The 2025-26 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:
Robert M. Marks, MD, FSAR presents
Cholangio-carcinoma Imaging Update

Clinical Professor of Radiology at UC San Diego Medical School, Robert M. Marks, MD, offers a comprehensive review of the defining characteristics of cholangiocarcinoma, risk factors, precursor lesions, and the lexicon developed specifically for CCA by the Society for Abdominal Radiology Diseased Focused Panel. He then discusses classifications of ICC based on morphology, anatomical location, and histology, as well as mimickers of CCA. Dr. Marks focuses finally on standardized reporting templates for CCA.

Lecture 2:
Wende N. Gibbs, MD presents
A Compartment Based Approach to Spinal Pathology

Wende N. Gibbs, MD, is a neuroradiologist at Barrow Neurological Institute with expertise in spine oncology, postoperative imaging, and spinal vascular disorders. In this lecture, she presents a compartmental framework for interpreting spinal pathology, with emphasis on anatomic localization, clinical correlation, and structured reporting. Topics include the use of SINS and ESCC grading systems for spinal metastases, imaging features of intradural and extradural cysts, spinal cord tumors, leptomeningeal metastases, and vascular malformations. Attendees will gain practical tools for localizing pathology, identifying key imaging findings, and applying consistent language to support multidisciplinary care.

Lecture 3:
Summer Kaplan, MD presents
Pediatric Non-Accidental Trauma

Summer L. Kaplan, MD, Associate Professor of Clinical Radiology at the Children's Hospital of Philadelphia, specializes in pediatric imaging and the evaluation of child abuse. This lecture provides a comprehensive review of non-accidental trauma, focusing on musculoskeletal injuries, intracranial hemorrhages, and abdominal trauma. Key topics include the identification of fracture patterns concerning for abuse, distinguishing NAT from metabolic and accidental injuries, and best practices for imaging evaluation, including skeletal surveys, CT, MRI, and nuclear medicine techniques. The discussion emphasizes the role of radiology in the multidisciplinary approach to child protection.

Lecture 4:
Anil K. Attili, MD presents
Imaging of the Thoracic Aorta

Co-director of Cardiac MRI at the University of Michigan, Anil K. Attili, MD, offers a comprehensive presentation on CT and MRI imaging of thoracic aortic disease including the appearances of acute and non-acute pathologies as well as current guidelines and appropriate use criteria for these imaging modalities. Topics covered include aortic anatomy and measurements, acute aortic syndromes including aortic dissection and intramural hematoma, non-acute thoracic aortic disease including aneurysms, vasculitis, and congenital disorders, and more.

DAY 2

Lecture 1:   Robert M. Marks, MD, FSAR presents
Pancreas MRI

After reviewing the anatomy of the pancreas, Robert M. Marks, MD, FSAR, chief of Body Imaging at UC San Diego School of Medicine, explores imaging findings for pancreatitis as well as cystic and solid lesions. Topics covered include causes and manifestations of acute and chronic pancreatitis, the Revised Atlanta Classification, mucinous cystic neoplasm, serous cystadenoma, Von Hipple Lindau, and solid pancreatic lesions including adenosarcoma, solid pseudopapillary neoplasm, endocrine neoplasms, metastatic disease, and pancreatic lymphoma.

Lecture 2:   Lawrence Tanenbaum, MD, FACR presents
AI and Quantitative Neuroimaging

Lawrence N. Tanenbaum, MD, FACR, former Chief Technology Officer and Director of Advanced Imaging at Radnet Inc, and nationally recognized speaker explores the role of artificial intelligence in neuroimaging, focusing on its impact on diagnosing and monitoring neurological conditions such as multiple sclerosis, traumatic brain injury, and dementia. Topics include AI-driven lesion detection, segmentation techniques, volumetric analysis, and clinical decision support, highlighting how these tools enhance diagnostic accuracy and streamline radiology workflows.

Lecture 3:   Summer Kaplan, MD presents
Pediatric GU Emergencies

Summer L. Kaplan, MD, is an Associate Professor of Clinical Radiology at the Children's Hospital of Philadelphia, specializing in pediatric imaging. This lecture reviews the imaging approach to pediatric genitourinary emergencies, focusing on urinary tract infections, obstructive uropathies, ovarian and testicular torsion, and other acute non-traumatic conditions. Key topics include selecting the most appropriate imaging modality, recognizing critical imaging findings, and differentiating between urgent and non-urgent conditions. The discussion emphasizes best practices in pediatric imaging to ensure accurate diagnoses and effective patient management.

Lecture 4:   Anil K. Attili, MD presents
Lung Cancer Screening Review

University of Michigan Professor of Radiology, Anil K. Atilli, MD, offers a comprehensive survey of lung cancer screening including a review of the rationale for and limitations of Low Dose CT (LDCT) as indicated by the National Lung Screening Trial, the NELSON Trial, I-ELCAP, and VA data. Dr. Atilli also reviews the screening recommendations of a variety of societies and agencies, LDCT technique, lung cancer screening reporting, potential harms and uncertainties associated with screening, and actual LDCT evaluation case.

DAY 3

Lecture 1: Robert M. Marks, MD, FSAR presents
Imaging of Inflammatory Bowel Disease

Robert M. Marks, MD, FSAR, clinical professor at UC San Diego Medical School Department of Radiology, reviews the pathology and imaging findings of Inflammatory Bowel Disease (IBD), focusing on Crohn's Disease and Ulcerative Colitis. Topics include CT and MR Enterography, key imaging features of IBD subtypes and complications, and the use of a standardized imaging lexicon to enhance diagnostic accuracy.

Lecture 2: Lawrence Tanenbaum, MD, FACR presents

AI and the Imaging Enterprise

Lawrence N. Tanenbaum, MD, FACR, board certified radiologist and nationally recognized speaker explores the role of AI in transforming radiology workflow and enterprise imaging. Topics include AI-powered automation in reporting, quality assurance, and clinical decision support, as well as applications in image segmentation, natural language processing, and follow-up recommendations. The lecture highlights AI's potential to enhance efficiency, reduce variability, and improve patient outcomes across the imaging enterprise.

Lecture 3: Summer Kaplan, MD presents
Neonatal Emergencies

Summer L. Kaplan, MD, is an Associate Professor of Clinical Radiology at the Children's Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania, specializing in pediatric imaging. This lecture provides a structured approach to imaging evaluation of neonatal emergencies, covering key conditions such as intracranial hemorrhage, ischemic injury, respiratory distress, cyanosis, and gastrointestinal obstruction. Topics include the grading of neonatal brain hemorrhage, differentiating ischemia from infarction, recognizing imaging patterns in congenital heart disease, and assessing neonatal bowel obstruction with radiographs and ultrasound. Emphasis is placed on selecting optimal imaging modalities and identifying findings that require immediate clinical intervention.

Lecture 4: Anil K. Attili, MD presents
HRCT Evaluation of Interstitial Lung Disease

Co-director of Cardiac MRI at University of Michigan, Anil K. Atili, MD, describes the technique for High Resolution CT and its role in evaluation of Interstitial Lung Disease, including a review of key definitions and imaging manifestations of most commonly encountered ILD. He also reviews emerging topics in ILD with patient management implications, specifically discussing interstitial lung abnormalities (ILA) and progressive pulmonary fibrosis (PPF).

DAY 4

Lecture 1:   Robert M. Marks, MD, FSAR presents
Benign Liver Lesions

After reviewing pertinent liver anatomy, UC San Deigo School of Medicine Body Imaging Division chief, Robert M. Marks, MD, FSAR, reviews the techniques and contrast agents used in liver imaging and how to utilize these images to diagnose benign liver lesions. Areas covered include deposition disease, cystic lesions, including benign cyst, polycystic and fibropolycystic liver disease, biliary hamartomas, Caroli's disease, and biliary abscess, as well as hemangioma, focal nodular hyperplasia, hepatic adenoma, and angiomyolipoma.

Lecture 2:   Robert M. Marks, MD, FSAR presents
Diffuse Liver Disease and Malignant Liver Lesions

UC San Diego School of Medicine Department of Radiology clinical professor and Body Imaging Division head, Robert M. Marks, MD, FSAR, offers a comprehensive overview of diffuse liver disease, malignant liver lesions, and their imaging findings. Areas reviewed include hepatic steatosis, Iron deposition, Budd-Chiari, inflammatory liver disease, cirrhosis, fibrolamellar carcinoma, intrahepatic cholangiocarcinoma, metastatic disease, angiosarcoma, and malignant cystic lesions.

Lecture 3:   Paul M. Bunch, MD presents
Temporal Bone CT: Anatomy and Pathology

Paul M. Bunch, MD, reviews the key anatomical structures of the temporal bone on CT and discusses their relevance in diagnosing various pathologies. The lecture covers cholesteatoma, otospongiosis, labyrinthitis ossificans, superior semicircular canal dehiscence, and other conditions affecting the temporal bone. Special emphasis is placed on recognizing critical imaging findings, understanding anatomical variations, and applying best practices for accurate diagnosis.

Lecture 4:   Anil K. Attili, MD presents
Cardiac MRI and Cardiac CTC Basics

Co-director of Cardiac MRI at the University of Michigan, Anil K. Atilli, MD, presents a broad exploration of CMR and CTC evaluation of heart disease. He defines the modalities' advantages and limitations, discusses when other options may be preferable, identifies cardiovascular disease aspects requiring imaging, reviews current appropriate use criteria, and uses actual case evaluations.

DAY 5

Lecture 1:   Robert M. Marks, MD, FSAR presents
Prostate MRI

Robert M. Marks, MD, FSAR, clinical professor at UC San Diego School of Medicine's Department of Radiology, offers a comprehensive discussion of the reasons for prostate cancer screening and surveillance, prostate anatomy, the basics of PI-RADS v2.1, and the features of prostate cancer on MRI. Topics reviewed include benign prostatic hypertrophy, the indications for and diagnosis of prostate cancer, the role of and technique for MRI in diagnosing and staging prostate cancer, the PI-RADS v2.1 scoring scale, and transition zone in image interpretation. Dr. Marks concludes his talk with a helpful review of clinical cases.

Lecture 2:   Robert M. Marks, MD, FSAR presents
Female Infertility and GYN Cancer Imaging

Robert M. Marks, MD, FSAR, clinical professor at UC San Diego Medical School Department of Radiology, explores the causes and imaging findings for female infertility as well as important imaging findings of gynecologic malignancies. Areas covered include ultrasound, HSG, and MRI imaging, a range of anatomical abnormalities, and a discussion of gynecological malignancies including endometrial and cervical cancers and their staging, as well as ovarian tumors and O-RADS risk stratification.

Lecture 3:   Paul M. Bunch, MD presents
               Incidental Findings in the Head and Neck
               Paul M. Bunch, MD, reviews common incidental findings on head and neck imaging, focusing on distinguishing benign variants from clinically significant abnormalities. The lecture covers sinonasal opacification, middle ear and mastoid effusions, thyroid and parathyroid nodules, and cervical lymph nodes. Key topics include recognizing normal anatomical variations, identifying solid sinonasal masses that warrant further evaluation, and applying imaging guidelines for thyroid and parathyroid lesions. Practical tips for refining image interpretation and determining the need for additional work-up are emphasized.

Lecture 4:   Paul M. Bunch, MD presents
               Primary Hyper-parathyroidism and Parathyroid CT
               Paul M. Bunch, MD, explores the role of imaging in localizing abnormal parathyroid glands for surgical planning in primary hyperparathyroidism. The lecture covers parathyroid anatomy and embryology, imaging modalities including ultrasound, sestamibi, and parathyroid CT, and best practices for interpretation. Key topics include differentiating parathyroid lesions from mimics, recognizing imaging pitfalls, and providing surgeons with critical localization information. The session emphasizes the importance of preoperative imaging in facilitating successful minimally invasive surgery and improving patient care.

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

Course Objectives   Program Description   Program Faculty   Accreditation   Destinations   Tuition

PARTICIPANT DETAILS

Participant: _____   Destination: _____

Start Date: _____   End Date: _____   Cost: _____