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# FLUID DYNAMICS OF A CENTRIFUGAL LEFT VENTRICULAR ASSIST DEVICE



Fluid Dynamics of a Centrifugal Left Ventricular Assist Device High-shear Regions and Implications for von Willebrand Factor and Endothelialization

> NON 212

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | High-shear Regions and Implications for von Willebrand Factor and Endothelialization | High shear stresses and shear rates in left ventricular assist devices (LVADs) make endothelialization of the LVAD difficult and likely contribute to cleavage of large von Willebrand factor multimers and resulting bleeding problems in patients. To better understand shear in a centrifugal LVAD, flow was simulated using finite volume and computational fluid dynamics (CFD) analysis. The k- model simulated turbulence and...

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- Authored by Selgrade, Brian
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