not pertaining to depression and quality of life were excluded. Information from these 26 studies was extracted.

EXCLUSION:

The study excludes the studies those discussed about the other method to deal with depression and quality of life among elderly.

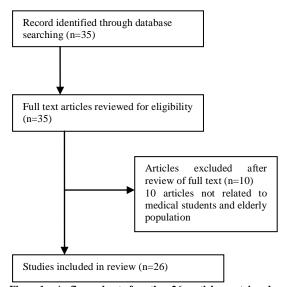


Figure 1: A flow chart for the 26 articles retrieved and reviewed for this research strategy in the depression and quality of life

Literature related to depression and quality of life among elderly

All of the articles based depression and quality of life among elderly were checked based on the inclusion and exclusion criteria. Depression is most prevalent global health problem among every individual. It affects mainly age group of 60-80 years. Each study was reviewed by independent researchers and any case of disagreement was sorted. Result revealed that depression and OOL was clearly describes in sixteen studies, which fulfilled inclusion criteria. There were eleven (68.75%) cross sectional studies that shows depression level is common among elderly population that also affects the quality of life among elderly [4-12] one of retrospective studies (6.25%) that shows the prevalence of depressive disorder which shows 21.9% Indian population is suffering from [12] depressive disorder, two were descriptive studies (12.5%) which shows that depression is more prevalent among elderly aged 60 years and above and most of elderly were having fair quality of life and poor quality of life [13] along with one systematic review and one is pilot study (6.25%) [14] that showed maximum number of elderly were having mild to moderate level of depression whereas very few elderly were having severe depression, and there are majority of elderly were having poor quality of life among elderly. It has been considered that prevalence of depression is more among females as compared to males. It is also seen that elderly residing in old age homes are more prone to depression and poorer quality of life than those staying in day care centres.

Literature related to Dance and movement therapy and Progressive muscle relaxation on depression and quality of life.

There are very few studies that are carried out to find out the effects of dance and movement therapy and progressive muscle relaxation in developing countries like India. But in developed countries these therapies have been regularly used in clinical. So based on this there are few study which had showed the effect of therapies is been discussed. Our literature search yielded nine studies about dance and movement therapy and progressive muscle relaxation on depression and quality of life among elderly. Each study was reviewed by independent researchers. Result revealed that effects of dance and movement therapy and progressive muscle relaxation on depression and QOL was clearly describes in ten studies, which fulfilled inclusion criteria. There were three (30%) quasi experimental studies [16-17] one prospective study (10%), [19] two were randomized [19] controlled trial (20%), two were systematic- meta analysis study (20%), [20] two were experimental study (20%), [22,23] These articles reviewed that dance and movement therapy and progressive muscle relaxation is effective in reduction of depression level and improves the quality of life among elderly.

Based on the above research evidences it has been identified that Dance and movement therapy and progressive muscle relaxation is a cost effective and efficient procedure that is performed to reduce depression and improving quality of life. Dance and movement therapy is also beneficial in reducing anxiety, depression, and thus helping in improvement of quality

of life and cognitive functions of the every individual.

SAMPLE REVIEW:

cross-sectional study Α was conducted on depression among elderly in old age home of Briddashram living in Devghat area Nepal. Total 185 subjects were taken for the study by convenient sampling of those aged 60 years and above and the data was collected by Geriatric Depression Scale (GDS) by face to face interview method. Thus the result of the study showed that Mean age of the subjects was 73.67 years old, S.D is (± 3.23) and 51% were male and maximum number (94%) elderly belong to Khas ethnicity. Whereas nearly one third (31%) elderly were from nuclear family back ground, 25% were married, and only 18% elderly were literate. Maximum number of the elderly (93%) had health problems and self reported health shows 86% elderly reported their health fair. The study shows mean functional disability score was 2.53 (± 2.05) thus prevalence of depression was 57.8% in elderly. Out of which 46.7% had mild, 8.9% had moderate and 2.2% had severe depression. Study also elderly concluded that living Briddashram are suffering from depression. So it is necessary for concerned authority for their interruption so that depression can be reduced and quality of life can be improved among elderly. [24]

A randomized control trial study was conducted to evaluate the effects of dance on depressive symptoms institutionalized older adults aged 60 years and above in nursing homes of 7 NHs in the Czech Republic. Total of 1278 eligible individuals were included in the study with the help of probability sampling technique. The data was collected by using GDS scale to assess the depression among elderly and MMSE for cognitive disability. The results showed comparison of participants with MMSE of 15 or higher showed that GDS in the intervention scores significantly improved (P = 0.00), whereas the control group had a trend of further worsening of depressive symptoms (P =

0.08). So the study concluded that dance based exercise can reduce the amount of depressive symptoms in nursing home residents as this form of dance seems to be very suitable and beneficial for this population. [25]

CONCLUSION

Depression is most prevalent global health problem among every individual. It affects mainly age group of 60-80 years. It has been considered that prevalence of depression is more among females as compared to males. Dance and movement therapy is also beneficial in reducing anxiety, depression, and thus helping in improvement of quality of life and cognitive functions of the every individual.

REFERENCES

- Barua A, Ghosh M, Kar N, Basilio M. Distribution of depressive disorders in the elderly. Journal of Neurosciences in Rural Practice. 2010;1(2):67-73. doi:10.4103/0976-3147.71719.
- 2. Sekhon H. A Study of Depression in Geriatric Population in a Rural Area of North India. Scholars Academic Journal of Biosciences (SAJB).2015;3(1A): 26-29.
- 3. H. Sivertsen, A. Helvik, K. Engedal. Depression and Quality of Life in Older Persons. Int J Geriatr Psychiatry. 2015;40((5-6)): 311–339. doi: 10.1159/000437299.
- 4. Vanková, H et. al. The Effect of Dance on Depressive Symptoms in Nursing Home Residents. J Am Med Dir Assoc. 2014 Aug;15(8):582-7
- 5. Anita Goyal and K. S. Kajal. Prevalence of Depression in Elderly Population in the Southern Part of Punjab. Journal of family medicine and primary care:2014;3(4):359-361.
- 6. Thilak SA, Sarada AK, Neloopant SA. Prevalence and factors associated with depression among the elderly in rural areas of Kannur, North Kerala, India: a cross sectional study. International journal of community medicine and public health. 2016;3(8):1986–91.
- 7. Behera P, Sharan P, Mishra AK. Prevalence and determinants of depression among elderly persons in a rural community from northern India. The National Medical Journal of India. 2016;29(3): 129-135.

- 8. Sengupta P, Benjamin AI. Prevalence of Depression and Associated Risk Factors among the Elderly in Urban and Rural Field Practice Areas of a Tertiary Care Institution in Ludhiana. Indian Journal of Public health. 2015; 59 (1) 3-8.
- 9. Singh D, Kedare J. A study of depression in medically ill elderly patients with respect to coping strategies and spirituality as a way of coping. Journal of Geriatric Mental Health 2014;1(2):83–89.
- Syed Qadri, SK Ahluwalia, Abdul Ganai, Shalender Bali, Feroz Wani, Humaira Bashir. Research Article an epidemiological study on quality of life among. International Journal of Medical Science and Public Health. 2013;2(3):514–522.
- 11. S G Kumar, Majumdar A, Pavithra G. Quality of Life (QOL) and Its Associated Factors Using WHOQOL-BREF Among Elderly in Urban Puducherry, India. Journal of Clinical and Diagnostic Research 2014; 8(1): 54-57. doi: 10.7860/JCDR/2014/6996.3917
- 12. Setiati S, Harimurti K, Dewiasty E, Istanti R. Predictors and Scoring System for Health-related Quality of Life in an Indonesian Community Dwelling Elderly Population. Acta Medica Indonesiana-The Indonesian Journal of Internal Medicine 2011; 44(1): 47–52.
- 13. Khaje-bishak Y, Payahoo L, Pourghasem B, Jafarabadi MA. Assessing the Quality of Life in Elderly People and Related Factors. Scandinavian Journal of Caring Sciences 2014;3(4):257–263.
- Srinivasan P, Patel D, Amreen S, Shahare K, Varghese V, Sembian N, et al. Elderly: Depression and quality of life. International Journal of Applied Science 2015;1(13):538– 540
- 15. Wang J, Wu X, Lai W, Long E, Zhang X, Li W, et al. Prevalence of depression and depressive symptoms among outpatients: a systematic review and meta-analysis. British Medical Journal 2017; 7(8): doi: 10.1136/bmjopen-2017-017173.
- 16. Adam D, Ramli A, Shahar S, Assess the effectiveness of a combined dance and relaxation intervention on reducing anxiety and depression and improving quality of life among cognitively impaired elderly. Sultan Qaboos University Medical Journal 2016;16(1):47-53. doi: 10.18295/squmj.2016.16.01.009.
- 17. Bommareddi P, Valsaraj BP. Jacobsons Progressive Muscle Relaxation (JPMR) training to reduce anxiety and depression

Prakash Jha et.al. Effectiveness of Dance and Movement Therapy (DMT) and Progressive Muscle Relaxation (PMR) on Depression and Quality of Life (QOL) among elderly: A Systematic Review

- among. Nitte University Journal of Health Science 2014;4(1):72–78.
- 18. Barati S, Sarjuei Z. The effects of Benson & Jacobson combined relaxation techniques on the elderly's depression & life quality. Journal of Chemical and Pharmaceutical Research, 2016; 8(6):100-103.
- 19. Kim SH, Kim M, Ahn YB, Lim HK, Kang SG, Cho JH, Song SW. Effect of dance exercise on cognitive function in elderly patients with metabolic syndrome: A pilot study. Journal of Sports Science & Medicine 2011; 10(4): 671-678.
- 20. Ho RTH, Fong TCT, Cheung IKM, Yip PSF, Luk M. Effects of a Short-Term Dance Movement Therapy Program on Symptoms and Stress in Patients With Breast Cancer Undergoing Radiotherapy: A Randomized , Controlled, Single-Blind Trial. J Pain Symptom Manage Journal of Pain and Symptom Management 2016; 51(5):824-831.
- 21. Tejal C. Nalawade and Nitin S. Nikhade (2016) effectiveness of progressive muscle relaxation on depression and quality of life among elderly Indian

 Journal of Basic

- and Applied Medical Research 2016; 5(4):448-452.
- 22. Ranker JR. Is Dance / Movement Therapy an Effective Treatment for Depression in Students Is Dance / Movement Therapy an Effective Treatment [Internet]2016; cited 2018 Feb 20]. Available from: https://digitalcommons.pcom.edu/pa_systemat ic reviews/307/
- 23. Ramakrishnan M, Chandran KK. The Effects of Progressive Muscular Relaxation Exercise among Geriatric Patients with Psychiatric Illness. International Journal of Science and Research 2015;4(1):963–966.
- 24. Chalise, H.N. Depression Among elderly living in Briddashram (old age home). Advances in Aging Research 2014; 3(1): 6-11.
- 25. Koch, S., Kunz, T., Lykou, S., Cruz, R. (2014). Effects of dance movement therapy and dance on health-related psychological outcomes: A meta-analysis. In:

 Arts in Psychotherapy, cited in Pubmed Health 2014;41 (1): 46-64. Available from:

http://dx.doi.org/10.1016/j.aip.2013.10.004

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