

# RSNA Refresher Courses (continued)

## Thursday, December 4

8:30 AM – 10:00 AM

### RC601

#### **Pulmonary Infections: Tuberculosis, Atypical Mycobacteria, Immune-suppressed Hosts, and Emerging Infections (An Interactive Session)**

*Melissa L. Rosado de Christenson, MD*

*H. Page McAdams, MD*

*Joel E. Fishman, MD, PhD*

*Loren H. Ketaj, MD*

### RC602

#### **Leadership Training in Radiology**

**A. How Are Current Leaders Selected?**

*James H. Thrall, MD*

**B. Current Status of Underrepresented Minority Groups in Radiology**

**Leadership Positions**

*Kathleen D. Egli, MD*

**C. Radiology Leadership Training: A**

**Vision for the Future**

*Lawrence R. Muroff, MD*

### RC603

#### **Categorical Course in Diagnostic Radiology: Cardiac—Read Cases with the Experts (An Interactive Session)**

*Jill E. Jacobs, MD, Co-Director*

*U. Joseph Schoepf, MD, Co-Director*

*Ricardo C. Cury, MD*

*Lynne M. Hurwitz, MD*

*Smita Patel, MBBS*

*Robert M. Steiner, MD*

### RC604

#### **Imaging of Upper Extremity Entrapment Neuropathies**

*Zehava S. Rosenberg, MD*

*Jenny T. Bencardino, MD*

*Carlo Martinoli, MD*

*John A. Carrino, MD, MPH*

### RC605

#### **Brain Tumors: Advanced Imaging Techniques**

**A. Diffusion and Diffusion-Tensor Imaging**

*Aaron S. Field, MD, PhD*

**B. MR Perfusion and Spectroscopy**

*Meng Law, MD*

**C. Functional MR Imaging**

*Andrei I. Holodny, MD*

### RC606

#### **Thyroid Nodules and Cancer: Evaluation and Imaging**

**A. Ultrasound and FNA of Thyroid Masses**

*Jill E. Langer, MD*

**B. CT, MR, and PET in Evaluating Newly Diagnosed and Recurrent Thyroid Cancer**

*Laurie A. Loevner, MD*

### RC607

#### **Imaging the Postoperative Urinary Tract**

*Parvati Ramchandani, MD*

*Gary M. Israel, MD*

*Gary S. Sudakoff, MD*

### RC608

#### **Easily Missed Findings in Emergency Radiology: Chest and Abdomen (An Interactive Session)**

**A. Trauma**

*Kathirkamanathan Shanmuganathan, MD*

**B. Nontraumatic Emergencies**

*Stephen Ledbetter, MD*

### RC609

#### **Imaging of the Small Bowel**

**A. Techniques for CT and MR Imaging**

*Jeff L. Fidler, MD*

**B. Small-Bowel Obstruction and Inflammatory Bowel Disease**

*Tracy A. Jaffe, MD*

**C. Gastrointestinal Bleeding and Small-Bowel Malignancy**

*Michael Macari, MD*

### RC610

#### **Obstetrics Ultrasound I**

*Eric E. Sauerbrei, MD, Moderator*

**A. The 10 – 14-Week Scan: An Update**

*Carol B. Benson, MD*

**B. Fetal Soft Markers**

*Eric E. Sauerbrei, MD*

**C. Fetal Imaging: US and MR Correlation**

*Deborah Levine, MD*

### RC611

#### **Update Course in Diagnostic Radiology: Clinical PET and PET/CT Imaging—Lymphoma, Melanoma, Sarcomas**

*Richard L. Wahl, MD, Director*

**A. Lymphoma**

*Heather Jacene, MD*

**B. Melanoma**

*Kent P. Friedman, MD*

**C. Sarcoma**

*Janet F. Eary, MD*

### RC612

#### **Practical Pediatric Vascular Imaging**

**A. US Imaging**

*Brian D. Coley, MD*

**B. CT Imaging**

*Marilyn J. Siegel, MD*

**C. MR Imaging**

*Frandics P. Chan, MD, PhD*

### RC613

#### **Pediatric Emergency Radiology (An Interactive Session)**

**A. CT in Pediatric Abdominal Emergencies**

*Nancy R. Fefferman, MD*

**B. US in Pediatric Abdominal Emergencies**

*Fred E. Avni, MD, PhD*

**C. Musculoskeletal Imaging of the Pediatric Emergency Department Patient: Not Just Fractures**

*Robert P. Guillerman, MD*

## RC614

### Treatment of Peripheral Vascular Disease

Lindsay S. Machan, MD  
Richard R. Saxon, MD

## RC615

### The Economics of Breast Imaging

- A. Breast Imaging Personnel Shortages: Problems and Solutions  
Valerie P. Jackson, MD
- B. Billing and Coding  
Lawrence W. Bassett, MD
- C. How to Run an Efficient Practice  
Stephen A. Feig, MD

## RC616

### Reviewing Manuscripts for the RSNA Journals (Sponsored by the RSNA Publications Council)

Herbert Y. Kressel, MD  
William W. Olmsted, MD

## RC617

### Oncologic Imaging in the Era of Molecular Medicine

- A. Molecular Imaging Advances in Oncology  
Homer A. Macapinlac, MD
- B. Angiogenesis Imaging  
Peter L. Choyke, MD
- C. Apoptosis Imaging: Oncologic Imaging Applications  
Francis G. Blankenberg, MD

## RC618

### What Diagnostic Radiologists Need to Know about Radiation Oncology

- A. Basic Concepts in Radiation Oncology  
Stephanie A. Terezakis, MD
- B. Radiation Therapy Techniques  
Ruth F. Lavigne, MD
- C. Applications of PET in Radiation Oncology  
Billy W. Loo, Jr, MD, PhD
- D. Radiosurgery in the Head and Body  
Dwight E. Heron, MD



## RC620

### Molecular Targets

Adam P. Dicker, MD, PhD  
Kevin Camphausen, MD

## RC621

### Update Course in Diagnostic Radiology Physics: Imaging Technologies in Oncology—Abdominal Oncologic Imaging

- A. CT and MR in Abdominal Oncologic Imaging  
Erik K. Paulson, MD
- B. Imaging in Hyperthermia  
James R. MacFall, PhD
- C. Imaging Hypoxia and Cell Proliferation in Vivo  
K. S. Clifford Chao, MD

## RC622

### Minicourse: Image Optimization for Radiation Therapy Treatment Planning—Breast, Lung, Upper Abdomen

Debra Brinkmann, PhD, Director

- A. Breast  
Christopher F. Serago, PhD  
Laura A. Vallow, MD
- B. Lung  
Sastry Vedam, PhD
- C. Upper Abdomen (Gastrointestinal)  
Kristy K. Brock, PhD

## RC623

### Minicourse: Innovations and Advances in Medical Imaging Technology—ACR Accreditation of SPECT and PET

G. Donald Frey, PhD, Director

- A. Introduction to ACR Accreditation of SPECT and PET  
G. Donald Frey, PhD
- B. Paperwork and Administrative Issues  
Carolyn R. MacFarlane, BS, CNMT, RT(N)
- C. PET/CT Accreditation  
Peter D. Esser, PhD
- D. ACR SPECT Accreditation: Camera Testing and Submission of Phantom Images  
Michael V. Yester, PhD

# RSNA Refresher Courses (continued)

## RC625

### 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. CT: Dose  
*Dianna Cody, PhD*
- B. CT: Image Quality  
*Michael F. McNitt-Gray, PhD*

## RC626

### Continuing Medical Education in the Clinical Practice (Basic Imaging Informatics)

- A. RadSCOPE or Yottalook™  
*Khan M. Siddiqui, MD*
- B. MIRC™ Teaching Files: Integration in Practice  
*Adam E. Flanders, MD*
- C. Concept-based Image Retrieval: The GoldMiner Image Search Engine  
*Charles E. Kahn, Jr, MD*

## RC627

### Radiology by Nonradiologists: Problems and Solutions to Turf Battles

*James P. Borgstede, MD*  
*David C. Levin, MD*  
*Vijay M. Rao, MD*

## RC630

### PACS in Procedural Areas: Interventions for the Interventional Radiologist (Advanced Imaging Informatics)

- A. What Works and What Doesn't for Procedures  
*David E. Avrin, MD, PhD*
- B. Angiography Specific Needs  
*Neil J. Halin, DO*
- C. PACS in the Operating Room  
*Bradley J. Erickson, MD, PhD*

## RC631

### Small Parts Interventional Ultrasound (Hands-on Workshop)

*William E. Shiels II, DO*  
*Peter L. Cooperberg, MD*  
*Veronica J. Rooks, MD*  
*Michael Court-Payen, MD*  
*Alda F. Cossi, MD*  
*Robert D. Lyon, MD*  
*Nathalie J. Bureau, MD*  
*Caroline L. Hollingsworth, MD*  
*Kevin M. Baskin, MD*  
*Robin D. Kaye, MD*  
*Paula B. Gordon, MD*  
*Etienne Cardinal, MD*  
*Stephen C. O'Connor, MD*  
*Hollins P. Clark, MD*

## RC632

### Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—MR-guided Interventional Therapies

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

- A. Recent Advances in MR-guided Interventional Radiology  
*Jeffrey L. Duerk, PhD*
- B. MR-guided Thermal Therapy: Recent Advancements and Applications  
*R. Jason Stafford, PhD*

- C. Functional MR Imaging: Recent Advances and Applications in MR-guided Neurosurgery  
*Edward F. Jackson, PhD*

## RC650

### Radiofrequency Ablation: Principles, Techniques, Equipment, and Tricks of the Trade (Hands-on Workshop)

*Stephen G. Ho, MD*  
*Steven C. Rose, MD*  
*Stephen B. Solomon, MD*  
*Matthew R. Callstrom, MD, PhD*  
*Kamran Ahrar, MD*  
*John R. Kachura, MD*  
*Debra A. Gervais, MD*  
*Luigi Solbiati, MD*

## RC651

### Multidetector CT and MR Evaluation of Congenital Thoracic Disease in the Adult (Noncardiac) (How-to Workshop)

*Fernando R. Gutierrez, MD*  
*Kristopher W. Cummings, MD*  
*Sanjeev Bhalla, MD*



## RC652

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

Elsie Levin, MD  
Rachel F. Brem, MD  
Carl J. D'Orsi, MD  
W. Phil Evans III, MD  
Bruno D. Fornage, MD  
Liane E. Philpotts, MD  
William R. Poller, MD  
Elizabeth A. Rafferty, MD  
Joseph Spigel, MD  
Mary C. Mahoney, MD  
Stamatia V. Destounis, MD  
Margaret M. Szabunio, MD

## RC653

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

Udo Hoffmann, MD

## RC654

### Adobe FLASH for Creating Image Animations and Multimedia Educational Presentations (Hands- on Workshop)

Kevin P. Daly, MD  
Spencer B. Gay, MD

## Thursday, December 4

4:30 PM – 6:00 PM

## RC701

### Update on Lung Cancer: Screening and Staging (An Interactive Session)

John H. Austin, MD, Moderator  
Caroline Chiles, MD  
David F. Yankelevitz, MD  
Reginald F. Munden, MD, DMD  
Jeremy J. Erasmus, MD

## RC702

### Sustaining a Radiology Residency Program: The Roles of the Chair, Program Director, and Resident

- A. The Chair's Commitment to Education  
Valerie P. Jackson, MD
- B. The Role of the Program Director  
Jocelyn D. Chertoff, MD
- C. What Makes a Good Resident  
Jessica B. Robbins, MD

## RC703

### Categorical Course in Diagnostic Radiology: Cardiac—Imaging of Cardiac Physiology: From the Chest Radiograph to CT and MR Imaging

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

- A. Chest Radiography  
Laura E. Heyneman, MD
- B. CT Imaging  
Christoph R. Becker, MD
- C. MR Imaging  
Gautham P. Reddy, MD

## RC704

### Imaging Hip and Groin Pain: From Femoral Acetabular Impingement to Athletic Pubalgia

Adam C. Zoga, MD  
Suzanne E. Anderson, BMed  
Stephen J. Eustace, MD

## RC705

### Central Nervous System Infections (An Interactive Session)

Anne G. Osborn, MD  
Vincent P. Mathews, MD

## RC706

### Oral Cavity, Pharynx, and Larynx

- A. Nasopharynx  
Christine M. Glastonbury, MBBS
- B. Oral Cavity and Oropharynx  
Suresh K. Mukherji, MD
- C. Larynx  
Hugh D. Curtin, MD

## RC707

### Genitourinary Emergencies: Case-based Approach (An Interactive Session)

Zafar H. Jafri, MD  
Courtney A. Woodfield, MD  
Deborah A. Baumgarten, MD, MPH

## RC708

### Diagnosis and Management of Trau- matic Abdomen and Pelvis: Bleeding and Vascular Injury

- A. Traumatic Abdominal Bleeding and  
Vascular Injury  
Robert A. Novelline, MD
- B. Traumatic Pelvic Bleeding and  
Vascular Injury  
Jorge A. Soto, MD
- C. Interventional Radiologic  
Management of Traumatic Abdomen  
and Pelvis: Bleeding and Vascular  
Injury  
Sue E. Hanks, MD

## RC709

### Imaging of Diffuse Liver Diseases

- A. Diffuse Liver Disease: Techniques for  
CT and MR Imaging  
Elmar M. Merkle, MD
- B. Diffuse Liver Disease: Deposition  
Disorders  
Jonathan B. Kruskal, MD, PhD
- C. Diffuse Liver Disease: Vascular  
Disorders  
Fred T. Lee, Jr, MD

## RC710

### Obstetrics Ultrasound II

Clifford S. Levi, MD, Moderator

- A. Fetal Heart  
Clifford S. Levi, MD
- B. Fetal CNS  
Ruth B. Goldstein, MD
- C. Fetal Thorax  
Beverly G. Coleman, MD
- D. Fetal MSK  
Phyllis Glanc, MD

# RSNA Refresher Courses (continued)



## RC711

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

*Richard L. Wahl, MD, Director*

- A. PET/CT in the Primary Diagnosis of CAD  
*Marcelo F. Di Carli, MD*
- B. PET/CT for the Workup of Heart Failure  
*Frank M. Bengel, MD*

## RC712

### Renal Artery Disease

- A. Clinical Conditions, Management, and Outcomes  
*Myron A. Pozniak, MD*
- B. MR Techniques and Interpretation  
*Stefan O. Schoenberg, MD, PhD*
- C. CT Techniques and Interpretation  
*W. Dennis Foley, MD*

## RC713

### Pediatric Interventional Radiology

- A. Pediatric Peripherally Inserted Central Catheterization: How to Establish and Run the Service  
*William E. Shiels II, DO*
- B. Interventional Procedures for the General Pediatric Radiologist  
*James S. Donaldson, MD*
- C. Horizons in Pediatric Interventional Radiology  
*Derek J. Roebuck, MD*

## RC714

### Update on Inferior Vena Cava Filters and Treatment of Deep Venous Thrombosis

*Thomas B. Kinney, MD*  
*Anne C. Roberts, MD*

## RC715

### Breast Ultrasound

- A. Equipment and Technique  
*Paula B. Gordon, MD*
- B. Interpretation, including BIRADS  
*Jay A. Baker, MD*

## RC717

### Neurologic Imaging in the Era of Molecular Medicine

- A. Molecular Imaging for CNS Malignancies  
*Juri G. Gelovani, MD, PhD*
- B. PET Imaging of Neuropsychiatric Disorders  
*J. James Frost, MD, PhD*
- C. Stem Cell Tracking in Neurologic Applications  
*Jeff W. Bulte, PhD*

## RC718

### Diffusion-weighted Imaging in Oncology

- A. Principles, Techniques, and Interpretation  
*Dow-Mu Koh, MBBS*
- B. Applications in Abdominal and Pelvic Neoplasms  
*Bachir Taouli, MD*
- C. Applications in Other Neoplasms  
*Andreas M. Herness, MD*

## RC721

### Update Course in Diagnostic Radiology Physics: Imaging Technologies in Oncology—Heat and Hypoxia

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

- A. Image-guided Thermal Therapy  
*Clare M. Tempany-Afdhal, MD*
- B. Imaging-guided Interventions and Surgery  
*John D. Hazle, PhD*

## RC722

### Minicourse: Image Optimization for Treatment Planning—Pelvis (Genitourinary), Brachytherapy

*Debra Brinkmann, PhD, Director*

- A. Pelvis (Genitourinary)  
*Patrick W. McLaughlin, MD*
- B. Brachytherapy  
*Jason Rownd, MS*

### RC723

#### Minicourse: Innovations and Advances in Medical Imaging Technology—Innovations and Advances in MR Imaging Technology: Parallel Imaging

Nathan Yanasak, PhD, Director

A. Clinical Applications and Image Quality Issues in Parallel Imaging  
Nathan Yanasak, PhD

B. The Future of Parallel Imaging  
Lawrence Wald, PhD

### RC725

#### 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. Clinical Practice: Controlling Pediatric Radiation Dose and Study Quality  
Donald P. Frush, MD

B. Clinical Practice: Controlling Adult Radiation Dose and Study Quality  
Thomas R. Goodman, MBBChir  
James A. Brink, MD

### RC726

#### Image Exchange (Basic Imaging Informatics)

A. XDS-I Profile  
Eugene Igras

B. The Philadelphia Health Information Exchange: On Demand, Cross-Enterprise Access to Imaging using XDS-I  
Elliot D. Menschik, MD, PhD

C. Image CD Importation  
Bradley J. Erickson, MD, PhD

### RC727

#### I've Just Been Sued for Medical Malpractice: What Do I Do Now?

Leonard Berlin, MD

Keith A. Hebeisen, JD

Timothy G. Nickels, JD

Jonathan W. Berlin, MD

### RC730

#### Imaging as a Biomarker (Advanced Imaging Informatics)

A. Imaging in Clinical Trials  
C. Carl Jaffe, MD

B. Methods for Quantitative Imaging  
Lawrence H. Schwartz, MD

C. AVT—A Tool Kit for Validation of Measurement Algorithms  
David A. Clunie, MBBS

### RC731

#### Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on Workshop)

A. Orlando Ortiz, MD, MBA

John M. Mathis, MD, MSc

Chi-Shing Zee, MD

Gregg H. Zoarski, MD

Stanley Golovac, MD

### RC732

#### Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—MR-based Assessment of Therapy

Willi A. Kalender, PhD, Co-Director

Edward F. Jackson, PhD, Co-Director

A. Assessment of Therapy Response with Dynamic Contrast-enhanced MR Imaging  
Yue Cao, PhD

B. Assessment of Therapy Response with in Vivo MR Spectroscopy  
Peter B. Barker, DPhil

C. Applications of Diffusion MR Imaging to the Assessment of Therapy Response  
Thomas L. Chenevert, PhD

### RC750

#### Hysterosalpingography and Selective Salpingography (Hands-on Workshop)

David M. Hovsepian, MD

Amy S. Thurmond, MD

Antoine J. Maubon, MD

Jean Pierre Rouanet De Lavit, MD

Lindsay S. Machan, MD

Ronald J. Zagoria, MD

James C. Bass, MD

Arl Van Moore, Jr, MD

### RC751

#### Newer Concepts for the Imaging Characterization and Quantification of Chronic Obstructive Pulmonary Disease (How-to Workshop)

Robert M. Steiner, MD

Jonathan G. Goldin, MBChB, PhD

David A. Lynch, MB

### RC752

#### Doppler Sonography: Visceral and Extremity Applications (Hands-on Workshop)

Mark E. Lockhart, MD

Susan L. Voci, MD

Nancy Carson, MBA, RDMS, RVT

M. Robert DeJong, RDMS, RVT

Vikram S. Dogra, MD

Katherine W. Fong, MD

Ulrike M. Hamper, MD, MBA

Janis G. Letourneau, MD

Shweta Bhatt, MBBS

Mani Montazemi, RDMS

Michelle L. Robbin, MD

Deborah J. Rubens, MD

Leslie M. Scoutt, MD

John G. Strang, MD

Sharon Balzarini, RDMS, RVT

Hjalti M. Thorisson, MD

### RC753

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

Gary J. Wendt, MD

### RC754

#### Essential Internet Resources for Decision Support and Learning While You Work (Hands-on Workshop)

Michael P. D'Alessandro, MD

Jeffrey R. Galvin, MD

James J. Choi, MD

### Friday, December 5

8:30 AM – 10:00 AM

### RC801

#### Case-based Review: Mediastinum, Pleura, and Trauma (An Interactive Session)

Phillip M. Boiselle, MD

Gerald F. Abbott, MD

Jud W. Gurney, MD