Author's Accepted Manuscript

Identification of elastic properties of human patellae using micro finite element analysis

Adeliya Latypova, Ghislain Maguer, Kaliyaperumal Elankumaran, Dieter Pahr, Philippe Zysset, Dominique P. Pioletti, Alexandre Terrier



PII: S0021-9290(16)30816-8

DOI: http://dx.doi.org/10.1016/j.jbiomech.2016.07.031

Reference: BM7821

To appear in: Journal of Biomechanics

Received date: 2 March 2016 Revised date: 22 July 2016 Accepted date: 26 July 2016

Cite this article as: Adeliya Latypova, Ghislain Maguer, Kaliyaperuma Elankumaran, Dieter Pahr, Philippe Zysset, Dominique P. Pioletti and Alexandre Terrier, Identification of elastic properties of human patellae using micro finite analysis, Journal element **Biomechanics** of http://dx.doi.org/10.1016/j.jbiomech.2016.07.031

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o 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

ACCEPTED MANUSCRIPT

Identification of elastic properties of human patellae using micro finite element analysis

Adeliya Latypova¹, Ghislain Maquer², Kaliyaperumal Elankumaran³, Dieter Pahr³, Philippe Zysset², Dominique P. Pioletti¹, Alexandre Terrier¹

- 1) Laboratory of Biomechanical Orthopedics, EPFL, Lausanne, Switzerland
- 2) Institute for Surgical Technology and Biomechanics, UniBe, Bern, Switzerland
- 3) Institute of Lightweight Design and Structural Biomechanics, TUWien, Vienna, Austria

Corresponding author

Alexandre Terrier, PhD
Laboratory of Biomechanical Orthopedics
Ecole Polytechnique Fédérale de Lausanne
Station 19
1015 Lausanne
Switzerland

Phone: +41 21 693 9994 Fax: +41 21 693 8660

Email: alexandre.terrier@epfl.ch

Article type: Short communication

Word count: 2058

Keywords: Patella; Bone Mechanics; Trabecular Anisotropy; Finite Element Analysis

Download English Version:

https://daneshyari.com/en/article/5032502

Download Persian Version:

https://daneshyari.com/article/5032502

<u>Daneshyari.com</u>