Electrical Stimulation

Alves-Guerreiro, J., G. Noble, et al. (2001). "The effect of three electrotherapeutic modalities upon peripheral nerve conduction and mechanical pain threshold." <u>Clinical Physiology</u> **21**(6): 704-711.

Atkinson, M. (2001). "A new way to tackle pain." Sportex-Med 8: 9-10.

Basford, J. R. (2001). "A historical perspective of the popular use of electric and magnetic therapy." Arch Phys Med Rehabil **82**(9): 1261-9.

Bole, K. (2002). "Healing the body electric: a new technique that combines the principles of acupuncture, massage, electrotherapy and physical therapy is successfully helping many patients with chronic pain live normal lives again... electrotherapeutic point stimulation." <u>Alternative Medicine</u>(48): 68-70, 72-7 NIi: 9424597.

Chapman Jones, D. and D. Hill (2002). "Novel microcurrent treatment is more effective than conventional therapy for chronic Achilles tendinopathy: randomised comparative trial." <u>Physiotherapy</u> **88**(8): 471-80.

Goldman, R. J., B. I. Brewley, et al. (2002). "Electrotherapy reoxygenates inframalleolar ischemic wounds on diabetic patients." <u>Advances in Skin and Wound Care</u> **15**(3 part 1): 112-20.

Hill, L. L. (2001). "Diagnostic corner. Clinical electrostimulation parameters." DC Tracts 13(4): 4-9, 13-4.

Janssen, T. W. and M. T. Hopman (2003). "Blood flow response to electrically induced twitch and tetanic lower limb muscle contractions." <u>Arch Phys Med Rehabil</u> **84**(7): 982-7.

Jarm, T., M. Cemazar, et al. (2003). "Pertubation of blood flow as a mechanism of anti-tunour action of direct current electrotherapy." Physiological Measurement **24**: 75-90.

Kemler, M. A., J. P. H. Reulen, et al. (2001). "Impact of spinal cord stimulation on sensory

characteristics in complex regional pain syndrome type I: a randomized trial." <u>Anesthesiology</u> **95**(1): 72-80.

Kloth, L. C. (2001). "Treatment options. 5 questions -- and answers -- about electrical stimulation." Advances in Skin and Wound Care 14(3): 156, 158.

Lamb, S. E., J. A. Oldham, et al. (2002). "Neuromuscular stimulation of the quadriceps muscle after hip fracture: a randomized controlled trial." <u>Arch Phys Med Rehabil</u> **83**(8): 1087-92.

Laska, T. and K. Hannig (2001). "Physical therapy for spinal accessory nerve injury complicated by adhesive capsulitis." Physical Therapy 81(3): 936-44.

Liboff, A. R. and K. A. Jenrow (2002). "Physical mechanisms in neuroelectromagnetic therapies." Neurorehabilitation and Neural Repair 17(1): 9-22.

Matsuoka, A. J., Rubenstein.J.T., et al. (2001). "The effects of interpulse interval on stochastic properties of electrical stimulation: Models and measurements." <u>IEEE Trans Biomed Eng</u> **48**(4): 416-424.

Naslund, J. (2001). "Modes of sensory stimulation: clinical trials and physiological aspects." Physiotherapy **87**(8): 413-23.

Ogino, M., N. Shiba, et al. (2002). "MRI quantification of muscle activity after volitional exercise and neuromuscular electrical stimulation." <u>American Journal of Physical Medicine and Rehabilitation</u> **81**(6): 446-51.

Palmer, S. T., D. J. Martin, et al. (2004). "Effects of electric stimulation on C and A delta fiber-mediated thermal perception thresholds." <u>Arch Phys Med Rehabil</u> **85**: 119-128.

Perez, M., A. Lucia, et al. (2003). "Effects of electrical stimulation on VO2 kinetics and selta efficiency in healthy young men." <u>Br J Sports Med</u> **37**: 140-143.

Peters, E. J., L. A. Lavery, et al. (2001). "Electric stimulation as an adjunct to heal diabetic foot ulcers: a randomized clinical trial." Arch Phys Med Rehabil 82(6): 721-5.

Pomeroy, V. and R. Tallis (2002). "Neurological rehabilitation: a science struggling to come of age." Physiotherapy Research International **7**(2): 76-89.

Price, D. I. M. and A. D. Pandyan (2001). "Electrical stimulation for preventing and treating post-stroke shoulder pain: a systematic Cochrane review." <u>Clinical Rehabilitation</u> **15**(1): 5-19.

Roche, P., H.-Y. Tan, et al. (2002). "Modification of induced ischaemic pain by placebo electrotherapy." Physiotherapy Theory and Practice 18: 131-139.

Slade, J. M., C. S. Bickel, et al. (2003). "Variable frequency trains enhance torque independent of stimulation amplitude." <u>Acta Physiol Scand</u> 177: 87-92.

Song, B., M. Zhao, et al. (2002). "Electrical cues regulate the orientation and frequency of cell division and the rate of wound healing in vivo." PNAS **99**(21): 13577-13582.

Takata, S. and T. Ikata (2001). "Differences in energy metabolism and neuromuscular transmission between 30-Hz and 100-Hz stimulation in rat skeletal muscle." Arch Phys Med Rehabil **82**(5): 666-70.

Thawer, H. A. and P. E. Houghton (2001). "Effects of electrical stimulation on the histological properties of wounds in diabetic mice." Wound Repair Regen 9: 107-115.

Tyers, S. and R. B. Smith (2001). "A comparison of cranial electrotherapy stimulation alone or with chiropractic therapies in the treatment of fibromyalgia." <u>Am-Chiropractor</u> **23**(2): 39-41.

Vanderthommen, M., J. C. Depresseux, et al. (2002). "Blood flow variation in human muscle during electrically stimulated exercise bouts." Arch Phys Med Rehabil 83(7): 936-41.

Ward, A. R., V. J. Robertson, et al. (2002). "Optimal frequencies for electric stimulation using medium-frequency alternating current." Arch Phys Med Rehabil **83**(7): 1024-7.

Wright, A. and K. A. Sluka (2001). "Nonpharmacological treatments for musculoskeletal pain." <u>Clin-J-Pain</u> 17(1): 33-46.

Yanagi, T. and N. Shiba (2003). "Agonist contrctions against electrically stimulated antagonists." <u>Arch</u> Phys Med Rehabil **84**(6): 843-8.

Yu, D. T., J. Chae, et al. (2001). "Percutaneous intramuscular neuromuscular electric stimulation for the treatment of shoulder subluxation and pain in patients with chronic hemiplegia: a pilot study." <u>Arch Phys Med Rehabil</u> **82**(1): 20-5.

Yu, D. T., J. Chae, et al. (2001). "Comparing stimulation-induced pain during percutaneous (intramuscular) and transcutaneous neuromuscular electric stimulation for treating shoulder subluxation in hemiplegia." Arch Phys Med Rehabil 82(6): 756-60.

- Childs, S. G. (2003). "Stimulators of bone healing. Biologic and biomechanical." <u>Orthop Nurs</u> **22**(6): 421-8.
- Cho, M. R., H. S. Thatte, et al. (2000). "Integrin-dependent human macrophage migration induced by oscillatory electrical stimulation." Ann Biomed Eng 28(3): 234-43.
- Cukjati, D., M. Robnik-Sikonja, et al. (2001). "Prognostic factors in the prediction of chronic wound healing by electrical stimulation." Med Biol Eng Comput **39**(5): 542-50.
- Cullum, N., E. A. Nelson, et al. (2001). "Systematic reviews of wound care management: (5) beds; (6) compression; (7) laser therapy, therapeutic ultrasound, electrotherapy and electromagnetic therapy." Health Technol Assess 5(9): 1-221.
- Dejardin, L. M., N. Kahanovitz, et al. (2001). "The effect of varied electrical current densities on lumbar spinal fusions in dogs." Spine J 1(5): 341-7.
- Divelbiss, B. J. and B. D. Adams (2001). "Electrical and ultrasound stimulation for scaphoid fractures." Hand Clin 17(4): 697-701, x-xi.
- Edsberg, L. E., M. S. Brogan, et al. (2002). "Topical hyperbaric oxygen and electrical stimulation: exploring potential synergy." <u>Ostomy Wound Manage</u> **48**(11): 42-50.
- Evans, R. D., D. Foltz, et al. (2001). "Electrical stimulation with bone and wound healing." <u>Clin Podiatr</u> <u>Med Surg</u> **18**(1): 79-95, vi.
- Everaert, K., A. Derie, et al. (2000). "Bilateral S3 nerve stimulation, a minimally invasive alternative treatment for postoperative stress incontinence after implantation of an anterior root stimulator with posterior rhizotomy: a preliminary observation." <u>Spinal Cord</u> **38**(4): 262-4.
- France, J. C., T. L. Norman, et al. (2001). "The efficacy of direct current stimulation for lumbar intertransverse process fusions in an animal model." <u>Spine</u> **26**(9): 1002-8.
- Franek, A., A. Polak, et al. (2000). "Modern application of high voltage stimulation for enhanced healing of venous crural ulceration." Med Eng Phys 22(9): 647-55.
- Goldman, R., B. Brewley, et al. (2003). "Electrotherapy reverses inframalleolar ischemia: a retrospective, observational study." Adv Skin Wound Care **16**(2): 79-89.
- Goldman, R. J., B. I. Brewley, et al. (2002). "Electrotherapy reoxygenates inframalleolar ischemic wounds on diabetic patients: a case series." Adv Skin Wound Care 15(3): 112-20.
- Hess, C. L., M. A. Howard, et al. (2003). "A review of mechanical adjuncts in wound healing: hydrotherapy, ultrasound, negative pressure therapy, hyperbaric oxygen, and electrostimulation." <u>Ann Plast Surg</u> **51**(2): 210-8.
- Houghton, P. E., C. B. Kincaid, et al. (2003). "Effect of electrical stimulation on chronic leg ulcer size and appearance." Physical Therapy 83: 17-28.
- Khalil, Z. and M. Merhi (2000). "Effects of aging on neurogenic vasodilator responses evoked by transcutaneous electrical nerve stimulation: relevance to wound healing." <u>J Gerontol A Biol Sci Med Sci</u> **55**(6): B257-63.

Kloth, L. C. (2001). "5 questions--and answers--about electrical stimulation." <u>Adv Skin Wound Care</u> **14** (3): 156, 158.

Kloth, L. C. (2002). "How to use electrical stimulation for wound healing." Nursing 32(12): 17.

Lebedev, V. P., O. B. Il'inskii, et al. (2002). "[Noninvasive transcranial electrostimulation of endorphin structures of the brain as a reparation activator: experimental and clinical parallels]." <u>Med Tekh(6)</u>: 32-5.

Liebano, R. E., L. M. Ferreira, et al. (2002). "The effect of transcutaneous electrical nerve stimulation on the viability of random skin flaps in rats." <u>Can J Plast Surg</u> **10**(4): 151-154.

Nelson, F. R., C. T. Brighton, et al. (2003). "Use of physical forces in bone healing." <u>J Am Acad Orthop</u> Surg 11(5): 344-54.

Nuccitelli, R. (2003). "A role for endogenous electric fields in wound healing." <u>Curr Top Dev Biol</u> **58**: 1-26

Ojingwa, J. C. and R. R. Isseroff (2003). "Electrical stimulation of wound healing." <u>J Invest Dermatol</u> **121**(1): 1-12.

Pace, A. V., N. Saratzis, et al. (2002). "Spinal cord stimulation in Buerger's disease." <u>Ann Rheum Dis</u> **61** (12): 1114.

Patterson, M. (2000). "What's the buzz on external bone growth stimulators?" Nursing 30(6): 44-5.

Peters, E. J., L. A. Lavery, et al. (2001). "Electric stimulation as an adjunct to heal diabetic foot ulcers: a randomized clinical trial." <u>Arch Phys Med Rehabil</u> **82**(6): 721-5.

Riess, J. and J. J. Abbas (2000). "Adaptive neural network control of cyclic movements using functional neuromuscular stimulation." <u>IEEE Trans Rehabil Eng</u> 8(1): 42-52.

Robnik-Sikonja, M., D. Cukjati, et al. (2003). "Comprehensible evaluation of prognostic factors and prediction of wound healing." <u>Artif Intell Med</u> **29**(1-2): 25-38.

Sheffet, A., A. S. Cytryn, et al. (2000). "Applying electric and electromagnetic energy as adjuvant treatment for pressure ulcers: a critical review." <u>Ostomy Wound Manage</u> **46**(2): 28-44.

Song, B., M. Zhao, et al. (2002). "Electrical cues regulate the orientation and frequency of cell division and the rate of wound healing in vivo." <u>PNAS</u> **99**(21): 13577-13582.

Spielholz, N. I. and L. C. Kloth (2000). "Electrical stimulation and pulsed electromagnetic energy: differences in opinion." <u>Ostomy Wound Manage</u> **46**(5): 8, 10, 12.

Spielholz, N. I. and L. C. Kloth (2000). "Electrical stimulation and pulsed electromagnetic energy: differences in opinion [letter]." <u>Ostomy Wound Manage</u> **46**(5): 8, 10, 12.

Targan, R. S., G. Alon, et al. (2000). "Effect of long-term electrical stimulation on motor recovery and improvement of clinical residuals in patients with unresolved facial nerve palsy." <u>Otolaryngol Head Neck Surg</u> **122**(2): 246-52.

Noble, J. G., G. Henderson, et al. (2000). "The effect of interferential therapy upon cutaneous blood flow in humans." Clin Physiol **20**(1): 2-7.

Palmer, S. T., D. J. Martin, et al. (2004). "Effects of electric stimulation on C and A delta fiber-mediated thermal perception thresholds." Arch Phys Med Rehabil **85**: 119-128.

Philipp, A., G. K. Wolf, et al. (2000). "Interferential current is effective in palmar psoriaris: an open prospective trial." <u>Eur J Dermatol</u> **10**(3): 195-8.

Roche, P., H.-Y. Tan, et al. (2002). "Modification of induced ischaemic pain by placebo electrotherapy." Physiotherapy Theory and Practice 18: 131-139.

Sontag, W. (2000). "Modulation of cytokine production by interferential current in differentiated HL-60 cells." <u>Bioelectromagnetics</u> **21**(3): 238-44.

Stephenson, R. and E. Walker (2003). "The analgesic effects of interferential (IF) current on cold-pressor pain in healthy subjects: a single blind trial of three IF currents against sham IF and control." Physiotherapy Theory and Practice 19: 99-107.

Ward, A. R., V. J. Robertson, et al. (2002). "Optimal frequencies for electric stimulation using medium-frequency alternating current." <u>Arch Phys Med Rehabil</u> **83**(7): 1024-7.

Watson, T. (2000). "The role of electrotherapy in contemporary physiotherapy practice." <u>Man Ther</u> **5** (3): 132-41.