Effect of severe bioprosthetic valve tissue ingrowth and inflow calcification on valve-in-valve performance

Hoda Hatoum, Jennifer Dollery, Scott M. Lilly, Juan A. Crestanello, Lakshmi Prasad Dasi

PII: S0021-9290(18)30340-3
DOI: https://doi.org/10.1016/j.jbiomech.2018.04.039
Reference: BM 8686

To appear in: *Journal of Biomechanics*

Accepted Date: 22 April 2018

Please cite this article as: H. Hatoum, J. Dollery, S.M. Lilly, J.A. Crestanello, L. Prasad Dasi, Effect of severe bioprosthetic valve tissue ingrowth and inflow calcification on valve-in-valve performance, *Journal of Biomechanics* (2018), doi: https://doi.org/10.1016/j.jbiomech.2018.04.039

Effect of severe bioprosthetic valve tissue ingrowth and inflow calcification on valve-in-valve performance

Hoda Hatoum, BS[1]; Jennifer Dollery, RN[2]; Scott M. Lilly, MD, PhD[3]; Juan A. Crestanello, MD[2]; Lakshmi Prasad Dasi, PhD[1,3]

[1]Department of biomedical engineering, The Ohio State University, Columbus, Ohio, USA

[2]Division of cardiac surgery, The Ohio State University, Columbus, Ohio, USA

[3]Division of cardiovascular medicine, The Ohio State University, Columbus, Ohio, USA

Conflict of Interest: Dr. Juan Crestanello reports having grants from Medtronic, Boston Scientific and St Jude in addition to being part of the advisory board of Medtronic. Dr. Dasi reports having a patent application filed on novel polymeric valves. The other authors have no conflicts of interest to declare.

Address for correspondence and reprints:

Lakshmi Prasad Dasi, PhD

Associate Professor, Department of Biomedical Engineering

The Ohio State University

473 W 12th Ave.

Columbus, OH 43210

TEL: (614) 247-8313

EMAIL: lakshmi.dasi@osumc.edu

Words: 3500