

[国内版](#)[国际版](#)[All](#)[Images](#)[Videos](#)[翻译成中文](#)[关闭取词](#)

518,000 Results

Any time ▾

### DIFFUSION-WEIGHTED IMAGING OF THE LIVER: ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4121599>

Summary: **DWI** is highly sensitive for detection of **liver metastases**, especially for small lesions < 2 cm. **Combined DWI** and CE T1WI yields the best performance for **lesion detection compared** to each **sequence** alone. In addition, **DWI** is a reasonable alternative to CE MRI in ...

**Cited by:** 24**Author:** Sara Lewis, Hadrien Dyvorne, Yong Cui,...**Publish Year:** 2014

### [PDF] Comparison of Breathhold, Navigator-Triggered, and ...

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/jmri.23949>

sent for performing **liver MRI** including three **different DWI sequences**. **DWI** is useful for the **detection** and characterization of **focal liver lesions** and is usually added to the **liver MRI** protocol (1–8). However, a **standard DWI technique** has not yet been established, especially when using a 3.0T MR system. Therefore, from January 2009 and to March 2009, the breathhold, navigator-triggered, and free-

**Cited by:** 52**Author:** Ji Soo Choi, Myeong-Jin Kim, Yong Eun ...**Publish Year:** 2013

### Diffusion-Weighted Imaging of the Liver in Patients With ...

<https://www.ajronline.org/doi/10.2214/AJR.13.11695>

The objective of our study was to **compare diffusion-weighted imaging (DWI) sequences** using a bipolar versus a monopolar single-shot echo-planar **imaging (EPI)** gradient design for image quality and for lesion detection and characterization in patients with **liver disease**. MATERIALS AND METHODS. In this retrospective study, 77 patients with **chronic liver disease** who underwent MRI including bipolar and monopolar **DWI** ...

**Cited by:** 4**Author:** Sara Lewis, Amita Kamath, Manjil Chatte...**Publish Year:** 2015

### Routine MRI With DWI Sequences to Detect Liver Metastases ...

<https://www.ajronline.org/doi/10.2214/AJR.18.19640>

Moreover, we did not **compare** results of **MRI** with or without **DWI**, nor did we analyze **DWI** alone because the added value of **DWI** for the detection of focal **liver** lesions has been found numerous times. We aimed at assessing the value of **MRI** including **DWI** as an entire workup examination in the

国内版

国际版



Comparison of free breathing and respiratory triggered diffusion-weighted im

All

Images

Videos

22,500 Results

Any time ▾

## Diffusion-weighted imaging of the liver: Comparison of ...

<https://onlinelibrary.wiley.com/doi/10.1002/jmri.21876>

The ADC values obtained with **respiratory triggered** DWI **sequence** were slightly lower than those obtained with the **free breathing sequence**, without reaching significance ( $1.36 \pm 0.33$  versus  $1.47 \pm 0.61 \times 10^{-3} \text{ mm}^2/\text{s}$ ). They did not **compare** the **respiratory triggered** DWI with BH DWI, and did not report the accuracy of ADC for diagnosis of ...

## Respiratory-Triggered Versus Breath-Hold Diffusion ...

<https://www.ajronline.org/doi/full/10.2214/AJR.08.1260>

OBJECTIVE. The purpose of our study was to **compare respiratory-triggered** and **breath-hold** diffusion-weighted liver MRI and to assess the agreement in the apparent diffusion co-efficient (ADC) values between the two **sequences**.

Cited by: 208

Author: Harsh Kandpal, Raju Sharma, K. S. Mad...

Publish Year: 2009

## [PDF] Detection of Hepatic Lesion: Comparison of Free- Breathing ...

<https://synapse.koreamed.org/Synapse/Data/PDFData/0040JKSMRM/jksmrm-15-22.pdf>

**Breathing and Respiratory-Triggered** Diffusion-Weighted MR imaging on 1.5-T MR system Hye Young Park, Hyeon Je Cho, Eun-mi Kim, Gham Hur, Yong Hoon Kim, Byung Hoon Lee Purpose : To **compare free-breathing and respiratory-triggered** diffusion-weighted imaging on 1.5-T MR system in the detection of hepatic lesions.

## Liver Diffusion-weighted MR Imaging: Reproducibility ...

<https://pubs.rsna.org/doi/10.1148/radiol.13131572>

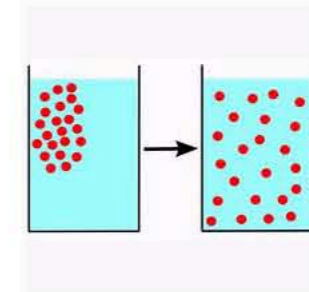
Chat with Bing



Is your goal want to chat with me?

Say something...

## Diffusion

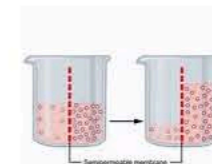


Diffusion is the net movement of molecules or atoms from a region of high concentration (or high chemical potential) to a region of low concentration (or low chemical potential). This is also referred to as the movement of a substance down a concentration gradient.

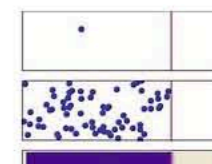
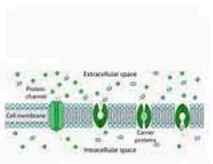


Wikipedia

## People also search for



Osmosis

Fick's Laws  
of DiffusionFacilitated  
Diffusion

See all (15+)

Match Overview



1 Internet 31 words  
crawled on 27-Jul-2019  
f6publishing.blob.core.windows.net

1%

1  
Name of Journal: World Journal of Radiology  
Manuscript NO: 48673  
Manuscript Type: ORIGINAL ARTICLE

Observational Study

Comparison of free breathing and respiratory triggered diffusion-weighted imaging sequences for liver imaging

Szklaruk J *et al.* Comparison of various DWI sequences for liver imaging

Janio Szklaruk, Jong Bum Son, Wei Wei, Priya Bhosale, Sanaz Javadi, Jingfei Ma

Abstract

BACKGROUND

Diffusion-weighted imaging (DWI) has become a useful tool in the detection, characterization, and evaluation of response to treatment of many cancers, including malignant liver lesions. DWI offers higher image contrast between lesions and normal liver tissue than other sequences. DWI images acquired at two or more b-values can be used to derive an apparent diffusion coefficient (ADC). DWI in the body has several technical challenges. This include ghosting artifacts, mis-registration and susceptibility artifacts. New DWI sequences have been developed to overcome some of these challenges. Our goal is to evaluate 3 new DWI sequences for liver imaging.

AIM

To qualitatively and quantitatively compare 3 DWI sequences for liver imaging: free-breathing (FB), simultaneous multislice (SMS), and prospective acquisition correction (PACE).



[国内版](#)[国际版](#)[All](#)[Images](#)[Videos](#)[关闭取词](#)

23,100 Results

Any time ▾

## Diffusion-weighted imaging of the liver: Comparison of ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/jmri.21876>

Abstract Purpose To **compare a free breathing navigator triggered** single shot echoplanar **imaging** (SS EPI) **diffusion-weighted imaging** (DWI) **sequence** with prospective acquisition correction ... There are several recent reports on the use of **respiratory triggered** acquisitions **for liver** DWI (15, 16, 28-31).

## [PDF] Comparison of Breathhold, Navigator-Triggered, and ...

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/jmri.23949>

underwent breathhold, navigator-triggered, and free-breathing diffusion-weighted imaging (DWI) of the liver on a 3.0 Tesla (T) system. All sequences were performed with b values of 50 and **800 s/mm<sup>2</sup>** and identical parameters except for signal averages (two for navigator-triggered, one for breathhold, and four for free-breathing) and repe-

**Cited by:** 54**Author:** Ji Soo Choi, Myeong-Jin Kim, Yong Eun C...**Publish Year:** 2013

## Respiratory-Triggered Versus Breath-Hold Diffusion ...

<https://www.ajronline.org/doi/10.2214/AJR.08.1260>

The purpose of our study was to **compare respiratory-triggered and breath-hold diffusion-weighted liver MRI** and to assess the agreement in the apparent **diffusion co-efficient** (ADC) values between the two **sequences**.

**Cited by:** 208**Author:** Harsh Kandpal, Raju Sharma, K. S. Madh...**Publish Year:** 2009

## [PDF] Detection of Hepatic Lesion: Comparison of Free- ...

<https://synapse.koreamed.org/Synapse/Data/PDFData/0040JKSMRM/jksmrm-15-22.pdf>

Purpose : To **compare free-breathing and respiratory-triggered diffusion-weighted imaging** on 1.5-T MR system in the detection of **hepatic lesions**. Materials and Methods : This single-institution study was approved by our institutional review board. Forty-seven patients (mean 57.9 year; M:F =