

Digital twins of the cardiovascular and pulmonary systems

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SCOPE OF THE METHOD

The Method relates to	Human health
The Method is situated in	Basic Research
Type of method	In silico
This method makes use of	Other (e.g. bacteria): -

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.

Lab equipment

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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