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1 **Name of Journal:** *World Journal of Hepatology*

Manuscript NO: 56722

Manuscript Type: ORIGINAL ARTICLE

Prospective study

Can gadoxetic acid-enhanced magnetic resonance imaging be used to avoid liver biopsy in patients with nonalcoholic fatty liver disease?

Viviane Brandão Amorim, Daniella Braz Parente, Fernando Fernandes Paiva, Jaime Araújo Oliveira Neto, Amanda Almeida Miranda, Cláudia Cravo Moreira, Flávia Ferreira Fernandes, Carlos Frederico Ferreira Campos, Nathalie Carvalho Leite, Renata de Mello Perez, Rosana Souza Rodrigues

Abstract

BACKGROUND

Nonalcoholic fatty liver disease (NAFLD) is a major cause of liver disease worldwide. The diagnosis of nonalcoholic steatohepatitis (NASH), the most severe



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[PDF] Mr imaging in Patients with nonalcoholic Fatty liver i A ...

<https://pubs.rsna.org/doi/pdf/10.1148/radiol.14131890>

Purpose: To determine whether **gadoxetic acid-enhanced magnetic resonance (MR) imaging can be used** to distinguish be-tween simple steatosis and **nonalcoholic** steatohepatitis (NASH) in patients with **nonalcoholic fatty liver disease (NAFLD)**, defined according to the steatosis activity and fibrosis (SAF) scoring system, which is based on the semi -

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MR Imaging in Patients with Suspected Liver Metastases ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3835636>

Nov 05, 2013 · Therefore, the purpose of our study was to compare the diagnostic performance of **gadoxetic acid-enhanced MR imaging** with triple-phase MDCT for the detection of **liver** metastasis and to determine whether the addition of hepatobiliary phase (HBP) **imaging** to dynamic **imaging can be** helpful for the evaluation of **liver** metastases.

Pitfalls in Gd-EOB-DTPA-Enhanced Liver Magnetic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6385906>

Shin NY, Kim MJ, Lim JS, Park MS, Chung YE, Choi JY, et al. Accuracy of **gadoxetic acid-enhanced magnetic resonance imaging** for the diagnosis of sinusoidal obstruction syndrome in patients with chemotherapy-treated colorectal liver metastases. Eur Radiol 2012; 22:864-874. [Google Scholar]

Can gadoxetic acid-enhanced magnetic resonance imaging be used



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Gadoxetic acid-enhanced magnetic resonance imaging ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6759431>

HCC DIAGNOSIS USING **GADOXETIC acid-enhanced** MRI. The major advantage of using **gadoxetic acid-enhanced** MRI is the improved detection of small (≤ 2 cm) HCCs compared with ECA-enhanced MRI or CT [17-19]. The detection sensitivity **can** be further heightened by the **use** of diffusion-weighted **imaging** (DWI) []. Furthermore, it has been demonstrated that the combined **use** of **gadoxetic acid-enhanced** ...

Cited by: 1

Author: Yeun-Yoon Kim, Mi-Suk Park, Khalid Suli...

Publish Year: 2019

Half-dose gadoxetic acid-enhanced liver magnetic resonance ...

<https://www.sciencedirect.com/science/article/pii/S0720048X14005798>

Gadoxetic acid is usually used for **liver imaging** and in our study, all included patients underwent gadoxetic acid-enhanced MRI for evaluation of **liver lesions**. Therefore, enhancement of the liver was primarily assessed. However, in clinical practice, evaluation of other upper abdominal organs that are covered on liver MRI also occurs.

Cited by: 7

Author: Kyoung Doo Song, Seong Hyun Kim, Jis...

Publish Year: 2015

Gadoxetic acid disodium-enhanced hepatocyte phase MRI: ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/jmri.22805>

The relatively new gadolinium-based hepatocyte-specific contrast agent **Gadoxetic** acid disodium (EOB) is increasingly being **used** for **liver** MRI, because of its small administration volume, high T1 relaxivity,



Can gadoxetic acid-enhanced magnetic resonance imaging be used



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<https://pubs.rsna.org/doi/pdf/10.1148/radiol.14131890> ▾

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[Pitfalls in Gd-EOB-DTPA-Enhanced Liver Magnetic Resonance ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6385906>

Shin NY, Kim MJ, Lim JS, Park MS, Chung YE, Choi JY, et al. Accuracy of **gadoxetic acid-enhanced magnetic resonance imaging** for the diagnosis of sinusoidal obstruction syndrome in **patients** with chemotherapy-treated colorectal **liver** metastases. Eur Radiol 2012; 22:864-871. [Google Scholar]

Author: Yedaun Lee, So Yeon Kim, Seung So...

Publish Year: 2018

[Added value of hepatobiliary phase gadoxetic acid-enhanced ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3857460>

Dec 07, 2013 - Core tip: This study demonstrated the added value of hepatobiliary phase **gadoxetic acid-enhanced magnetic resonance imaging (MRI)** for diagnosing hepatocellular carcinoma, based on the changes in contrast uptake on hepatobiliary phase images during hepatocarcinogenesis. The pitfalls of interpreting hepatobiliary phase MRI are important to recognize in obtaining the most accurate results.

Cited by: 15

Author: Sith Phongkitkarun, Kuruwin Limsamutpe...

Publish Year: 2013

[Radiomics Analysis of Gadoxetic Acid-enhanced MRI for ...](#)

<https://pubs.rsna.org/doi/10.1148/radiol.2018181197>

Dec 04, 2018 - Study Population. Among the 1454 consecutive **patients** who underwent **gadoxetic acid-enhanced** MRI at our institution from June 2015 to December 2016, **patients** 18 years or older who underwent **gadoxetic acid-enhanced** MRI at 3.0 T and who had available pathologic reports of **liver** fibrosis within 3 months of **liver** MRI were retrospectively identified.

Cited by: 8

Author: Hyo Jung Park, Seung Soo Lee, Bumwoo...

Publish Year: 2019