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The role of the most commonly used advanced MR imaging techniques—perfusion imaging, diffusion-weighted imaging, and MR spectroscopy—in the diagnosis and classification of the most common intraaxial brain tumors in adults is explored.

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A significant number of nonenhancing (NE) gliomas are reported to be malignant. The purpose of this study was to compare the value of advanced MR imaging techniques, including T2*-dynamic susceptibility contrast PWI (DSC-PWI) and proton magnetic resonance spectroscopy (1 HMRS) in the evaluation of NE gliomas. Twenty patients with NE gliomas underwent MRI including DSC-PWI and 1 HMRS.

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MR imaging technical improvements, including higher magnetic field strength and improved coil design, allow the application of new advanced techniques for diabetic foot assessment. For example, the Dixon sequence improves fat suppression in the foot, with increased depiction of bone marrow edema and infectious complications (7).

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Intracranial masses are a significant health problem and present several imaging challenges. The role of imaging is no longer limited to merely providing anatomic details but the advanced MR techniques permit the assessment of the freedom of water molecule movement, the microvascular structure and hemodynamic characteristics, and the chemical makeup of certain metabolites of lesions.

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Introduction . Advanced MR imaging techniques have become an integral part of the evaluation of patients with brain tumors. Although structural imaging provides the primary foundation of an MR examination, advanced MR imaging techniques can potentially provide valuable insight into the physiology, histology, genetics, hemodynamics, and chemistry of a patient's tumor and brain.

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techniques have limited accuracy for evaluation of the diabetic foot. The introduction of morphologic magnetic resonance (MR) imaging in these patients has provided a qualitative leap in diagnosis. The characteristics of soft-tissue and bone marrow edema and their patterns of distribution throughout the foot allow

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The imaging of brain tumors has significantly improved with the use of advanced magnetic resonance (MR) techniques, such as spectroscopy, perfusion, and functional imaging. Conventional MR imaging (MRI) provides mainly anatomic or structural information about the brain.

[Article - Advanced MR techniques in brain tumor imaging](#)

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.

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This advanced MR neuroimaging technique is increasingly applied to the assessment of the healthy and diseased human brain and provides information about the brain's activity. The course will offer an overview of present methodologies, functional neuroanatomy, and clinical as well as some research applications.

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European Course on Advanced Imaging Techniques in ...

In the meantime, improved magnetic resonance (MR) imaging techniques have shown much potentials in evaluating the key pathological features of the gliomas, including cellularity, invasiveness, mitotic activity, angiogenesis, and necrosis, hence, further shedding light on glioma grading before treatment.

Advanced MR Imaging of Gliomas: An Update

Diffusion-weighted magnetic resonance imaging (DW-MRI) is considered part of the standard imaging protocol for the evaluation of patients with prostate cancer. It has been proven valuable as a functional tool for qualitative and quantitative analysis of prostate cancer beyond anatomical MRI sequences such as T2-weighted imaging.

Updates in advanced diffusion-weighted magnetic resonance ...

Advanced MRI techniques for targeting the VIM encompass sequences such as susceptibility weighted imaging (SWI)/quantitative susceptibility mapping (QSM), fast grey matter acquisition T1 inversion recovery (FGATIR), and diffusion tractography (Table 1).

Advanced MRI techniques for transcranial high intensity ...

MRI Bolus Passage Perfusion Imaging Design • Perfusion imaging is performed using a timed bolus of contrast given during rapid image acquisition –Gradient echo echo planar imaging conveys sensitivity to the passage of contrast –2 sec time resolution for each 3D image • Image intensity becomes hypointense as contrast passes

Advanced MRI Techniques (and Applications)

Until now, advanced imaging techniques 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.

Advanced magnetic resonance imaging (MRI) techniques of ...

There are several advanced MRI 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).

Advanced MRI imaging of the brain - topic guide

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