

# Comparison of MRI and Arthroscopy Diagnostic Results in Patients with Suspected Meniscal Tears and Ruptures of ACL and PCL of Knee Joint

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## Abstract

**Background:** The knee joint is the most vulnerable complicated and the largest joint in the human body, so the bulk of orthopaedic surgeries are related to the knee joint injuries, while it is aggressive and many complications associated with it, but the arthroscopy is the gold standard for diagnosis. Nowadays MRI has become an important tool in the diagnosis of considered health problems, so more studies are determine the diagnostic value of MRI in comparison with Arthroscopy.

**Results:** In this study 90 patients were examined. 85% of them were male. MRI sensitivity for ACL, MM LM, PCL evaluated 94.7%, 93.5%, 65%, and 100% respectively. Also MRI specificity for these injuries measured 81%, 77%, 90.9% and 96.3% accordingly.

**Conclusions:** Although MRI diagnostic value in the evaluation of knee associated injuries is relatively high but does not eliminate the need to perform arthroscopy. Therefore it is recommended that in future studies designing solutions in order to improving the diagnostic value of MRI must be considered

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