Accepted Manuscript

Finite element model predicts the biomechanical performance of transforaminal lumbar interbody fusion with various porous additive manufactured cages

Zhenjun Zhang, Hui Li, Guy R. Fogel, Dingding Xiang, Zhenhua Liao, Weiqiang Liu

PII: S0010-4825(18)30046-5

DOI: 10.1016/j.compbiomed.2018.02.016

Reference: CBM 2902

To appear in: *Computers in Biology and Medicine*

Received Date: 20 November 2017

Revised Date: 14 February 2018

Accepted Date: 19 February 2018

Please cite this article as: Z. Zhang, H. Li, G.R. Fogel, D. Xiang, Z. Liao, W. Liu, Finite element model predicts the biomechanical performance of transforaminal lumbar interbody fusion with various porous additive manufactured cages, *Computers in Biology and Medicine* (2018), doi: 10.1016/j.compbiomed.2018.02.016.

Finite element model predicts the biomechanical performance of transforaminal lumbar interbody fusion with various porous additive manufactured cages

Zhenjun Zhang[a,b], PhD, Hui Li[c], PhD, Guy R. Fogel[d], MD, Dingding Xiang[a,b], PhD, Zhenhua Liao[b], PhD, Weiqiang Liu[a,b], PhD

[a]Department of Mechanical Engineering, Tsinghua University, Beijing, China

[b]Biomechanics and Biotechnology Lab, Research Institute of Tsinghua University in Shenzhen, Shenzhen, China

[c]Naton Science and Technology Group, Beijing, China

[d]Spine Pain Begone Clinic, San Antonio, TX, USA

Corresponding author:

Weiqiang Liu, Tsinghua University, Haidian District, Beijing, P.R.China;

Tel: +86-0755-26551376

Fax: +86-0755-26551380

E-mail: weiqliu@hotmail.com