Accepted Manuscript

Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography

Hanna Isaksson, Sophie Le Cann, Christina Perdikouri, Mikael J. Turunen, Anders Kaestner, Magnus Tägil, Stephen Hall, Erika Tudisco



PII: S8756-3282(17)30257-0

DOI: doi: 10.1016/j.bone.2017.07.022

Reference: BON 11379

To appear in: Bone

Received date: 6 April 2017 Revised date: 19 July 2017 Accepted date: 20 July 2017

Please cite this article as: Hanna Isaksson, Sophie Le Cann, Christina Perdikouri, Mikael J. Turunen, Anders Kaestner, Magnus Tägil, Stephen Hall, Erika Tudisco, Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography, *Bone* (2017), doi: 10.1016/j.bone.2017.07.022

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 proof before it is published in its final 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

Neutron tomographic imaging of bone-implant interface: comparison with X-ray tomography

Hanna Isaksson ^{a,d*}, Sophie Le Cann ^a, Christina Perdikouri ^a, Mikael J. Turunen ^{a,b}, Anders Kaestner ^c, Magnus Tägil ^d, Stephen Hall ^e, Erika Tudisco ^f

^a Department of Biomedical Engineering, Lund University, Sweden. hanna.isaksson@bme.lth.se, sophie.le_cann@bme.lth.se; cperdik@gmail.com; mikael.turunen@uef.fi.

^b Department of Applied Physics, University of Eastern Finland, Kuopio, Finland

^c Swiss Spallation Source, Paul Sheerer Institute, Switzerland. anders.kaestner@psi.ch

^d Department of Orthopaedics, Lund University, Sweden. magnus.tagil@med.lu.se

^e Division of Solid Mechanics, Lund University, Sweden. stephen.hall@solid.lth.se

f Division of Geotechnical engineering, Lund University, Sweden. erika.tudisco@construction.lth.se

* Corresponding author: Hanna.Isaksson@bme.lth.se

Hanna Isaksson, PhD Department of Biomedical Engineering Lund University Box 118 22100 Lund, Sweden

KEYWORDS: Neutron tomography, X-ray tomography, bone, metal implant

CONFLICT OF INTEREST: None of the authors has any conflicts of interest.

Download English Version:

https://daneshyari.com/en/article/5585283

Download Persian Version:

https://daneshyari.com/article/5585283

Daneshyari.com