

RSNA Refresher Courses (continued)

Monday, December 1

8:30 AM – 10:00 AM

RC201

New Thoracic Imaging Technologies: 64-Slice Multidetector CT, Postprocessing, CAD, Lung Nodule Volumetry, and MR Applications

Theresa C. McCloud, MD, Moderator
Geoffrey D. Rubin, MD
James F. Gruden, MD
Ioannis Vlahos, MBBS
Charles S. White, MD

RC202

Living Healthy During Residency (An Interactive Session)

- A. Living a Healthy Life
Robert Kushner, MD, MS
- B. Promoting Good Health During Residency Training
Jannette Collins, MD, MEd
Louis J. Hinshaw, MD

RC203

Categorical Course in Diagnostic Radiology: Cardiac—Coronary Artery Imaging

Jill E. Jacobs, MD, Co-Director
U. Joseph Schoepf, MD, Co-Director

- A. CT Angiography
Jill E. Jacobs, MD
- B. MR Angiography
J. Paul Finn, MD

RC204

3-T Musculoskeletal Imaging

William E. Palmer, MD, Moderator

- A. Practical Issues in 3-T Musculoskeletal Imaging
William E. Palmer, MD
- B. MR Protocols: Moving from 1.5 T to 3.0 T
Mark E. Schweitzer, MD
- C. Small Joint Imaging at 3.0 T
Kimberly K. Amrami, MD
- D. Large Joint Imaging at 3.0 T
Thomas M. Link, MD

RC205

Brain Vascular Malformations and Hemorrhage

Alice B. Smith, MD
James G. Smirniotopoulos, MD

RC206

Head and Neck Cancer: Advanced Topics

- A. Imaging of Perineural Spread in Head and Neck Cancer
Lawrence E. Ginsberg, MD
- B. State-of-the-Art Imaging of Cervical Nodal Metastases
Peter M. Som, MD
- C. Evaluation of the Surgically Treated Neck
Daniel W. Williams III, MD

RC208

Easily Missed Findings in Emergency Radiology: Brain and Spine (An Interactive Session)

- A. Brain
Diego B. Nunez, Jr, MD, MPH
- B. Cervical Spine
O. Clark West, MD
- C. Thoracic and Lumbar Spine
Mark P. Bernstein, MD

RC210

Hot Topics in US: Fusion US and Volume Imaging

Stephanie R. Wilson, MD, Moderator

- A. Fusion US
Riccardo A. Lencioni, MD
- B. An Introduction to Volume Imaging
Thomas R. Nelson, PhD
- C. The OB Perspective on Volume Imaging
Beryl R. Benacerraf, MD
- D. The Abdominal Perspective on Volume Imaging
Stephanie R. Wilson, MD

RC211

Update Course in Diagnostic Radiology: Clinical PET and PET/CT Imaging—

CNS PET

Richard L. Wahl, MD, Director

- A. Normal Anatomy, Dementia, and Tumors
Ronald L. Van Heertum, MD
- B. Movement Disorders, Cerebrovascular Disease, and Epilepsy
Masanori Ichise, MD

RC212

CT Angiography and MR Angiography in Planning and Vascular Interventions and Surgery: Advantages and Limitations

- A. Endovascular Treatment of Occlusive Diseases
TBD
- B. Endovascular Treatment of Aneurysmal Diseases
Michael D. Dake, MD
- C. Common Surgical Procedures
Robert A. Lookstein, MD

RC214

Aneurysms: Update in Treatment Strategies

Albert A. Nemcek, Jr, MD
Alan H. Matsumoto, MD
Johannes Lammer, MD

RC215

How to Set Up a High-Quality Breast MR Imaging Program

- A. Technical Requirements
R. Edward Hendrick, PhD
- B. Breast MR Imaging Interpretation, including BIRADS
Debra M. Ikeda, MD
- C. Sustaining a Successful Breast MR Imaging Program
Constance D. Lehman, MD, PhD

RC216 **When the Physician Is the Problem (An Interactive Session)** (Sponsored by the RSNA Professionalism Committee)*Leonard Berlin, MD, Moderator*

- A. The Physician with Behavioral Problems
Carol M. Rumack, MD
Alan C. Hartford, MD, PhD
- B. The Physician with a Substance Abuse Problem
John P. Livoni, MD
Leonard Berlin, MD
- C. The Physician with a Mental or Physical Illness
Stephen D. Brown, MD
Marilyn J. Goske, MD
- D. The Aging Physician
Richard B. Gunderman, MD, PhD
Donald M. Bachman, MD

RC217**Breast Imaging in the Era of Molecular Medicine**

- A. Molecular Pathways that Define Breast Cancer Subtypes
J. Dirk Iglehart, MD
- B. MR Spectroscopy of the Breast: A Role in Clinical Diagnosis and Development of New Imaging Technologies
Carolyn Mountford, DPhil
- C. Overview of Molecular Imaging and Breast Imaging Applications
Robyn L. Birdwell, MD

RC218**Embolotherapy in Oncologic Patients**

- A. Arterial Embolization: Bland versus Chemoembolization
Karen T. Brown, MD
- B. Arterial Embolization with Radioactive Spheres
Riad Salem, MD, MBA
- C. Portal Vein Embolization
Anne M. Covey, MD

RC220**Adaptive Planning**

- A. Image-guided and Adaptive Radiation Therapy
Patrick Kupelian, MD
- B. Motion Management and Adaptive Strategies
Dale W. Litzenberg, PhD

RC221**Update Course in Diagnostic Radiology Physics: Imaging Technologies in Oncology—Imaging Brain Tumors***John D. Hazle, PhD, Co-Director*
J. Daniel Bourland, PhD, Co-Director

- A. Dynamic Contrast-enhanced MR Imaging
Edward F. Jackson, PhD
- B. PET Imaging for Brain Tumors
Anca L. Grosu, MD
- C. Imaging for Radiation Treatment of Brain Tumors
J. Daniel Bourland, PhD

RC222 **Minicourse: Radiation Oncology Physics—Transition to Heterogeneity Corrections***Nikos Papanikolaou, PhD*
*Craig W. Stevens, MD, PhD***RC223****Minicourse: From Image to Decision—Science and Technology for Effective Interpretation of Medical Images: Perception and the Clinic***Ehsan Samei, PhD, Co-Director*
Elizabeth A. Krupinski, PhD, Co-Director

- A. Effect of Ergonomic Factors on Medical Image Perception
Eliot L. Siegel, MD
- B. Perceptual Issues in Reading Digital Mammograms
Margarita L. Zuley, MD
- C. Ergonomic Factors for the Radiologist's Workspace
Carl J. Zylak, MD

RC224**Forensic Imaging***Angela D. Levy, MD*
Howard T. Harcke, MD
*Barry D. Daly, MD***RC225** **Update Course: Diagnostic Radiology Physics—From Invisible to Visible: The Science and Practice of X-ray Imaging and Radiation Dose Optimization***Donald P. Frush, MD, Co-Director*
Kent M. Ogden, PhD, Co-Director

- A. Radiographic Image Formation and Characteristics
Perry Sprawls, Jr, PhD
- B. Measures of Image Quality
Michael J. Flynn, PhD

RC226 **Quality Control in PACS (Basic Imaging Informatics)**

- A. Image Quality Process
Kevin W. McEney, MD
- B. Data Integrity
John A. Carrino, MD, MPH
- C. Putting Display QC into Practice
Ehsan Samei, PhD

RC227**Strategic Planning and Marketing for Radiology Practices: Dos and Don'ts***Jonathan W. Berlin, MD*
Frank J. Lexa, MD
Giles W. Boland, MD
*Howard P. Forman, MD***RC228****Minicourse: Clinical Trials in Imaging—Research Design**

- A. Protocol Considerations
Anthony Shields, MD, PhD
- B. Statistical Considerations
Jeffrey D. Blume, PhD
- C. Measuring Treatment Response
Laurence P. Clarke, PhD

RC229**Minicourse: Optimize Your Body MR Practice—From Safety to Protocol Design: Contrast Media**

- A. Gadolinium Chelates and NSF
Jeffrey C. Weinreb, MD
- B. Hepatobiliary Contrast Agents
Stefan O. Schoenberg, MD, PhD
- C. Ultra-small Superparamagnetic Iron Oxide Particles and Lymph Nodes: Have We Arrived?
Andrea G. Rockall, MBBS

RSNA Refresher Courses (continued)

RC230

How Standard Terminology Will Improve Your Practice: Reporting, Finding Information, and Quality (Advanced Imaging Informatics)

- A. Terminology-enabled Voice Recognition and Structured Reporting
Curtis P. Langlotz, MD, PhD
- B. Utility of Terminologies for Image Annotation and Information Retrieval
Daniel L. Rubin, MD
- C. Using Terminology to Mine Reports for Quality Assessment
Keith J. Dreyer, DO, PhD

RC232

Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—Assessment of Image Quality

Willi A. Kalender, PhD, Co-Director
Edward F. Jackson, PhD, Co-Director

- A. Image Quality Metrics
John M. Boone, PhD
- B. Artifacts and Their Correction
Jiang Hsieh, PhD
- C. Image Quality in Flat-Panel-Detector CT
Jeffrey H. Siewerdsen, PhD

RC250

Intraarterial Acute Ischemic Stroke Therapy (How-to Workshop)

Michael N. Brant-Zawadzki, MD
John D. Barr, MD

RC251

Imaging and Intervention during the “Golden Hour” of Polytrauma (How-to Workshop)

Frederick A. Mann, MD
Joel A. Gross, MD, MS
Thomas R. Burdick, MD

RC252

Ultrasound-guided Interventional Breast Procedures (Hands-on Workshop)

Elizabeth R. DePeri, MD
Francesca D. Beaman, MD
Gary J. Whitman, MD
Elsie Levin, MD
Michael P. McNamara, Jr, MD
Alice S. Rim, MD
Stamatia V. Destounis, MD
Dianne Georgian-Smith, MD
Michelle D. McDonough, MD
Annamaria Wilhelm, MD
Christopher E. Comstock, MD
Richard M. Chesbrough, MD
Paula B. Gordon, MD

Michael N. Linver, MD
Alda F. Cossi, MD
Christine A. Bliven, MD
Albert V. Porambo, MD
John T. Blackwelder, MD
Eren D. Yeh, MD
Christine A. Quinn, MD
Lia Bartella, MD
Hillary W. Garner, MD

RC253

3D Visualization Applications for Gastrointestinal and Genitourinary Imaging (Hands-on Workshop)

Matthew A. Barish, MD

RC254

Freeware, Shareware, and Open-Source Imaging Tools for Radiology (Hands-on Workshop)

Daniel P. Barboriak, MD

Tuesday, December 2

8:30 AM – 10:00 AM

RC301

Lung Nodules: Characterization, CAD, Management Guidelines, and Biopsy/RFA

Jeffrey S. Klein, MD
Heber M. MacMahon, MD
Jo-Anne O. Shepard, MD

RC302

Current Activities of the Radiology Residency Review Committee (In Conjunction with the Residency Review Committee)

E. Stephen Amis, Jr, MD
Missy Fleming, PhD

RC303

Categorical Course in Diagnostic Radiology: Cardiac—Evaluation of Ischemia with CT, MR, and Nuclear Imaging

Jill E. Jacobs, MD, Co-Director
U. Joseph Schoepf, MD, Co-Director

- A. Nuclear Imaging
Dominique Delbeke, MD, PhD
- B. MR Imaging
David A. Bluemke, MD, PhD
- C. CT Imaging
Joao A. Lima, MD

