

Author's Accepted Manuscript

A clinically applicable non-invasive method to quantitatively assess the visco-hyperelastic properties of human heel pad with implications for assessing the risk of mechanical trauma

Sara Behforootan, Panagiotis E. Chatzistergos, Nachiappan Chockalingam, Roozbeh Naemi



PII: S1751-6161(17)30067-X
DOI: <http://dx.doi.org/10.1016/j.jmbbm.2017.02.011>
Reference: JMBBM2232

To appear in: *Journal of the Mechanical Behavior of Biomedical Materials*

Received date: 11 November 2016
Revised date: 27 January 2017
Accepted date: 8 February 2017

Cite this article as: Sara Behforootan, Panagiotis E. Chatzistergos, Nachiappan Chockalingam and Roozbeh Naemi, A clinically applicable non-invasive method to quantitatively assess the visco-hyperelastic properties of human heel pad with implications for assessing the risk of mechanical trauma, *Journal of the Mechanical Behavior of Biomedical Materials* <http://dx.doi.org/10.1016/j.jmbbm.2017.02.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

Title: A clinically applicable non-invasive method to quantitatively assess the visco-hyperelastic properties of human heel pad with implications for assessing the risk of mechanical trauma.

Authors: Sara Behforootan^(*), Panagiotis E. Chatzistergos, Nachiappan Chockalingam and Roozbeh Naemi

Faculty of Health Sciences, Staffordshire University, Stoke-on-Trent, UK

Keywords: diabetic foot, soft tissue injuries, plantar pressure, ultrasound indentation, finite element analysis, inverse engineering, ultrasonography

*Corresponding Author

Sara Behforootan

Faculty of Health Sciences

Staffordshire University

Leek Road, Stoke on Trent,

ST4 2DF, UK

Email: sara.behforootan@research.staffs.ac.uk

Download English Version:

<https://daneshyari.com/en/article/5020737>

Download Persian Version:

<https://daneshyari.com/article/5020737>

[Daneshyari.com](https://daneshyari.com)