

## Accepted Manuscript

Does elevated wall tension cause aortic aneurysm rupture? Investigation using a subject-specific heterogeneous model

Timothy K. Chung, Erasmo S. da Silva, Suresh M.L. Raghavan

PII: S0021-9290(17)30514-6

DOI: <https://doi.org/10.1016/j.jbiomech.2017.09.041>

Reference: BM 8400

To appear in: *Journal of Biomechanics*

Accepted Date: 25 September 2017



Please cite this article as: T.K. Chung, E.S. da Silva, S.M.L. Raghavan, Does elevated wall tension cause aortic aneurysm rupture? Investigation using a subject-specific heterogeneous model, *Journal of Biomechanics* (2017), doi: <https://doi.org/10.1016/j.jbiomech.2017.09.041>

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.

---

# DOES ELEVATED WALL TENSION CAUSE AORTIC ANEURYSM RUPTURE? INVESTIGATION USING A SUBJECT-SPECIFIC HETEROGENEOUS MODEL

<sup>1</sup>Chung, Timothy K., <sup>2</sup>da Silva, Erasmo S., <sup>1</sup>Raghavan, Suresh M.L.

<sup>1</sup>Department of Biomedical Engineering, University of Iowa, Iowa City, IA USA

<sup>2</sup>Department of Vascular Surgery, University of São Paulo, São Paulo, Brazil.

Keywords: Abdominal Aortic Aneurysm, stress, tension, rupture, interpolation

Word Count: 3237

Address for Correspondence:

Suresh M.L. Raghavan, Ph.D.

Professor of Biomedical Engineering

1136 Seamans Center

University of Iowa

Iowa City, IA 52242 USA

Ph. 319 335 5704

Fax. 319 335 5631

Email: [ml-raghavan@uiowa.edu](mailto:ml-raghavan@uiowa.edu)

Download English Version:

<https://daneshyari.com/en/article/7237073>

Download Persian Version:

<https://daneshyari.com/article/7237073>

[Daneshyari.com](https://daneshyari.com)