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Authors: Manon Westra, Jaap J. van Netten, Hendrik A. Manning, Jeff G. van Baal, Sicco A. Bus



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Effect of different casting design characteristics on offloading the diabetic foot

Manon Westra^{a,*}, Jaap J. van Netten^{a,b}, Hendrik A. Manning^a, Jeff G. van Baal^a, Sicco A. Bus^{a,c}

^a Department of Surgery, Diabetic Foot Unit, Hospital Group Twente, Almelo, the Netherlands

^b School of Clinical Sciences, Faculty of Health, Queensland University of Technology, Brisbane

^c Department of Rehabilitation, Academic Medical Center, University of Amsterdam, Amsterdam Movement Sciences, Amsterdam

* Corresponding author at: Diabetic Foot Unit, Department of Surgery, p/a Hospital Group Twente, P.O. Box 7600, 7600 SZ Almelo, The Netherlands
E-mail address: westra.manon@gmail.com (M. Westra)

Research Highlights

- The TCC gives superior offloading for plantar diabetic foot ulcers
- This offloading results from its optimal shaft effect
- A removable TCC is inferior compared to a non-removable TCC
- The superior offloading effect of the TCC comes at some walking comfort expense
- The TCC is the first treatment option for neuropathic plantar diabetic foot ulcers

Abstract

Background: Non-removable knee-high devices, such as a total contact cast (TCC), are recommended for offloading diabetic plantar forefoot ulcers. However, it is insufficiently known how each of the different design characteristics of these devices contribute to offloading the diabetic foot.

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