

# DIAGNOSTIC IMAGING SCIENCES CENTER

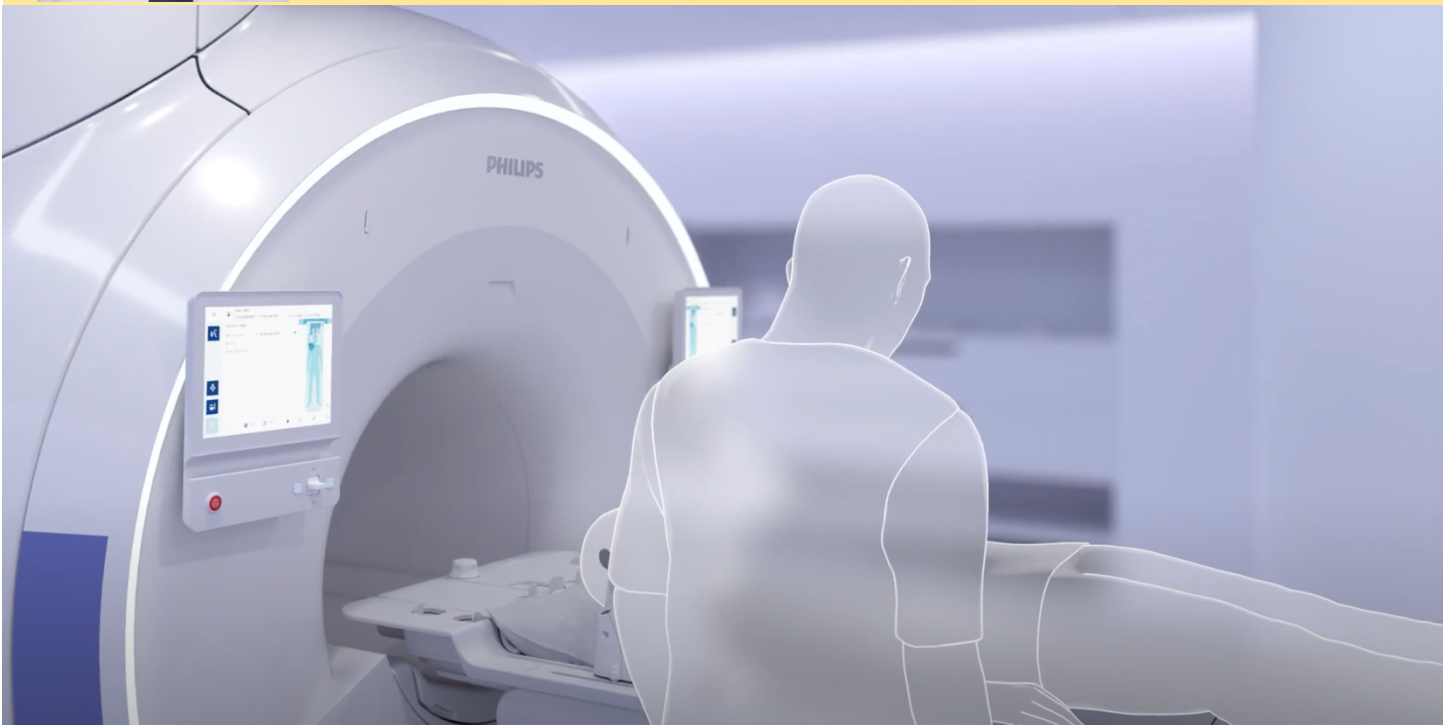
## *Imaging Researcher of the Month*



***Dr. Majid Chalian, MD***

Assistant Professor  
Section Chief, Musculoskeletal Radiology  
Department of Radiology

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### **What is the primary scientific focus of your research?**

*We are working to understand biomechanics of shoulder rotator cuff tendons using MRI- and ultrasound-based morphologic and quantitative biomarkers and apply it to develop methods to prevent work related rotator cuff tendon pathologies.*

### **What is the relevance of your work to the public health?**

*Output of our research could provide insight on biomechanics of rotator cuff tendons at different positions and under different forces. This could help us prevent rotator cuff injuries related to work or sports injury.*

### **How has DISC helped you achieve your scientific and public health goals?**

*DISC has provided us with ample support to design our research, obtain innovative fast 3D MRI acquisitions so that we could scan shoulders under different loads and at non-standard positions, and also supported us with postprocessing of our data.*