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Value of intravoxel incoherent motion in detecting and staging liver fibrosis:
A meta-analysis

Ye Z *et al.* IVIM in LF: A meta-analysis

Zheng Ye, Yi Wei, Jie Chen, Shan Yao, Bin Song

Abstract

BACKGROUND

Liver fibrosis (LF) is a common pathological feature of all chronic liver diseases. With the accumulation of extracellular matrix in the fibrotic liver, the true molecular water diffusion and perfusion-related diffusion would be restricted. Intravoxel incoherent motion (IVIM) could capture the information of tissue diffusivity and microcapillary perfusion separately and reflect the fibrotic severity with diffusion coefficients.

AIM

To investigate the diagnostic performance of IVIM in detecting and staging LF

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Liver Fibrosis: An Intravoxel Incoherent Motion (IVIM) Study April M. Chow, ... for **detecting liver** fibrosis at the early **stages** and monitoring disease progression or therapeutic inter- ... cantly because of the **incoherent motion** of blood in pseudorandom capillary network at the macroscopic level (26). However, most of the reported studies focus

Cited by: 93**Author:** April M. Chow, Darwin S. Gao, Shu Jua...**Publish Year:** 2012

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Results. Threshold b-**value** of 60 s/mm² was preferred over 200 s/mm² for separating healthy volunteers and **liver fibrosis** patients. The IVIM measures of the four patients without **fibrosis** resembled those of healthy volunteers. When threshold b-**value** =60 s/mm² was applied, PF (PF <6.49%) could differentiate healthy livers and all fibrotic livers with 100% sensitivity and specificity.

Cited by: 3**Author:** Hua Huang, Nazmi Che-Nordin, Li-Fei ...**Publish Year:** 2019



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Nov 08, 2019 · To evaluate the diagnostic accuracy of **intravoxel incoherent motion** (IVIM) model parameters for the diagnosis **and staging** of **liver fibrosis** and inflammation in patients with chronic hepatitis B. Fifty-four patients with chronic hepatitis B and 42 healthy volunteers were included in the