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Diffusion weighted Imaging: Technique and applications

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Diffusion-weighted MRI in the body: applications and ... - Koh - 被引用次数: 1285

Basic principles of diffusion-weighted imaging - Bammer - 被引用次数: 601

Diffusion tensor imaging: concepts and applications - Le Bihan - 被引用次数: 2501

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作者: S Lewis - 2014 - 被引用次数: 4 - 相关文章

Magn Reson Imaging Clin N Am. 2014 Aug;22(3):373-95. doi: 10.1016/j.mric.

2014.04.009. Diffusion-weighted imaging of the liver: techniques and applications.

## RadioGraphics: Diffusion-weighted Imaging in the Abdomen ...

[pubs.rsna.org/doi/full/10.1148/rg.296095521](http://pubs.rsna.org/doi/full/10.1148/rg.296095521) ▾ 翻译此页

作者: A Qayyum - 2009 - 被引用次数: 192 - 相关文章

Describe current applications of diffusion-weighted imaging in the abdomen and ... For over 20 years, this technique has been used for imaging of the brain.

## RadioGraphics: Diffusion-weighted Imaging in Pediatric ...

[pubs.rsna.org/doi/full/10.1148/rg.343135047](http://pubs.rsna.org/doi/full/10.1148/rg.343135047) ▾ 翻译此页

作者: GB Chavhan - 2014 - 被引用次数: 4 - 相关文章

Discuss diffusion-weighted imaging techniques for pediatric body imaging. ... List the current and potential applications of diffusion-weighted imaging in pediatric ...

## Diffusion MRI - Wikipedia, the free encyclopedia

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## Diffusion-weighted MRI in the body: applications and challenges in oncology

DM Koh, DJ Collins - American Journal of Roentgenology, 2007 - Am Roentgen Ray Soc

... capillary perfusion, where the signal from fast-moving water molecules is rapidly attenuated by low diffusion weighting [4]. Thus, diffusion-weighted data acquired ... echo, fast spin-echo, gradient-echo (eg, steady-state free precession), EPI, and line scan diffusion imaging [16]. ...

被引用次数: 1349 相关文章 所有 6 个版本 引用 保存

## Basic principles of diffusion-weighted imaging

R Bammer - European journal of radiology, 2003 - Elsevier

... Investigators have measured brain parenchymal motions and CSF pulsations using different MRI methods. ... can be included after the first diffusion gradients to slightly increase the diffusion-weighting. ... of each coil can be used to fully unfold the desired diffusion-weighted image. ...

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## [HTML] Diffusion tensor imaging: concepts and applications

D Le Bihan, JF Mangin, C Poupon... - ... resonance imaging, 2001 - Wiley Online Library

... is to estimate the  $D_{ij}$  values from the set of diffusion/orientation-weighted images, generally ... of the ellipsoids in any direction in space is given by the diffusion distance covered ... as the three-dimensional surface of constant mean squared displacement of the diffusing molecules. ...

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## Diffusion-weighted MR imaging of anisotropic water diffusion in cat central nervous system.

ME Moseley, Y Cohen, J Kucharczyk, J Mintorovitch... - Radiology, 1990 - pubs.rsna.org

... and the measured diffusion coefficient (9). One potentially important in vivo application of diffusion imaging is the ... pulsatile blood, is manifested as signal loss on the observed magnitude-calculated, diffusion-weighted image, leaving only slower-diffusing proton motions ...

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Diffusion tensor imaging: concepts and applications - Le Bihan - 被引用次数: 2607

## Diffusion MRI - Wikipedia, the free encyclopedia

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## Diffusion weighted imaging | Radiology Reference Article ...

[radiopaedia.org/articles/diffusion-weighted-imaging-1](http://radiopaedia.org/articles/diffusion-weighted-imaging-1) ▾ 翻译此页

Diffusion weighted imaging (DWI) is a form of MR imaging based upon measuring the random Brownian motion ... ADC maps; a more general term to encompass all diffusion techniques including diffusion tensor imaging ... Clinical application.

## Diffusion-weighted imaging of the liver: techniques and applications.

[www.ncbi.nlm.nih.gov/pubmed/25086935](http://www.ncbi.nlm.nih.gov/pubmed/25086935) ▾ 翻译此页

作者: S Lewis - 2014 - 被引用次数: 6 - 相关文章

Magn Reson Imaging Clin N Am. 2014 Aug;22(3):373-95. doi: 10.1016/j.mric.2014.04.009. Diffusion-