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# DEMENTIA AND DEMENTIA CARE

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## Brain stimulation and dementia: It can be modulated

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**Statement of the problem:** Dementia is a term that confers a progressive neurocognitive impairment with subsequent loss of functional and occupational capacity with marked potential health care burden. Many treatments are approved aiming at reducing the upcoming progression with little effect on the cognitive domains. Brain stimulation involves many procedures that presumably have positive influence on neuromodulation with turn on and off effect of the brain functions. Surface non-invasive stimulation including transcranial magnetic stimulation and direct electrical stimulation were merely investigated with variable results and outcomes. Deep brain stimulation is another invasive method

to modulate the brain functions with marked effects for many other neurodegenerative disorders and still investigated for Alzheimer's dementia.

**Methodology and theoretical orientation:** The purpose of this presentation is to clarify these methods of brain stimulation, figure out their effects and side effects based on critical appraisal approach for different and updated research and clinical trials.

**Conclusions and significance:** Results and recommendations will be presented based on reviewing the research data, verifying the clinical significance of different methods, and highlighting the possible recommendations for clinical research.

### Biography

Basem Hamdy Fouda is a Lecturer of Neurology, Tanta University, Egypt. Fellow of the European Board of Neurology. Clinical Fellowship of Neurology, Kepler Universitätsklinikum, Austria. He has a long experience in clinical practice for transcranial magnetic stimulation in neurological and Psychiatric disorders. Head of TMS unit, Tanta University with more than 3000 case management all over the past 10 years' experience. He had passed a certified TMS workshops in Danish Hvidovre research center of brain stimulation and approved European license of TMS training and practice approved from Masstricht University. Dr Basem Has passed two diploma courses in Dementia held in Dubai and Cairo respectively.

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