



The geko™ device



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living science

The geko™ is a battery powered, disposable, neuromuscular electro-stimulation device designed to increase blood flow in the veins of the leg, reducing the risk of VTE.

The geko™ device stimulates the common peroneal nerve activating the calf and foot muscle pumps and increasing venous, arterial, and microcirculatory blood flow².



References

1. NICE medical technologies guidance [MTG19] Published date: June 20th 2014
2. Tucker AT et al, Int J Angiol. 2010 Spring; 19(1): e31-e37

Clinical applications include:

- increased blood circulation
- the prevention of venous thrombosis
- the prevention and treatment of oedema
- the treatment of venous insufficiency and ischemia
- Treatment of diabetic foot and venous ulcer
- healing after tendon and ligament injuries

The geko™ device - blood flow increase

The geko™ delivers venous, arterial and microcirculatory blood flow enhancement

Changes from baseline in healthy volunteers	Venous Volumetric Flow	Arterial Volumetric Flow	Microcirculatory Flux
geko™ device	Up to 101% increase ¹	Up to 75% increase ¹	Up to 400% increase ²

Increases blood volume and velocity up to 60% of walking - without having to move or exert energy²

Increases blood flow in the deep veins³

	Peroneal vein	Tibial vein	Gastrocnemial vein
Volume flow Increase	36%	25%	17%

References

1. Williams *et al*, Phebiology pub online 2014
2. Tucker AT *et al*, Int J Angiol. 2010 Spring; 19(1): e31-e37
3. Nicolaides AN *et al*, accepted for publication