CFD Simulation for non invasive estimation of blood pressure

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Abstract

Blood pressure is an important biomarker for the characterisation of different pathologies of the cardiovascular system. In this talk, we show some preliminary application of CFD for the estimation of pressure gradients along the aorta starting from non invasive velocity measurements. In particular, we focus on the influence of different discretisation and modelling choices (such as turbulence models or boundary conditions) on the estimated pressure.