

Digital twins of the cardiovascular and pulmonary systems

Created on: 05-05-2023 - Last modified on: 24-04-2024

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Organisation

Name of the organisation Université Libre de Bruxelles (ULB)

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Country Belgium

SCOPE OF THE METHOD

The Method relates to	Human health
The Method is situated in	Basic Research
Type of method	In silico

DESCRIPTION

Method keywords

computational model
blood circulation
hemodynamics
pulse wave velocity
stroke volume
pulmonary flow
nitric oxide

Scientific area keywords

Biomedical Engineering
Physiology

Method description

Digital twins of the cardiovascular and pulmonary systems, allowing the virtual simulation of various invasive or non-invasive measurements (cardiac output, ballistocardiography signal, blood pressure, pulse wave velocity, FeNO, DLNO, FEV1, etc.) on healthy or pathological subjects, of variable size.

Method status

History of use
Internally validated
Published in peer reviewed journal

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

Associated documents

[BUSS - FRONTIERS.pdf](#)

[HAUT - FR.pdf](#)

[KARAMAOUN - FR.pdf](#)

[KARAMAOUN - JAP.pdf](#)

[KARAMAOUN - PLOS.pdf](#)

[RABINEAU - FR1.pdf](#)

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