

Geometrical characteristics study for cardiovascular problems

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Aortic aneurysm and aortic dissections persist as life-threatening hazards. Although patient-specific simulations are common in biomedical engineering and extremely useful for a surgical planning etc., they remain insufficient to elucidate the general characteristics of targeted diseases. We introduce a geometrical characterization of blood vessels, which vary widely among individuals. Through close collaboration between mathematical science and clinical medicine, these analyses yield greater understanding leading to better risk assessments.

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