

Electromedicine for Pain

*Over 44 million American households contain at least one member who suffers from chronic pain. ¹
Total annual cost in U.S. for healthcare and lost productivity due to pain is nearly \$100 billion. ¹*

- **Proven and effective pain management treatment for over 20 years**
 - *Uses electric stimulation to facilitate or inhibit electrical or chemical processes in the human body*
- **Most popular of these has been the TENS Units (Transcutaneous Electrical Nerve Stimulation)**
 - *Causes a change in excitable cells by depolarization and repolarization using **1-250** pulses per second*
- **Newer *technology* of the [NeuroMed](#)[®] – MATRIX System pulses from **8,300 to as high as 10,000** pulses per second which:**
 - *Approved by U.S. Food & Drug Administration (FDA)*
 - *Successful in treating long-term (intractable) pain issues*
 - Depolarizes the cells in the nerve responsible for carrying the pain signals
 - Achieves prolonged neuronal hyper stimulation
 - Stops nerve firing completely
 - Results in a significant reduction or total elimination of the pain

What is the Result?

- **Increase local blood circulation**
- **Maintain/increase range of motion**
- **Muscle re-education**
- **Prevent/slowing of disuse atrophy**
- **Aids in post-surgical calf treatment to avoid venous thrombosis**



1. Turk DC, Swanson K. Efficacy and cost-effectiveness of treatments for chronic pain: an analysis and evidence-based synthesis. In: Schatman M, Cooper A. eds. Multidisciplinary Chronic Pain Management: A Guidebook for Program Development and Excellence of Treatment. New York: Informa Healthcare, 2007:15-38.