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Review of clinical application of repetitive transcranial magnetic stimulation

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Repetitive transcranial magnetic stimulation (rTMS) is being investigated for psychiatric disorders such as posttraumatic stress disorder (PTSD), generalized anxiety disorder (GAD), and both phases of bipolar disorder. Case series, open trials, and randomized controlled studies have demonstrated preliminary support for treating PTSD with rTMS alone as well as with rTMS combined with ...

Cited by: 13 Author: F Andrew Kozel

Publish Year: 2018

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
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The effect of the magnetic stimulation is dependent on location, intensity and frequency of the magnetic pulses. Its repetitive form is referred to as repetitive TMS (rTMS), and has been used for diagnostic and therapeutic purposes in a variety of neuropsychiatric disorders. Two emergent forms of TMS include theta-burst magnetic stimulation (TBS) and EEG-based synchronized TMS (sTMS).

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Transcranial magnetic stimulation




Transcranial magnetic stimulation is a noninvasive form of brain stimulation in which a changing magnetic field is used to cause electric current at a specific area of the brain through electromagnetic induction. An electric pulse generator, or stimulator, is connected to a magnetic coil, which in turn is connected to the scalp. The stimulator generates a changing electric current within the coil which induces a magnetic field; this field then causes a second induction of inverted electric charge within the brain itself.

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Author: Shannon L Exley, Lindsay M Oberman, L... Publish Year: 2021

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Cheng P *et al.* rTMS for PTSD

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Apr 26, 2021 · Repetitive transcranial magnetic stimulation (rTMS) is a noninvasive neuromodulation therapy. The U.S. Food and Drug Administration (FDA) has approved the use of rTMS for the treatment of major depressive disorder, but has not approved rTMS for treatment of posttraumatic stress disorder

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<https://www.hsrd.research.va.gov/publications/esp/tms-mh.pdf>

• Most studies of transcranial magnetic stimulation (TMS) therapy employed repetitive TMS (rTMS). rTMS may reduce symptoms in people with chronic pain, post-traumatic stress disorder (PTSD), traumatic brain injury (TBI), and opiate addiction, but findings are mixed among included studies.

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