

# RSNA Refresher Courses

More than 300 refresher courses cover traditional and cutting-edge topics in each subspecialty.

## Sunday, November 30

2:00 PM – 3:30 PM

### RC101

#### High-resolution CT Update: Multidetector CT Technique, Idiopathic Interstitial Pneumonias, and Emphysema (An Interactive Session)

*Ella A. Kazerooni, MD*

*Jeffrey R. Galvin, MD*

*Alexander A. Bankier, MD*

### RC102

#### Current Activities of the American Board of Radiology (In Conjunction with the American Board of Radiology)

*Gary J. Becker, MD*

### RC103

#### Categorical Course in Diagnostic Radiology: Cardiac—Principles and Techniques of Cardiac CT Angiography and MR Imaging and Radiation Reduction Strategies

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

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

#### A. MR Imaging

*Pamela K. Woodard, MD*

#### B. CT Angiography

*Suhny Abbara, MD*

#### C. Radiation Dose at CT Angiography

*Cynthia H. McCollough, PhD*

### RC104

#### MR and CT Arthrography

*Lynne S. Steinbach, MD*

*Andrew H. Haims, MD*

*William B. Morrison, MD*

### RC105

#### Spine Imaging

#### A. Comprehensive Imaging of Spinal

Vascular Malformations

*Robert W. Hurst, MD*

#### B. Imaging of Spinal Intradural Processes:

Differentiating Neoplasms from

Mimics

*James G. Smirniotopoulos, MD*

#### C. High Resolution 3D MR Imaging of the

Spine at 3 T: Is It a Reality?

*Elias R. Melhem, MD, PhD*

### RC106

#### Ear-, Nose-, and Throat-related Emergencies: Trauma and Infections (An Interactive Session)

#### A. Trauma of the Temporal Bone

*Deborah R. Shatzkes, MD*

#### B. Orbital and Facial Trauma

*Alisa D. Gean, MD*

#### C. Complications of Head and Neck

Infection

*Gul Moonis, MD*

### RC107

#### Adrenal Imaging (An Interactive Session)

*Giles W. Boland, MD*

*Suzan M. Goldman, MD*

*Gertraud Heinz-Peer, MD*

### RC108

#### State-of-the-Art Imaging for Penetrating Trauma

#### A. Gunshot Wounds

*Anthony J. Wilson, MBChB*

#### B. Thorax

*Sanjeev Bhalla, MD*

#### C. Abdomen

*Christine O. Menias, MD*

### RC109

#### Imaging of the Colon (An Interactive Session)

#### A. CT Colonography: Technical Considerations

*Abraham H. Dachman, MD*

#### B. CT Colonography: Summary of Data

*Joel G. Fletcher, MD*

#### C. CT Colonography: Pitfalls

*Perry J. Pickhardt, MD*

### RC110

#### Gynecologic Ultrasound (An Interactive Session)

*Thomas C. Winter III, MD, Moderator*

#### A. Sonographic Assessment of the Endometrium

*Thomas C. Winter III, MD*

#### B. Sonographic Assessment of Adnexal Pathology

*Jill E. Langer, MD*



## RC111

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

#### PET Basics

*Richard L. Wahl, MD, Director*

- A. Physics and Instrumentation for PET  
*David W. Townsend, PhD*
- B. Biological Targets and Radiotracers for PET  
*Richard L. Wahl, MD*
- C. PET Imaging Protocols and Normal Anatomy/Variants  
*Harry Agress, Jr, MD*

## RC112

### Topics in Aortic Imaging

- A. The ABCs of Aortic Dissection  
*Dominik Fleischmann, MD*
- B. Common Surgical Procedures and Their Complications  
*Terri J. Vrtiska, MD*
- C. Imaging Endografts: What Is Important?  
*Geoffrey D. Rubin, MD*

## RC114

### Pain Management and Sedation in Radiologic Practice

*John E. Arnold, MD*  
*Wade H. Wong, DO*

## RC115

### Digital Mammography

- A. Equipment and Quality Control  
*Eric A. Berns, PhD*
- B. How to Incorporate Digital Mammography into Your Practice  
*Margarita L. Zuley, MD*
- C. Future Applications of Digital Mammography  
*Elizabeth A. Rafferty, MD*

## RC116

### Patient-centered Radiology: Use It or Lose It (Sponsored by the RSNA Public Information Committee)

*Philip O. Alderson, MD*  
*Michael N. Brant-Zawadzki, MD*  
*Marcy Brown, RT*

## RC117

### Essentials of Molecular Imaging for Clinical Radiologists

- A. What Is Molecular Imaging?  
*Martin G. Pomper, MD, PhD*
- B. Why Is Molecular Imaging Important to Clinical Radiologists?  
*King C. Li, MD*
- C. Imaging Informatics and Bioinformatics for Clinical Radiologists  
*Stephen T. Wong, PhD*

## RC118

### Imaging of Complications of Cancer and Its Therapy I: Neurologic and Thoracic (An Interactive Session)

- A. Neurologic Complications  
*Lawrence E. Ginsberg, MD*
- B. Thoracic Complications  
*Michelle S. Ginsberg, MD*

## RC120

### Protons

*James D. Cox, MD*  
*Alfred R. Smith, PhD*

## RC121

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

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

- A. Introduction  
*John D. Hazle, PhD*
- B. Imaging for Treatment Evaluation  
*Edward V. Staab, MD*
- C. Imaging for Real-time Monitoring  
*David A. Jaffray, PhD*

## RC122

### Minicourse: Radiation Oncology Physics—Acceptance Testing and Quality Assurance of Treatment Planning Systems

*Jacob Van Dyk, MSc*  
*Geoffrey S. Ibbott, PhD*

## RC123

### Minicourse: From Image to Decision—Science and Technology for Effective Interpretation of Medical Images: Why Study Perception?

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

- A. Image Perception in Modern Medicine  
*Ehsan Samei, PhD*
- B. A Short History of Image Perception in Radiology  
*Elizabeth A. Krupinski, PhD*
- C. Clinical Relevance of Perceptual Issues in Radiology  
*Francine L. Jacobson, MD, MPH*

## RC124

### Recent Advances in Neuroradiology and Musculoskeletal, Gastrointestinal, and Gynecologic Radiology: Practical Points and Pitfalls

*Ronald L. Eisenberg, MD, JD*  
*Alexander R. Margulis, MD*  
*Hedvig Hricak, MD, PhD*  
*Donald L. Resnick, MD*  
*Richard M. Gore, MD*  
*William P. Dillon, MD*

## RC125

### 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. Introduction  
*Donald P. Frush, MD*
- B. Medical Radiation Dosimetry  
*Kent M. Ogden, PhD*
- C. Radiation Risks in Diagnostic Radiology  
*David J. Brenner, PhD, DSc*

## RC126

### Introduction to Imaging Informatics (Basic Imaging Informatics) (In Conjunction with the Society for Imaging Informatics in Medicine)

- A. What Is Imaging Informatics?  
*Katherine P. Andriole, PhD*
- B. DICOM Basics  
*Steven C. Horii, MD*
- C. IHE® Basics  
*Nogah Haramati, MD*

## RC127

### What Makes Good Radiology Practices Great

*Lawrence R. Muroff, MD*  
*Julie A. Muroff Esq, JD*

## RC128

### Minicourse: Clinical Trials in Imaging—Quantitative Imaging

- A. Perspectives in Quantitative Imaging  
*John M. Boone, PhD*
- B. Quantitative Imaging Using PET/CT  
*Paul E. Kinahan, PhD*
- C. Quantitative Imaging in MR Imaging and MR Spectroscopy  
*Edward F. Jackson, PhD*

## RC129

### Minicourse: Optimize Your Body MR Practice—From Safety to Protocol Design: 3-T Body MR Imaging and Intervention

- A. Getting the Best Out of Your 3-T Magnet: Dos and Don'ts  
*Robert R. Edelman, MD*
- B. MR Intervention for Dummies  
*Clare M. Tempny-Afdhal, MD*

## RC130

### Using Information Technology to Improve Quality and Safety (Advanced Imaging Informatics)

- A. Picking Metrics: You Can't Manage What You Don't Measure  
*Reuben S. Mezrich, MD, PhD*
- B. Prospective Quality and Safety Initiatives  
*Ramin Khorasani, MD*

- C. Data Mining: Feedback to Altering Practice  
*Pragya A. Dang, MBBS*

## RC132

### Categorical Course in Diagnostic Radiology Physics: CT and MR Imaging—CT Image Generation: From Multislice to Cone-Beam CT

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

- A. Advances in CT Technology  
*Willi A. Kalender, PhD*
- B. Approaches to Image Reconstruction  
*Thomas G. Flohr, PhD*

## RC150

### MR-guided Breast Biopsy (Hands-on Workshop)

*Michelle D. McDonough, MD*  
*Elizabeth R. DePeri, MD*  
*Annamaria Wilhelm, MD*  
*Lia Bartella, MD, FRCR*  
*Gary J. Whitman, MD*  
*Alice S. Rim, MD*  
*Hiroyuki Abe, MD*  
*Elsie Levin, MD*  
*Christiane K. Kuhl, MD*  
*Constance D. Lehman, MD, PhD*  
*Mary C. Mahoney, MD*  
*Margarita L. Zuley, MD*  
*Stamatia V. Destounis, MD*  
*Carol H. Lee, MD*  
*Steven E. Harms, MD*  
*Peter R. Eby, MD*  
*Petrina A. Caser, MD*

*Thomas L. Pope, Jr, MD*  
*Francesca D. Beaman, MD*  
*Simone Schrading, MD*  
*W. Phil Evans III, MD*  
*Lisa Broddle, RT*  
*Janet Davis, RT, R MR*

## RC151

### Inferior Vena Cava Interventions (How-to Workshop)

*Joseph M. Stavas, MD*  
*Robert G. Dixon, MD*  
*Stephan Moll, MD*  
*Charles T. Burke, MD*

## RC152

### Techniques of Freehand Invasive Sonography with Thermal Ablation (Hands-on Workshop)

*William E. Shiels II, DO*  
*Alda F. Cossi, MD*  
*Robert D. Lyon, MD*  
*Michael V. Krasnokutsky, MD*  
*Mark L. Lukens, MD*  
*Hayden W. Head III, MD*  
*Jeong-Min Lee, MD*  
*Clifford R. Weiss, MD*  
*Sarah S. Milla, MD*  
*Mark J. Hogan, MD*  
*Stephen C. O'Connor, MD*  
*Howard T. Harcke, MD*  
*Manish N. Patel, DO*  
*Hollins P. Clark, MD*

## RC153

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

*Matthew A. Barish, MD*

## RC154

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

*Krishna Juluru, MD*  
*John Eng, MD*

