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Methods. Ninety-five patients with 139 renal masses (93 **malignant** and 46 **benign**) who underwent abdominal BOLD MRI were enrolled. R2* values were **derived** from the largest cross-section (R2* largest) and from the whole tumour (R2* whole).Intra-observer and inter-observer agreements were analysed based on two measurements by the same observer and the first measurement from each ...

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Jul 15, 2019 · The **Dixon technique**, named after its inventor, was first developed in 1984 [].The **technique** is well-known in abdominal radiology for distinguishing **benign** adrenal adenomas from other adrenal masses [], and for detecting **liver** steatosis.It was first introduced for the assessment of bone marrow in 1985 by Wismer et al. [], but struggled to find its clinical use.

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Feb 01, 2020 · Introduction. Magnetic resonance imaging (MRI) is an excellent non-invasive method for evaluating bone marrow and detecting vertebral bone marrow **lesions** (VMBLs), as it provides information at the cellular and chemical level, in addition to gross morphological data 1; however, some **focal benign** VMBLs can be confused with focal malignant VMBLs and may even be treated as

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Feb 27, 2020 · Since the mid-2000s, **multi-echo Dixon** water and fat separation has been used with arbitrary echo times to allow for more flexible sequence designs. One method, iterative decomposition with echo asymmetry and least-squares (IDEAL) produces excellent **discrimination between** water and fat. As a result, a quantitative measure of fat content **can** be ...
Cited by: 1   Author: Miyuki Takasu, Shota Kondo, Yuji Akiyama, ...
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Dixon techniques for water and fat imaging
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Retrospective Study

R2* value derived from multi-echo Dixon technique can aid discrimination between benign and malignant focal liver lesions

Shi GZ *et al.* Differential diagnosis of FLLs using R2*

Guang-Zi Shi, Hong Chen, Wei-Ke Zeng, Ming Gao, Meng-Zhu Wang, Hui-Ting Zhang, Jun Shen

Abstract

BACKGROUND

R2* estimation reflects the paramagnetism of the tumor tissue, which may be used to differentiate between benign and malignant liver lesions when the contrast agents is

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Methods. Ninety-five patients with 139 renal masses (93 **malignant** and 46 **benign**) who underwent abdominal BOLD MRI were enrolled. R2* values were **derived** from the largest cross-section (**R2*** largest) and from the whole tumour (**R2*** whole).Intra-observer and inter-observer agreements were analysed based on two measurements by the same observer and the first measurement from each ...

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Gadoxetic acid-enhanced fat suppressed three-dimensional ...
https://onlinelibrary.wiley.com/doi/full/10.1002/jmri.23983

Purpose. To compare the image quality **between** T1 high-resolution isotropic volume examination using the **multi-echo Dixon technique** (mDixon-eTHRIVE) and that using spectrally adiabatic inversion recovery (SPAIR-eTHRIVE) in gadoxetic acid-enhanced **liver** MRI, and to evaluate the detectability of hepatocellular carcinoma (HCC) on mDixon-eTHRIVE.

Cited by: 11   Author: Mi Hee Lee, Young Kon Kim, Min Jung P...
Publish Year: 2013

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