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Evolution of magnetic therapy from alternative to traditional medicine
Vallbona C, Richards T.; Department of Family and Community Medicine, Baylor College of Medicine, Houston, Texas, USA.

Equipment design for magnetic therapy and "Polus" devices
Viktorov VA, Malkov IuV.

Beneficial effects of electro-magnetic fields

Bassett CA, Bioelectric Research Center, Columbia University, Riverdale, New York 10463.

Clinical effectiveness of magnetic field therapy—a review of the literature
Quittan M, Schuhfried O, Wiesinger GF, Fialka-Moser V.; Universitätsklinik für Physikalische Medizin und Rehabilitation, Wien.

Theoretical and practical aspects of general magnetotherapy
[Article in Russian] Ulashchik VS.

Possible therapeutic applications of pulsed magnetic fields
[Article in Czech] Navrátil L, Hlavaty V, Landsingerova E.

Pulsed magnetotherapy in Czechoslovakia—a review.
Jerabek J. National Institute of Public Health, Praha, Czech Republic.

Electro-Magnetic fields and magnets. Investigational treatment for musculoskeletal disorders
Track DH.; Yale University School of Medicine, New Haven, Connecticut, USA.

ARTHRITIS

A study of the effects of Pulsed Electro-Magnetic Field Therapy with respect to serological grouping in rheumatoid arthritis.

Ganguly KS, Sarkar AK, Datta AK, Rakshit A. National Institute for the Orthopaedically Handicapped (NIOH), Calcutta.

A case of congenital pseudarthrosis of the tibia treated with Pulsing Electro-Magnetic Fields. 17-year follow-up.
Ito H, Shirai Y, Gembun Y.

Department of Orthopaedic Surgery, Nippon Medical School, Tokyo, Japan.

A double-blind trial of the clinical effects of electro-magnetic fields in osteoarthritis.

Track DH, Bollet AJ, Dyer RH Jr, Fielding LP, Miner WK, Markoll R.
Department of Medicine (Rheumatology), Danbury Hospital, CT 06810.

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Track DH, Bollet AJ, Markoll R.
Department of Medicine, Danbury Hospital,

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Pipitone N, Scott DL. Rheumatology Department, King's College Hospital (Dulwich), London, UK.

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Hulme J, Robinson V, DeBie R, Wells G, Judd M, Tugwell P.

Cochrane Collaborating Center, Center for Global Health, Institute of Population Health - University of Ottawa, 1 Stewart Street, Ottawa, Ontario, Canada, K1N 6N5.

Modification of osteoarthritis by Pulsed Electro-Magnetic Field—a morphological study.

Giombor DM, Aaron RK, Wang S, Simon B.; Department of Orthopaedics, Brown Medical School, Providence, RI 02906.

Pulsed magnetic field therapy for osteoarthritis of the knee—a double-blind sham-controlled trial.

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

Therapeutic effects of pulsed magnetic fields on joint diseases
Riva Sanseverino E, Vannini A, Castellacci P., Università di Bologna, Italy

CELL REGENERATION

Effect of external Pulsing Electro-Magnetic Fields on the healing of soft tissue.

Glassman LS, McGrath MH, Bassett CA. Division of Plastic Surgery, Montefiore Medical Center, Albert Einstein College of Medicine, New York, NY.

Pulsing Electro-Magnetic field therapy in nerve regeneration: an experimental study in the cat.

Orgel MG, O'Brien WJ, Murray HM.

Effect of Pulsed Electro-Magnetic Fields (PEMF) on osteoblast-like cells.

Satake T. Department of Oral Biochemistry, Kanagawa Dental College

CIRCULATION

Microcirculatory effects of Pulsed Electro-Magnetic Fields.

Smith TL, Wong-Gibbons D, Maultsby J. Department of Orthopaedic Surgery,

Wake Forest University School of Medicine, Medical Center Blvd., Winston-Salem, NC 27157-1070, USA.

* University level double-blind Medical Studies

DEPRESSION

Influence of electro-magnetic fields on the emotional behaviour of rats [Article in Russian] Semenova TP, Medvinskaja NI, Bliskovka GI, Akoev IG. Institute of Cell Biophysics, Russian Academy of Sciences, Pushchino, Moscow region, 142290 Russia.

Combining high and low frequencies in rTMS antidepressive treatment: preliminary results.

Conca A, Di Pauli J, Beraus W, Hausmann A, Peschina W, Schneider H, Konig P, Hinterhuber H. Departments of Psychiatry I and II, Regional Hospital, 6830 Rankweil, Austria.

Effect of Pulsed Electro-Magnetic Fields (PEMF) on late-phase osteotomy gap healing in a canine tibial model.

Inoue N, Ohnishi I, Chen D, Beitz LW, Schwarzt JD, Chao EY. Department of Orthopaedic Surgery, The Johns Hopkins

Autoradiographic evaluation of electro-magnetic field effects on serotonin (5HT1A) receptors in rat brain. Johnson MT, McCullough J, Nindl G, Chamberlain JK. Terre Haute Center for Medical Education, Indiana University School of Medicine, Terre Haute, IN 47809, USA.

DIABETES

The use of Pulsed Electro-Magnetic Fields with complex modulation in the treatment of patients with diabetic polyneuropathy Science Research Institute of Medical Rehabilitation, Baku, Azerbaidzhan

EDEMA

Low frequency and low intensity Pulsed Electro-Magnetic Field exerts its antiinflammatory effect through restoration of plasma membrane calcium ATPase activity.

Selvam R, Ganesan K, Narayana Raju KV, Gangadharan AC, Manohar BM, Puvanakrishnan R. Department of Pharmacology and Toxicology, Madras Veterinary College, Vepery, Chennai, India.

Protection against focal cerebral ischemia following exposure to a Pulsed Electro-Magnetic Field.

Grant G, Cadossi R, Steinberg G. Department of Neurosurgery, Stanford University, California 94305

ENDOMETRITIS

A low-frequency alternating magnetic field, a supersonic-frequency current and interference currents in the combined treatment of chronic nonspecific endometritis

Strugatskii VM, Popovich LS.

FIBROMYALGIA

Exposure to a specific pulsed low-frequency magnetic field: a double-blind placebo-controlled study of effects on pain ratings in rheumatoid arthritis and fibromyalgia patients.

Lawson Health Research Institute, St. Joseph's Health Care, London, Ontario N6A 4V2.

GLAUCOMA

The effect of a Pulsed Electro-Magnetic Field on the hemodynamics of eyes with glaucoma.

Tsisel'ski IuV, Kashintseva LT, Skrinnik AV. Russian

HEALING

Magnetic fields in physical therapy. Experience in orthopedics and traumatology rehabilitation [Article in Italian], Borg MJ, Marcuccio F, Puerio AM, Vangone A.

Therapeutic effects of electro-magnetic fields in the stimulation of connective tissue repair

Aaron RK, Ciombor DM., Department of Orthopaedics, Brown University, Providence, Rhode Island 00928.

BONE HEALING

Pseudarthrosis after lumbar spine fusion: nonoperative salvage with Pulsed Electro-Magnetic Fields.

Simmons JW Jr, Mooney V, Thacker I. UTMB, Galveston, Texas, USA.

Effects of static magnetic and Pulsed Electro-Magnetic Fields on bone healing.

Darendeliler MA, Darendeliler A, Sinclair PM. Discipline of Orthodontics, Faculty of Dentistry, University of Sydney, Australia.

Pulsed Electro-Magnetic Fields for the treatment of bone fractures.

Satter Syed A, Islam MS, Rabbani KS, Talukder MS.

Industrial Physics Division, BCSIR Laboratories, Dhaka.

Effects of pulsed magnetic energy on a microsurgically transferred vessel.

Roland D, Farber M, Kothuru R, Faierman T, Strauch B. Department of Plastic and Reconstructive Surgery at the Albert Einstein College of Medicine, Bronx, NY, USA.

Exposure to pulsed magnetic fields enhances motor recovery in cats after spinal cord injury.

Crowe MJ, Sun ZP, Battocletti JH, Macias MY, Pinter FA, Maiman DJ. Neuroscience Research Laboratories, The Clement J. Zablocki VA Medical Center, Milwaukee, WI 53295, USA. mcrowe@mcw.edu

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Hutchings J.



SKIN WOUND HEALING

The influence of pulsed electrical stimulation on the wound healing of burned rat skin.

Castillo E, Sumano H, Fortoul TI, Zepeda A. Department of Physiology and Pharmacology, School of Veterinary Medicine, National Autonomous University of Mexico, Mexico, D.F.

Effect of low frequency Pulsing Electro-Magnetic Fields on skin ulcers of venous origin in humans: a double-blind study. Ieran M, Zaffuto S, Bagnacani M, Annovi M, Moratti A, Cadossi R. Department of Medical Angiology, Arcispedale S. Maria Nuova, Reggio Emilia, Italy

Pulsed Electro-Magnetic Fields in experimental cutaneous wound healing in rats.

Patino D, Grana D, Bolgiani A, Prezzavento G, Mino J, Merlo A, Benaim F. Department of Postgraduate Reconstructive and Plastic

Effects of pulsed extremely-low-frequency magnetic fields on skin wounds in the rat.

Ottani V, De Pasquale V, Govoni P, Franchi M, Zaniol P, Ruggeri A. Istituto di Anatomia Umana Normale, Bologna, Italy.

Effects of magnetic fields on skin wound healing. Experimental study. [Article in Spanish]

Patino D, Grana D, Bolgiani A, Prezzavento G, Mino J, Merlo A, Benaim F. Department of Postgraduate Reconstructive and Plastic Surgery, Universidad del Salvador and Fundacion del Quemado.

Effects of Pulsed Electro-Magnetic Fields on rat skin metabolism.

De Loecker W, Delpont PH, Cheng N. Afdeling Biochemie, Katholieke Universiteit te Leuven, Belgium.

HEMATOMA

Electrochemical therapy of pelvic pain: effects of Pulsed Electro-Magnetic Fields (PEMF) on tissue trauma.

Jorgensen WA, Frome BM, Wallach C. International Pain Research Institute, Los Angeles, California.

HYPERTENSION

The treatment of hypertension patients with electro-magnetic and magnetic fields.

Orzheshkovskii VV, Chopchik DI, Paramonchik VM, Fastyskovskii AD, Kovalenko VP.

LYMPHOCYTES

Effect of bioresonance therapy on antioxidant system in lymphocytes in patients with rheumatoid arthritis.

Islamov BI, Balabanova RM, Funtikov VA, Gotovskii YV, Meizerov EE. Institute of Theoretical and Experimental Biophysics, Russian Academy of Sciences, Pushchino, Russia.

The effect of exposure to high flux density static and pulsed magnetic fields on lymphocyte function.

Aldinucci C, Garcia JB, Palmi M, Sgaragli G, Benocci A, Meini A, Pessina F, Rossi C, Bonechi C, Pessina GP. Department of Physiology, University of Siena, Siena, Italy.

MIGRAINE

Initial exploration of Pulsing Electro-Magnetic Fields for treatment of migraine. Sherman RA, Robson L, Marden LA. Service of Orthopedic Surgery, Madigan Army Medical Center, Tacoma, Wash. 98431, USA.

Treatment of migraine with Pulsing Electro-Magnetic Fields: a double-blind, placebo-controlled study.

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Impulse magnetic-field therapy for migraine and other headaches: a double-blind, placebo-controlled study. Pelka RB, Jaenicke C, Gruenwald J. Universitat der Bundeswehr Munchen Munich, Germany.

MULTIPLE SCLEROSIS

Therapy of day time fatigue in patients with multiple sclerosis.

Zifko UA.; Sonderkrankenanstalt fur Neurologie, Klinik Pirawarth, Kurhausstrasse 100, A-2272 Bad Pirawarth, Austria

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Lappin MS, Lawrie FW, Richards TL, Kramer ED. Energy Medicine Developments, (North America), Inc., Burke, Va., USA

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NERVE REPAIR

Pre-treatment of rats with Pulsed Electro-Magnetic Fields enhances regeneration of the sciatic nerve.

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An experimental study of the effects of Pulsed Electro-Magnetic Field (Diapulse) on nerve repair.

Raji AM.

Effect of weak, Pulsing Electro-Magnetic Fields on neural regeneration in the rat.

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Effect of Pulsed Electro-Magnetic stimulation on facial nerve regeneration.

Byers JM, Clark KF, Thompson GC.

Department of Otorhinolaryngology, University of Oklahoma Health Sciences Center, Oklahoma City, USA.

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Enhancement of functional recovery following a crush lesion to the rat sciatic nerve by exposure to Pulsed Electro-Magnetic Fields.

Walker JL, Evans JM, Resig P, Guarnieri S, Meade P, Siskin BS. Division of Orthopaedic Surgery, University of Kentucky College of Medicine, Shriners Hospitals for Crippled Children, Lexington.

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Effects of high-peak Pulsed Electro-Magnetic Field on the degeneration and regeneration of the common peroneal nerve in rats.

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A multivariate approach to the treatment of peripheral nerve transection injury: the role of electro-magnetic Field Therapy
Zienowicz RJ, Thomas BA, Kurtz WH, Orgel MG. University of Massachusetts Medical School, Berkshire Medical Center, Pittsfield.

NERVOUS SYSTEM

Magnetic and electrical stimulation in the rehabilitative treatment of patients with organic lesions of the nervous system
Tyshkevich TG, Nikitina VV; A. L. Polenov Russian Science Research Neurosurgical Institute, St. Petersburg.

History of magnetic stimulation of the nervous system.

Geddes LA; William A. Hillenbrand Biomedical Engineering Center, Purdue University, West Lafayette, Indiana 47907.

Evaluation of treatment with a Pulsed Electro-Magnetic Field on wound healing, clinicopathologic variables, and central nervous system activity of dogs.

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NEUROPATHY

Pulsed magnetic field therapy in refractory neuropathic pain secondary to peripheral neuropathy: electrodiagnostic parameters—pilot study.

Weintraub MJ, Cole SP. New York Medical College, Briarcliff Manor, New York 10510, USA

OSTEOPOROSIS

The effect of long-term pulsing electro-magnetic field stimulation on experimental osteoporosis of rats.

Mishima S. Department of Orthopedic Surgery, School of Medicine, University of Occupational and Environmental Health, Kitakyushu, Japan.

Pulsed Electro-Magnetic Fields prevent osteoporosis in an ovariectomized female rat model: a prostaglandin E₂-associated process.

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

Bone density changes in osteoporosis-prone women exposed to Pulsed Electro-Magnetic Fields (PEMFs).

Tabrah F, Hoffmeier M, Gilbert F Jr, Batkin S, Bassett CA. University of Hawaii School of Medicine, Straub Clinic and Hospital, Honolulu.

PAIN

Evaluation of electro-magnetic fields in the treatment of pain in patients with lumbar radiculopathy or the whiplash syndrome.

Thuile Ch, Walzl M. International Society of Energy Medicine, Vienna, Austria.

Pain management and electro-magnetic medicine.

Quellette EA. University of Miami School of Medicine, Department of Orthopaedics and Rehabilitation, Florida, USA.

Electrochemical therapy of pelvic pain: effects of Pulsed Electro-Magnetic Fields (PEMF) on tissue trauma.

Jorgensen WA, Frome BM, Wallach C. International Pain Research Institute, Los Angeles, California.

Spine fusion for discogenic low back pain: outcomes in patients treated with or without Pulsed Electro-Magnetic Field stimulation.

Marks RA. Richardson Orthopaedic Surgery, Texas 75080, USA.

Pulsed magnetic field therapy in refractory neuropathic pain secondary to peripheral neuropathy: electrodiagnostic parameters--pilot study.

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PARKINSON'S

Magnetic fields in the treatment of Parkinson's disease.

Sandyk R, Anninos PA, Tsagas N, Derpapas K. Democriton University of Thrace, Department of Medical Physics and Polytechnic School, Alexandroupolis and Xanthi, Greece.

PELVIC PAIN

Electrochemical therapy of pelvic pain: effects of Pulsed Electro-Magnetic Fields (PEMF) on tissue trauma.

Jorgensen WA, Frome BM, Wallach C. International Pain Research Institute, Los Angeles, California.

RANGE OF MOTION

The effect of Pulsed Electro-Magnetic Fields in the treatment of cervical osteoarthritis: a randomized, double-blind, sham-controlled trial.

Ankara Physical Medicine and Rehabilitation Education and Research Hospital, Turk ocagi S No: 3 Sihhiye, Ankara, Turkey.

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Országos Reumatológiai és Fizioterápiás Intézet, Budapest, Hungary.

TENDONITIS

Pulsed magnetic and electro-magnetic fields in experimental achilles tendonitis in the rat: a prospective randomized study.

Department of Orthopaedics and Traumatology, Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, New Territories, Hong Kong

Pulsed Electro-Magnetic Field therapy of persistent rotator cuff tendinitis. A double-blind controlled assessment.

Binder A, Parr G, Hazleman B, Fitton-Jackson S.

The effect of Pulsed Electro-Magnetic Fields on flexor tendon healing in chickens.

Robotti E, Zimble AG, Kenna D, Grossman JA. Miami Children's Hospital, USA.

Pulsed magnetic and electro-magnetic fields in experimental achilles tendonitis in the rat: a prospective randomized study.

Lee EW, Maffulli N, Li CK, Chan KM. Department of Orthopaedics and Traumatology, Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, New Territories, Hong Kong

ULCERS

A portable Pulsed Electro-Magnetic Field (PEMF) device to enhance healing of recalcitrant venous ulcers: a double-blind, placebo-controlled clinical trial.

Ronald D. Perelman Department of Dermatology, New York University Medical Center, New York.

Treatment of chronic varicose ulcers with Pulsed Electro-Magnetic Fields: a controlled pilot study.

Department of Dermatology, Belfast City Hospital.

VISION

The effect of a Pulsed Electro-Magnetic Field on the hemodynamics of eyes with glaucoma

[Article in Russian] Tsisel'skii IuV, Kashintseva LT, Skrinnik AV.

Effectiveness of magnetotherapy in optic nerve atrophy. A preliminary study [Article in Russian] Zobina LV, Orlovskaya LS, Sokov SL, Sabaeva GF, Kunde LA, Iakovlev AA.

Possibilities of magnetotherapy in stabilization of visual function in patients with glaucoma

[Article in Russian] Bisvas Shutanto Kumar, Listopadova NA.