

Depression

This review article examined the literature concerning the use of transcranial magnetic stimulation in the treatment of depression. Results showed the high-frequency, repetitive transcranial magnetic stimulation treatment to be an effective, side-effect free therapy for depression that may hold promise for treating related psychiatric disorders as well. (1)

Noting that there is good reason to believe the pineal gland is a magnetosensitive system and that application of magnetic fields in experimental animals has a similar effect to that of acute exposure to light with respect to melatonin secretion, the authors propose that magnetic treatment could be a beneficial new therapy for winter depression in humans. (2)

This review article notes that transcranial magnetic stimulation has been shown to elicit antidepressant effects, electrically stimulating deep regions of the brain. (3)

In this theoretical paper, the author argues that deep, low-rate transcranial magnetic stimulation can produce therapeutic effects equivalent to those of electroconvulsive therapy but without the dangerous side effects. (4)

This study examined the effects of millimeter wave (MW) therapy as a supplemental treatment in patients suffering from various types of depression. MW therapy involved the use of a "Yav'-1" apparatus (5.6 mm wavelength, 53 GHz), and consisted of up to 60 minutes of exposure per day, 2 to 3 times per week, for a total of as many as 15 exposures. Results showed that combined MW/conventional treatment produced a complete recovery in over 50 percent of cases studied, a significant improvement in 41 percent, and some improvement in 8 percent. Recovery rates among controls (conventional treatment only) were 4, 48, and 41 percent, respectively. **(5)**

Results of this study led researchers to conclude that patients suffering from major depression experienced a significant reduction of depressive symptoms following treatment with transcranial magnetic stimulation coupled with standard medication relative to patients taking the medicine. This was true after just three TMS treatments. **(6)**

Vitality Wellness Center

2210 Encinitas Blvd, Suite G-2 Encinitas, CA 92024 Monday – Saturday by appointment (760) 845–2905 www.enjoyvitalitywellness.com



Depression (Cont.)

Citations:

(1) M.T. Kirkcaldie, et al., Transcranial Magnetic Stimulation as Therapy for Depression and Other Disorders," Aust N Z J Psychiatry, 31(2), April 1997, . 264–272.

(2) R. Sandyk, et al., "Magnetic Felds and Seasonality of Affective Illness: Implications for Therapy," International Journal of Neurosci, 58(3–4), June 1991, . 261–267.

(3) C. Haag, et al., "Transcranial Magnetic Stimulation. A Diagnostic Means from Neurology as Therapy in Psychiatry?" Nervenarzt, 68(3), March 1997, . 274–278.

(4) T. Zyss, "Will Electroconvulsive Therapy Induce Seizures: Magnetic Brain Stimulation as Hypothesis of a New Psychiatric Therapy," Psychiatr Pol, 26(6), November-December 1992, . 531–541.

(5) G.V. Morozov, et al., "Treatment of Neurotic Depression with a Help of Extremely High Frequency Electromagnetic Radiation," Zh Nevropatol Psikhiatr Im S S Korsakova, 96(6), 1996, . 28–31.

(6) Conca, et al., "Transcranial Magnetic Stimulation: A Novel Antidepressive Strategy?" Neuropsychobiology, 34(4), 1996, . 204–207.

Vitality Wellness Center

2210 Encinitas Blvd, Suite G-2 Encinitas, CA 92024 Monday – Saturday by appointment (760) 845–2905 www.enjoyvitalitywellness.com