



RS-4i[®] Sequential Stimulator



Relieve pain and restore muscle function

Now you can treat painful muscle conditions with a single electrical stimulator.

The RS-4i[®] Sequential Stimulator delivers interferential current to relieve pain, followed by muscle stimulation to treat the affected muscle condition—all in one simple-to-take home treatment.

Why interferential current to relieve pain? Because unlike low-frequency TENS, interferential current generates a “beat pattern” with two medium-frequency waveforms believed to more effectively overcome the skin’s resistance.

More than a half million prescriptions have been written for

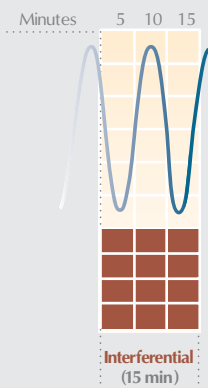
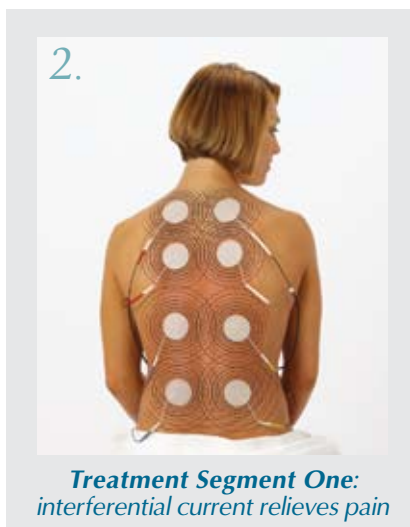
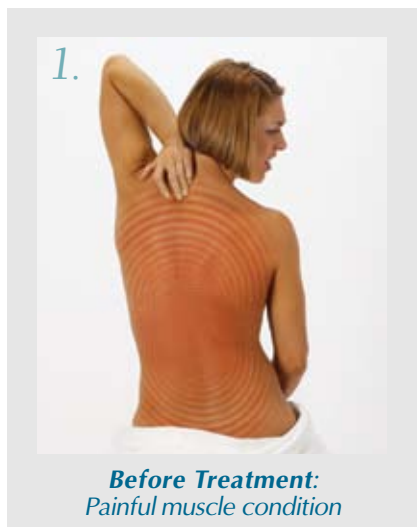
RS Medical stimulators. Why?

Because RS Medical provides an unmatched stimulator-service package designed specifically for a doctor’s office.

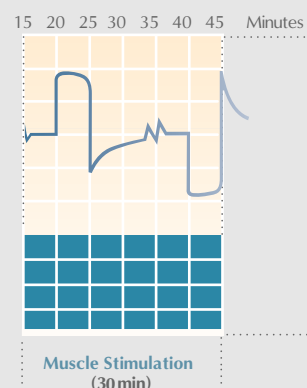
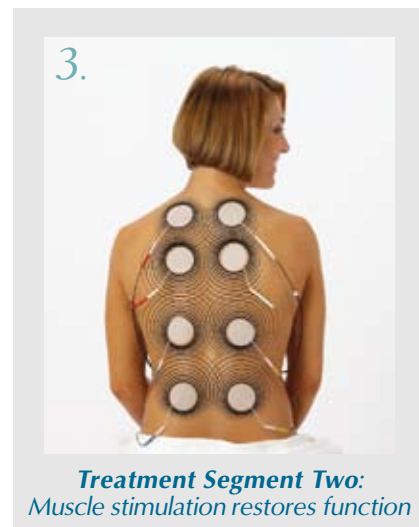
When you begin to prescribe the RS-4i, RS Medical coordinates with your staff to instruct the patient, provide patient support and process all insurance paperwork. RS Medical is also able to provide Patient Usage Reports that document compliance to the physician’s prescription.

Thousands of physicians choose to treat painful muscle conditions with a non-invasive, non-habit forming and cost effective modality by specifying the RS-4i Sequential Stimulator.

How Sequential Stimulation treats painful muscle conditions



Medium frequency interferential current relieves pain with less skin resistance...



... so the underlying condition can be comfortably treated with muscle stimulation.

Indications

- ⌘ Acute Pain
- ⌘ Chronic Pain
- ⌘ Disuse Atrophy
- ⌘ Muscle Spasms
- ⌘ Range of Motion
- ⌘ Re-education
- ⌘ Blood Circulation

RS-4i Features

- Sequential Stimulation combines interferential and muscle stimulation in a single device
- Inclusive interferential indications
- Comprehensive muscle stimulation indications
- Automatically suggests pre-programmed treatment plan
- Fully programmable treatment plans
- Four independent, programmable channels operating eight pads
- Patented "smart" Data Card
- Personal stimulator designed for unsupervised patient use at home
- Large, push button controls
- LED displays settings, operations, status
- RS Medical provides patient support
 - Personal instruction, initial fitting
 - On-going support via toll-free Customer Service
 - At-home instruction with Operation Manual, demonstration DVD
- Hand-held (4"W x 7.5"D x 2.2"H), powered by rechargeable battery
- Interferential current uses 5000 Hz carrier frequency
- Muscle stimulation waveform produces alternating bi-phasic, symmetric and balanced pulses
- RS Medical rents RS-4i to patient and processes patient's insurance paperwork

Benefits

- Interferential relieves pain, muscle stimulation restores muscle function
- Offers rehabilitative treatment at a lower cost than alternative therapies
- Non-invasive and non-narcotic alternative to drugs
- Ideal for painful muscle conditions
- Relieves acute pain
- Relieves and manages chronic pain
- Reduces muscle spasms
- Prevents or retards disuse atrophy
- Increases local blood circulation
- Maintains or increases range of motion
- Re-educates muscles
- Prevents venous thrombosis through immediate post-surgical stimulation of calf muscles
- Allows fitter/clinician to easily set up individualized patient treatment plans
- Fitter/clinician enters physician-diagnosed patient indications and body area to be treated, based on patient condition device displays pre-programmed treatment plan
- Fitter/clinician can accept recommended treatment plan, adjust treatment plan or create a new treatment plan
- Flexible settings for an unlimited range of protocols
- Adjustable pain treatment settings: mode, frequency, pad selection, treatment time modulation
- Adjustable muscle treatment settings: relax and contract cycles, mode, treatment time
- Accommodates widest range of protocols
- Covers large muscle areas
- Treatments take less time
- Not bifurcated, a potentially hazardous practice of simulating four channels in a two-channel device by splitting the cables
- Stores detailed patient usage data
- Exclusive RS Medical Patient Usage Report upon request
- Patient fits treatments into daily schedule
- May increase the amount of therapy patient receives
- Can be used in conjunction with physical therapy
- Easy to use functions
- User can confirm proper operation by reading display
- No physician staff time required for patient support
- Easy for patients to learn to use; mini-treatment provided in physician office
- Patients get additional assistance with a free phone call
- Full patient support can increase patient confidence and use, speeding recovery
- Convenient portability; designed for home use
- Low operating cost; no batteries to buy
- Bi-polar and quadripolar settings
- Preset sweep modes produce Low (1-10), High (80-150) Wide (1-150) beats per second
- Continuous mode produces constant beats per second (selection from 0-200)
- Phase duration: variable 0-415 microseconds, pulse interval 7.04 milliseconds.
- Cycle frequency: 71 cycles per second
- Lower cost relative to alternative sources of therapy
- Qualifies for most insurance plans

WARNING: FEDERAL LAW RESTRICTS THE SALE OF THIS DEVICE ON THE ORDER OF A LICENSED DOCTOR OR PHYSICIAN, UNDER THE LAWS OF THE STATE WHERE LICENSED TO PRACTICE.

Indications: *Muscle Stimulation Indications*-relax muscle spasm, prevention or retardation of disuse atrophy, maintain or increase range of motion, increase local blood circulation, re-educate muscle, immediate post-surgical stimulation of calf muscles to prevent venous thrombosis. *Interferential Stimulation Indications*-relieve acute pain, relieve and manage chronic pain. **Contraindications:** *Muscle Stimulation, Interferential and Non-Interferential Currents*- Do not use the device if you use a cardiac demand pacemaker. Do not use the device if you have any form of cancer. *Pain Relief, Interferential Current*- Do not use the device if you use a cardiac demand pacemaker. Do not apply current over the carotid sinus (neck) region. Do not apply pads such that current flows transcranially (through the head). Do not use this device whenever pain syndromes are undiagnosed, until etiology (cause) is established. **Warnings:** Use caution prior to using this device on patients suspected of having heart disease or for patients with suspected or diagnosed epilepsy. Severe spasm of the laryngeal and pharyngeal muscles (throat) may occur when pads are positioned over the neck or mouth. The contractions may be strong enough to close the airway or cause difficulty in breathing. The long-term effects of chronic electrical stimulation are unknown. Electrical stimulation should not be used over swollen, infected, or inflamed areas or skin eruptions, e.g., phlebitis, thrombophlebitis, varicose veins. Caution should be used in transthoracic (through the chest) application of electrical stimulation. The introduction of electrical current into the heart may cause cardiac arrhythmias (abnormally fast heartbeats). Do not use an electrical stimulator for muscle stimulation while driving, operating machinery, or during any activity in which involuntary muscle contractions may put a person at undue risk. Operation of the device may be affected by shortwave or diathermy therapy, high-frequency surgical equipment, and x-rays from computed tomography (CT) scanning. Do not use the device in an environment where flammable gases may be present. Simultaneous connection of a patient to a high frequency surgical device may result in burns at the site of the pads and possible damage to the device. The safety of electrical stimulation during pregnancy or birth has not been established. This device is not effective for pain of central origin (including headache). The device has no curative value. Electrical nerve stimulation is treatment intended to suppress or lessen the sensation of pain, which would otherwise serve as a protective mechanism. Electronic monitoring equipment (such as ECG monitors and ECG alarms) may not operate properly when stimulation is in use. **Precautions:** Use caution when there is a tendency to hemorrhage, such as following acute trauma or fracture. Use caution following recent surgical procedures when muscle contraction may disrupt the healing process. Do not use electrical stimulation over a menstruating or pregnant uterus. Do not use electrical stimulation where sensory nerve damage is present, causing a loss of normal skin sensation. Patients may experience skin irritation or hypersensitivity (rashes or allergic reactions) due to the electrical stimulation or pad/gel material. The irritation can usually be reduced by using an alternate type of pad or alternate pad placement. Do not submerge the device in liquids or expose it to large amounts of water. Removing or repositioning the pads while the RS-4i is operating can result in the sensation of increased treatment intensity. Isolated cases of skin irritation may occur at the site of pad placement following long-term application (beyond the prescribed treatment time). Effectiveness is highly dependent upon patient selection by a person qualified in the management of pain patients. Keep this device out of the reach of children. The device is provided under a doctor's prescription and should not be shared with others. Treatment outcome will be influenced by the patient's psychological state and use of drugs. Pad placement and stimulation settings should be based on the guidance of the prescribing doctor. The device should be used only under the continued supervision of your doctor. Contact your prescribing doctor if there is any change in an existing condition or if any new condition develops. Do not use if the device appears to be damaged from shipping or the carrying case is opened or damaged; if this occurs, call RS Medical Customer Service. Do not substitute or use any other components other than those supplied with the device. Components include: pads, connecting cables and an A/C adapter. **Adverse effects:** Possible adverse effects include skin irritation, allergic reaction, rash, skin damage, localized discomfort, electrical shock and electrode burns under the pads. Covered by one or more of U.S. Pat. No.(s) 5,755,745; 5,836,995; 6,393,328; 6,988,005; RE36,690; RE39,359. Additional application(s) pending.