



From Egypt to USA: 7 years of magnetic stimulation novel innovations and excellence in neuropsychiatry

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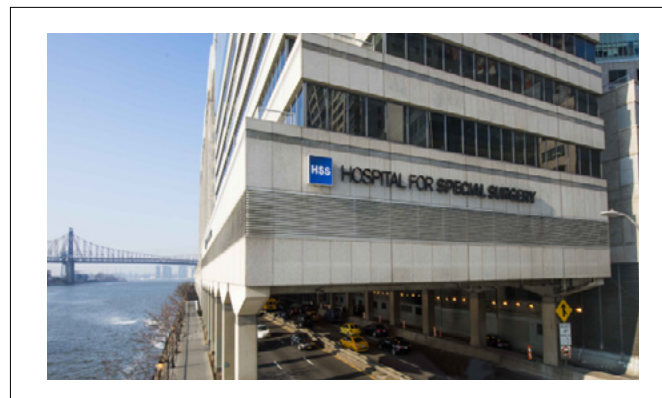
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Abstract

Magnetic stimulation is a safe and non-invasive treatment technique that will be the medical field's next generation for treatment of various disorders. Current USA Food and Drug Administration (FDA) has approvals for bone mal-union (1979), wound healing, depression (2008), migraine (2013) and obsessive compulsive disorder (2018). The scope of other trials includes all body systems. Let us not forget that magnetic stimulation is not only used for treatment. Magnetic Resonance Imaging (MRI) is another form of magnetic stimulation that has evolved to the extent of revealing functional states of cells. Magnetic stimulation is also used to examine cortical excitability state. So what are the similarities and differences between the Middle East and the rest of the world when it comes to magnetic stimulation techniques?

Biography

Adel Sayed Mahmoud Marei attained bachelor's degree in medicine and surgery and master's degree in neuropsychiatry from Ain Shams University (ASU), Egypt in 2006, 2012 respectively. He received his training at the Institute of Psychiatry, ASU and worked closely with Prof. Tarek Asaad in the neurophysiology department. Later in 2012, he received training in Trans-cranial Magnetic Stimulation (TMS) in Germany. In 2017 he was offered an initial 2 years Post-Doctoral Research Fellowship at Hospital for Special Surgery (USA) and occupies this post till date. During his career he tackled various neuropsychiatry disorders namely depression, obsessive compulsive disorder, autism spectrum, attention deficit hyperactivity, eating, catatonia, Parkinson's, Alzheimer's, stroke, traumatic brain injury, NMDA receptor encephalitis, chronic inflammatory demyelinating, multiple sclerosis, coma, amyotrophic/ primary lateral sclerosis, carbon monoxide poisoning. Some of the novel innovative procedures were cathodal/ anodal technique, combining TMS with hyperbaric oxygen therapy and TMS as conditioning reflex.



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