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of the spine have relied on significant contributions from MR physicists to apply them to clinical routine. These techniques are feasible at 1.5 and 3 T with a clear advantage of 3 T for magnetic resonance angiography (MRA) and spectroscopy.

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High frame rates Hardly any pulsations

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exposure High load on the X-ray tube

Lower frame rate High contrast due to  
individual pulses Overall radiation

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exposure lower Lower tube load contin.  
DSA Pulsed DSA fast processes  
morphology

Advanced MR Techniques for Imaging the  
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In light of these considerations, there is a  
significant interest in using advanced MRI

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techniques for targeting. Advanced MRI techniques for targeting the VIM encompass sequences such as susceptibility weighted imaging (SWI)/quantitative susceptibility mapping (QSM), fast grey matter acquisition T 1 inversion recovery (FGATIR), and diffusion ...



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This article reviews the physical basis and clinical role of advanced MR imaging techniques for diabetic foot evaluation, emphasizing the imaging features of bone, soft tissue, joints, ...

Advanced MRI imaging of the brain -  
topic guide

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Conventional MR imaging (MRI) provides mainly anatomic or structural information about the brain. Unlike conventional imaging, advanced MR techniques also provide physiological information concerning metabolism and hemodynamics. These techniques not only aid in the imaging diagnosis of brain

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tumors, they may also play a role in  
clinical ...

Home - QMISG

In this article, we illustrate the main  
advanced magnetic resonance imaging  
(MRI) techniques used for imaging of the  
spine and spinal cord in children and

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adults. This work focuses on daily clinical practice and aims to address the most common questions and needs of radiologists. We will also provide tips to solve common problems with which we were confronted.

Advanced Imaging and Spectroscopy

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matter fiber bundles: a comparative study of diffusion tensor imaging, diffusional kurtosis imaging, and diffusion spectrum imaging. AJNR Am J Neuroradiol 2016; 37:1216-1222. Hagmann P, Jonasson L, Maeder P, et al. Understanding diffusion MR imaging techniques: from scalar

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diffusion-weighted imaging to diffusion tensor imaging and beyond.

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In July 2017, the Imaging Center installed a state-of-the-art 3 Tesla MR scanner that allows for better resolution and faster

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imaging times. This broadband system also allows us to employ specialized multi-nuclear imaging and spectroscopy such as carbon-13 ( $^{13}\text{C}$ ) to detect brain metabolism in different neurological diseases and phosphorus-31 ( $^{31}\text{P}$ ) to study energy of the heart muscle.



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According to guideline, conventional MRI is the first-order technique (Level II evidence) to identify the location of the tumor and its relation to adjacent cerebral structures [].The diffusion and perfusion images are quite helpful in the assessment

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of LGG (Level II, Class II/III evidence) by providing a better identification of tumoral heterogeneity than anatomic MRI sequences and provide ...

Advanced MR Imaging Techniques for  
Differentiation of ...

There are several advanced MRI

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techniques for more sophisticated imaging of brain structure and function. The most common advanced imaging techniques include spectroscopy, perfusion, diffusion tensor imaging (DTI), and functional MRI (fMRI). This page gives some of the details of using advanced imaging techniques for brain imaging and surgical

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Creasey, there are several advanced mri  
techniques for more sophisticated imaging  
of brain structure and

Advanced MRI Techniques (and

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an online resource for neuroradiology  
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Applications of Neuroimaging Developing

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advanced anatomical and physiological  
MR imaging and spectroscopy  
quantification techniques for diagnosing  
neuro-pathologies such as multiple  
sclerosis, various brain tumors, epilepsy,  
stroke, etc.

Advanced Imaging Techniques -

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This issue of MRI Clinics of North America focuses on Advanced MR Techniques for Imaging the Abdomen and Pelvis and is edited by Dr. Sudhakar Venkatesh. Articles will include:

Advances in MR Elastography in Liver;  
Biliary Tract Imaging; Imaging of the Pan



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