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**Manuscript NO:** 56109

**Manuscript Type:** ORIGINAL ARTICLE

### *Retrospective Study*

## **Comparison Between computed tomography and magnetic resonance imaging in Clinical Diagnosis and Treatment of Tibial Platform Fractures**

Xin-Ding Liu, Hai-Bo Wang, Tie-Cheng Zhang, Yong Wan, Chu-Zhen Zhang

### BACKGROUND

Tibial plateau fracture is one of the common fracture types. It occurs mainly in teenagers and is usually caused by a fall. After the occurrence of fracture, knee swelling, pain, limited activity, etc., greatly affect the patient's exercise and lifestyle. X-ray, computed tomography (CT) and magnetic resonance imaging (MRI) were used in this examination. X-rays are relatively new and easy to

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## (PDF) Comparison of CT and MRI in patients with tibial ...

<https://www.researchgate.net/publication/6661395...>

Background and objectives: The aim of the study was to compare the accuracy of X-ray (XR) imaging according to computed tomography (CT) scanning in the diagnosis of knee bone fractures, and in the ...

## MDCT and MRI for the diagnosis of complex fractures of the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3861471>

Nov 01, 2013 · Complex fractures of the tibial plateau commonly occur in patients following high-energy trauma, typically accompanied by severe damage to the knee articulation and the surrounding tissues. The diagnosis and treatment of complex tibial plateau fractures remains a significant challenge in orthopedic trauma (1,2). In the past, normal X-ray films ...

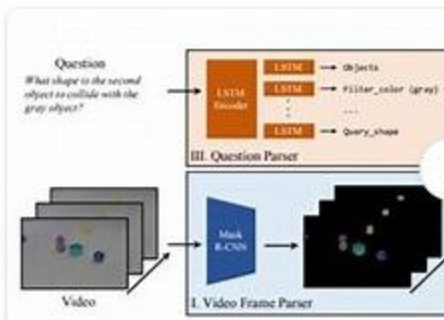
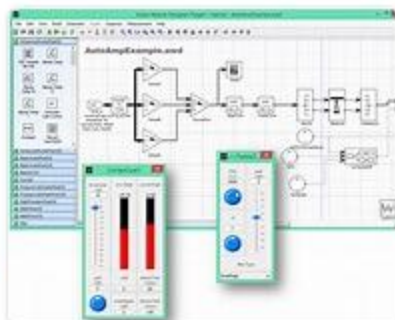
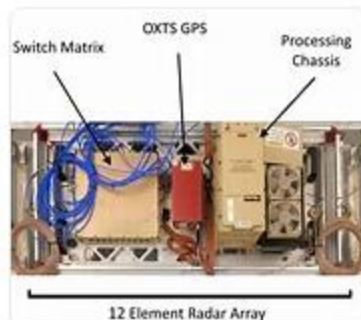
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Author: Yunqin Xu, Qiang Li, Peihua Su, Tugang ...

Publish Year: 2014

## Images of Comparison Between Ct And Mri In Clinical Diagno...

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## Comparison of X-Ray Imaging and Computed Tomography ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6843286>

Sep 23, 2019 · Background and objectives: The aim of the study was to compare the accuracy of X-ray





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## Computed tomography versus magnetic resonance imaging ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6464799>

Jun 05, 2015 · Kusano N, Churei Y, Shiraishi E, Kusano T. **Diagnosis** of occult carpal scaphoid fracture: a **comparison** of **magnetic resonance imaging** and **computed tomography** techniques. Techniques in Hand & Upper Extremity Surgery 2002; 6 (3):119-23. [PUBMED: 16520609] [Google Scholar]

**Cited by:** 21

**Author:** Wouter H. Mallee, Junfeng Wang, Rudolf ...

**Publish Year:** 2015

## Computed Tomography Versus Magnetic Resonance ...

<https://www.ncbi.nlm.nih.gov/pubmed?term=Computed...>

Background: In clinically suspected scaphoid **fractures**, early **diagnosis** reduces the risk of non-union and minimises loss in productivity resulting from unnecessary cast immobilisation. Since initial radiographs do not exclude the possibility of a fracture, additional **imaging** is needed. **Computed tomography** (CT), **magnetic resonance imaging** (MRI) and bone scintigraphy (BS) are widely used ...



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### Computed tomography versus magnetic resonance imaging ...

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Publish Year: 2015

### Computed tomography versus magnetic resonance imaging ...

<https://www.cochranelibrary.com/cdsr/doi/10.1002/...> ▼

Jun 05, 2015 · **Computed tomography** (CT), **magnetic resonance imaging** (MRI) and bone scintigraphy (BS; bone scan) are all **imaging** modalities that can be chosen at this stage. The aim of this systematic review was to establish which is the superior technique for identifying a true fracture and preventing unnecessary **treatment**.

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Author: Wouter H. Mallee, Junfeng Wang, Rudolf ...

Publish Year: 2015

### Computed tomography versus magnetic resonance imaging ...

<https://reference.medscape.com/medline/abstract/26045406> ▼

**Computed tomography** (CT), **magnetic resonance imaging** (MRI) and bone scintigraphy (BS) are widely used to establish a definitive **diagnosis**, but there is uncertainty about the most appropriate method. OBJECTIVES: The primary aim of this study is to identify the most suitable diagnostic **imaging** strategy for identifying clinically suspected ...