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Efficacy of Transcranial Electrical Current and Magnetic Stimulation Treatment Options for Alzheimer's Disease

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Message from the Guest Editor

Neurodegenerative dementia, in particular Alzheimer's disease (AD), is a global crisis with no existing cure. The use of non-pharmaceutical treatments, mainly either transcranial electrical or magnetic stimulation, to induce brain neuroplasticity has been on the rise significantly in the last decade. In order to counteract the effects of neuronal death, and the particular susceptibility of cholinergic cells in AD, most pharmacological treatments rely on acetylcholinesterase inhibitors to increase the excitability of cells that respond to acetylcholine. Thus, the target of the current treatments is to increase the excitability and activity of remaining cells in order to counteract the decline in brain function.

There are several parameters to choose when designing a protocol for either transcranial electrical or magnetic stimulation of the brain as a treatment for AD. The purpose of this Special Issue is to discuss the most important contributing parameters, their pros and cons, and their efficacy with the hope that we get closer to achieving optimized non-pharmaceutical treatments for individuals affected by AD.



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Special Issue



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