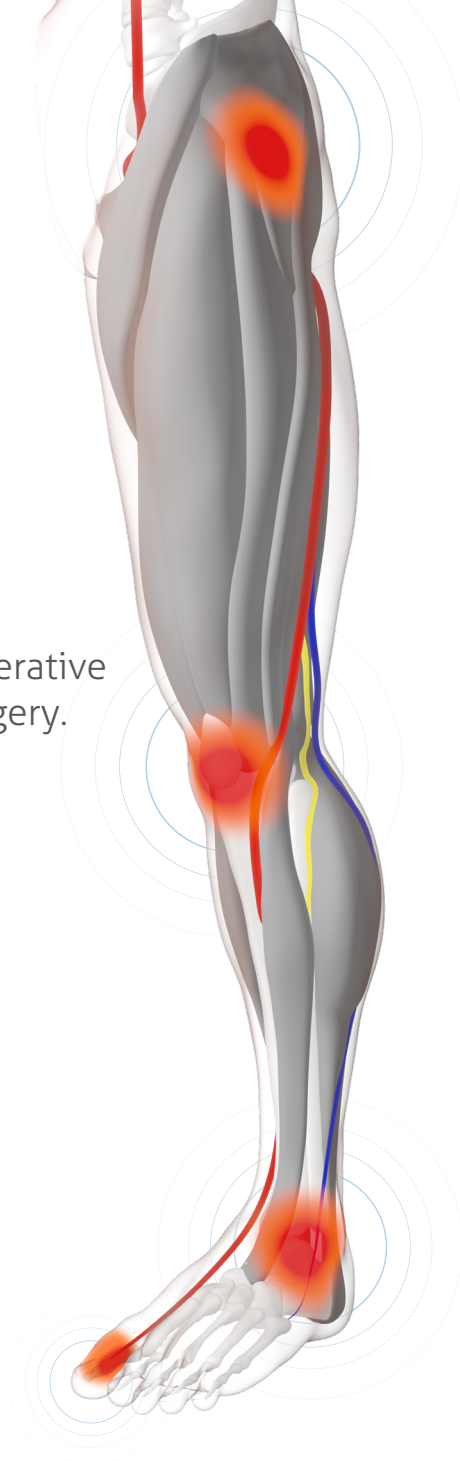


Post-operative oedema reduction

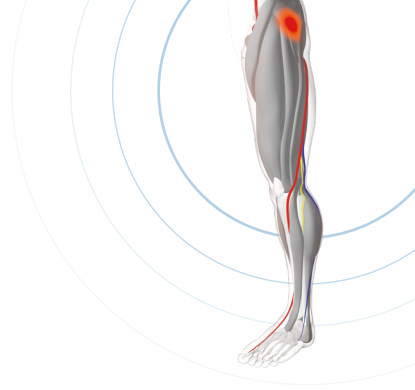
Preventing the build-up of post-operative
oedema following orthopaedic surgery.



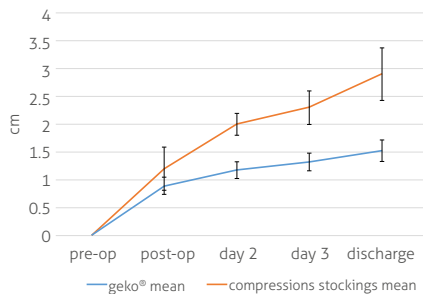
Post-operative oedema prevention – THA

Preventing the build-up of post-operative oedema following total or partial Hip Replacement Arthroplasty (THA).

An RCT comparing the effectiveness of the geko® device to compression stockings in preventing the formation of oedema following total hip replacement surgery demonstrates the prevention of oedema build-up in the operated leg.¹

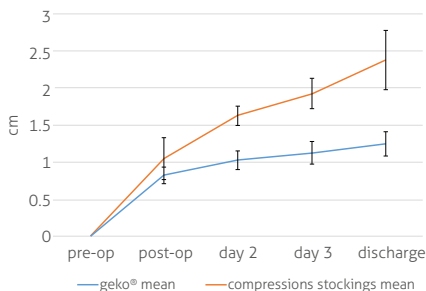


Change in Thigh Circumference, Operated Leg:

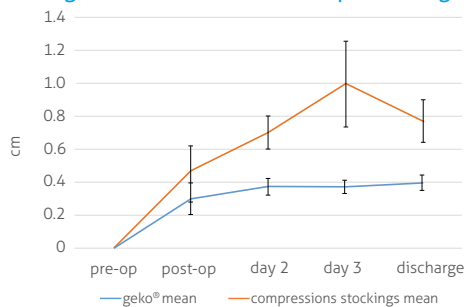


Over 67% reduction compared to the control arm. P = 0.02

Change in Knee Circumference, Operated Leg:



Change in Ankle Circumference, Operated Leg:

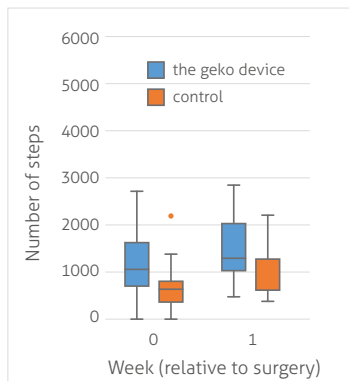


Post-operative oedema prevention – TKA

Preventing post-operative oedema following total or partial Knee Replacement Arthroplasty.

Study results show geko® device vs standard of care (SoC) following TKA:

More active patients



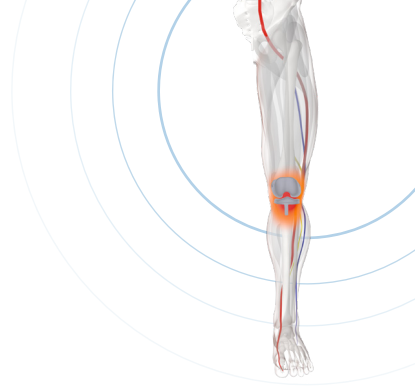
In the first 7 post-operative days vs. SoC the geko device group showed significantly higher physical activity levels. Statistically significant at week 1 ($P = 0.008$).²

Cessation of NSAID drug

Outcome	geko	Control group	p-value
NSAID stop	27 (19-29)	40 (32-48)	0.010

Discontinued NSAIDs 13 days earlier vs SoC ($P=0.0010$).²

*TKA = Total Knee Arthroplasty



Post-operative oedema reduction – Foot & Ankle

Preventing post-operative oedema following foot and ankle surgery.

A study comparing the effectiveness of the geko® device plus standard of care (SoC), to SoC alone, demonstrated a statistically significant reduction in oedema across the range of foot and ankle surgery types studied.³

Significantly less oedema:

Study results show the oedema reduction difference between the involved and uninvolved leg at day 14, and reports:

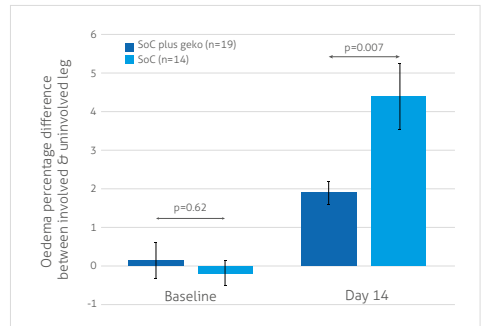
- Statistically significant reduction in oedema ($P=0.007$).
- Oedema halved in the geko+SoC arm. See graph 1.
- Significantly more surgical site wounds healed in the geko device arm compared to the SoC arm ($p=0.041$).⁴ See graph 2.
- A doubling in the rate of return to normalisation⁴ - highly relevant as peak oedema in the range of procedures studied is reported to be between 5 and 7 days.⁵

Wider proven post-surgical recovery:

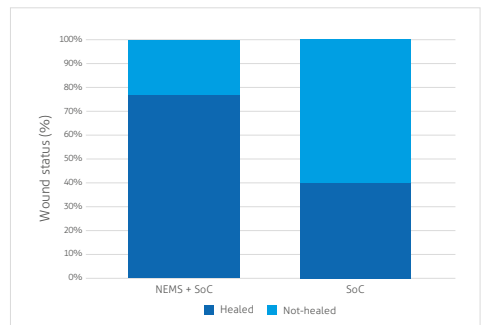
Significantly improved wound healing ($p=0.04$) has also been observed, as early as three days, in high-risk kidney transplant, alongside a significant reduction in wound infection rates ($p=0.03$), in patients using the geko device vs. standard TED + IPC therapy – demonstrating wider enhanced post-surgical recovery and lower complication-related resource utilisation and costs.⁶

Associated benefits:

The geko device also provides venous thrombosis prevention (VTE). See NICE guidance (HTG344).⁷



Graph 1. Oedema difference between involved and uninvolved leg at baseline and 14 days.



Graph 2. Wounds healed at 14 days (Forefoot)

A new approach

Easy-to-use, the geko[®] device is a battery powered, disposable muscle pump activator (MPA) clinically proven to increase blood flow in the deep veins of the leg.⁸

Through its unique mechanism of neuromuscular electrostimulation, the geko device gently stimulates the common peroneal nerve contracting the calf and foot muscle pumps to prevent and treat oedema.

60%

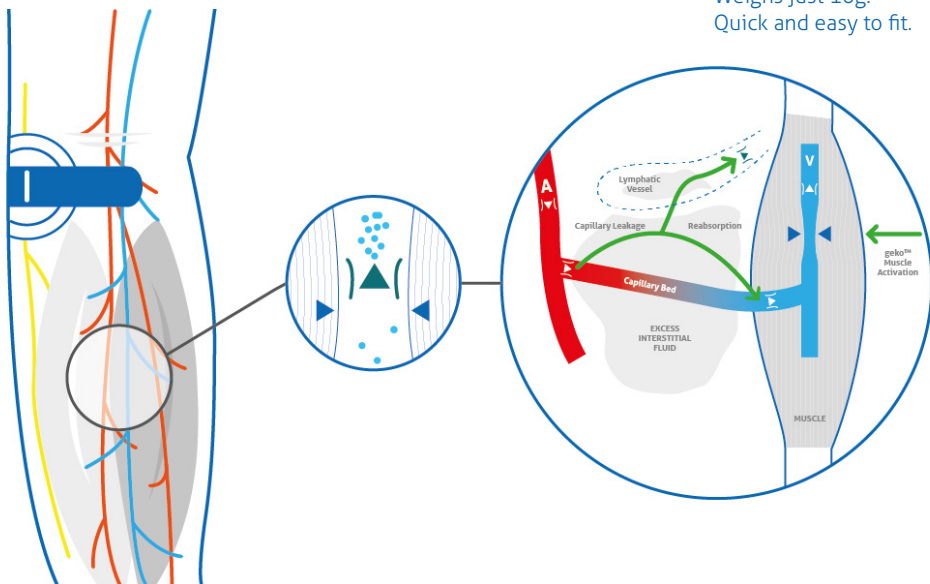
The increase in blood flow is equal to 60%⁹ of walking without a patient having to move.

Zero

No wires or leads.
Small, light and comfortable to wear.
Silent in operation.

10g

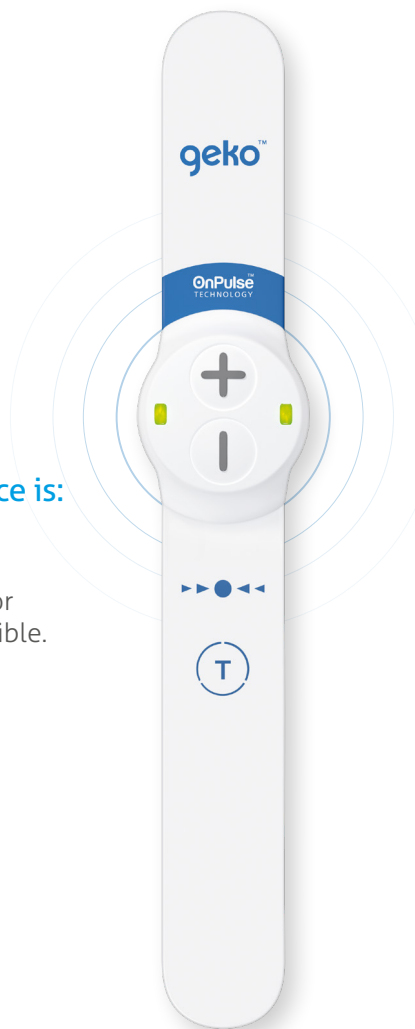
Weights just 10g.
Quick and easy to fit.



Providing lower limb muscle contraction for the prevention and treatment of oedema

Self-contained and wearable, the geko[®] device is:

- Simple and easy to use.
- Small and light (weighing just 10g) with no wires or leads, enables the patient to be as mobile as possible.



References

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