# New Findings from McLean Hospital - Harvard Medical School in the Area of Dementia Published (Neurofeedback and the Aging Brain: A Systematic Review of Training Protocols for Dementia and Mild Cognitive Impairment).

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Full Text:
2021 JUN 21 (NewsRx) -- By a News Reporter-Staff News Editor at Mental Health Weekly Digest -- A new study on dementia is now available. According to news reporting out of Boston, Massachusetts, by NewsRx editors, research stated, "Dementia describes a set of symptoms that occur in neurodegenerative disorders and that is characterized by gradual loss of cognitive and behavioral functions."

Funders for this research include Natural Sciences and Engineering Research Council of Canada.

Our news reporters obtained a quote from the research from McLean Hospital - Harvard Medical School: "Recently, non-invasive neurofeedback training has been explored as a potential complementary treatment for patients suffering from dementia or mild cognitive impairment. Here we systematically reviewed studies that explored neurofeedback training protocols based on electroencephalography or functional magnetic resonance imaging for these groups of patients. From a total of 1,912 screened studies, 10 were included in our final sample (N = 208 independent participants in experimental and N = 81 in the control groups completing the primary endpoint). We compared the clinical efficacy across studies, and evaluated their experimental designs and reporting quality. In most studies, patients showed improved scores in different cognitive tests. However, data from randomized controlled trials remains scarce, and clinical evidence based on standardized metrics is still inconclusive."

According to the news editors, the research concluded: "In light of recent meta-research developments in the neurofeedback field and beyond, quality and reporting practices of individual studies are reviewed. We conclude with recommendations on best practices for future studies that investigate the effects of neurofeedback training in dementia and cognitive impairment."

For more information on this research see: Neurofeedback and the Aging Brain: A Systematic Review of Training Protocols for Dementia and Mild Cognitive Impairment. Frontiers in Aging Neuroscience, 2021,13. (Frontiers in Aging Neuroscience - http://www.frontiersin.org/aging_neuroscience). The publisher for Frontiers in Aging Neuroscience is Frontiers Media S.A.

A free version of this journal article is available at https://doi-org.ezproxy.bpl.org/10.3389/fnagi.2021.682683.

Our news journalists report that more information may be obtained by contacting Lucas R. Trambaiolli, Basic Neuroscience Division, McLean Hospital - Harvard Medical School, Boston, MA, United States. Additional authors for this research include Raymundo Cassani, David M. A. Mehler, Tiago H. Falk.

Keywords for this news article include: McLean Hospital - Harvard Medical School, Boston, Massachusetts, United States, North and Central America, Dementia, Mental Health, Health and Medicine, Brain Diseases and Conditions, Neurodegenerative Diseases and Conditions, Central Nervous System Diseases and Conditions.



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