



THE UNIVERSITY OF
CHICAGO
MEDICINE &
BIOLOGICAL
SCIENCES



Monday, March 9 – Friday, March 13, 2015

THE UNIVERSITY OF CHICAGO
Department of Radiology

20th Annual Conference

2015 Radiology Review

**CME Certified 47.5
plus SAM credits
offered!**

**Hyatt Chicago Magnificent Mile
633 North St. Clair Street
Chicago, Illinois 60611**

Course Director:

Daniel E. Appelbaum, MD

Register online at: cme.uchicago.edu

CONFERENCE DESCRIPTION

INVITATION FROM THE COURSE DIRECTOR

We invite you to join us at this exciting, comprehensive review and update of the practical aspects of all major subspecialties of Diagnostic Radiology. Our experts are chosen for their excellence as teachers and they will share their clinical expertise and insight to help you improve your performance and practice. They will guide you to appropriate use of conventional imaging modalities such as plain film radiography, computed tomography, magnetic resonance imaging, ultrasound, nuclear medicine and angiography; and when appropriate, they will emphasize newer important imaging modalities including PET/CT, diffusion weighted MR, cardiac CT, and virtual colonoscopy. Current and future trends in radiology informatics will also be explored. Major emphasis will be placed on the practical and clinical aspects of Diagnostic Radiology. Diagnostic tips, techniques and pitfalls will be stressed and differential diagnoses of common radiological findings will be covered. Unknown case reviews will be held after each morning and afternoon lecture session — allowing participants to test themselves in a relaxed atmosphere. These popular sessions will stress practical clinical problems and differential diagnoses. Audience Response System (ARS) technology will be used throughout the course and many Self-Assessment Credits (SAMs) will be offered.

We hope that you will join us for the 20th iteration of this fantastic meeting and look forward to welcoming you to exciting Chicago!

Course Director,

Daniel E. Appelbaum, MD

LEARNING OBJECTIVES

At the conclusion of this educational activity, participants will be able to:

- *Better understand subspecialty areas of radiology, including brain, spine, head and neck, chest, bone, cardiovascular, genitourinary, gastrointestinal, pediatric, mammography, nuclear medicine, oncology, general vascular and interventional radiology;*
- *Incorporate into their practice clinically important applications for newer imaging methods such as breast tomosynthesis, diffusion MR tractography, cardiac CT/MR, virtual colonoscopy, PET/CT, SPECT/CT, and PET/MR;*
- *Describe the most effective way to image patients with a variety of disease entities;*
- *Discuss the strengths and limitations of different diagnostic imaging procedures.*

TARGET AUDIENCE

The target audience includes practicing radiologists and residents seeking a comprehensive review of Diagnostic Radiology.

ACCREDITATION AND CREDIT DESIGNATION

The University of Chicago Pritzker School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Chicago Pritzker School of Medicine designates this live activity for a maximum of 47.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses and other healthcare professionals will receive a Certificate of Participation. For information on the applicability and acceptance of certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*[™] from organizations accredited by the ACCME, please consult your professional licensing board.

This meeting is provisionally qualified as of November 2014 with full qualification by the ABR expected before the SAM is taken.

EDUCATIONAL GRANTS/COMMERCIAL SUPPORT

A complete listing of commercial support received will be provided in the conference materials.

CONFERENCE FACULTY

THE UNIVERSITY OF CHICAGO FACULTY, DEPARTMENT OF RADIOLOGY

CHAIRMAN

David Paushter, MD, FACP
Professor and Chair
Department of Radiology

PROGRAM DIRECTOR

Daniel E. Appelbaum, MD
Associate Professor of Radiology
Director of Nuclear Medicine /
PET Imaging

Hiroyuki Abe, MD, PhD
Associate Professor of Radiology
Director, Breast Imaging Research

Saad Ali, MD
Assistant Professor of Radiology
Director, Spine Neuroradiology

Paul J. Chang, MD, FSIM
Professor and Vice-Chair,
Radiology Informatics
Medical Director, Pathology
Informatics
Medical Director, Enterprise Imaging

Greg Christoforidis, MD
Professor of Radiology and Surgery
Section Chief, Neuroradiology

John M. Collins, MD, PhD
Assistant Professor of Radiology
Director, Advanced Neuroimaging

Abraham H. Dachman, MD, FACP
Professor of Radiology
Director, Fellowship Programs

Karin Dill, MD
Associate Professor of Radiology
and Medicine
Co-Director, Cardiac CT and MRI

Larry B. Dixon, MD
Associate Professor of Radiology
Director, Musculoskeletal
Advanced Clinical Experience

Kate Feinstein, MD, FACP
Professor of Radiology and Surgery
Section Chief, Pediatric Radiology

Alexandra Funaki, DO
Clinical Associate of Radiology

Daniel Ginat, MD
Assistant Professor of Radiology
Director, Head & Neck Imaging

Gregory L. Katzman, MD, MBA
Associate Professor of Radiology
Vice-Chair, Clinical Operations

Kirti Kulkarni, MD
Assistant Professor of Radiology

Seon Kyu Lee, MD, PhD
Associate Professor of Radiology,
Surgery and Neurology
Director of Neurointerventional
Radiology

Martin J. Lipton, MD, FACP, FACC
Professor of Radiology & Medicine
(Emeritus)

Jonathan Lorenz, MD
Professor of Radiology

Heber MacMahon, MB, BCH
Professor of Radiology
Section Chief, Thoracic Radiology

Melvy Mathew, MD
Assistant Professor of Radiology

Steven Montner, MD
Associate Professor of Radiology

Rakesh Navuluri, MD
Assistant Professor of Radiology

Gillian M. Newstead, MD, FACP
Director of Global Breast Imaging

Seng Ong, MD
Assistant Professor of Radiology
Director, Radiology Residency
Program

Aytekin Oto, MD
Professor of Radiology & Surgery
Chief of Abdominal Imaging &
Body MRI

Pritesh Patel, MD
Assistant Professor of Radiology

Michael Rozenfeld, DO
Neuroradiology Fellow

David Schacht, MD
Assistant Professor of Radiology
Section Chief, Breast Imaging

G. Scott Stacy, MD
Associate Professor of Radiology
Section Chief, Musculoskeletal
Radiology

Stephen Thomas, MD
Assistant Professor of Radiology

Thuong VanHa, MD
Professor of Radiology
Director, Vascular Interventional
Clinical Research

Emily Ward, MD
Abdominal Imaging Fellow

Carina Yang, MD
Assistant Professor of Radiology
Director, Pediatric Neuroradiology

Steven Zangan, MD
Associate Professor of Radiology
Associate Program Director
Radiology Residency

Mario Zaritzky, MD
Assistant Professor of Radiology

GUEST SPEAKERS

**Jonathan W. Berlin
MD, MBA, FACP**
Director of Business Development
NorthShore University
HealthSystem
Clinical Professor of Radiology
University of Chicago Pritzker
School of Medicine

David Casalino, MD
Professor of Radiology
Chief, Genitourinary Radiology
Northwestern University

Frank H. Miller, MD, FACP
Professor of Radiology
Director of Body Imaging
Director of MRI
Northwestern University

Sundeep Nayak, MD
Chief of Imaging
Sr. Physician, The Permanente
Medical Group
Associate Clinical Professor of
Radiology
UCSF School of Medicine

David N. Rabin, MD
Assistant Professor of Radiology
NorthShore University
HealthSystem
University of Chicago Pritzker
School of Medicine

FACULTY DISCLOSURE

It is the policy of The University of Chicago to ensure balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. Individuals who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Mechanisms to ensure that presentations are free from commercial bias are in place. Faculty will also disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Full disclosure of this information will be published in the activity materials.

CONFERENCE AGENDA

MONDAY, MARCH 9, 2015

6:10 am	REGISTRATION FOR RADIOLOGY REVIEW AND CONTINENTAL BREAKFAST
7:10	Welcome <i>Daniel E. Appelbaum, MD</i>
	GASTROINTESTINAL MODERATOR: <i>Stephen Thomas, MD</i>
7:15	Lumps & Bumps: What to do About Thyroid Nodules <i>David Paushter, MD, FACR</i>
8:00	Biliary Imaging <i>Stephen Thomas, MD</i>
8:30	Solid & Cystic Pancreatic Masses <i>Frank H. Miller, MD, FACR</i>
9:00	Adrenal Imaging <i>Stephen Thomas, MD</i>
9:30	REFRESHMENT BREAK
9:45	Body MR: A Practical Approach <i>Frank H. Miller, MD, FACR</i>
10:15	Multimodality Lower GI Tract <i>Abraham H. Dachman, MD, FACR</i>
10:45	Cirrhotic Liver Disease <i>Frank H. Miller, MD, FACR</i>
11:30	Virtual Colonoscopy <i>Abraham H. Dachman, MD, FACR</i>
12:15 pm	LUNCH ON YOUR OWN
	NUCLEAR MEDICINE MODERATOR: <i>Daniel E. Appelbaum, MD</i>
1:15	Bone Scintigraphy <i>Daniel E. Appelbaum, MD</i>
2:15	Overview of PET and PET/CT <i>Daniel E. Appelbaum, MD</i>
3:15	REFRESHMENT BREAK
3:30	Nuclear Medicine: Applications in the Acute & Emergency Setting, Pt. I <i>Sundeep Nayak, MD</i>
4:15	Nuclear Medicine: Applications in the Acute & Emergency Setting, Pt. II <i>Sundeep Nayak, MD</i>
4:45	Nuclear Medicine: Applications in the Clinic Setting, Pt. I <i>Sundeep Nayak, MD</i>
5:15	Nuclear Medicine: Applications in the Clinic Setting, Pt. II <i>Sundeep Nayak, MD</i>
5:45	Nuclear Medicine Unknowns <i>Daniel E. Appelbaum, MD</i>
6:15 pm	END OF DAILY SESSION

TUESDAY, MARCH 10, 2015

6:45 am	CONTINENTAL BREAKFAST
	NEURORADIOLOGY MODERATOR: <i>Greg Christoforidis, MD</i>
7:15	Imaging Ischemic Stroke <i>Greg Christoforidis, MD</i>
7:45	Imaging Hemorrhagic Stroke <i>Greg Christoforidis, MD</i>
8:15	Vascular Diseases of the Brain <i>Seon Kyu Lee, MD, PhD</i>
8:45	Orbits <i>Greg Christoforidis, MD</i>
9:15	REFRESHMENT BREAK
9:30	Infectious & Non-infectious Intracranial Inflammatory Disorders <i>Greg Christoforidis, MD</i>
10:15	Diagnosis & Management of CNS Neoplasms <i>Sundeep Nayak, MD</i>
11:15	Advanced Neuroimaging: MRS, fMRI, Diffusion Tensor, & Susceptibility <i>Gregory L. Katzman, MD, MBA</i>
12:00 pm	LUNCH ON YOUR OWN
1:00	Acquired Pediatric Neurologic Disorders <i>Carina Yang, MD</i>
1:30	White Matter Diseases <i>John M. Collins, MD, PhD</i>
2:15	Degenerative & Inflammatory Diseases of the Spine <i>Saad Ali, MD</i>
2:45	Spine Tumors <i>John M. Collins, MD, PhD</i>
3:15	REFRESHMENT BREAK
3:30	Imaging of Head & Neck Squamous Cell Carcinoma <i>Sundeep Nayak, MD</i>
4:00	Suprahyoid Neck <i>Daniel Ginat, MD</i>
4:45	Temporal Bone <i>Daniel Ginat, MD</i>
5:15	Paranasal Sinuses <i>Sundeep Nayak, MD</i>
5:45	Neuroradiology Unknowns <i>Michael Rozenfeld, DO</i>
6:15 pm	END OF DAILY SESSION

CONFERENCE AGENDA

WEDNESDAY, MARCH 11, 2015

6:45 am **CONTINENTAL BREAKFAST**

**PEDIATRIC CASE-BASED REVIEWS:
CONGENITAL AND DEVELOPMENTAL
ANOMALIES MODERATOR:**
Kate Feinstein, MD, FACR

7:15 **Pediatric Thorax**
Mario Zaritzky, MD

7:55 **Pediatric Airway**
Kate Feinstein, MD, FACR

8:35 **Pediatric Gastrointestinal**
Seng Ong, MD

9:15 **REFRESHMENT BREAK**

9:30 **Pediatric Genitourinary**
Kate Feinstein, MD, FACR

10:10 **Pediatric Neuroradiology**
Carina Yang, MD

10:50 **Pediatric Musculoskeletal**
Seng Ong, MD

11:30 **LUNCH ON YOUR OWN**

**INTERVENTIONAL RADIOLOGY FOR THE
DIAGNOSTIC RADIOLOGIST MODERATOR:**
Jonathan Lorenz, MD

12:30 pm **Vascular Diagnosis & Therapy**
Jonathan Lorenz, MD

1:10 **Non-Vascular Diagnosis & Therapy**
Steven Zangan, MD

1:40 **Interventional Oncology**
Thuong VanHa, MD

2:10 **Clinical Quiz: Errors Made
on Imaging Studies by Diagnostic
Radiologists Interpreting
IR-Related Interventions**
Rakesh Navuluri, MD

2:40 **REFRESHMENT BREAK**

BREAST IMAGING MODERATOR:
David Schacht, MD

2:55 **Mammography**
Kirti Kulkarni, MD

3:45 **Ultrasound and Breast Procedures**
David Schacht, MD

4:35 **Breast MRI**
Hiroyuki Abe, MD, PhD

5:25 **Dense Breasts and New
Screening Methods**
Gillian M. Newstead, MD

6:15 pm **END OF DAILY SESSION**

THURSDAY, MARCH 12, 2015

6:45 am **CONTINENTAL BREAKFAST**

MUSCULOSKELETAL MODERATOR:
G. Scott Stacy, MD

7:15 **MR Imaging of the Foot & Ankle**
G. Scott Stacy, MD

7:50 **MR Imaging of the Shoulder**
Larry B. Dixon, MD

8:20 **MR Imaging of the Hip**
G. Scott Stacy, MD

8:55 **Bone Tumors**
Larry B. Dixon, MD

9:55 **REFRESHMENT BREAK**

10:10 **Metabolic Bone Disease**
Larry B. Dixon, MD

10:40 **MR Imaging of the Knee**
G. Scott Stacy, MD

11:30 **Imaging Arthritis**
Larry B. Dixon, MD

12:00 **Musculoskeletal Unknowns**
G. Scott Stacy, MD

12:30 **LUNCH ON YOUR OWN**

GI/GU MODERATOR:
Aytekin Oto, MD

1:30 **Upper Genitourinary Imaging**
David Casalino, MD

2:15 **Updates on Body CT Protocols
& Dual Energy CT**
Pritesh Patel, MD

2:45 **Lower Genitourinary Imaging**
David Casalino, MD

3:30 **Genitourinary Unknowns**
David Casalino, MD

4:00 **REFRESHMENT BREAK**

4:15 **Focal Lesions in the Non-
Cirrhotic Liver**
Melvy Mathew, MD

4:45 **CT & MR Enterography**
Aytekin Oto, MD

5:15 **Prostate MR**
Aytekin Oto, MD

6:00 **GI Unknowns**
Emily Ward, MD

6:30 pm **END OF DAILY SESSION**

* Program agenda and speaker selection subject to change.

CONFERENCE AGENDA

FRIDAY, MARCH 13, 2015

6:45 am CONTINENTAL BREAKFAST

CHEST MODERATOR:
Heber MacMahon, MB, BCh

7:15 **Pulmonary Nodules & Masses**
Heber MacMahon, MB, BCh

7:45 **Respiratory Infections**
Alexandra Funaki, DO

8:15 **Mediastinum**
Steven Zangan, MD

8:45 **Cystic Lung Disease**
Steven Montner, MD

9:15 REFRESHMENT BREAK

9:30 **Interstitial Lung Disease**
Steven Montner, MD

10:00 **Helical CT & Pulmonary Embolism**
Heber MacMahon, MB, BCh

10:30 **Chest Unknowns**
Heber MacMahon, MB, BCh

11:00 **Meaningful IT Innovation to Support the Radiology Value Proposition: The Return of the "Doctor's Doctor"**
Paul J. Chang, MD, FSIIM

11:45 **Population Health & Radiology**
Jonathan W. Berlin, MD, MBA, FACR

12:15 pm LUNCH ON YOUR OWN

OBSTETRICAL ULTRASOUND MODERATOR:
David N. Rabin, MD

1:15 **Obstetrical Ultrasound I**
David N. Rabin, MD

2:00 **Obstetrical Ultrasound II**
David N. Rabin, MD

2:45 **Obstetrical Ultrasound Unknowns**
David N. Rabin, MD

CARDIAC MODERATOR:
Karin Dill, MD

3:15 **Radiology of Congenital Heart Disease**
Karin Dill, MD

3:45 REFRESHMENT BREAK

4:00 **Cardiomyopathy & Pericardial Disease**
Martin J. Lipton, MD, FACR, FACC

4:45 **Advanced Imaging: Cardiovascular CT & MRI**
Karin Dill, MD

5:30 **Cardiac Unknowns**
Martin J. Lipton, MD, FACR, FACC and Karin Dill, MD

6:00 pm ADJOURN

LOCATION AND ACCOMMODATIONS

We are excited and pleased to be returning to **Hyatt Chicago Magnificent Mile** in 2015! At the Hyatt Chicago Magnificent Mile Hotel, you're in the heart of Chicago, steps from Michigan Avenue, the Gold Coast neighborhood, and Lake Michigan. The classic urban hotel is a symbol of hospitality on The Magnificent Mile. **We are pleased to offer a special discounted rate of \$189.00 per night for single or double occupancy. Room reservations must be made by February 17, 2015 to guarantee the reduced rate.** All rates are subject to state and city taxes and must be guaranteed and accompanied by a first night room deposit or guaranteed with a major credit card. Check-in time is 3 pm and check-out time is 12 pm. Cancellations must be received 24 hours prior to arrival or 1 night room and tax will be assessed.

To reserve a room at this special rate, please call the hotel toll free at 888-591-1234 and identify yourself as part of the University of Chicago Radiology Review 2015 event or book online at: <https://aws.passkey.com/event/11273263/owner/2501/home>

With a locale just one block from Michigan Avenue, near Chicago dining, shops, museums and art galleries, this hotel provides a great base to explore exciting Chicago tourist attractions. Additionally, you can maintain your healthy lifestyle with a satisfying workout in the fitness center or a swim in the sparkling indoor pool.

To help plan your stay in Chicago, visit www.choosechicago.com.

All participants are responsible for making their own travel arrangements.



The University of Chicago reserves the right to cancel or postpone this conference due to unforeseen circumstances. In the unlikely event this activity must be cancelled or postponed, the registration fee will be refunded; however, The University of Chicago is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

REGISTRATION

HOW TO REGISTER

 **ONLINE** cme.uchicago.edu
(Credit Card Payments Only)

 **MAIL** **To pay by check, you must mail your registration with payment to:**
The University of Chicago
Center for Continuing Medical Education
c/o Radiology Review 2015
950 East 61st Street, Suite 101
Chicago, IL 60637

REGISTRATION FEE

The \$1325 registration fee includes: conference registration, continental breakfast, refreshment breaks, and a comprehensive electronic syllabus. The conference fee for residents, with letter of verification, is \$1025.

While registration is open until the start of the conference, we encourage early registration to enable us to provide the best possible service to participants.

Physicians and Scientists	\$1325
Residents (Fax verification letter to 773-702-1736)	\$1025

PAYMENT

☐ Check enclosed (U.S. funds only), payable to **The University of Chicago (Tax ID# 36-2177139)**

CONTACT INFORMATION

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Specialty _____

Organization _____

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- ☐ You must check this box if you do not want your mailing address shared with conference participants and/or exhibitors (if applicable).
- Please tell us how you found out about this activity, check all that apply:
- ☐ Colleague ☐ Save the Date ☐ Brochure ☐ Internet ☐ Email ☐ Journal Ad
- ☐ Previous Attendance ☐ Other _____

For additional information about this activity, please call the Center for Continuing Medical Education at 773.702.1056.

CANCELLATION POLICY

If you cancel your participation in this conference, your registration fee, less \$150.00 administrative fee, will be refunded when written notification is received by February 17, 2015. **No refunds will be issued after February 17, 2015.**

ACCESSIBILITY

The University of Chicago is committed to providing equal access appropriate to need and circumstance and complies fully with the legal requirements of the Americans with Disabilities Act. If you are in need of special accommodation, please contact our office at 773-702-1056 or via email at cme@bsd.uchicago.edu.



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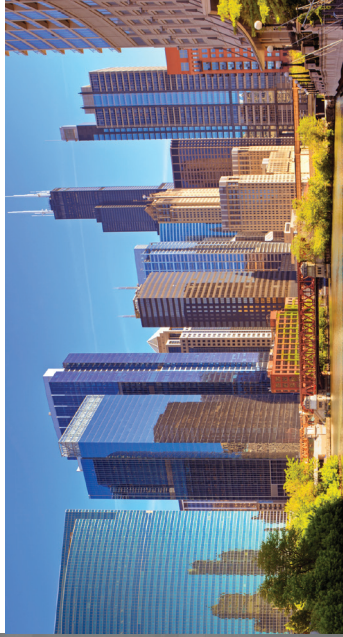
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