

MagnaPulse

Extensive documentation on the use of PEMF -
(Pulsed ElectroMagnetic Frequencies)

J Orthop Res. 2004 Jan;22(1):80-4.

[Smith TL, Wong-Gibbons D, Maultsby J.](#)

Microcirculatory effects of pulsed electromagnetic fields.

J Orthop Res. 2004 Jan;22(1):80-4.

Acta Orthop Traumatol Turc. 2003;37(5):410-3.

[\[The efficacy of pulsed electromagnetic fields used alone in the treatment of femoral head osteonecrosis: a report of two cases\]\[Article in Turkish\]](#)

Seber S, Omeroglu H, Cetinkanat H, Kose N.

Department of Orthopedics and Traumatology (Ortopedi ve Travmatoloji Anabilim Dalı), Medicine Faculty of Osmangazi University, Eskisehir, Turkey.

Bioelectromagnetics. 2003 Sep;24(6):373-9.

[The effect of exposure to high flux density static and pulsed magnetic fields on lymphocyte function.](#)

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Department of Physiology, University of Siena, Siena, Italy.

Altern Ther Health Med. 2003 Jul-Aug;9(4):38-48.

[Effects of a pulsed electromagnetic therapy on multiple sclerosis fatigue and quality of life: a double-blind, placebo controlled trial.](#)

Lappin MS, Lawrie FW, Richards TL, Kramer ED.

Energy Medicine Developments, (North America), Inc., Burke, Va., USA

CONCLUSIONS: Evidence from this randomized, double-blind, placebo controlled trial is consistent with results from smaller studies suggesting that exposure to pulsing, weak electromagnetic fields can alleviate symptoms of MS.

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[Effects of different intensities of extremely low frequency pulsed electromagnetic fields on formation of osteoclast-like cells.](#)

Chang K, Chang WH, Wu ML, Shih C.

Department of Biomedical Engineering, Chung-Yuan Christian University, Chung-Li, Taiwan, Republic of China.

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[PEMF may improve fatigue associated with multiple sclerosis.](#)

Zifko UA.

Sonderkrankenanstalt für Neurologie, Klinik Pirawarth, Kurhausstrasse 100, A-2222 Bad Pirawarth.

There is evidence, that pulsing electromagnetic fields may improve fatigue associated with multiple sclerosis.

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[Autoradiographic evaluation of electromagnetic field effects on serotonin \(5HT1A\) receptors in rat brain.](#)

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Terre Haute Center for Medical Education, Indiana University School of Medicine, Terre Haute, IN 47809, USA.

Osteoarthritis Cartilage. 2003 Jun;11(6):455-62.

[Modification of osteoarthritis by pulsed electromagnetic field--a](#)

[morphological study.](#)

Ciombor DM, Aaron RK, Wang S, Simon B.
Department of Orthopaedics, Brown Medical School, Providence, RI
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Clin Neurophysiol. 2003 Mar;114(3):581-8.

[Safety of the magnetic field generated by a neuronal magnetic stimulator: evaluation of possible mutagenic effects.](#)

Charlet de Sauvage R, Grattepanche F, Cassand P, Caubet R, Moreau JM.
Laboratoire PIOM (ENSCP), Université Bordeaux 1, 16, Avenue Pey
Berland, 33607 Pessac Cedex, France.

Wien Klin Wochenschr 2002 Aug 30;114(15-16):678-84

[Pulsed magnetic field therapy for osteoarthritis of the knee--a double-blind sham-controlled trial.](#)

Nicolakis P, Kollmitzer J, Crevenna R, Bittner C, Erdogmus CB, Nicolakis J.
Department of Physical Medicine and Rehabilitation, University of Vienna,
Vienna, Austria.

BACKGROUND AND METHODS: Pulsed magnetic field therapy is frequently used to treat the symptoms of osteoarthritis, although its efficacy has not been proven. We conducted a randomized, double-blind comparison of pulsed magnetic field and sham therapy in patients with symptomatic osteoarthritis of the knee. **CONCLUSION:** In patients with symptomatic osteoarthritis of the knee, PMF treatment can reduce impairment in activities of daily life and improve knee function.

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[Evaluation of electromagnetic fields in the treatment of pain in patients with lumbar radiculopathy or the whiplash syndrome.](#)

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International Society of Energy Medicine, Vienna, Austria.

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[Physical mechanisms in neuroelectromagnetic therapies.](#)

Liboff AR, Jenrow KA.
Department of Physics, Oakland University, Rochester, MI 48309, USA.

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Cochrane Collaborating Center, Center for Global Health, Institute of
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Ontario, Canada, K1N 6N5.

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[Transcranial magnetic stimulation: Neurophysiological applications and safety.](#)

Anand S, Hotson J.
Department of Biological Sciences, San Jose State University, One
Washington Square, 95192-0100, San Jose, CA, USA

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[Influence of 1 and 25 Hz, 1.5 mT magnetic fields on antitumor drug potency in a human adenocarcinoma cell line.](#)

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Laboratory of Radiobiology, Department of Radiology and Physical
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The German Primate Center, Division of Neurobiology, (BC, AKF, EF),
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Rigato M, Battisti E, Fortunato M, Giordano N.

Department of Physics, Section of Medical Physics University of Sienna,
Italy

Neuropsychopharmacology 2002 Oct;27(4):638-45

[Repetitive transcranial magnetic stimulation \(rTMS\) in major depression: relation between efficacy and stimulation intensity.](#)

Padberg F, Zwanzger P, Keck ME, Kathmann N, Mikhael P, Ella R, Rupprecht P, Thoma H, Hampel H, Toschi N, Moller HJ.

Department of Psychiatry, Ludwig-Maximilian University, Munich,
Germany

J Pharm Pharmacol 2002 Oct;54(10):1299-321

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University of Texas Health Science Center, Department of Cellular and
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78229-3900, USA.

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Institute of Theoretical and Experimental Biophysics, Russian Academy of
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Institute of Theoretical Physics and Advanced Studies for Biophysical
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Department of Orthopaedic Surgery, The Johns Hopkins University,
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Department of Neurology, Beth Israel Deaconess Medical Center, Harvard
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Yale-New Haven Psychiatric Hospital, Yale University School of Medicine,
LV 108, 20 York Street, New Haven, CT 06504, USA

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[Therapeutic efficacy of bilateral prefrontal slow repetitive transcranial magnetic stimulation in depressed patients with Parkinson's disease: an open study.](#)

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Institute of Neurology Clinical Center of Serbia, Medical School, Belgrade, Yugoslavia.

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Department of Clinical and Experimental Medicine, Pharmacology Unit, University of Ferrara, Ferrara, Italy.

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Laboratory of Electron Microscopy, Chair of Pathomorphology, Medical University of Lodz, 92-216 Lodz, Czechoslowacka 8/10, Poland.

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Department of Psychiatry, University of Iowa College of Medicine, Iowa City, IA 52240, USA.

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[Repetitive transcranial magnetic stimulation versus electroconvulsive therapy for major depression: preliminary results of a randomized trial.](#)

Janicak PG, Dowd SM, Martis B, Alam D, Beedle D, Krasuski J, Strong MJ, Sharma R, Rosen C, Viana M.

Department of Psychiatry, University of Illinois at Chicago, 1601 W Taylor Street, Chicago, IL 60612, USA.

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[Three and six-month outcome following courses of either ECT or rTMS in a population of severely depressed individuals--preliminary report.](#)

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Psychiatry Division, ECT-TMS Unit, Chaim Sheba Medical Center, 52621 Tel Hashomer, Israel.

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[Article in French]

Saba G, Januel D, Glikman J.

Psychiatre, assistant, Unite de Recherche clinique, Secteur III, Service du docteur Glikman, EPS de Ville Evrard, 5, rue du Docteur Delafontaine, 93200 Saint-Denis, France.

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Department of Psychiatry and Psychotherapy, University of Regensburg, Germany.

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[Enhanced expression of neuronal nitric oxide synthase and phospholipase C-gamma1 in regenerating murine neuronal cells by pulsed electromagnetic field.](#)

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Department of Pathology, Ulsan University College of Medicine, Korea.

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[prolactin, and corticosterone in adult male rats.](#)

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Department of Psychology and the Neuroscience Center, Brigham Young University, Provo, Utah 84602, USA.

CONCLUSIONS: These findings 1) suggest that transcranial magnetic stimulation alters the hypothalamic-pituitary-adrenal stress axis and 2) provide time-course data for the implications of the hormonal mechanism that may be involved in the actions of transcranial magnetic stimulation.

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School of Psychiatry, University of New South Wales, and Neuropsychiatric Institute, Prince of Wales Hospital, Sydney, Australia.

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[Article in German]

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Servei de Neurologia, Hospital de Sant Pau, Av Sant Antoni Ma Claret 167, 08025

Curr Top Med Chem 2002 Feb;2(2):181-97

[Chemical and physical properties and potential mechanisms: melatonin as a broad spectrum antioxidant and free radical scavenger.](#)

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Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio 78229-3900, USA.

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[The effectiveness of magnet therapy for treatment of wrist pain attributed to carpal tunnel syndrome.](#)

Carter R, Aspy CB, Mold J.

Family & Preventive Medicine, 900 NE 10th St, Oklahoma City, OK 73104, USA.

We conducted a double-blind placebo-controlled randomized clinical trial in which 30 patients with pain attributed to carpal tunnel syndrome had either a 1000 gauss magnet or a placebo metal disk applied to the carpal tunnel area using a Velcro wrap for a period of 45 minutes. Pain was measured on a visual analogue scale using 0 and 10 as anchors. Presenting symptoms including numbness, tingling, burning, and pain did not differ significantly between the 2 groups. Results: There was significant pain reduction across the 45-minute period for both

groups. However, t test comparisons found no significant differences between the groups for beginning pain, pain at 15 minutes, pain at 30 minutes, or pain at 45 minutes. Conclusion: The use of a magnet for reducing pain attributed to carpal tunnel syndrome was no more effective than use of the placebo device.

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Department of Neuropsychiatry, Oita Medical University, Hasama-Machi, Japan.

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Department of Cellular and Structural Biology, The University of Texas Health Science Center, San Antonio 78229-3900, USA.

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Rheumatology Department, King's College Hospital (Dulwich), London, UK.

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School of Psychiatry, University of New South Wales, Sydney, Australia.

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[\[Theoretical and practical aspects of general magnetotherapy\]](#)

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Montreal Neurological Institute, McGill University, Montreal, Quebec, Canada H3A 2B4.

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Department of Neurology, Charite Campus Virchow-Klinikum, Humboldt-University Berlin, Augustenburger Platz 1, 13353, Berlin, Germany.

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Adv Ther. 2001 May-Jun;18(3):101-9.

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Center for Biomedical Engineering and Department of Anatomy and Neurobiology, University of Kentucky, Lexington 40506-0070, USA.

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