

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



RC304

Bone, Cartilage, and Ligament Injury with Emphasis on the Knee

Donald L. Resnick, MD
Christine B. Chung, MD

RC306

Imaging of the Neck

- A. Upper Neck and Parapharyngeal Spaces
Wendy R. Smoker, MD
- B. Lower Neck and Thoracic Inlet
Deborah L. Reede, MD

RC307

Adnexal Imaging: Case-based Approach (An Interactive Session)

Sheila Sheth, MD
Aliya Qayyum, MD
Leslie M. Scoutt, MD

RC310

Doppler Sonography

John S. Pellerito, MD, Moderator

- A. Carotid Doppler
John S. Pellerito, MD
- B. Liver Doppler Examination
Jonathan B. Kruskal, MD, PhD
- C. DVT: The Role of US
Michelle L. Robbin, MD

RC311

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

Richard L. Wahl, MD, Director

- A. Lung and Esophageal Cancers
Hans C. Steinert, MD
- B. Radiation Treatment Planning
Homer A. Macapinlac, MD
- C. Breast Cancer
David A. Mankoff, MD, PhD

RC312

Peripheral Arterial Occlusive Disease: Perspectives on Diagnosis and Treatment

- A. Spectrum of Disease and Treatment Options
John H. Rundback, MD
- B. Imaging Advantages and Trade-offs: CT and MR Imaging
Carlo Catalano, MD
- C. Management Decisions from Imaging: What Is Important?
Stephen T. Kee, MD

RC314

Musculoskeletal Interventional Procedures

William E. Palmer, MD
Louis A. Gilula, MD

RC316

Physicians' Relationships with Industry (An Interactive Session) (Sponsored by the RSNA Professionalism Committee)

Leonard Berlin, MD
Eric G. Campbell, PhD
Andrew Whitman, JD
Rachel F. Brem, MD

RC317

GU Imaging in the Era of Molecular Medicine

- A. PET Imaging of Prostate
Heiko Schoder, MD
- B. Monitoring Response of Renal Cell Carcinoma to Angiogenic Inhibitors with DCE-MR Imaging
Mark A. Rosen, MD, PhD
- C. Molecular Imaging of Ovarian Cancer
Peter L. Choyke, MD

RC318

New Concepts and Challenges in Assessing Response to Cancer Therapy (An Interactive Session)

- A. Principles of Response Assessment
C. Carl Jaffe, MD
- B. Pitfalls in Radiologic Assessment of Therapy Response
Lawrence H. Schwartz, MD

RC321

Update Course in Diagnostic Radiology Physics: Imaging Technologies in Oncology—Imaging Lung Cancer

John D. Hazle, PhD, Co-Director
J. Daniel Bourland, PhD, Co-Director

- A. PET and PET/CT for Lung Cancer Imaging
Paul E. Kinahan, PhD
- B. Four-dimensional CT and PET/CT in XRT
Lei Xing
- C. Functional Lung Imaging
Thomas M. Guerrero, MD, PhD

RC322

Minicourse: Radiation Oncology Physics—Intensity-modulated Radiation Therapy: Patient Safety and Error Reduction

Marcus E. Randall, MD
Geoffrey S. Ibbott, PhD
Peter Dunscombe, PhD

RC323

Minicourse: From Image to Decision—Science and Technology for Effective Interpretation of Medical Images: The Radiologist and Computer-aided Detection (CAD)

Ehsan Samei, PhD, Co-Director
Elizabeth A. Krupinski, PhD, Co-Director

- A. Perceptual Effect of CAD in Reading Chest Images
Matthew T. Freedman, MD, MBA
- B. Perceptual Effect of CAD in Reading Mammograms
Michael J. Ulissey, MD
- C. A Radiologist's Perspective on Using CAD for Reading CT and MR Images
Ronald M. Summers, MD, PhD

RC324

Practical Approach to Optimizing Radiation Dose for Body CT

- A. Technical Developments and Abdominal Protocols
Sanjay Saini, MD
- B. Cardiac and Thoracic Protocols
Mannudeep K. Kalra, MD
- C. Pediatric Protocols
Donald P. Frush, MD

RSNA Refresher Courses (continued)

RC325

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. Special Procedures

(Angiography): Dose

Louis K. Wagner, PhD

B. Special Procedures (Angiography):

Image Quality

Adam Workman, MD

C. Special Procedures (Angiography):

Clinical Practice

Robert G. Dixon, MD

RC326

Practical and Operational Issues in PACS/RIS (Basic Imaging Informatics)

(In Conjunction with the Society for Imaging Informatics in Medicine)

A. Problem Detection and Reporting in PACS/RIS

Paul G. Nagy, PhD

B. Problem Response and Resolution

Richard H. Wiggins III, MD

C. Teleradiology and Wide-Area PACS

David W. Piraino, MD

RC327

Imaging Center Ventures: What Is the State of the Regulatory Landscape?

Thomas W. Greeson, JD

Richard Townley

Donald H. Romano

RC328

Minicourse: Clinical Trials in Imaging—Motivation

A. Stakeholders in the Process

Daniel C. Sullivan, MD

B. Image Response Assessment Teams

Richard L. Wahl, MD

C. The ACRIN Trial Process

Mitchell D. Schnall, MD, PhD

RC329

Minicourse: Optimize Your Body MR Practice—From Safety to Protocol Design: Body MR Imaging—State of the Art Clinical Protocols

A. Diffusion Imaging of the Liver: How I Do It and What It Tells Me

Bachir Taouli, MD

B. Diffusion Imaging of the Pelvis: How I Do It and What It Tells Me

Anwar R. Padhani, MD

C. Breast MR Imaging: Cutting Edge

Christiane K. Kuhl, MD

RC330

Image Processing and 3D Imaging (Advanced Imaging Informatics)

A. Organ and Tumor Segmentation

Ivo Wolf, PhD

B. 3D for Diagnosis

Elliot K. Fishman, MD

C. Enterprise 3D Tools to Enhance Your Practice

Gary J. Wendt, MD

RC332

Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—Dose Considerations

Willi A. Kalender, PhD, Co-Director

Edward F. Jackson, PhD, Co-Director

A. Technical Dose Measures: CT Dose Index and Beyond

Yiannis Kyriakou, PhD

B. Dose Assessments in Clinical Practice: What's Typical?/What's Too Much?

Cynthia H. McCollough, PhD

C. Optimization Efforts to Reduce Dose Further

Willi A. Kalender, PhD

RC350

Chest Interventions (How-to Workshop)

Suzanne Palmer, MD

Alison Wilcox, MD

Jeffrey S. Pollak, MD

RC351

Advanced Vascular Cross-sectional Imaging (How-to Workshop)

Klaus D. Hagspiel, MD

Patrick T. Norton, MD

RC352

Small Parts Interventional Ultrasound (Hands-on Workshop)

William E. Shiels II, DO

Peter L. Cooperberg, MD

Stephen D. Brown, MD

Veronica J. Rooks, MD

John M. Racadio, MD

Michael E. Click, MD

Neil T. Specht, MD

Carlo Martinoli, MD

Mauro Oddone, MD

John D. Lane, MD

Benjamin E. Tubb, MD, PhD

James W. Murakami, MD

Dianne Georgian-Smith, MD

James S. Donaldson, MD

RC353

3D Visualization Applications for Vascular Imaging (Hands-on Workshop)

Khan M. Siddiqui, MD

RC354

Data Collection, Organization, and Analysis with Excel and FileMaker (Hands-on Workshop)

Krishna Juluru, MD

John Eng, MD

Tuesday, December 2

4:30 PM – 6:00 PM

RC401

Airway Imaging: Trachea, Bronchi, and Small Airways

Philippe A. Grenier, MD

David P. Naidich, MD

David A. Lynch, MB

RC402

Resident Training: Hot Topics

A. Education in Cardiac Imaging:

Challenges and Opportunities

Ella A. Kazerooni, MD

B. Pediatric Radiologist Shortage: How Do We Train Residents?

Marilyn J. Goske, MD

C. Restructuring the Residency Program

N. Reed Dunnick, MD

RC403

Categorical Course in Diagnostic Radiology: Cardiac—Evaluation of Acute Chest Pain

Jill E. Jacobs, MD, Co-Director
U. Joseph Schoepf, MD, Co-Director
Monvadi B. Srichai, MD
Charles S. White, MD
Robert C. Gilkeson, MD

RC404

Baby Boomer Bruises (An Interactive Session)

Cheryl A. Petersilge, MD
Carol L. Andrews, MD
Joseph S. Yu, MD

RC405

Neuroradiology: Seniors versus Juniors (An Interactive Session)

R. Nick Bryan, MD, PhD, Moderator
Vincent P. Mathews, MD, Moderator
Mauricio Castillo, MD
Lawrence E. Ginsberg, MD
Robert M. Quencer, MD
Christine M. Glastonbury, MBBS
Dima A. Hammoud, MD
Matthew T. Walker, MD

RC406

Sinonasal Imaging: A Practical Approach to Infection, Neoplasms, and Acquired/Developmental Disorders

- A. Sinonasal Infections and Chronic Inflammatory Disease
Vijay M. Rao, MD
- B. Imaging and Staging of Sinonasal Neoplasms
Michelle A. Michel, MD
- C. Acquired and Developmental Sinonasal Facial Disorders including Meningoceles
C. Douglas Phillips, MD

RC407

Contrast Material and the Kidneys: Issues and Controversies Concerning Contrast-induced Nephropathy and Nephrogenic Systemic Fibrosis

Michael A. Bettmann, MD
Jeffrey H. Newhouse, MD
Sameh K. Morcos, MD
Henrik S. Thomsen, MD
James H. Ellis, MD

RC408

Common Problems in Pediatric Emergency Imaging

- A. Pediatric Trauma: Accidental or Inflicted?
Susan D. John, MD
- B. Acute Pulmonary Infections in Children: Imaging and Pathophysiology
Leonard E. Swischuk, MD

RC409

Imaging of Focal Liver Lesions

- A. Focal Lesions: Techniques for CT and MR Imaging
Rendon C. Nelson, MD
- B. Focal Lesions: Noncirrhotic Liver
Erik K. Paulson, MD
- C. Focal Lesions: Cirrhotic Liver
Michael P. Federle, MD

RC410

Contrast Agents in Ultrasound

- Stephanie R. Wilson, MD, Moderator
- A. Microbubble Contrast Agents: What Are They and How Do They Work?
Peter N. Burns, PhD
 - B. CEUS of Benign Liver Tumors
Tae Kyoung Kim, MD
 - C. CEUS of Malignant Liver Tumors
Hyun-Jung Jang, MD
 - D. CEUS for RFA: Guidance and Monitoring of Therapy
Luigi Solbiati, MD

RC411

Update Course in Diagnostic Radiology: Clinical PET and PET/CT Imaging—Abdominopelvic PET/CT and the Medicare PET Registry

Richard L. Wahl, MD, Director

- A. Colon and Abdominal Cancers
David M. Schuster, MD
- B. Pelvic Cancers
Ora Israel, MD
- C. The National Oncologic PET Registry
Barry A. Siegel, MD

RC412

Challenging CT Angiography and MR Angiography Cases: Interactive Interpretation with the Experts (An Interactive Session)

Geoffrey D. Rubin, MD, Moderator
Elliot K. Fishman, MD
Neil M. Rofsky, MD
Iain D. Kirkpatrick, MD
Michael L. Martin, MD

RC414

Updates in Dialysis Access

Scott O. Trerotola, MD
Brian S. Funaki, MD
Karim Valji, MD

RC415

Mammography Interpretation

- A. Analysis of Masses
W. Phil Evans III, MD
- B. Analysis of Calcifications
Gilda Cardenosa, MD
- C. CAD for Mammography: What Is the True Value?
Lora D. Barke, DO

RC416

Who Will Read My Molecular CT? The Impact of Migration of Physicians, Images, and Innovation (Sponsored by the RSNA Committee on International Relations and Education)

George A. Taylor, MD
Giles W. Boland, MD
Paul E. Berger, MD
Diana P. Rodriguez, MD
Christian J. Herold, MD

RC417

Gastrointestinal Imaging in the Era of Molecular Medicine

- A. What Does a Gastroenterologist Want to Know?
Daniel Chung, MD
- B. Current State-of-the-Art Gastrointestinal Molecular Imaging
Mukesh G. Harisinghani, MD
- C. Gastrointestinal Molecular Imaging of the Future
Umar Mahmood, MD, PhD

RSNA Refresher Courses (continued)

RC418

Imaging of Complications of Cancer and Its Therapy II: Abdominal and Pelvic

- A. Bowel Complications
Marc J. Gollub, MD
- B. Hepatic Complications
Mitchell E. Tublin, MD
- C. Other Abdominopelvic Complications
Revathy B. Iyer, MD

RC421

Update Course in Diagnostic Radiology Physics: Imaging Technologies in Oncology—Imaging Breast Cancer

John D. Hazle, PhD, Co-Director
J. Daniel Bourland, PhD, Co-Director

- A. Instrumental Accuracy and Challenges for PET in Radiation Treatment Planning
Assen S. Kirov, PhD
- B. Breast MR Imaging
Huong T. Le-Petross, MD
- C. Dedicated Breast PET/CT
Ramsey Badawi, PhD

RC422

Minicourse: Image Optimization for Treatment Planning—CT, MR, PET

Debra Brinkmann, PhD, Director

- A. CT Review
Dianna Cody, PhD
- B. MR Review
Edward F. Jackson, PhD
- C. PET Review
Sasa Mutic, MS

RC423

Minicourse: From Image to Decision—Science and Technology for Effective Interpretation of Medical Images: Radiologist Seeing and Thinking

Ehsan Samei, PhD, Co-Director
Elizabeth A. Krupinski, PhD, Co-Director

- A. Perceptual and Cognitive Factors in Reading Medical Images
Elizabeth A. Krupinski, PhD
- B. Image Quality: Clinical Relevance of Physical Performance
Ehsan Samei, PhD
- C. Perception and the Human Visual System
Michael J. Flynn, PhD

RC424

Yoga for the Stressed Radiologist

Dania F. Tamimi, BDS, DMSc

RC425

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. Fluoroscopy (Gastrointestinal): Dose
Edward L. Nickoloff, DSc
- B. Fluoroscopy (Gastrointestinal): Image Quality
Phillip L. Rauch, MS
- C. Fluoroscopy (Gastrointestinal): Clinical
Marta Hernanz-Schulman, MD

RC426

Workstation Design (Basic Imaging Informatics)

(In Conjunction with the Society for Imaging Informatics in Medicine)

- A. Software Designs for Better Human-Computer Interface
Steven C. Horii, MD
- B. Hardware Options for Better Human-Computer Interface
Khan M. Siddiqui, MD
- C. Reading Room and Ergonomics
Eliot L. Siegel, MD

RC427

Radiology Reimbursement 2008–2009: How We Influence Our Economic Future

(In Conjunction with the American College of Radiology)

John A. Patti, MD
Richard Duszak, Jr, MD
Bibb Allen, Jr, MD
Christopher G. Ullrich, MD
James V. Rawson, MD
Geraldine B. McGinty, MD

RC428

Minicourse: Clinical Trials in Imaging—Execution

- A. The National Lung Cancer Screening Trial
Denise R. Aberle, MD
- B. Other Examples of Cancer Trials
Lawrence H. Schwartz, MD

RC429

Minicourse: Optimize Your Body MR Practice—From Safety to Protocol Design: Body MR Imaging—Clinical Problem Solving

- A. Liver Cirrhosis and Lesion Characterization: A Practical Approach
Shahid M. Hussain, MD
- B. Fat and the Liver
Scott B. Reeder, MD, PhD
- C. Prostate Cancer: Meeting Clinical Needs at Diagnosis and Follow-up
Masoom A. Haider, MD

RC430

Building Systems for Business Continuity (Advanced Imaging Informatics)

- A. Building High Availability (HA)
Christopher D. Meenan, MS
- B. Disaster Recovery (DR)
Paul G. Nagy, PhD
- C. HA + DR = BC (Business Continuity)
Steve G. Langer, PhD

RC432

Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—Advanced Applications

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

- A. Cardiac CT
U. Joseph Schoepf, MD
- B. Dual-Energy CT
Thorsten R. Johnson, MD
- C. Interventional CT Using Navigation and Robotics Tools
Kevin R. Cleary, PhD

RC450

Image-guided Biopsy of the Spine (Hands-on Workshop)

- A. Orlando Ortiz, MD, MBA
John L. Go, MD
Michele H. Johnson, MD
Chi-Shing Zee, MD
Gregg H. Zoarski, MD

RC451

Starting a 3D Lab in a Community Radiology Practice (How-to Workshop)

Jay Cinnamon, MD
Gordon J. Harris, PhD

RC452

Dynamic Musculoskeletal Ultrasound of the Lower Extremity (Hands-on Workshop)

Etienne Cardinal, MD
Marnix T. van Holsbeeck, MD
Ximena L. Wortsman, MD
J. A. Bouffard, MD
Nathalie J. Bureau, MD
Ruth Y. Ceulemans, MD
Joseph G. Craig, MD
David P. Fessell, MD
Ghiyath Habra, MD
Joseph H. Introcaso, MD
Jon A. Jacobson, MD
Carlo Martinoli, MD
Matthieu Rutten, MD
Viviane Khoury, MD

RC453

3D Visualization Applications for Neuroimaging (Hands-on Workshop)

Gary J. Wendt, MD

RC454

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

Daniel P. Barboriak, MD

Wednesday, December 3

8:30 AM – 10:00 AM

RC502

Use of the Audience Response System in Radiology Education (An Interactive Session)

- A. Advantages and Limitations of Using an Audience Response System
Jannette Collins, MD, MEd
- B. Comparing Different Audience Response Systems: Application to Radiology Education
Michael L. Richardson, MD

RC503

Categorical Course in Diagnostic Radiology: Cardiac—Emerging CT Technologies

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

- A. 256-Section CT of the Heart
Martin H. Hoffmann, MD

- B. Cardiac Volume CT with 320 Sections
Marc Dewey, MD

- C. Dual-Source CT of the Heart
U. Joseph Schoepf, MD

- D. New Horizons in Radiation Protection
James P. Earls, MD

RC505

Modern Pediatric Neuroimaging

Pratik Mukherjee, MD, PhD
Orit A. Glenn, MD
A. James Barkovich, MD

RC506

Temporal Bone: A Practical Approach to Common Problems

- A. Evaluation of CPA and IAC Masses
H. R. Harnsberger, MD
- B. Work-up of Pulsatile Tinnitus
Patricia A. Hudgins, MD
- C. Cholesteatoma: Diagnosis and Complications
Richard H. Wiggins III, MD

RC507

Challenges in Diagnosis and Management of the Solid Renal Mass

Mukesh G. Harisinghani, MD
David S. Hartman, MD
Mark A. Rosen, MD, PhD
Srinivasa R. Prasad, MD

RC508

Easily Missed Findings in Emergency Radiology: Extremity Injuries (An Interactive Session)

- A. Upper Extremity
Lee F. Rogers, MD
- B. Lower Extremity
Joseph S. Yu, MD

RC509

Imaging of the Gallbladder and Bile Ducts

- A. Techniques for CT and MR Imaging
Ivan Pedrosa, MD
- B. Anomalies, Stones, and Cholangitis (Acute and Chronic)
Benjamin M. Yeh, MD
- C. Malignant Lesions (Including Gallbladder Carcinoma)
Christine O. Menias, MD

