Author's Accepted Manuscript

Effects of Inter-Individual Lumbar Spine Geometry Variation on Load-Sharing: Geometrically Personalized Finite Element Study

Sadegh Naserkhaki, Jacob L. Jaremko, Marwan El-Rich



www.elsevier.com/locate/jbiomech

PII: S0021-9290(16)30720-5

DOI: http://dx.doi.org/10.1016/j.jbiomech.2016.06.032

Reference: BM7786

To appear in: Journal of Biomechanics

Received date: 22 January 2016 Revised date: 27 June 2016 Accepted date: 28 June 2016

Cite this article as: Sadegh Naserkhaki, Jacob L. Jaremko and Marwan El-Rich Effects of Inter-Individual Lumbar Spine Geometry Variation on Load-Sharing Geometrically Personalized Finite Element Study, *Journal of Biomechanics* http://dx.doi.org/10.1016/j.jbiomech.2016.06.032

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 MANUSCRIP1

Effects of Inter-Individual Lumbar Spine Geometry Variation on

Load-Sharing: Geometrically Personalized Finite Element Study

Sadegh Naserkhaki^a, Jacob L. Jaremko^b, Marwan El-Rich^{a*}

^aDepartment of Civil and Environmental Engineering, University of Alberta, Canada; ^bDepartment of Radiology and Diagnostic Imaging, University of Alberta, Canada

Keywords: lumbar spine; load-sharing; lumbar lordosis; sacral slope; pelvic incidence; interindividual variation; finite element model; spine geometry; spine sagittal curvature

*Corresponding Author:

Marwan El-Rich Department of Civil and Environmental Engineering Donadeo Innovation Centre for Engineering 7-255 9211, 116th Street Edmonton, Alberta, Canada T6G 1H9

Phone: +1(780) 492-6678 Email: elrich@ualberta.ca

Download English Version:

https://daneshyari.com/en/article/5032469

Download Persian Version:

https://daneshyari.com/article/5032469

<u>Daneshyari.com</u>