

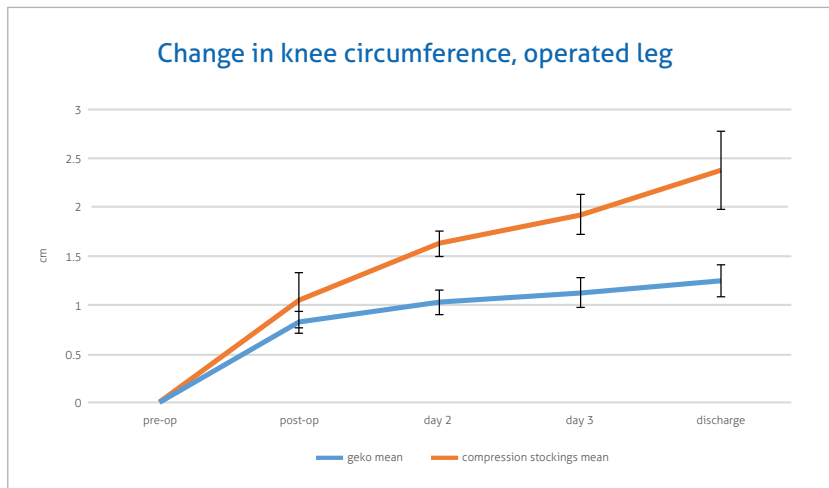
## Post-operative oedema reduction

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

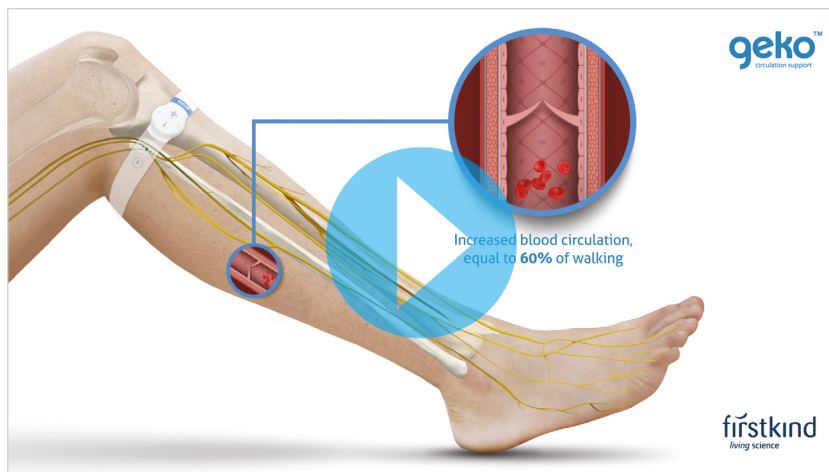
Swelling in the knee, in the acute recovery period following Total Knee Arthroplasty (TKA) can impair quadriceps muscle strength and rehabilitation<sup>1</sup>. An RCT evaluating geko<sup>TM</sup> device effectiveness in preventing oedema formation following total hip replacement surgery shows a reduction to knee circumference on the operated leg<sup>2</sup>.

### Link to paper

A feasibility randomised controlled trial to evaluate the effectiveness of a novel neuromuscular electro-stimulation device in preventing the formation of oedema following total hip replacement surgery



### Mechanism of action animation video:



[www.gekodevices.com](http://www.gekodevices.com)

References:

1. Stevens-Lapsley E et al. Early Neuromuscular Electrical Stimulation to Improve Quadriceps Muscle Strength After Total Knee Arthroplasty: A Randomized Controlled Trial. *Phys Ther* 2012 Feb; 92(2): 210–226. Published online 2011 Nov 17. doi: [10.2522/ptj.20110124].
2. Wainwright T W et al. Feasibility randomised controlled trial to evaluate the effectiveness of a novel neuromuscular electro-stimulation device in preventing the formation of oedema following total hip replacement surgery. *Heliyon*. 2018 Jul; 4(7): e00697. Published online 2018 Jul 18. doi: 10.1016/j.heliyon.2018.e00697.

