Lower Leg Ulcers

Chronic wounds represent a silent epidemic that affects a large percentage of the world population and poses a major and gathering threat to the public’s health and the global economy.

What is the geko™ device?

The geko™ device is a Health Canada-registered muscle pump activator which is:

- Small (10g) and discreet, easy to use, self-contained, self-adhesive, battery-operated and completely recyclable
- Worn at the fibular head to stimulate the common peroneal nerve, gently and effectively activating the lower leg and foot muscle pumps
- With 10 settings it can be adjusted for patient comfort and optimal response
- Worn 6 hours per day, 6 days per week, each device lasts two days
How does the geko™ device impact blood flow and wound healing?

When activated geko™ significantly increases:

- Healing rates in lower limb and foot wounds of various etiologies when used as an adjunctive therapy in combination with evidence-based wound care^6-10
- Venous and arterial volume and microcirculatory flow in the lower limbs in healthy individuals and those with peripheral arterial disease (ABPI 0.45 -0.68)^2-3
- Venous peak velocity with chronic venous insufficiency (CVI)^4
- Microcirculatory red blood cell flux:
  - by 1000% in healthy individuals (upper image below)^5
  - by 225% to the wound bed and 67% to the peri-wound skin in an infected venous ulcer (lower image below)^5

What benefits can the patient and health care professional expect?

In a series of case studies and trials:

Clinicians reported:

- Improved wound appearance^6-7,9
- Accelerated weekly healing rates and time-to-healing in patients who were adherent to the geko™ and best practices^6-10
- Reduction in chronic edema^11-12
- Improved tolerance to therapeutic levels of compression therapy where required^6-7

Patients reported:

- Decreased nociceptive & neuropathic pain^6-10
- Increased mobility and level of activity^6-7
- Improved quality of life^6-9,13
- Increased patient engagement with self-care^6-7

Patients and Clinicians reported:

- Increased mobility and level of activity^6-7
- Improved quality of life^6-9,13
- Increased patient engagement with self-care^6-7

Where can I find more information?

Go to www.gekowound.ca to find the:

- How to use the geko™ wound therapy device “fitting” video
- Annotated bibliography - contains reference citations with brief summaries (found under “Other Wound Therapy Collateral”)
- Links to hemodynamic videos, published papers, testimonials, webinars and case studies
- Online learning courses www.gekolearning.ca

Breaking the cycle of chronic wounds