

Bibliography: Clinical References in Support of RS-4i® Plus Sequential Stimulator

1. Jarit GJ, Mohr KJ, Waller R, Glousman RE. Clin J Sport Med. *The effects of home interferential therapy on post-operative pain, edema, and range of motion of the knee.* 2003 Jan;13(1):16-20.
 - » CONCLUSIONS: Home interferential therapy may help reduce pain, pain medication taken, and swelling while increasing range of motion in patients undergoing knee surgery. This could result in quicker return to activities of daily living and athletic activities.
2. Yeung A, Porter J. Effect of sequential electrical surface stimulation on medication utilization following Selective *Endoscopic Discectomy: Initial Evaluation.* J Minim Invasive Spinal Tech, Vol. 1, Inaugural 2001.
 - » CONCLUSIONS: Use of the RS-4i following Selective Endoscopic Discectomy reduced the use of medication, including muscle relaxants/analgesics and opioids.
3. Cheing GL, Hui-Chan CW. *Analgesic effects of transcutaneous electrical nerve stimulation and interferential currents on heat pain in healthy subjects.* J Rehabil Med. 2003 Jan;35(1):15-19.
 - » CONCLUSIONS: This experimental study compared the influence of interferential current (IFC) and transcutaneous electrical nerve stimulation (TENS) on heat-induced pain thresholds in 48 young, healthy volunteers. While both TENS and IFC increased the heat pain threshold to a similar extent during stimulation, the post-stimulation analgesic effect of IFC stimulation lasted longer than TENS.
4. Moore SR, Shurman J. *Combined neuromuscular electrical stimulation and transcutaneous electrical nerve stimulation for treatment of chronic back pain: a double-blind, repeated measures comparison.* Arch Phys Med Rehabil 1997;78:55-60.
 - » CONCLUSIONS: A combination of electrical nerve stimulation, and neuromuscular electrical stimulation therapies is superior in treating chronic back pain over one modality alone or placebo treatment.
5. Zambito A, Bianchini D, Gatti D, Viapiana O, Rossini M, Adami S., *Interferential and horizontal therapies in chronic low back pain: a randomized, double blind, clinical study.* Clin Exp Rheumatol. 2006 Sep-Oct;24(5):534-9
 - » CONCLUSIONS: Interferential and horizontal therapy are significantly effective in alleviating both pain and disability in patients with chronic low back pain.
6. Ozcan J, Ward AR, Robertson VJ., *A comparison of true and premodulated interferential currents.* Arch Phys Med Rehabil. 2004 Mar;85(3):409-15.
 - » CONCLUSIONS: Premodulated interferential current, delivered via two large electrodes, may be clinically more effective than the traditional true interferential current arrangement in terms of depth efficiency, torque production, and patient comfort.