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carefully discussed. A particularly comprehensive section is devoted to interventional oncology as the most rapidly growing branch of interventional radiology.

## **CT- and MR-Guided Interventions in Radiology | Andreas H ...**

Cross-sectional imaging modalities such

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as computed tomography (CT) and magnetic resonance (MR) have emerged as important techniques for non-vascular interventions, including percutaneous biopsy, drainage, ablation, and neurolysis.

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Interventional radiology is an indispensable and still expanding area of modern medicine that encompasses numerous diagnostic and therapeutic procedures. Cross-sectional imaging modalities such as computed tomography (CT) and magnetic resonance (MR) have emerged as important techniques for non-vascular



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interventions, including percutaneous biopsy, drainage, ablation, and neurolysis.

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Coming from endovascular procedures, computed tomography (CT), magnetic resonance (MR) imaging and ultrasound

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have emerged as important techniques for non-vascular interventions such as percutaneous biopsy, drainage, ablation and neurolysis.

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Computed tomography (CT), magnetic resonance (MR) imaging, and ultrasound have emerged as important techniques for nonvascular interventions such as percutaneous biopsy, drainage, ablation, and neurolysis. Different organs, diseases, and lesions can be approached

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in this way for the treatment and management of tumors, fluid collections, and pain.

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CT- and MR-guided interventions in radiology. [Andreas H Mahnken; Jens Ricke;] -- Percutaneous, image-guided

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interventions are a well established and effective tool in clinical routine. These include percutaneous biopsies, drainage, pain management as well as complex techniques ...

### **CT- and MR-guided interventions in radiology (eBook, 2009 ...**

The current CT-guided intervention only

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provides 3D data in a discontinuous, manipulate, and rescan fashion. A new paradigm for real-time 4D imaging, which could play an important role in ...

### **(PDF) CT-Guided Interventions: Current Practice and Future ...**

PURPOSE: To evaluate the benefits of computed tomographic (CT)

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fluoroscopy-guided interventions and assess radiation exposures incurred with CT fluoroscopy. MATERIALS AND METHODS: A 6-month period of use of CT fluoroscopy to guide abdominal biopsy procedures and catheter drainage was analyzed. Efficacy measures and needle placement and procedure room times were compared



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with those of the ...

## **CT Fluoroscopy-guided Abdominal Interventions: Techniques ...**

The next generation of minimally invasive surgical procedures in the brain and heart

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## **MRI Interventions, Inc.**

Performing image-guided interventional procedures in obese patients can present its own technical challenges independent of the imaging portion of the interventions. 2, 28,29 These challenges include adequately visualizing targeted areas, inadequate instrument/equipment length, ability of

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the instruments and large patient to fit into CT and MRI scanners, radiation doses in interventional radiology procedures, safely sedating obese patients, post-procedure recovery and healing.

**Technical challenges of imaging & image-guided ...**

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## **CT- and MR-guided interventions in radiology (eBook, 2009 ...**

CT scans and MRIs are both used to capture images within your body. The biggest difference is that MRIs (magnetic resonance imaging) use radio waves and CT (computed tomography) scans use X-rays....

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## **CT Scans vs. MRIs: Differences, Benefits, and Risks**

This section introduces CT and MRI guided interventional radiology robot for percutaneous needle interventions, developed at TIMC-IMAG (laboratory of Techniques for bioMedical engineering and ...

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## **LPR: A CT and MR-Compatible Puncture Robot to Enhance ...**

CT and MRI compatibility of flexible 3D-printed materials for soft actuators and robots used in image-guided interventions. Neumann W(1), Pusch TP(2), Siegfarth M(2), Schad LR(1), Stallkamp JL(2)(3). Author information:

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(1)Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, 68167, Mannheim, Germany.

## **CT and MRI compatibility of flexible 3D-printed materials ...**

Introduction Various cardiac arrhythmias, e.g. atrial fibrillation and ventricular tachycardia, can be treated



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by electrophysiological (EP) interventions [ 1 ]. Applying MR for guiding these interventions offers advantages like 3D visualization of the cardiac soft tissue in relation to the catheter and absence of ionizing radiation [ 2 ].

## **Towards MR-guided EP**

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## **interventions using an RF-safe ...**

Magnetic resonance-guided radiation therapy (MRgRT) allows for adaptive radiation dose escalation based on tumor response and may improve therapeutic outcomes while limiting toxicities. This protocol evaluates a novel framework for radiation delivery using MRgRT with concurrent

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atezolizumab in patients with advanced HNSCC.

### **Dose-Escalated Hypofractionated Adaptive Radiotherapy for ...**

The aim of this study is to evaluate the feasibility of assisted electromagnetic navigation in percutaneous echo-guided sclerotherapy of slow-flow vascular

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malformations. Feasibility will be defined in terms of the percentage of patients for whom the procedure is successful. Primary interventional ...

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