


Wound Care

Progressing healing in lower leg ulcers



Wound Complications

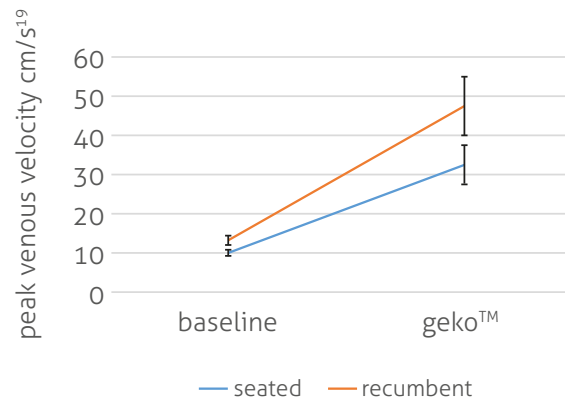
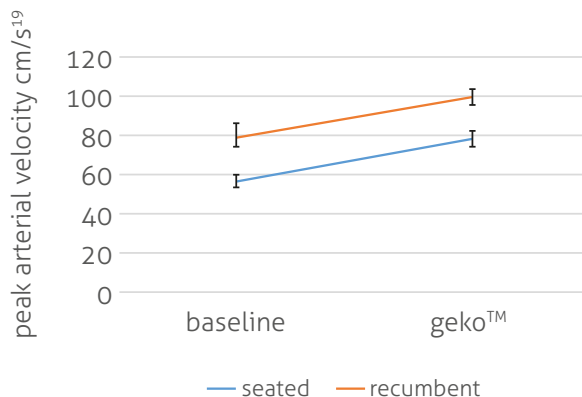
- Chronic wounds represent a silent epidemic that affects a large percentage of the world population and poses a major and gathering threat to the public's health and the global economy¹
- Wounds, including venous leg ulcers can often have compromised blood flow^{2,3}
- Impaired calf muscle pump function increases venous stasis, venous hypertension and can negatively impact the severity of venous ulcerations^{4,5,6,7}
- Improved blood circulation results in enhanced wound closure^{3,8} a natural healing response
- The geko™ device increases venous, arterial and microcirculatory blood flow in the lower limb in patients with chronic venous insufficiency^{9,10} and intermittent claudication¹¹. It also reduces edema^{12,13}, activates the calf muscle pump¹⁴ and maintains TCpO₂ – promoting conditions suitable for wound healing^{15,16}



A paradigm
shift in the
management
of leg ulcers

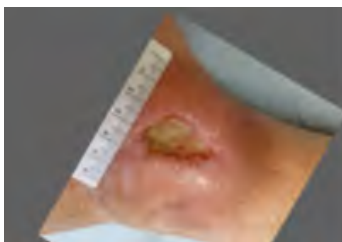
How does the geko™ device work?

- The geko™ device gently stimulates the common peroneal nerve activating the calf and foot muscle pumps, resulting in increased blood flow in the deep veins of the calf¹⁷
- It delivers a blood flow increase equal to 60% of walking, making it ideal for patients with compromised blood flow and who are unable to move¹⁸
- When active, the geko™ device significantly increases both arterial and venous velocity¹⁹

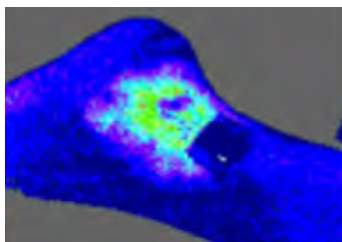


Speckle spectroscopy – evaluation of microcirculation in a leg ulcer

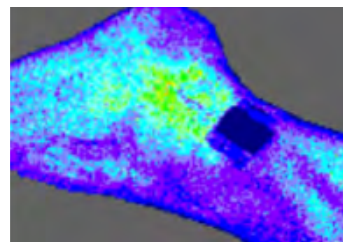
- Contrast speckle imaging demonstrates a **225%** increase in microcirculatory blood flow in the wound bed, and a **67%** increase in microcirculatory blood flow surrounding the peri-wound area, after activation of the geko™ device²⁰
- This increase in blood flow demonstrates how the geko™ device promotes favourable conditions to the wound bed²¹
- The geko™ device also improves microcirculation



Affected ulcer



Baseline speckle flow pattern



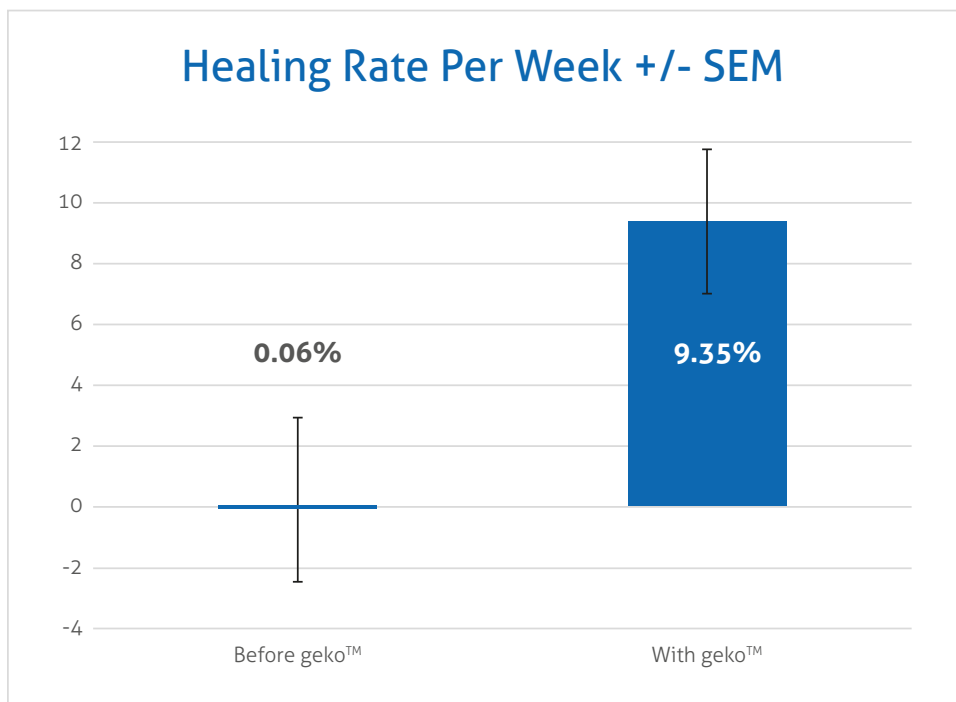
After activation of the gekoto™ device

Clinical Evidence

Proven to progress healing – Study 1²²:

- 11 patient cohort whose VLU had not closed in 12 weeks
- 107 year history of recalcitrant ulcers
- geko™ when added to their usual standard of care resulted in a 7% reduction of wound surface area per week
- This is the level of healing rate progression targeted in new ulcers

Proven to accelerate healing – Study 2²³:



- 12 patients with 18 recalcitrant ulcers recruited
- <30% closure in 30 days prior to study entry
- Mean weekly healing rate at baseline was 0.06% per week
- With patients as own controls, geko™ plus standard of care healing rate was 9.35% per week, a statistically significant increase ($p < 0.01$)

Self-contained and wearable, the geko™ device 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



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