

A short review of blood flow modelling methods: from macro- to microscales

Katarzyna Kaczorowska,author

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Abstrak

The aim of this paper is to review various scale approaches to the blood flow modelling. Blood motion may be described by three types of mathematical models according to the observed scales or resolutions, namely microscopic, mesoscopic and macroscopic descriptions. The above approaches are discussed together with their advantages and disadvantages. Several results of mesoscopic simulations are presented with particular attention paid to mesoscale semi continuum models suitable for real time blood flow visualisation.