

## Author's Accepted Manuscript

Computational assessment of hemodynamics-based diagnostic tools using a database of virtual subjects: Application to three case studies

Marie Willemet, Samuel Vennin, Jordi Alastruey



PII: S0021-9290(16)31155-1  
DOI: <http://dx.doi.org/10.1016/j.jbiomech.2016.11.001>  
Reference: BM7962

To appear in: *Journal of Biomechanics*

Received date: 13 June 2016  
Revised date: 18 October 2016  
Accepted date: 1 November 2016

Cite this article as: Marie Willemet, Samuel Vennin and Jordi Alastruey, Computational assessment of hemodynamics-based diagnostic tools using a database of virtual subjects: Application to three case studies, *Journal of Biomechanics*, <http://dx.doi.org/10.1016/j.jbiomech.2016.11.001>

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 a review of the resulting galley proof before it is published in its final citable 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.

Computational assessment of hemodynamics-based  
diagnostic tools using a database of virtual subjects:  
Application to three case studies

Marie WILLEMET<sup>a\*</sup>, Samuel VENNIN<sup>a,b</sup>, and Jordi ALASTRUEY<sup>a</sup>

<sup>a</sup> Division of Imaging Sciences and Biomedical Engineering, St. Thomas' Hospital, King's College London, London, UK

<sup>b</sup> Department of Clinical Pharmacology, St Thomas' Hospital, King's College London, London, UK

October 12<sup>th</sup>, 2016

Short title: Computational assessment of hemodynamics-based diagnostic tools

\*Corresponding author. Email: marie.willemet@gmail.com

Address: 3rd Floor Lambeth Wing, St Thomas' Hospital, SE1 7EH London, UK

## Abstract

Many physiological indexes and algorithms based on pulse wave analysis have been suggested in order to better assess cardiovascular function. Because these tools are often computed from in-vivo hemodynamic measurements, their validation is time-consuming, challenging, and biased by measurement errors.

Download English Version:

<https://daneshyari.com/en/article/5032291>

Download Persian Version:

<https://daneshyari.com/article/5032291>

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