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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 45121

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Hemodynamic changes in hepatic sinusoids of hepatic steatosis mice

Fan J *et al.* Hemodynamic changes in FL

Jing Fan, Chong-Jiu Chen, Yu-Chen Wang, Wei Quan, Jian-Wei Wang, Wei-Guang Zhang

Abstract

BACKGROUND

Fatty liver (FL) is now a worldwide disease. For decades, Researchers have been kept trying to elucidate the mechanism of FL in the molecular level, but rarely involve the study of morphology and medical physics. Traditionally, it was believed that hemodynamic changes occur only when fibrosis occurs, but it has been proved that these changes already show in steatosis stage, which may help to reveal the pathogenesis and its progress. Because the pseudolobules are not formed during the steatosis stage, this phenomenon may be caused by the compression of the liver microcirculation and changes in the hemodynamics.

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of such changes is a marked reduction of sinusoidal space (50% of control), and a decrease in ... data about the effects of steatosis and steatohepatitis on the hepatic micro-vascular structure

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Steatosis was confirmed in HFD fed mice by Oil Red O stain. ... the hepatocyte was calculated using 10 sinusoids and hepatocytes per high power field. ... Hepatic artery and portal vein blood flow hemodynamics were analyzed using a Vevo ...

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The aim of our study was to assess the hemodynamic changes in hepatic and ... Patients with steatosis had significantly greater diameters of the portal vein, has been shown to reduce sinusoidal blood flow up to 50% [15,64,72,205, Hepatic microvascular dysfunction during evolution of dietary steatohepatitis in mice.

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These studies demonstrated that steatosis caused an increase in the mechanical component of ...

The potential impact of these hemodynamic changes on liver perfusion was ... This allows measuring the intrahepatic resistance offered by sinusoids. ... Recently, Miyao et al[72], by using mice models of NAFLD/non-alcoholic ...

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Keywords: Fatty liver, sinusoidal space, ischemia reperfusion injury, doppler ultrasound, ... We have used an established mouse model of hepatic steatosis by feeding ... Hepatic artery and portal vein blood flow hemodynamics were analyzed ...

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