

Tissue fibrosis is improved with addition of textured compression garment to patients' chronic oedema management program

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INTRODUCTION

- Chronic oedema increases limb volume but also creates trophic changes.¹⁻³
- Compression has a positive impact on trophic changes including reduced tissue fibrosis.¹⁻⁴
- Textured compression, utilizing chipped foam or channelled foam, has a significant improvement on tissue fibrosis.⁵
- Aim of this study was to objectively measure the change in tissue fibrosis following the use of a textured compression product.



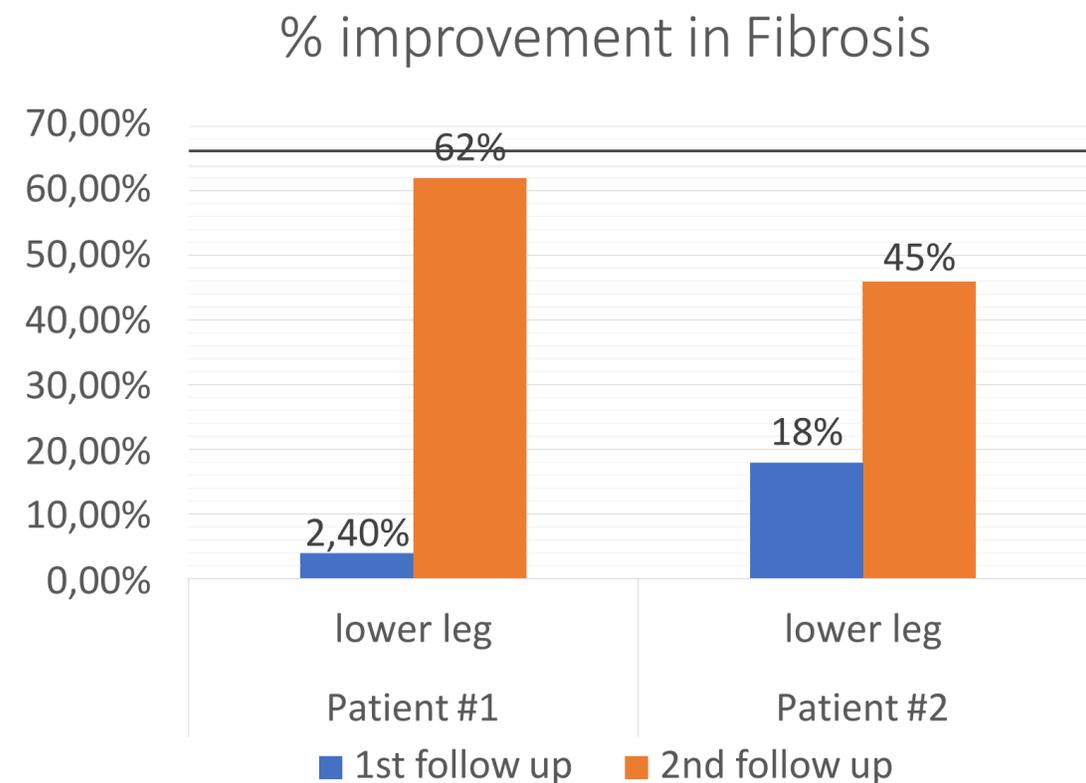
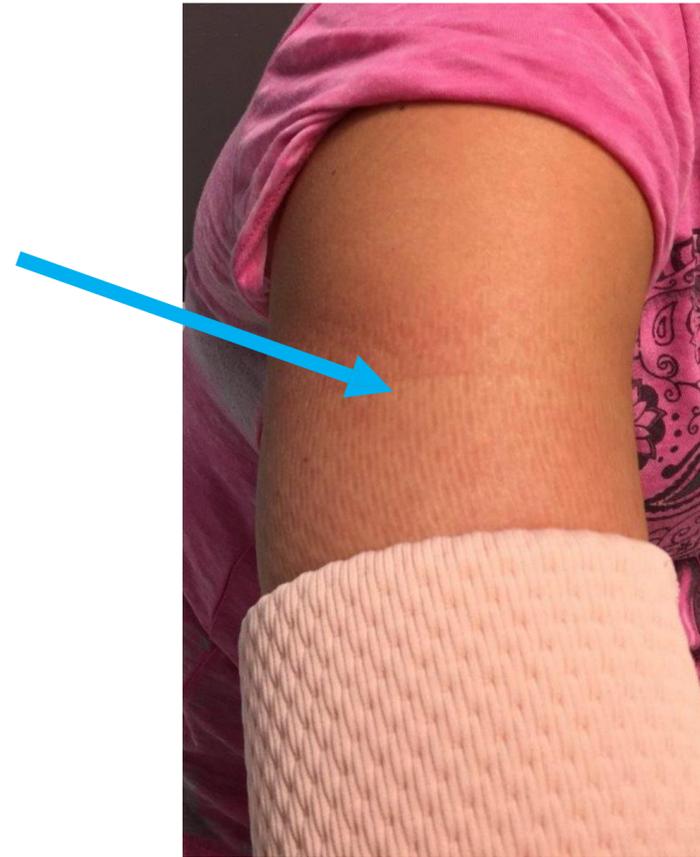
TributeNight™ - Lohmann & Rauscher GmbH & CO. KG



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Methods

- Observational study assessed outcomes of four patients (n) utilizing a textured compression garment at night.
- Objective measurements included: volume of the limb, tissue density (fibrosis), and subjective feedback from patient. Measurements were taken at three different intervals over a two month period. Tissue density was measured using a tissue tonometer. ⁶⁻⁸



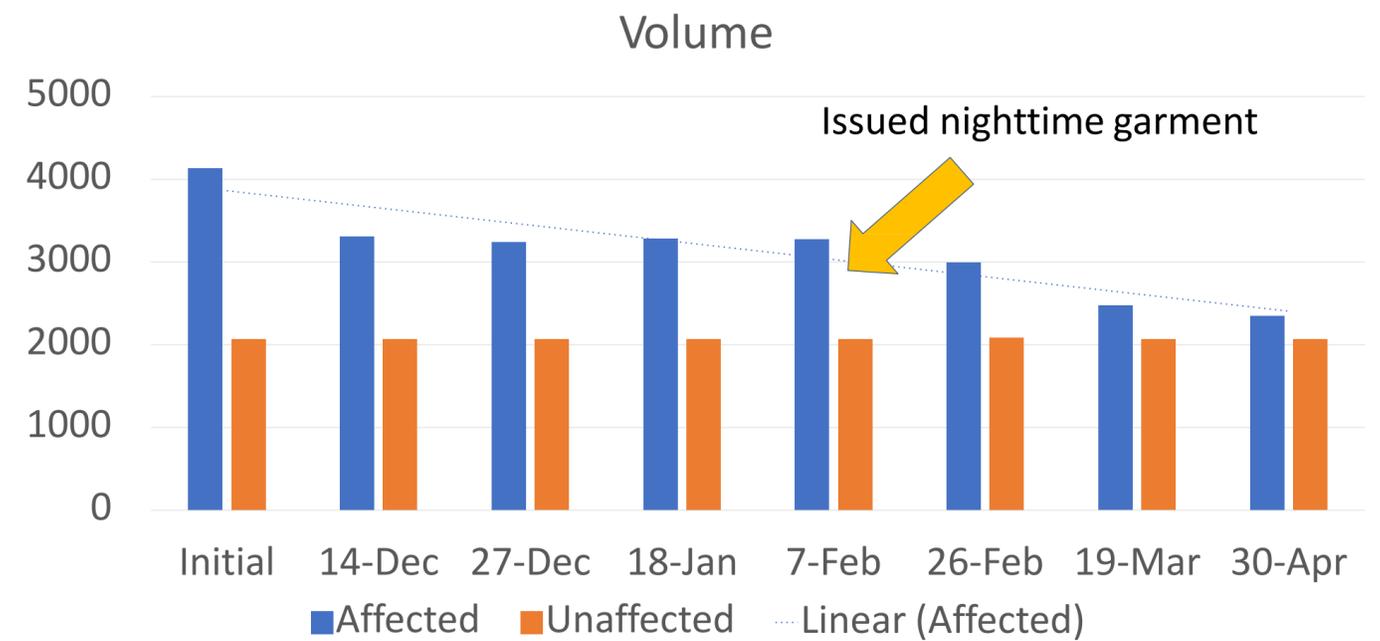
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Results/Discussion

- In all subjects, both volume and tissue fibrosis were reduced. Two out of four subjects were recorded with at least a 5% reduction in volume and two out of four subjects recorded a 5% tissue density improvement.
- Patients reported increased movement and reduced heaviness of limb.



Conclusion

- The use of textured compression garments as part of a night time regimen reduced tissue fibrosis for patients with chronic oedema.
- Additional study is needed to assess impact compliance and concordance with garment regimens when fibrosis is decreased.



"This is my best friend!"



"It's so much easier to manage the day swelling with the night time garment."



Quality of Life rating improved from 4/10 to 7/10 after using night time garment



"It's so comfortable at night I can't realize I'm sleeping in it."