



The 2026-27 Radiology Update

Program Description

This course is a comprehensive and clinically relevant review of key imaging topics across multiple subspecialties. Designed to keep radiologists current with the latest advancements, this course delivers case-based content that enhances diagnostic accuracy and clinical decision-making. Presented 4 hours per day, over 5 days, *The Radiology Update* offers 20 hours of accredited content, weekly at over 50 premier travel locations.



DAY 1

Lecture 1: Joshua P. Nickerson, MD, FACR presents
Adult Brain Tumors

Adult brain tumors require a structured and methodical imaging approach in the context of rapidly evolving molecular classification systems. In this lecture, Joshua P. Nickerson, MD, FACR, Professor and Vice Chair for Academic Affairs in the Department of Radiology at Oregon Health & Science University, presents a practical framework for evaluating new intracranial masses. Dr. Nickerson reviews updated WHO nomenclature, key differential considerations based on lesion location and morphology, and the appropriate use of advanced imaging techniques including diffusion imaging, perfusion MRI, functional MRI, spectroscopy, and PET.

Lecture 2: Don C. Yoo, MD, FACR presents
Overview of Theranostics in Oncology

Theranostics represents a major shift toward precision oncology by combining diagnostic imaging with targeted radiopharmaceutical therapy. In this lecture, Don C. Yoo, MD, FACR, Professor of Radiology and Clinician Educator at The Warren Alpert Medical School of Brown University and Director of Nuclear Medicine at Rhode Island and The Miriam Hospitals, reviews the evolution of theranostic agents used in neuroendocrine and prostate cancers. Dr. Yoo discusses recently approved PET tracers and therapies, their economic and regulatory implications, and emerging innovations shaping the future of nuclear medicine-based cancer care.

Lecture 3: Robert M Marks, MD presents
Imaging of the Biliary System

Robert M. Marks, MD, FSAR, head of Body Imaging at UC San Diego School of Medicine's Radiology Department, discusses the normal and variant anatomy of the biliary system and its disease processes, and explores alternative imaging methods. Imaging approaches explored include ultrasound, MR and CT, and percutaneous transhepatic cholangiography. Abnormalities and diseases reviewed include choledochal cysts, dilated ducts, bile duct stones, benign and malignant strictures, primary sclerosing cholangitis, IgG4-related cholangitis, ascending cholangitis, recurrent pyogenic cholangitis, AIDS-related cholangitis, and chemotherapy-induced cholangitis, as well as cholangiocarcinoma.

Lecture 4: Andrew Moriarity, MD, MBA presents
The Future of Radiology Practice

Radiology practice is being reshaped by evolving payment models, consolidation, and changing ownership structures across healthcare. In this lecture, Andrew Moriarity, MD, MBA, Associate Professor at Michigan State University and President of Advanced Radiology Services, examines how historical and modern payment policies have influenced practice governance and market dynamics. Dr. Moriarity reviews trends in hospital integration, private equity involvement, and the declining prevalence of independent physician ownership. Participants gain insight into how these forces are likely to impact career pathways, compensation models, and the future structure of radiology practice.

DAY 2

- Lecture 1:** Joshua P. Nickerson, MD, FACR presents
Intracranial Infections
Joshua P. Nickerson, MD, FACR, Professor and Vice Chair for Academic Affairs in the Department of Radiology at Oregon Health & Science University, presents a comprehensive, case-based review of intracranial infections. Drawing on academic expertise and published work in neuroimaging of infection, Dr. Nickerson examines bacterial, viral, fungal, parasitic, and TORCH-related processes with emphasis on diffusion-weighted imaging and advanced MRI techniques. The lecture highlights distinguishing imaging characteristics of epidural abscess, subdural empyema, meningitis, cerebritis, encephalitis, and opportunistic infections in immunocompromised patients.
- Lecture 2:** Don C. Yoo, MD, FACR presents
Emergency Nuclear Medicine Cases
Emergency nuclear medicine studies require precise interpretation in high-stakes clinical scenarios. This lecture presents case-based examples of brain death scintigraphy, Meckel's scans, hepatobiliary imaging, GI bleeding studies, and V/Q scans, highlighting diagnostic criteria and common pitfalls. Don C. Yoo, MD, FACR, Professor of Diagnostic Imaging at The Warren Alpert Medical School of Brown University and Director of Nuclear Medicine at Rhode Island and The Miriam Hospitals, draws on extensive academic and clinical experience to guide participants through accurate image interpretation and appropriate clinical integration of these critical studies.
- Lecture 3:** Summer Kaplan, MD presents
Pediatric Trauma Imaging
Pediatric trauma imaging requires a careful balance between diagnostic accuracy and minimizing radiation exposure. Children have unique anatomical and physiological considerations that affect injury patterns and imaging needs, making a tailored approach essential. This lecture reviews best practices for imaging pediatric trauma, including appropriate CT protocols, radiation safety strategies, and the identification of critical findings in head, spine, chest, and abdominal injuries. Summer L. Kaplan, MD, Associate Professor of Clinical Radiology at the Children's Hospital of Philadelphia, discusses key imaging features of both accidental and non-accidental trauma, emphasizing a systematic approach to improve diagnostic accuracy and optimize patient care.
- Lecture 4:** David M. Yousem, MD, MBA presents
Physician Employment Contracts: Avoiding the Mistakes That Cost Careers
David M. Yousem, MD, MBA, Professor of Radiology at Johns Hopkins University School of Medicine and an experienced academic leader and medicolegal consultant, demystifies physician employment contracts. Dr. Yousem reviews the most common contractual "big mistakes," including reliance on verbal promises, misunderstanding compensation and benefits, restrictive covenants, termination clauses, malpractice coverage, and partnership expectations. Drawing on real-world examples and legal principles, he provides clear guidance to help physicians recognize red flags, negotiate more effectively, and safeguard their professional and financial futures.

DAY 3

- Lecture 1:** Joshua P. Nickerson, MD, FACP presents
Neurodegenerative Disorders
Joshua P. Nickerson, MD, FACP, Professor and Vice Chair for Academic Affairs in the Department of Radiology at Oregon Health & Science University, presents a comprehensive, case-based review of neurodegenerative disease imaging. Drawing on academic expertise and contemporary therapeutic developments, Dr. Nickerson examines Alzheimer disease, cerebral amyloid angiopathy, frontotemporal dementia, prion disease, Parkinsonian syndromes, Huntington disease, amyotrophic lateral sclerosis, normal pressure hydrocephalus, and vascular dementia. Special emphasis is placed on emerging imaging considerations related to anti-amyloid therapies and ARIA, as well as advanced nuclear medicine techniques such as amyloid PET and DaTscan.
- Lecture 2:** Don C. Yoo, MD, FACP presents
Nuclear Medicine for Infection and Inflammation
Don C. Yoo, MD, FACP, Professor of Diagnostic Imaging at The Warren Alpert Medical School of Brown University and Director of Nuclear Medicine at Rhode Island and The Miriam Hospitals, presents a comprehensive review of nuclear medicine techniques for evaluating infection and inflammation. Drawing on extensive academic and clinical experience, Dr. Yoo reviews three-phase bone scans, labeled white blood cell imaging, gallium studies, and the expanding role of FDG PET/CT. Through case-based examples, he highlights diagnostic strengths, limitations, and evolving applications that are reshaping the workup of osteomyelitis, prosthetic infections, vasculitis, and fever of unknown origin.
- Lecture 3:** Andrew Moriarty, MD, MBA presents
Standardizing Imaging Reports
Standardized language in imaging is essential for clear communication, accurate diagnosis, and effective clinical decision-making. In this lecture, Andrew Moriarty, MD, MBA, Associate Professor of Radiology at Michigan State University and President of Advanced Radiology Services, reviews consensus-driven approaches to terminology and reporting across different imaging domains. He examines the Society of Radiologists in Ultrasound lexicon for first-trimester pregnancy and structured reporting frameworks for pulmonary embolism CT, emphasizing clarity, patient-centered language, and clinically actionable findings. Participants gain practical strategies to improve report consistency, avoid common pitfalls, and enhance the clinical value of their imaging interpretations.
- Lecture 4:** David M. Yousem, MD, MBA presents
Understanding the RBRVS System: How Physicians Are Valued and Paid
David M. Yousem, MD, MBA, Professor of Radiology at Johns Hopkins University School of Medicine and a nationally recognized authority on radiology economics and business practice, provides a clear, practical overview of the RBRVS system. Dr. Yousem explains how CPT codes are valued, how technical and professional components are determined, and why reimbursement varies by specialty and geography. Using real-world comparisons and CMS data, he demystifies RVUs, conversion factors, and common coding pitfalls, equipping physicians with the knowledge needed to better understand compensation models and reimbursement realities.

DAY 4

- Lecture 1:** David M. Yousem, MD, MBA presents
Facial Trauma Imaging: Fracture Patterns, Complications, and High-Risk Findings
Facial trauma imaging demands careful attention to fracture patterns, anatomic buttresses, and associated soft-tissue and vascular injuries. In this lecture, David M. Yousem, MD, MBA, Professor of Radiology at JohnsHopkins University School of Medicine and a nationally recognized neuroradiologist, provides a comprehensive yet practical review of facial, orbital, mandibular, midface, and temporal bone trauma. Dr. Yousem emphasizes key CT pearls, common pitfalls, and complications such as CSF leaks, optic nerve injury, vascular trauma, and airway compromise. Through high-yield imaging examples, he equips clinicians with a clear framework for accurate diagnosis and effective trauma management.
- Lecture 2:** Don C. Yoo, MD, FACR presents
Importance of Patient Preparation for PET/CT
Patient preparation is a critical determinant of PET/CT image quality and interpretive confidence. In this lecture, Don C. Yoo, MD, FACR, Professor of Diagnostic Imaging at The Warren Alpert Medical School of Brown University and Director of Nuclear Medicine at Rhode Island and The Miriam Hospitals, reviews preparation challenges and evidence-based recommendations for FDG PET/CT in oncology and cardiac sarcoidosis. Drawing on ACR, SNMMI, and NCI guidelines, Dr. Yoo highlights best practices for fasting, diet, exercise restriction, hydration, and glucose management, including practical strategies for imaging diabetic patients and avoiding common pitfalls that compromise diagnostic accuracy.
- Lecture 3:** Anil Kumar Attili, MD presents
Cardiac MR and CT Case Reviews
Co-director of Cardiac MRI at the University of Michigan, Anil K. Attili, MD, discusses the role of Cardiac MR and CT in the evaluation of cardiac disease. Dr. Attili uses 14 clinical cases to explore important uses for these modalities, provide an approach to evaluation, and review their findings in common cardiac conditions including ischemic heart disease and non-ischemic cardiomyopathies.
- Lecture 4:** Gary J. Whitman, MD presents
Breast Biopsy Techniques
Gary J. Whitman, MD, Professor of Radiology at The University of Texas MD Anderson Cancer Center and a national leader in breast imaging, provides a comprehensive review of image-guided breast biopsy techniques. Drawing on extensive clinical and academic experience, Dr. Whitman compares ultrasound-guided and stereotactic approaches, highlighting their respective indications, advantages, and limitations. He reviews procedural techniques, equipment selection, and strategies to optimize tissue sampling and diagnostic yield. Participants gain practical insight into imaging-pathology concordance, post-procedure management, and decision-making that supports accurate diagnosis while minimizing unnecessary surgical intervention.

DAY 5

- Lecture 1:** David M. Yousem, MD, MBA presents
Inflammatory Demyelinating Lesions: MRI Patterns, Diagnostic Criteria, and Key Mimics
Inflammatory demyelinating disease encompasses a broad spectrum of entities with overlapping imaging features and important management implications. In this lecture, David M. Yousem, MD, MBA, Professor of Radiology at Johns Hopkins University School of Medicine and a nationally recognized authority in neuroradiology, reviews classic and emerging MRI findings in multiple sclerosis, NMOSD, MOGAD, ADEM, and related disorders. Dr. Yousem emphasizes updated McDonald criteria, central vein and paramagnetic rim signs, optic nerve involvement, and key imaging mimics such as PRES, IRIS, PML, and vascular disease. Through evidence-based insights and illustrative cases, he provides a practical framework for accurate diagnosis and confident reporting.
- Lecture 2:** Anil Kumar Attali, MD presents
Thoracic Imaging: Case Review
Anil K. Attali, MD, professor of radiology at the University of Michigan, draws upon 14 clinical cases to review the evaluation of parenchymal lung diseases including the imaging findings encountered in clinical practice with a particular focus on HRCT. He instructs on recognizing disease distribution and imaging patterns as well as providing necessary information to develop appropriate differential diagnoses.
- Lecture 3:** Gary J. Whitman, MD presents
Axillary Staging and Breast Localization
Accurate axillary staging and precise lesion localization are essential for guiding surgical management in breast cancer. In this lecture, Gary J. Whitman, MD, Professor of Radiology at The University of Texas MD Anderson Cancer Center, reviews ultrasound evaluation of the axilla, biopsy techniques, and the evolving role of sentinel lymph node biopsy and targeted axillary dissection. He also examines non-wire localization methods, including radioactive, magnetic, and radar-based systems, with emphasis on workflow, safety, and multidisciplinary coordination. Participants gain practical strategies to integrate imaging findings with surgical planning and improve diagnostic accuracy and procedural efficiency.
- Lecture 4:** Andrew Moriarity, MD, MBA presents
Behavioral Economics and Clinical Decision-Making
Andrew Moriarity, MD, MBA, Associate Professor of Radiology and Biomedical Imaging at Michigan State University and President of Advanced Radiology Services, presents an engaging exploration of behavioral economics and its impact on decision-making. Drawing on expertise in clinical practice, leadership, and healthcare systems, Dr. Moriarity examines how cognitive biases such as anchoring, confirmation bias, loss aversion, and overconfidence influence physician behavior. He connects foundational concepts like prospect theory to real-world clinical and financial decisions, highlighting how assumptions of rationality often fail in practice. Participants gain practical strategies to recognize bias, improve decision-making under uncertainty, and enhance both clinical and professional outcomes.

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: _____