Skin and Wound Product Information Sheet

geko wound therapy device

Classification	Device: Muscle Pump Activator
Key Points	• A "watch-like" medical device designed to provide an electrostimulation to the common peroneal nerve. This stimulation triggers the calf and foot muscles to pump, thereby improving blood circulation in the lower limb. • Each device delivers two days of therapy, 12 hours/day. Therapy can be paused for up to three hours during a therapy session, e.g., for showering or driving. There needs to be at least 6 hours between each therapy session. • The first sign that the therapy is having an effect may be the client's report of decreasing pain or, for venous insufficiency, a decrease in the heaviness of the leg. Therapy may be required for several weeks to achieve full effectiveness, e.g., decrease in edema or improved wound healing. • Therapy involves the client or family and requires the ability to reach the area and hand dexterity to apply and remove the device and press the ON/OFF buttons. Client teaching and weekly monitoring of progress is needed. • The device contains a lithium battery and a ferro-magnetic component.
Indications	• To be used under the direction of a Physician/NP/NSWOC/Wound Clinician for clients with: ○ Venous Insufficiency with or without a wound and with or without compression ○ Arterial Insufficiency with or without a wound ○ Dependent edema
Precautions	• Skin inflammation or irritation can develop over the contact site. If this occurs, either remove the device or re-locate the device to one of the two alternate fitting positions (see page 2). Consult with NSWOC/Wound Clinician for treatment of skin issue. • Consult with Physician/NP prior to use for clients who have: ○ Implanted medical devices e.g., cardiac pacemakers, insulin pumps, etc. ○ Suspected DVT or recent diagnosis of a DVT. ○ Diagnosed heart condition. ○ Epilepsy ○ Had recent surgery to the lower limbs in which muscle contractions may disturb healing. • Device has not been tested on children therefore not recommended for their use. • Do not wear device while showering/tub bathing. • Do not wear device while driving or operating machinery as device may cause involuntary muscle contraction. • Remove device prior to MRI procedure as device contains ferromagnetic components. • Turn device off during ECG procedure as the device may interfere with the ECG leg signal. • Do no wear in oxygen-rich environment • Do not wear in proximity to the following as it may cause diminished performance: ○ Short wave or microwave equipment (i.e., within 1m). There is no issue with microwave ovens. ○ Portable RF communication equipment including antennae (i.e., 30cm) ○ Heat sources e.g., fires or radiant heaters.
Contraindications	• Do not use for clients who have an allergy to acrylic acid or acrylic polymers. • Do not use the device on any other body part other than the lower limb. • Do not apply over or near infected wounds, broken skin, skin eruptions, varicose veins, DVT, or cancerous lesions.
Formats & Sizes	Kit includes 7 devices; each device provided 2 days of therapy, 12 hours/day, for a total of 2 weeks of therapy for one limb. 

Application Directions	Rationale
If needed, remove hair from the knee area with trimmers or clippers; do not shave.	Shaving may lead to skin irritation.
Cleanse the area around the knee with approved skin cleanser, pat dry. Do not apply moisturizer to the area.	Applying moisturizer to the area under the device may cause the device to slip out of place.

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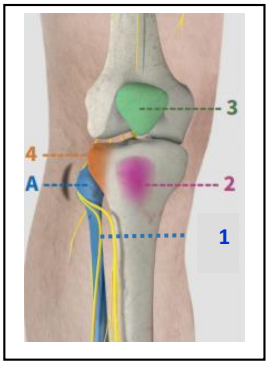
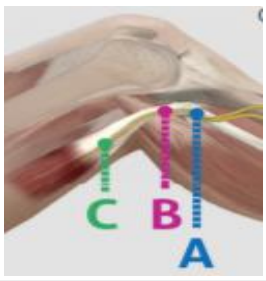
To Apply the Device	
Find the fibula head of the lower leg. Mark the site with permanent marker to ensure the site can be easily located at the next therapy session. Remove the device from its backing card. Position the device such that the blue strap goes around the front of the leg and the white strap around the back. Line up the ▸▸●◂◂ (marker line) to sit over the fibula head. Secure the strap. Ensure a snug fit. If needed, peel off one end of the device to gently tighten it but do not apply tension. For added security, apply the adhesive strip (included in the kit). When correctly fitted, the word 'geko' will be beneath the patella and the device buttons on the outside of the leg.	1. **Fibula Bone** 2. **Tibial Tuberosity** 3. **Patella** 4. **Tibial Lateral Condyle** A. **Fibula Head** with the common peroneal nerve running just under it.  
Setting the Therapy	
There are 10 settings, each setting will flash its corresponding number e.g., 7 and then pause. Turn on the device by pressing the ⊕ button. Use the ⊕ and the ⊖ to select correct setting.	The correct setting is determined when there is a slight twitch (lateral and dorsiflexion) in the foot that is tolerable to the client; this twitch should continue for the length of the therapy. Note: in the presence of large amounts of edema, the twitch may not be noted for several days.
To Remove the Device	
Carefully remove the strap, ensuring not to damage the skin. Store the device on its backing card and inside its protective foil pouch until the next therapy day. At the end of the second day of therapy, the device shuts down automatically. Device can be disposed off as electronic waste where available.	
Frequency of Therapy	
Therapy sessions should ideally be 12 hours each day with at least a 6-hour break between therapy sessions. Therapy may be stopped for up to 3 hours per session. If stopped for more than 3 hours, the device loses the remaining hours for that therapy session. Therapy may need several weeks to show effectiveness.	Each kit provides 7 devices for a 2-week period. One device provides 2 days for therapy, 12 hours/day. The six hour break is to promote good skin health of the area.
Expected Outcome	
Decrease in the edema related to venous insufficiency. Improved blood circulation related to arterial insufficiency. Decreased dependent edema. Improved lower limb wound healing due to improved venous/ arterial circulation.	If a twitch cannot be elicited using site A, try positioning the device over an alternate site (B or C) along the lateral hamstring tendon. **A - Fibula Head** **B - Lateral Hamstring (at knee joint)** **C - Lateral Hamstring (above knee joint)** 
For further information, please contact: NSWOC/WC	