### **Accepted Manuscript**

Shear-scaling-based approach for irreversible energy loss estimation in stenotic aortic flow - an in vitro study

Utku Gülan, Christian Binter, Sebastian Kozerke, Markus Holzner

PII: S0021-9290(17)30149-5

DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.03.006

Reference: BM 8157

To appear in: Journal of Biomechanics

Accepted Date: 6 March 2017



Please cite this article as: U. Gülan, C. Binter, S. Kozerke, M. Holzner, Shear-scaling-based approach for irreversible energy loss estimation in stenotic aortic flow - an in vitro study, *Journal of Biomechanics* (2017), doi: http://dx.doi.org/10.1016/j.jbiomech.2017.03.006

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**

# Shear-scaling-based approach for irreversible energy loss estimation in stenotic aortic flow - an in vitro study

Utku Gülan<sup>1</sup>, Christian Binter<sup>2</sup>, Sebastian Kozerke<sup>2</sup>, Markus Holzner<sup>1</sup>

<sup>1</sup>Institute of Environmental Engineering, ETH Zurich, Zurich, Switzerland

<sup>2</sup>Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland

Running title: Estimation of irreversible energy loss in stenotic flows

Submission: Journal of Biomechanics

Abstract Word Count: 273

Word Count: 4008 (From Introduction to References)

Mailing Address: Utku Gülan, PhD

Institute for Environmental Engineering

ETH Zurich

Stefano-Franscini-Platz 5

8093 Zurich

Tel.: +41 44 633 78 47

FAX: +41 44 633 10 61

Email: utku.guelan@ifu.baug.ethz.ch

#### Download English Version:

## https://daneshyari.com/en/article/5032062

Download Persian Version:

https://daneshyari.com/article/5032062

<u>Daneshyari.com</u>