

SURGIStIM 4™

Universal Patient Protocol

Control instructions

Press  to turn on the SurgiStim4.

- **To select a preset:**

Use  and , then press  to select.

- **To begin treatment:**

Press  button until comfortable intensity level is reached. To reduce intensity level, press  button.

NOTE: If your protocol includes two or more modalities, you must set intensity levels for each segment of treatment before you begin. Follow onscreen instructions.



- **To vector* in IF (interferential) mode:**

Press  button to vector stimulation and change intensity of channels. One channel will increase while the other decreases proportionately to target your pain. **Do not** vector stimulation if you have already set amplitude to your maximally tolerable levels.

- **To pause treatment:**

Press  button. To resume treatment, press  button again.

- **At conclusion of treatment:**

The SurgiStim4 beeps three times.

- **NOTE:** The SurgiStim4 has a patient safety feature in which the keypad will lock out after 30 seconds. This prevents accidental increases to stimulation. To increase the amplitude during treatment, after the keypad has locked, press the  button, then press  to increase to desired levels.

*Please refer to manual for complete description of vectoring.



For questions or concerns regarding the SurgiStim4, please contact VQ OrthoCare's Patient Care Department at **800.452.7993**.

Presets

Preset #1

PROVIDES 24 HOURS OF CONTINUOUS TREATMENT

First 40 minutes increases circulation, followed by 7 hours and 20 minutes of continuous pain control. Program cycle then repeats for 24 hours.

- Preset #1 should be used during first two post-op days, after which time presets #2, #3 or #4 (below) may be used.

Preset #2

PROVIDES 40 MINUTES OF TREATMENT

The first 20-minute cycle increases circulation. The second 20-minute cycle provides pain control.

Preset #3

PROVIDES CONTINUOUS PAIN CONTROL

- Use this preset as needed for continuous pain control only.

Preset #4

PROVIDES 40 MINUTES OF TREATMENT

The first 20-minute cycle increases circulation and reduces muscle spasm. The second 20-minute cycle provides pain control.

- Preset #4 may be used two to three times a day throughout your rehabilitation period.
- **NOTE:** Preset #4 is not recommended for the first 1-2 weeks following surgery, as it may cause soreness.

Preset #5

PROVIDES 24 HOURS OF CONTINUOUS TREATMENT

This preset provides 40 minutes of edema reduction followed by 7 hours and 20 minutes of pain control. The program cycle then repeats for 24 hours.

- Preset #5 may be used instead of Preset #1 during the first two post-op days, after which time Presets #2, #3 or #4 may be used
- **NOTE:** This preset maybe used requires specific electrode and leadwire placement for Preset #5. (Inside page)

Preset

PROVIDES _____ MINUTES OF TREATMENT

This preset may be used _____ / day.

Comments _____

SURGIStIM 4™

Component Use and Care

Electrodes

IMPORTANT: Read the instructions for the application and use of electrodes found on the electrode package and in the patient operating manual.

- Sterile (surgical) electrodes should not be removed until you have seen your physician for a follow-up appointment or within 10 days, whichever occurs first.
- When removing sterile electrodes, **always** use adhesive-remover towelettes. Gently grasp edge of electrode and slowly peel away from skin while wiping the towelette back and forth between the sticky surface of electrode and your skin.
- Reusable, self-adhering electrodes are included in your kit and can be used as soon as sterile electrodes have been removed.
- **Do not** use alcohol to clean skin surface.
- Apply reusable, self-adhering electrodes to dry, clean, unbroken skin surfaces only, checking all edges for proper adhesion.
- **Do not** apply skin lotion prior to application of reusable electrodes.
- Reusable electrodes should always be placed at least **one inch apart**.
- Remove reusable electrodes before showering.
- Once reusable electrodes are removed from skin, adhesive-remover towelettes can be used to clean off any adhesive residue.
- If you experience symptoms of skin irritation while using the SurgiStim4, discontinue use immediately and contact VQ OrthoCare's patient care department at **800.452.7993**, or consult your physician.

Caution

Electrodes should be discarded and replaced if damaged or when proper adhesive tack can no longer be obtained, the gel has separated, or you sense a change in stimulation intensity. If in doubt about the integrity or proper function of any electrode, replace it before proceeding with treatment. **IF USING PAIN MEDICATION AND/OR OTHER PAIN MANAGEMENT DEVICES, EXERCISE CAUTION WHEN INCREASING AMPLITUDE ON THE SurgiStim4.**

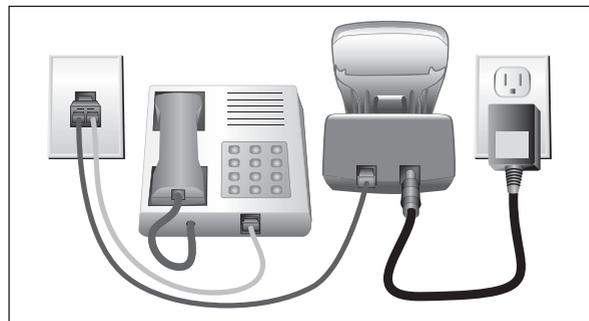
Warning

This device is designed for use only with electrodes approved for medical electrical stimulation.

Batteries and AC adapters

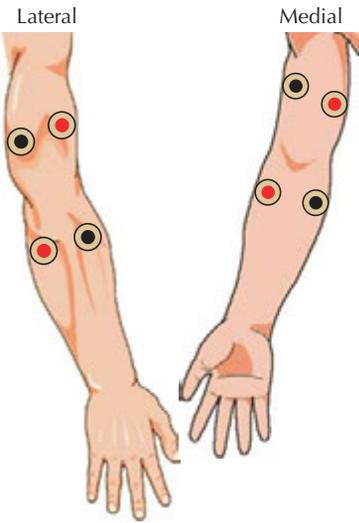
- The SurgiStim4 can be operated with two types of power sources: VQ OrthoCare Power Packs or an AC adapter.
- A low-battery indicator flashes in upper left corner of screen when battery is low. Remove alkaline Power Packs and dispose of properly.
- The AC Adapter will **NOT** recharge Power Packs.
- Replacement alkaline Power Packs can be ordered from VQ OrthoCare's Patient Care Department at 800.452.7993.

Modem set up

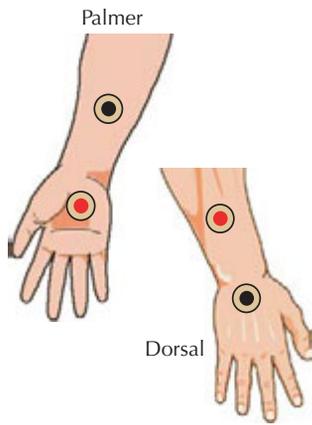


VQ OrthoCare does not assume liability for the improper use of this equipment.

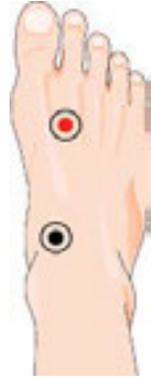
Electrode Placement for Presets 1- 4



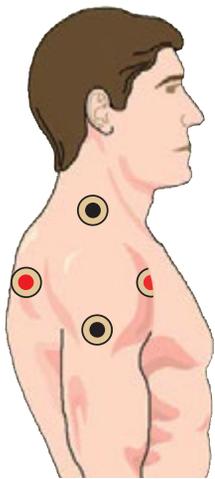
Elbow



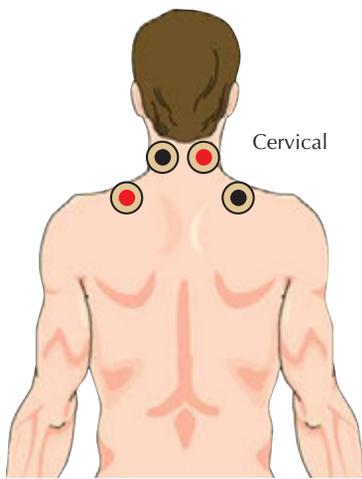
Hand



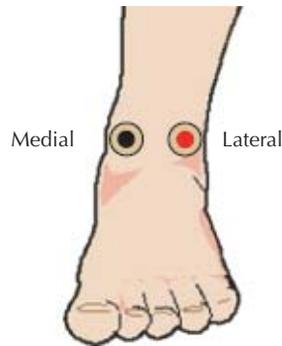
Foot



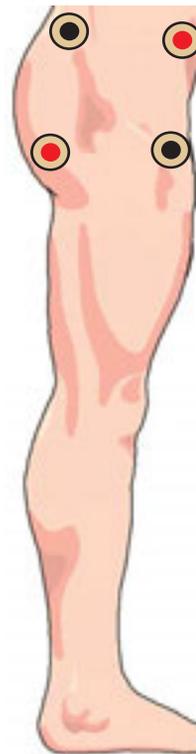
Shoulder



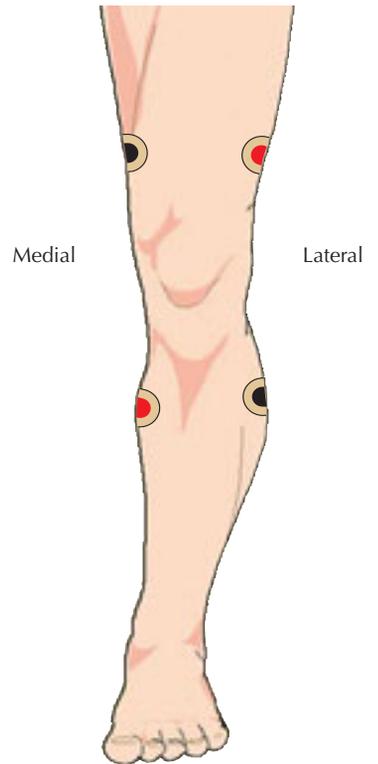
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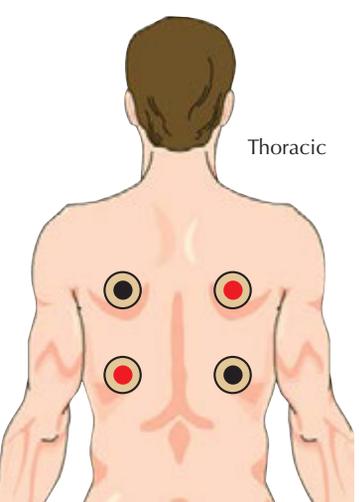
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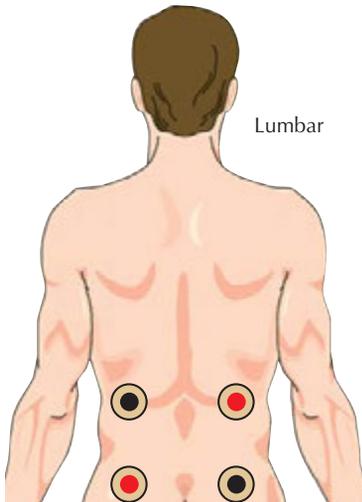
Hip



Knee

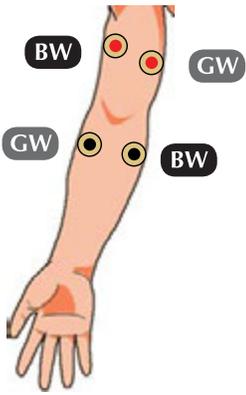


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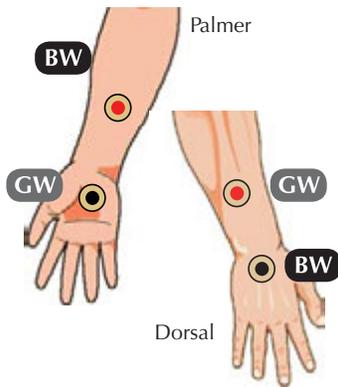


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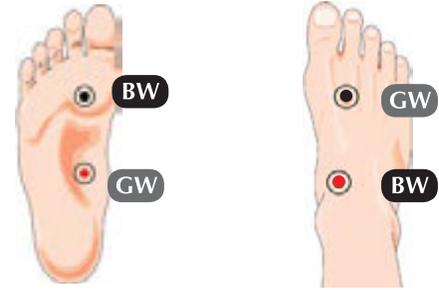
Electrode Placement for Preset 5



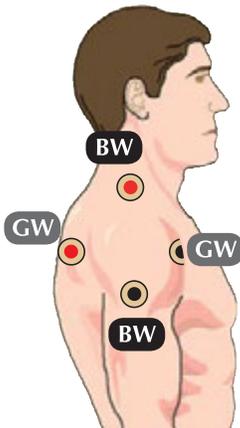
Elbow



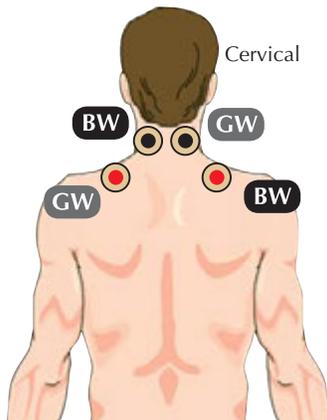
Hand



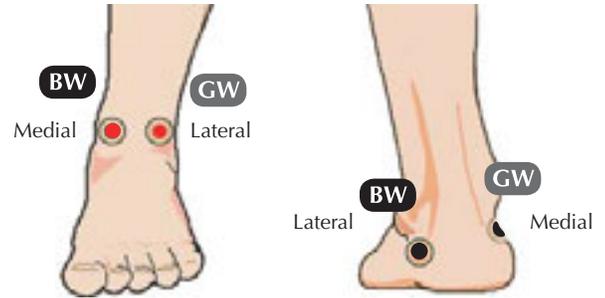
Foot



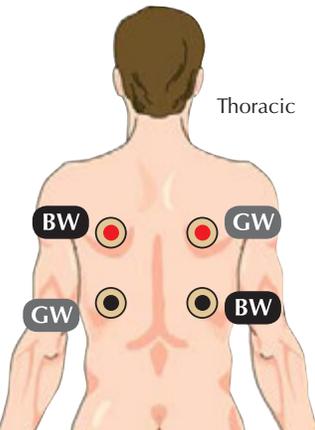
Shoulder



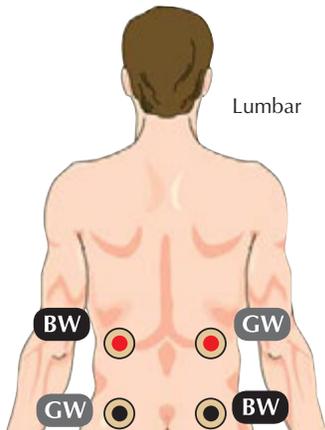
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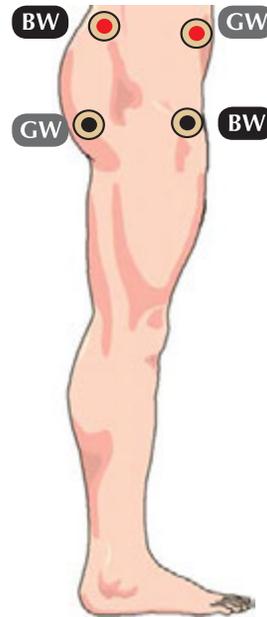
Ankle



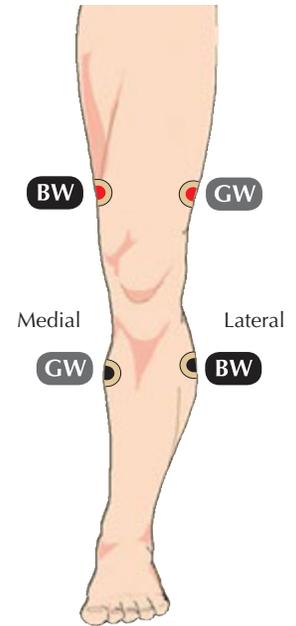
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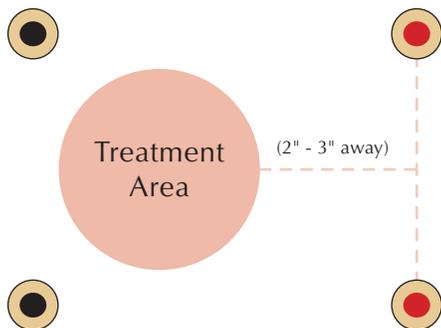


Hip



Knee

Electrode Placement Guide



The two black electrodes should be placed over the treatment area. The two red electrodes should be placed a couple of inches away from the treatment area. If possible place red electrodes closer to the center of the body (i.e. towards the trunk). For example, when black electrodes are placed on the knee, red electrodes should be placed on the thigh rather than the ankle. The lead wires must be connected according to the colors of in the diagram.



Indications

The High Volt Pulsed Current Stimulation and Neuromuscular Electrical Stimulation can be used in the following applications:

- Relaxation of muscle spasms
- Prevention or retardation of disuse atrophy
- Increases local blood circulation
- Muscle re-education
- Maintaining or increasing range of motion
- Immediate post-surgical stimulation of calf muscles to prevent venous thrombosis

Interferential Stimulation can be used in the following applications:

- Symptomatic relief of post traumatic acute pain
- Symptomatic relief of chronic intractable pain
- Relaxation of muscle spasms
- Maintaining or increasing range of motion
- Increases local blood circulation:

Pulsed Direct Current Stimulation can be used in the following applications:

- Reduction of edema (under negative electrode)
- Relaxation of muscle spasm
- Increasing local blood circulation
- Retardation or prevention of disuse atrophy
- Muscle re-education
- Maintaining or increasing of range of motion

Contraindications

- Stimulators should not be used on patients with cardiac demand pacemakers

Warnings

- The long-term effects of chronic electrical stimulation are unknown
- Stimulation should not be applied over the carotid sinus nerves, particularly in patients with a known sensitivity to the carotid sinus reflex
- Stimulation should not be applied over the neck or mouth; severe spasm of the laryngeal and pharyngeal muscles may occur and the contractions may be strong enough to close the airway or cause difficulty in breathing
- Stimulation should not be applied transthoracically; introduction of electrical current into the heart may cause cardiac arrhythmias
- Stimulation should not be applied transcerebrally
- Stimulation should not be applied over swollen, infected, or inflamed areas or skin eruptions, e.g. phlebitis, thrombophlebitis, varicose veins, etc.
- Stimulation should not be applied over, or in proximity to, cancerous lesions

Precautions

- Safety of stimulators for use during pregnancy has not been established
- Caution should be used for patients with suspected or diagnosed heart problems
- Caution should be used for patients with suspected or diagnosed epilepsy
- Caution should be used in the presence of the following:
 - When there is a tendency to hemorrhage following acute trauma or fracture;
 - Following recent surgical procedures when muscle contraction may disrupt the healing process;
 - Over the menstruating or pregnant uterus; and
 - Over areas of the skin which lack normal sensation
- Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or electrical conductive medium; the irritation can usually be reduced by using an alternative conductive medium or alternate electrode placement
- Electrode placement and stimulation setting should be based on the guidance of the prescribing practitioner
- Keep out of the reach of children
- Use only with the leads and electrodes recommended for use by the manufacturer
- Portable stimulators should not be used while driving, operating machinery, or during any activity in which involuntary muscle contractions may put the user at undue risk of injury

Adverse Reactions

Skin irritation and burns beneath the electrodes have occasionally been reported with the use of stimulators.

Caution

Federal law restricts this device to sale by, or on the order of, a practitioner licensed by the law of the State in which he/she practices to use or order the use of this device.

SURGISTIM 4™



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