

Date: Fri September 16, 2016

Time: 06:30 - 08:00

Instructional Course Lecture #5 - Hip Imaging: Optimizing Your View through Plain Films, Ultrasound, CT, MRI, dGEMRIC

Advanced Imaging Techniques for the Hip Joint: *Ultrasound, dGEMRIC, Surface Mapping*

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1. Anatomy overview
 - A. Gross anatomy: Cam, pincer, labrum
 - B. Histologic Anatomy of cartilage and Labrum (Layers and Make up)

2. Ultrasound as diagnostic tool
 - A. Image formation
 - B. Diagnosis of FAI versus X-ray
 - C. Dynamic exam
 - D. Injection

3. dGemric MRI to estimate surgical indications
 - A. Image formation
 - B. Diagnosis of Cartilage Injury/ Osteoarthritis
 - C. Other options
 - a. T2 mapping
 - b. T1 rho

4. Surface mapping with CT scan to guide pre-operative planning
 - A. 3D reconstruction/ Image formation
 - B. Simulated Dynamic manipulation
 - C. Simulated resection
 - D. Potential intra-operative applications