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Comprehensive approach to the possibilities of dance to respond to the multidimensional component of neurologic diseases: scoping review

Introduction

The increase in various treatment cases shows the growing need to use the possibilities of dance neurotherapy more effectively. A comprehensive characterization approach proposed in this paper is to disclose potential of dance neurotherapy.

Aim

To conduct scoping review of publications about using of new methods of dance intervention and their benefit in alleviation of the symptoms of nervous system disorders (Parkinson's disease, traumatic brain injury, multiple sclerosis).

Methods

Publication searches were carried out in Medline (Pubmed) database. A scoping review was conducted in accordance to PRISMA-ScR recommendations. The publications of full text written in English were selected and all types of dance were included. Meta-analyses were not included.

Keywords: dance neurotherapy, brain activation, genetically determined dance aptitude, aesthetic experience.

Results

20 selected articles were reviewed. A comprehensive approach to investigate the dance neurotherapy encompasses four aspects.

1. The impact of tango, samba, pasodoble, ballet and other dance forms are employed in alleviation of the symptoms of Parkinson's disease [1], traumatic brain injury [2], multiple sclerosis [3] etc.
2. The impact of aesthetic experience of dance may become as a central aspect of patient healing [4].
3. The impact of special means, such as anodal transcranial direct current stimulation, along with dance intervention may alleviate the effects symptoms [5].
4. Genetically determined differences among individuals in dance aptitude may lead to an understanding of the neurobiological basis of dancing and improve neurotherapy results [6].

Conclusions

A comprehensive approach to the dance neurotherapy as well as scoping review of articles helped to disclose the feasibility of using the intervention of dance to alleviate the symptoms of nervous system disorders (Parkinson's disease, traumatic brain injury, multiple sclerosis) more effectively.

References

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