



The 2025-26 Musculoskeletal Imaging Update Program Description



This course was designed by and for radiologists to provide a comprehensive, case-based review of MSK imaging, covering ultrasound and MRI evaluation of commonly imaged joints as well as imaging findings for bone tumors, infections, and more. Presented 4 hours per day, over 5 days, *The Musculoskeletal Update* offers 20 hours of accredited content, weekly at over 50 premier travel locations.

DAY 1

- Lecture 1:** Jon A. Jacobson, MD, FACR presents
MR Imaging of the Hip
Jon A. Jacobson, MD, a leading authority in musculoskeletal imaging, provides a detailed review of hip MRI interpretation. This lecture covers the evaluation of joint pathology, labral tears, femoroacetabular impingement, osteonecrosis, fractures, and greater trochanteric pain syndrome. Key topics include differentiating between normal variants and pathology, recognizing subtle findings that impact clinical management, and understanding the role of MRI in diagnosing hip disorders. Special attention is given to optimizing imaging techniques and avoiding common diagnostic pitfalls.
- Lecture 2:** Kevin McGill, MD, MPH, RMSK, MRMD presents
Ultrasound of the Hip
Ultrasound plays a critical role in the evaluation of the hip, from assessing soft tissue injuries to detecting complications following arthroplasty. In this lecture, Kevin McGill, MD, MPH, RMSK, MRMD—Associate Professor and Director of Musculoskeletal Interventions at the University of California, San Francisco—offers a structured overview of hip ultrasound. The lecture covers anterior hip structures, including the iliopsoas tendon and joint capsule; lateral anatomy with emphasis on the gluteal tendons and trochanteric bursa; and posterior structures such as the hamstrings, piriformis, and sciatic nerve. Special consideration is given to ultrasound evaluation in patients with hip arthroplasty.
- Lecture 3:** Jon A. Jacobson, MD, FACR presents
Imaging Evaluation of Bone Tumors and Tumor-like Lesions
Bone lesions present a frequent diagnostic challenge, requiring careful imaging evaluation to distinguish benign from aggressive processes. Jon A. Jacobson, MD, FACR, a leading authority in musculoskeletal radiology, reviews a systematic approach to assessing bone tumors and tumor-like lesions. This lecture covers key imaging characteristics, including lesion margins, cortical involvement, and matrix mineralization, and their role in guiding clinical management. Special attention is given to recognizing imaging features that help determine the need for further evaluation, biopsy, or surveillance.
- Lecture 4:** Jon A. Jacobson, MD, FACR presents
Imaging of Musculoskeletal Infection
Jon A. Jacobson, MD, FACR, is an internationally recognized expert in musculoskeletal imaging. This lecture provides a comprehensive review of the imaging features of musculoskeletal infections, including cellulitis, septic arthritis, and osteomyelitis. Key topics include differentiating infection from neuropathic joint disease, identifying the role of ultrasound, MRI, and CT in diagnosis, and understanding imaging patterns that aid in early detection and appropriate management. Emphasis is placed on recognizing critical findings that impact patient care and treatment decisions.

DAY 2

- Lecture 1:** Jon A. Jacobson, MD, FACR presents
MR Imaging of the Ankle and Foot
Jon A. Jacobson, MD, a leading authority in musculoskeletal imaging, provides a comprehensive review of MRI evaluation of the ankle and foot. This lecture covers tendon pathology, ligamentous injuries, osseous abnormalities, neuropathic changes, infection, and soft tissue tumors. Key topics include optimizing MRI protocols, differentiating normal variants from pathology, and identifying imaging findings critical for diagnosis and treatment planning. Emphasis is placed on a structured approach to MRI interpretation to enhance diagnostic accuracy and improve patient care.
- Lecture 2:** Kevin McGill, MD, MPH, RMSK, MRMD presents
Ultrasound of the Ankle
Musculoskeletal ultrasound is an increasingly valuable tool for evaluating ankle ligament injuries, offering high-resolution, real-time imaging at the point of care. In this lecture, Kevin McGill, MD, MPH, RMSK, MRMD—Associate Professor and Director of Musculoskeletal Interventions at the University of California, San Francisco—reviews normal ankle ligament anatomy and the sonographic features of common injury patterns. Topics include the lateral collateral ligament complex, syndesmotic injuries, and deltoid ligament pathology. Emphasis is placed on dynamic assessment techniques, anatomic variation, and practical strategies to improve the accuracy of ultrasound diagnosis in ankle trauma.
- Lecture 3:** Jon A. Jacobson, MD, FACR presents
Imaging of Subtle and Important Fractures: Lower Extremity
Board-certified musculoskeletal radiologist Jon A. Jacobson, MD, FACR, explores the challenges of detecting subtle lower extremity fractures. These fractures, including femoral neck, tibial plateau, and Lisfranc injuries, can be easily overlooked on initial imaging, leading to delayed or missed diagnoses.

This lecture focuses on recognizing high-risk fracture patterns, understanding the limitations of radiographs, and determining when advanced imaging is necessary. Attendees will gain insight into the imaging techniques that improve fracture detection and optimize patient outcomes.
- Lecture 4:** Kevin McGill, MD, MPH, RMSK, MRMD presents
Upper Extremity Fractures
Kevin McGill, MD, MPH, RMSK, MRMD, Associate Professor and Director of Musculoskeletal Interventions at the University of California, San Francisco, presents a practical, case-based review of upper extremity fractures. The lecture follows a proximal-to-distal approach, covering injuries of the shoulder, elbow, forearm, wrist, and hand. Key topics include anterior and posterior shoulder dislocations, clavicle and scapula fractures, Monteggia and Galeazzi fracture-dislocations, carpal fractures, and soft tissue injuries such as pulley tears and mallet finger. Emphasis is placed on radiographic technique, mechanism of injury, and

identifying findings that alter clinical management.

DAY 3

- Lecture 1:** Jon A. Jacobson, MD, FACR presents
MR Imaging of the Wrist and Hand
Jon A. Jacobson, MD, a leading expert in musculoskeletal imaging, provides a comprehensive review of MRI evaluation of the wrist and hand. This lecture covers tendon pathology, ligament and triangular fibrocartilage complex injuries, arthritis, nerve entrapment syndromes, osseous abnormalities, and soft tissue masses. Key topics include optimizing MRI protocols for wrist and hand evaluation, distinguishing normal variants from pathology, and recognizing subtle imaging findings that impact clinical decision-making. Emphasis is placed on practical diagnostic approaches to improve accuracy and patient management.
- Lecture 2:** Kevin McGill, MD, MPH, RMSK, MRMD presents
Ultrasound of the Wrist
Ultrasound provides a dynamic, detailed view of the wrist's intricate anatomy, aiding in the diagnosis of soft tissue and nerve pathology. In this lecture, Kevin McGill, MD, MPH, RMSK, MRMD—Associate Professor and Director of Musculoskeletal Interventions at the University of California, San Francisco—guides learners through dorsal and volar wrist anatomy and pathology. Topics include sonographic evaluation of the extensor compartments, flexor tendons, median and ulnar nerves, and common conditions such as carpal tunnel syndrome, de Quervain tenosynovitis, extensor carpi ulnaris subluxation, and ganglion cysts. Emphasis is placed on recognizing normal variants, dynamic assessment techniques, and applying ultrasound findings to clinical decision-making.
- Lecture 3:** Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
Ultrasound of the Elbow
Steven Soliman, DO, RMSK, FAIUM, FAOCR, Program Director of the MSK Radiology Fellowship and Director of MSK Ultrasound at University of Michigan, discusses ultrasound of the elbow including a review of normal anatomy with corresponding MRI and cadaver images. Dr. Soliman offers a comprehensive overview of imaging protocol with examples of positioning and expected appearances. He also reviews the benefit of ultrasound for dynamic imaging of distal bicep and ulnar nerve subluxation/dislocation.
- Lecture 4:** Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
Ultrasound-Guided Musculoskeletal Procedures
Program Director of the MSK Radiology Fellowship and of MSK Ultrasound at University of Michigan, Steven Soliman, DO, RMSK, FAIUM, FAOCR, discusses the benefits of ultrasound-guided musculoskeletal procedures and reviews the necessary techniques. Dr. Soliman provides an overview of the supplies needed, relevant anatomy, and probe/needle placement with ultrasound and MRI correlation for common ultrasound guided procedures.

DAY 4

- Lecture 1: Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
MRI of the Knee
Board-certified and fellowship-trained musculoskeletal radiologist at the University of Michigan, Steven Soliman, DO, RMSK, FAIUM, FAOCR, offers a comprehensive discussion of MRI knee including imaging protocol with important aspects of the typically required sequences. Dr. Soliman reviews representative MRI knee cases to discuss knee anatomy, common pathology, and typical injury patterns.
- Lecture 2: Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
Ultrasound of the Knee
Steven Soliman, DO, RMSK, FAIUM, FAOCR, Program Director of the MSK Radiology Fellowship and Director of MSK Ultrasound at the University of Michigan discusses ultrasound of the knee including a review of important ligament, tendon, meniscus, and neurovascular anatomy, and their appearance on ultrasound. Dr. Soliman provides a comprehensive overview of imaging protocol and discusses the usefulness of the dynamic imaging offered by ultrasound as well as its evaluation limits.
- Lecture 3: Wende N. Gibbs, MD presents
Spine Infection and Mimics
Wende N. Gibbs, MD, a neuroradiologist at Barrow Neurological Institute, specializes in spine imaging with a focus on oncologic and infectious disease. This lecture explores the imaging evaluation of spine infections, including pyogenic discitis-osteomyelitis, tuberculous and fungal spondylitis, and epidural abscesses, as well as conditions that can mimic infection. Topics include the sensitivity and specificity of MRI and CT, the role of image-guided biopsy, recognition of granulomatous disease, and differentiating mimics such as Schmorl nodes, neuroarthropathy, and calcific tendonitis. The lecture emphasizes a practical diagnostic approach to improve accuracy and avoid misdiagnosis.
- Lecture 4: Wende N. Gibbs, MD presents
Degenerative and Postoperative Spine
Wende N. Gibbs, MD, is a neuroradiologist at the Barrow Neurological Institute with expertise in spine imaging and postoperative evaluation. This lecture provides a comprehensive review of degenerative and postoperative spine imaging, including disc herniation, spinal stenosis, myelopathy, and complications following spinal surgery. Topics include interpreting imaging in the context of prior procedures, identifying causes of failed back syndrome, and differentiating between normal postoperative findings and pathology such as pseudoarthrosis, dural tears, hardware complications, and adjacent segment degeneration. Emphasis is placed on improving diagnostic confidence and clinical collaboration through a structured imaging approach.

DAY 5

- Lecture 1: Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
MRI of the Shoulder
Steven Soliman, DO, RMSK, FAIUM, FAOCR, Program Director of the MSK Radiology Fellowship and Director of MSK Ultrasound at the University of Michigan reviews MRI of the shoulder including imaging protocol with important aspects of the typically required sequences. Dr. Soliman reviews representative MRI shoulder cases to discuss shoulder anatomy, and common pathology with a focus on rotator cuff injuries.
- Lecture 2: Steven B. Soliman, DO, RMSK, FAIUM, FAOCR presents
Ultrasound of the Shoulder
Program Director of the MSK Radiology Fellowship and Director of MSK Ultrasound at University of Michigan, Steven Soliman, DO, RMSK, FAIUM, FAOCR, offers an exploration of ultrasound of the shoulder which includes a review of relevant anatomy and expected appearances. Dr. Soliman provides a comprehensive discussion of the benefits of dynamic imaging, as well as imaging protocol utilizing examples of positioning.

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Lecture 3: Carole C. Foos, CPA presents
Maximizing Practice Profitability: Metrics, Analyses, and Strategies
Practice financial health directly impacts practice efficacy, culture and economic viability, as well physician stress and well-being. Healthcare practice financial consultant, Carole Foos, CPA, offers a comprehensive review of the metrics, analyses, and strategies necessary to understand to ensure financial stability and success. Topics covered include key financial ratios, cash flow management and statements, profitability metrics and indicators, and process implementation strategies.

Lecture 4: David B. Mandell, JD, MBA presents
Tax Efficiency and Asset Protection for Radiologists
David B. Mandell, JD, MBA, is a partner at OJM Group and a nationally recognized expert in physician-focused tax, legal, and financial planning. In this lecture, he explores key strategies radiologists can use to reduce tax liability and protect personal and practice assets. Topics include practice structure options (such as LLCs, S Corps, and C Corps), retirement plan design, tax diversification, and risk management through asset protection tools. Emphasis is placed on both employed and independent radiologists, with actionable insights for doctorpreneurs, locum tenens physicians, and those involved in consulting, speaking, or startup ventures.

For more information, visit the AEI website at AEISeminars.com or click the links below

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PARTICIPANT DETAILS

Participant: _____ Destination: _____

Start Date: _____ End Date: _____ Cost: _____