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15 Jan 2016 ... Excessive wall shear stress may cause mechanical damage to the blood vessels and induce ... CFD Simulation of the Portal Vein Blood Flow.

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in the portal venous system that is at least 5 mm Hg higher than the pressure in the ... channels are smooth, but liver cirrhosis can cause them to become irregular and ... mm Hg. Additionally, splenomegaly and dilated abdominal wall veins are also ... Edema, or swelling of the legs, is seen in portal hypertensive patients.

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www.ismrm.org/14/program_files/EP09.htm

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Name of journal: *World Journal of Gastroenterology*

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Manuscript Type: Original Article

Basic Study

Wall shear stress in portal vein of cirrhotic patients with portal hypertension assessed by computational fluid dynamics

Wei Wei, Yan-Song Pu, Xin-Kai Wang, An Jiang, Rui Zhou, Yu Li, Qiu-Juan Zhang, Ya-Juan Wei, Bin Chen, Zong-Fang Li

Abstract

AIM

To investigate wall shear stress (WSS) magnitude and distribution in cirrhosis with portal

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