



THE UNIVERSITY OF
CHICAGO
MEDICINE &
BIOLOGICAL
SCIENCES

THE UNIVERSITY OF CHICAGO
Department of Radiology

24TH ANNUAL CONFERENCE
**2019 RADIOLOGY
REVIEW**

COURSE DIRECTOR

Daniel E. Appelbaum, MD

“Consistently one of the
best meetings around.”

—2017 Conference Attendee

CME Certified 50
plus SAM credits
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See inside for details.

Register at: cme.uchicago.edu

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2019**

**HYATT CENTRIC CHICAGO
MAGNIFICENT MILE**
633 North St. Clair Street
Chicago, Illinois

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 healthcare economics 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 section — 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 24th iteration of this fantastic meeting and look forward to welcoming you to exciting Chicago!

Course Director,
Daniel E. Appelbaum, MD

Goals and Learning Objectives

The goal of this activity is to provide participants with critical updates in the field of radiology that will improve their competence and improve patient care. At the conclusion of this educational activity, participants will be able to:

- Identify the clinical features of common and less common diseases to create an appropriate differential diagnoses;
- Discuss how both general and subspecialty radiologic imaging techniques lead to the appropriate differential diagnoses of common and less common diseases;
- Detail how the newer imaging methods of breast tomosynthesis, diffusion MR, tractography, cardiac CT/MR, virtual colonoscopy, PET/CT, SPECT/CT, and PET/MR can lead to improved diagnoses;
- Compare the most effective imaging methods of different disease entities;
- Analyze the strengths and limitations of different diagnostic imaging procedures;
- Describe how technology and the greater healthcare system affect the practice of radiology.

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 50 *AMA PRA Category 1 Credits™*. 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 fully qualified by the ABR to award SAM credits.

Educational Grants/Commercial Support

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

Disclosure Declarations

As a provider accredited by the ACCME, The University of Chicago Pritzker School of Medicine asks everyone who is in a position to control the content of an education activity to disclose all relevant financial relationships with any commercial interest. This includes any entity producing, marketing, re-selling, or distributing health care goods or services consumed by or used on patients. The ACCME defines “relevant financial relationships” as financial relationships in any amount occurring within the past 12 months including financial relationships of a spouse or life partner that could create a conflict of interest. Mechanisms are in place to identify and resolve any potential conflict of interest prior to the start of the activity.

Additionally, The University of Chicago Pritzker School of Medicine requires Authors to identify investigational products or off-label uses of products regulated by the US Food and Drug Administration at first mention and where appropriate in the content.

CONFERENCE FACULTY

Chairman

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

Program Director

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

The University of Chicago Faculty Speakers

Osman Ahmed, MD

Assistant Professor of Radiology

Saad Ali, MD

Assistant Professor of Radiology
Director, Spine Neuroradiology

Sanmit K. Basu, MD, MS

Director, Pediatric Cardiac CT-MR
Imaging
Assistant Professor of Pediatrics

Jonathan W. Berlin MD, MBA, FACP

Director of Business Development
Clinical Professor of Radiology
NorthShore University
HealthSystem
University of Chicago Pritzker
School of Medicine

Greg Christoforidis, MD

Professor of Radiology and
Surgery
Section Chief, Neuroradiology

Paul J. Chang, MD, FSIIM

Professor & Vice-Chairman,
Radiology Informatics
Medical Director, Enterprise
Imaging
Medical Director, SOA
Infrastructures

John M. Collins, MD, PhD

Assistant Professor of Radiology
Director, Advanced Neuroimaging

Abraham H. Dachman, MD, FACP

Professor of Radiology
Director, Fellowship Programs

Larry B. Dixon, MD

Associate Professor of Radiology
Director, Musculoskeletal
Advanced Clinical Experience

Kate A. Feinstein, MD, FACP

Professor of Radiology and
Surgery
Vice Chair for Academic Affairs,
Radiology
Section Chief, Pediatric Radiology

Daniel Ginat, MD

Assistant Professor of Radiology
Director, Head & Neck Imaging

Carla Harmath, MD

Assistant Professor of Radiology

Kirti Kulkarni, MD

Associate Professor of Radiology

Luis Landeras, MD

Assistant Professor of Radiology
Associate Director of Cardiac CT
and MR

Jeffrey A. Leef, MD

Associate Professor of Radiology

Heber MacMahon, MB, BCh

Professor of Radiology

Melvy Mathew, MD

Assistant Professor of Radiology

Steven M. Montner, MD

Professor of Radiology

Rakesh Navuluri, MD

Associate Professor of Radiology
IR Integrated Residency Program
Director
IR Independent Residency
Program Director

Seng Ong, MD

Assistant Professor of Radiology
Director, Radiology Residency
Program

Aytekin Oto, MD, MBA

Professor of Radiology and
Surgery
Vice Chair for Business
Development
Section Chief of Abdominal
Imaging
Chief of Body MRI

Amit Patel, MD

Associate Professor of Medicine
and Radiology
Director, Cardiac MR and CT

Pritesh Patel, MD

Assistant Professor of Radiology

David N. Rabin, MD

Assistant Professor of Radiology
NorthShore University
HealthSystem
University of Chicago Pritzker
School of Medicine
Evanston, IL

David Schacht, MD

Associate Professor of Radiology
Section Chief, Breast Imaging
Assistant Program Director,
Radiology Residency

Deepa Sheth, MD

Assistant Professor of Radiology

G. Scott Stacy, MD

Professor of Radiology
Section Chief, Musculoskeletal
Radiology
University of Chicago

Stephen Thomas, MD

Associate Professor of Radiology
University of Chicago

Anatoliy Vaysberg, MD

Neuroradiology Fellow
University of Chicago

Carina Yang, MD

Assistant Professor of Radiology
Director, Pediatric Neuroradiology
Director, Neuroradiology
Fellowship

Steven M. Zangan, MD

Associate Professor of Radiology
Associate Program Director, IR
Integrated Radiology Residency

Mario Zaritzky, MD

Assistant Professor of Radiology

Guest Speakers

David D. Casalino, MD, FACP

Professor of Radiology
Chief, Genitourinary Radiology
Northwestern University
Chicago, IL

Frank H. Miller, MD, FACP

Professor of Radiology
Lee F. Rogers Professor of Medical
Education
Director of Body Imaging
Director of MRI
Northwestern University
Chicago, IL

Sundeep M, Nayak, MD

Senior Physician, The Permanente
Medical Group
Chief of Nuclear Medicine
San Leandro, CA

CONFERENCE AGENDA – 2019

Monday, April 1

- 6:10 am **Registration for Radiology Review and Continental Breakfast**
-
- 7:10 **Welcome**
Daniel E. Appelbaum, MD
-
- Gastrointestinal Moderator:**
Stephen Thomas, MD
-
- 7:15 **Thyroid Nodule Evaluation and Management: Evolving Topics**
David Paushter, MD, FACR
-
- 8:00 **Multidetector CT of Acute GI Hemorrhage**
Stephen Thomas, MD
-
- 8:30 **Body MR: A Practical Approach**
Frank H. Miller, MD, FACR
-
- 9:00 **Solid and Cystic Pancreatic Masses**
Frank H. Miller, MD, FACR
-
- 9:30 **Coffee Break**
-
- 9:45 **Cirrhotic Liver Disease, HCC and MR Elastography**
Frank H. Miller, MD, FACR
-
- 10:30 **CT and MR Enterography**
Aytekin Oto, MD, MBA
-
- 11:00 **Prostate MR**
Aytekin Oto, MD, MBA
-
- 11:45 **Focal Lesions in the Non-Cirrhotic Liver**
Melvy Mathew, MD
-
- 12:15 **Lunch On Your Own**
-
- Nuclear Medicine Moderator:**
Daniel E. Appelbaum, MD
-
- 1:15 **Nuclear Medicine: Applications in the Acute & Emergency Setting**
Sundeep Nayak, MD
-
- 2:30 **Nuclear Medicine: Applications in the Clinic Setting**
Sundeep Nayak, MD
-
- 3:30 **Coffee Break**
-
- 3:45 **Mammography, Breast Ultrasound, and MRI**
David Schacht, MD
-
- 4:40 **Dense Breasts and New Screening Methods**
Deepa Sheth, MD
-
- 5:35 **Radiology Pathology Discordance**
Kirti Kulkarni, MD
-
- 6:30 pm **End of Daily Session**

Tuesday, April 2

- 6:45 am **Continental Breakfast**
-
- Neuroradiology Moderator:**
Greg Christoforidis, MD
-
- 7:15 **Imaging Ischemic Stroke**
Greg Christoforidis, MD
-
- 7:45 **Imaging Hemorrhagic Stroke**
Greg Christoforidis, MD
-
- 8:15 **Trauma and CT of the Head**
Greg Christoforidis, MD
-
- 8:45 **Orbits**
Greg Christoforidis, MD
-
- 9:15 **Coffee Break**
-
- 9:30 **Infectious and Non-infectious Intracranial Inflammatory Disorders**
Greg Christoforidis, MD
-
- 10:15 **Brain Vascular Malformations**
Greg Christoforidis, MD
-
- 10:45 **Degenerative and Inflammatory Diseases of the Spine**
Saad Ali, MD
-
- 11:20 **Spine Tumors**
Saad Ali, MD
-
- 12:00 **Lunch On Your Own**
-
- 1:00 **Approaching Common Intracranial Neoplasms**
Sundeep Nayak, MD
-
- 2:00 **White Matter Diseases**
John M. Collins, MD, PhD
-
- 2:45 **Advanced Neuroimaging: MRS, fMRI, Diffusion Tensor, and Susceptibility**
John M. Collins, MD, PhD
-
- 3:30 **Coffee Break**
-
- 3:45 **Acquired Pediatric Neurologic Disorders**
Carina Yang, MD
-
- 4:15 **Imaging of Head and Neck Squamous Cell Cancers**
Sundeep Nayak, MD
-
- 4:45 **Deep Spaces of the Neck**
Daniel Ginat, MD
-
- 5:30 **Temporal Bone**
Daniel Ginat, MD
-
- 6:00 **Neuroradiology Unknowns**
Anatoliy Vaysberg, MD
-
- 6:30 pm **End of Daily Session**

Wednesday, April 3

6:45 am **Continental Breakfast**

**Pediatric Case-Based Reviews:
Emergency Department Radiology
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 **Coffee Break**

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

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

10:50 **Pediatric Neuroradiology**
Carina Yang, MD

11:30 **Lunch On Your Own**

**Interventional Radiology for the
Diagnostic Radiologist Moderator:**
Jeffrey Leef, MD

12:30 **Venous Interventions and IVC Filters**
Osman Ahmed, MD

1:10 **Interventional Oncology**
Osman Ahmed, MD

1:40 **Non-Vascular Diagnosis and Therapy**
Steven Zangan, MD

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

2:40 **Coffee Break**

Nuclear Medicine Moderator:
Daniel E. Appelbaum, MD

2:55 **PET Imaging: Current Techniques and
New Clinical Tracers**
Daniel E. Appelbaum, MD

3:55 **Skeletal Scintigraphy**
Daniel E. Appelbaum, MD

5:25 **Beyond Metabolic Imaging and
Nuclear Medicine Unknowns**
Daniel E. Appelbaum, MD

6:15 **End of Daily Session**

6:30 **Bonus Option: Contrast Reaction
Simulation Module**
Carina Yang, MD

Thursday, April 4

6:45 am **Continental Breakfast**

Musculoskeletal Moderator:
G. Scott Stacy, MD

7:15 **MR Imaging of the Foot and 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 **Coffee 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:
Abraham H. Dachman, MD, FACR

1:30 **Upper Genitourinary Imaging**
David D. Casalino, MD, FACR

2:15 **Updates in Body CT – Emphasis on DECT**
Pritesh Patel, MD

2:45 **Lower Genitourinary Imaging**
David D. Casalino, MD, FACR

3:30 **Genitourinary Unknowns**
David D. Casalino, MD, FACR

4:00 **Coffee Break**

4:15 **Lower Gastrointestinal Imaging**
Abraham H. Dachman, MD, FACR

4:45 **Virtual Colonoscopy**
Abraham H. Dachman, MD, FACR

5:30 **Rectal Cancer Staging / MRI**
Carla Harmath, MD

6:00 **Gastrointestinal Unknowns**
Carla Harmath, MD

6:30 **End of Daily Session**

Friday, April 5

6:45 am **Continental Breakfast**

Chest Moderator:
Heber MacMahon, MB, BCh

7:15 **Interstitial Lung Disease**
Steven Montner, MD

7:45 **Mediastinum**
Steven Zangan, MD

8:15 **Cystic Lung Disease**
Steven Montner, MD

8:45 **Pulmonary Nodules and Masses**
Heber MacMahon, MB, BCh

9:15 **Coffee Break**

9:30 **MDCT and Pulmonary Embolism**
Heber MacMahon, MB, BCh

10:00 **Chest Unknowns**
Heber MacMahon, MB, BCh

10:45 **Addressing Radiology Burnout**
Jonathan Berlin, MD, MBA, FACR

11:15 **Artificial Intelligence in Radiology:
A Reality Check**
Paul J. Chang, MD, FSIRM

12:15 **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, M.D

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

3:15 **Coffee Break**

Cardiac Moderator:
Amit Patel, MD

3:30 **Evaluation of LV Function: Cardiac MRI**
Amit Patel, MD

3:50 **Myocardial Tissue Characterization and
Nonischemic CMP: Cardiac MRI**
Luis Landeras, MD

4:10 **Ischemic Heart Disease: Cardiac MRI**
Amit Patel, MD

4:30 **Coronary Artery Disease: Cardiac CT**
Amit Patel, MD

4:50 **Structural Heart Disease (including TAVR,
LAA occluder, and MitraClip): Cardiac CT**
Luis Landeras, MD

5:10 **Cardiac Masses**
Luis Landeras, MD

5:30 **Congenital Heart Disease**
Sanmit Basu, MD

6:00 pm **Adjourn**

Agenda subject to modification without notice.

Location and Accommodations

We are excited and pleased to be returning to Hyatt Centric Chicago Magnificent Mile in 2019! At the Hyatt Centric Chicago Magnificent Mile you are in the heart of Chicago, steps from Michigan Avenue, the Gold Coast neighborhood, and Lake Michigan. This classic urban hotel is a symbol of hospitality on The Magnificent Mile. We are pleased to offer a special discounted rate of \$169 per night for single or double occupancy. Room reservations must be made by March 8, 2019 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 p.m. and check-out time is 12 p.m. Cancellations must be received 24 hours prior to arrival or one 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 2019 event or book online at: <https://book.passkey.com/go/UnivChicagoRadiology19>

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 INFORMATION

How To Register

 **ONLINE** <https://cme.uchicago.edu/RadiologyReview2019>
(credit card payment only)

To pay by check, you must mail this registration form with payment to:

 **MAIL** The University of Chicago
Department of Radiology
c/o Lee Brauer
Radiology Review 2019
5841 S. Maryland Ave, MC 2026
Chicago, IL 60637
(Fax verification letter to 773.702.1161 Attn: Lee Brauer)

 **Contrast Reaction Management Simulation Module**—Again this year we will offer an additional live, active simulation module for Contrast Reaction Management, led by Dr. Carina Yang. Registration will open soon and will be limited. If interested please call 773-702-3550.

Registration Fee

The \$1425 registration fee includes: conference registration, continental breakfast, refreshment breaks, and a comprehensive electronic syllabus. The conference fee for residents and military, with letter of verification, is \$1000. 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.

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Physicians and Scientists	\$1425 \$1475
Residents/Fellows/Military (Fax verification letter to 773.702.1161)	\$1000 \$1050

Contact Information

Name _____ Degree _____

Specialty _____

Organization _____

Preferred Mailing Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

- Check enclosed (US funds only), payable to The University of Chicago (Tax ID#36-2177139)
 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 _____

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 March 15, 2019. **No refunds will be issued after March 16, 2019.**

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 773.702.3550.

For additional information about this activity, please contact Lee Brauer at 773.702.3550.