



## Computational Models in Cardiovascular Medicine

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### Message from the Guest Editor

Dear Colleagues,

The use of computational models over the last three decades has provided important support for surgical and clinical techniques in the cardiovascular field. The models can be used as predictive and statistical tools to understand the advantages and disadvantages that may arise from the use of assist devices or invasive and minimally invasive surgical procedures. Computational analysis has been used to model the human physiological heart in 3D, not only to mimic natural situations, but also to guide surgeons during high-risk open-heart procedures.

The aim of our Special Issue would be dedicated to this topic, collecting the best evidence regarding the development of artificial networks, which help predict post-operative risks, thus helping clinicians and surgeons to evaluate clinical and periprocedural decisions, and assessing haemodynamic parameters in patients undergoing ventricular assist devices such as ECMO, extracorporeal circulation or LVAD.





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