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Intravoxel Incoherent Motion Diffusion Weighted MR Imaging ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4427182>

Introduction. Non-alcoholic fatty **liver disease** (NAFLD) is a clinicopathologic syndrome that varies from isolated steatosis, to steatohepatitis, which may **progress** to fibrosis and cirrhosis, with the risk for development of hepatocellular carcinoma [1–3].NAFLD is a major public health problem with increasing incidence that affects up to one third of the population in all age groups and ...

Cited by: 15

Author: Daniella Braz Parente, Fernando Fernandes...

Publish Year: 2015

Intravoxel Incoherent Motion Diffusion-weighted Imaging in ...

<https://pubs.rsna.org/doi/10.1148/radiol.12112478>

Introduction. The term **intravoxel incoherent motion** (IVIM) was introduced by Le Bihan et al (1) and reflects the random microscopic **motion** that occurs in voxels on magnetic resonance (MR) images of either intracellular or extracellular water molecules and the microcirculation of blood.Therefore, both pure molecular diffusion and capillary perfusion contribute to signal attenuation in **liver** ...

Cited by: 155

Author: Boris Guiu, Jean-Michel Petit, Violaine Capi...

Publish Year: 2012

Diffusion-weighted imaging of the liver: an update

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3629892>

Apr 15, 2013 · Diffusion-weighted magnetic resonance **imaging** (DW-MRI) is now widely used as a standard **imaging** sequence for evaluation of the **liver**. The technique is easy to implement across different MRI platforms, and results in enhanced **disease** detection and characterization.

Cited by: 14

Author: N. Bharwani, D.M. Koh

Publish Year: 2013

Nonalcoholic Fatty Liver Disease: Intravoxel Incoherent ...

<https://pubs.rsna.org/doi/10.1148/radiol.13122506>

Jan 01, 2014 · **Perfusion fractions** derived from **intravoxel incoherent motion diffusion-weighted MR imaging** of the **liver parenchyma** were significantly lower in rabbits with nonalcoholic **fatty liver disease** compared with those of rabbits with **normal livers** and further decreased with increased severity of nonalcoholic **fatty liver disease**, while true **diffusion** remained unchanged.

Cited by: 53

Author: Ijin Joo, Jeong Min Lee, Jeong Hee Yoon, J...

Publish Year: 2014

The role of diagnostic imaging and interventional

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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 55609

Manuscript Type: REVIEW

Progress of intravoxel incoherent motion diffusion-weighted imaging in liver diseases

Tao YY *et al.* Progress of IVIM-DWI in liver diseases

Yun-Yun Tao, Yi Zhou, Ran Wang, Xue-Qin Gong, Jing Zheng, Cui Yang, Lin Yang, Xiao-Ming Zhang

Abstract

Traditional magnetic resonance imaging diffusion-weighted imaging (DWI) uses a single exponential model to obtain the apparent diffusion coefficient to quantitatively reflect the diffusion motion of water molecules in living tissues, but it is affected by blood perfusion. Intravoxel incoherent motion

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[Liver intravoxel incoherent motion diffusion-weighted ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/30038468>

Jul 21, 2018 · 1. World J Gastroenterol. 2018 Jul 21;24(27):3013-3020. doi: 10.3748/wjg.v24.i27.3013.

Liver intravoxel incoherent motion diffusion-weighted imaging for the assessment of hepatic steatosis and fibrosis in children.

Cited by: 5

Author: Hyun Joo Shin, Haesung Yoon, Myung Jo...

Publish Year: 2018

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<https://www.nature.com/articles/s41598-020-64804-9>

May 07, 2020 · **Intravoxel Incoherent Motion Diffusion-Weighted Imaging** in Nonalcoholic Fatty Liver Disease: A 3.0-T MR Study. Radiology. 265 , 96–103 (2012). PubMed Article Google Scholar

Author: Juan Peng, Jing Zheng, Cui Yang, Ra...

Publish Year: 2020

[Intravoxel Incoherent Motion Diffusion-weighted Imaging in ...](#)

<https://pubs.rsna.org/doi/10.1148/radiol.12112478>

Oct 01, 2012 · Because **intravoxel incoherent motion (IVIM) diffusion-weighted MR imaging parameters** are strongly modified in **nonalcoholic fatty liver disease**, steatosis can act as a potential confounder when IVIM...

Cited by: 159

Author: Boris Guiu, Jean-Michel Petit, Violaine C...

Publish Year: 2012

[Liver Cirrhosis: Intravoxel Incoherent Motion MR Imaging ...](#)

<https://pubs.rsna.org/doi/10.1148/radiol.2493080080>

Purpose: To retrospectively evaluate a respiratory-triggered **diffusion-weighted (DW)** magnetic resonance (MR) **imaging** sequence combined with parallel acquisition to allow the calculation of pure molecular-based (D) and perfusion-related (D*, f) diffusion parameters, on the basis of the **intravoxel incoherent motion (IVIM)** theory, to determine if these parameters differ between patients with ...

Cited by: 662

Author: Alain Luciani, Alexandre Vignaud, Madele...



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<https://www.ncbi.nlm.nih.gov/pubmed/30038468>

Jul 21, 2018 · 1. World J Gastroenterol. 2018 Jul 21;24(27):3013-3020. doi: 10.3748/wjg.v24.i27.3013.

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