

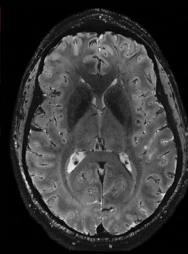
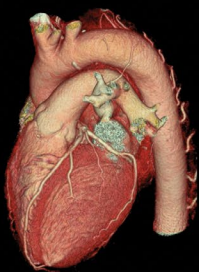


2019 Duke Review Course

A comprehensive radiology immersion

March 2-8, 2019

Sheraton Imperial Hotel • Research Triangle Park, NC



DukeHealth

Duke Review Course 2019

COURSE DESCRIPTION

The Duke Review Course provides a comprehensive review of diagnostic radiology provided by the faculty of Duke Radiology.

The course is designed for radiology senior residents as well as practicing radiologists looking for a comprehensive review and state-of-the-art update of general radiology.

TARGET AUDIENCE

Senior radiology residents and practicing radiologists.

LEARNING OBJECTIVES

Upon completion of this course, participants should be able to:

- ♦ Identify and discuss the latest modalities and techniques being used in the field of Diagnostic Radiology
- ♦ Discuss differential diagnoses of common disease processes as they are seen on radiographic images
- ♦ Demonstrate compliance with various governing agencies to sustain accreditation, licensing and board certification requirements

COURSE DIRECTORS

- ♦ **Charles M. Maxfield, M.D.**
- ♦ **Michael Malinzak, M.D., Ph.D.**

ACCREDITATION



DukeHealth



In support of improving patient care, Duke University Health System Department of Clinical Education & Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.

CREDIT STATEMENT

Duke University Health System Department of Clinical Education & Professional Development designates this educational activity for a maximum of **50 AMA PRA Category 1 Credit(s)TM**. Physicians should claim only credit commensurate with the extent of their participation in the activity.



Lecture Schedule

MARCH

2 Saturday

12:30 p.m.

WELCOME

BREAST IMAGING

12:35 – 2:20 p.m.

**BI-RADS and the Management
of Mammographic Abnormalities**

Jay Baker, M.D.

2:20 – 2:30 p.m.

BREAK

2:30 – 3:35 p.m.

Breast Imaging – The Rest of the Story

Karen Johnson, M.D.

3:35 – 3:45 p.m.

BREAK

3:45 – 5:15 p.m.

Physics: X-Ray

Joseph Lo, Ph.D.

5:15 – 5:25 p.m.

BREAK

5:25 – 6:30 p.m.

Physics: X-Ray Cont'd

Joseph Lo, Ph.D.

MARCH

3 Sunday

7:00 – 7:30 a.m.

Continental Breakfast

INTERVENTIONAL

7:30 – 7:50 a.m.

Peripheral Interventional Radiology I

James Ronald, M.D.

7:50 – 8:05 a.m.

Mesenteric Arteriography & Intervention

Paul Suhocki, M.D.

8:05 – 8:25 a.m.

Venous Disease and Management

Paul Suhocki, M.D.

Speakers and schedule subject to change

MARCH

3

Sunday

INTERVENTIONAL

8:25 – 8:50 a.m.

Nonvascular Interventions

Charles Kim, M.D.

8:50 – 9:00 a.m.

BREAK

9:00 – 9:15 a.m.

Portal Venous Intervention

Jonathan Martin, M.D.

9:15 – 9:40 a.m.

Interventional Oncology

Alan Sag, M.D.

9:40 – 10:00 a.m.

Peripheral Interventional Radiology II

Tony Smith, M.D.

10:00 – 10:20 a.m.

Basics of Cerebral Angiography

Tony Smith, M.D.

10:20 – 10:30 a.m.

BREAK

10:30 – 11:15 a.m.

Quality Control & Safety

Rajan Gupta, M.D.

11:15 a.m. – 12:15 p.m.

Physics: Radiation Biology & Safety

Robert Reiman Jr., M.D.

12:15 – 1:15 p.m.

LUNCH

NEURORADIOLOGY

1:15 – 2:00 p.m.

Temporal Bones & Skull Base

Jenny Hoang, M.D.

2:00 – 2:30 p.m.

Head & Neck Radiology

James Eastwood, M.D.

2:30 – 3:00 p.m.

Congenital Anomalies of the Brain

Michael Malinzak, M.D.

3:00 – 3:10 p.m.

BREAK

Speakers and schedule subject to change

MARCH

3

Sunday

NEURORADIOLOGY

3:10 - 3:55 p.m.

Practical Approach to Brain Tumors

David Enterline, M.D.

3:55 - 4:40 p.m.

Cerebrovascular Disease

Daniel Barboriak, M.D.

4:40 - 5:00 p.m.

Central Nervous System Infections

James Provenzale

5:00 - 5:25 p.m.

Diseases of White Matter

James Provenzale, M.D.

MARCH

4

Monday

7:00 - 7:30 a.m.

Continental Breakfast

7:30 - 8:05 a.m.

Imaging of the Orbits

Tim Amrhein, MD

8:05 - 8:35 a.m.

Imaging of the Spine — Extradural Disease

Timothy Amrhein, M.D.

8:35 - 9:15 a.m.

Intradural & Intramedullary Diseases of the Spine

Peter Kranz, M.D.

9:15 - 9:25 a.m.

BREAK

PEDIATRICS

9:25 - 9:55 a.m.

Newborn Chest

Charles Maxfield, M.D.

9:55 - 10:20 a.m.

Pediatric Chest

Gary Schooler, M.D.

Speakers and schedule subject to change

MARCH

4

Monday

PEDIATRICS

10:20 – 10:30 a.m.

BREAK

10:30 – 11:00 a.m.

Pediatric Abdominal Masses

Gary Schooler, M.D.

11:00 – 11:20 a.m.

Neonatal Head & Spine Ultrasound

Jennifer Ngo, M.D.

11:20 – 12:00 p.m.

Peds Gastrointestinal Imaging

Caroline Carrico, M.D.

12:00 – 1:00 p.m.

LUNCH

1:00 – 1:35 p.m.

Pediatric Uroradiology

Caroline Carrico, M.D.

NUCLEAR MEDICINE

1:35 – 2:35 p.m.

Physics: Nuclear Medicine

Tim Turkington, Ph.D.

2:35 – 2:45 p.m.

BREAK

2:45 – 3:05 p.m.

Nuclear Cardiology

Salvador Borges-Neto, M.D.

3:05 – 3:35 p.m.

Inflammation, Infection, and Non-PET Tumor Imaging

Salvador Borges-Neto, M.D.

3:35 – 4:05 p.m.

PET CT

Olga James, M.D.

4:05 – 4:30 p.m.

V/Q Imaging

Brandon Howard, M.D., Ph.D.

4:30 – 4:55 p.m.

Endocrine Imaging/Brain/CNS Imaging

Brandon Howard, M.D.

4:55 – 5:15 p.m.

Scintigraphic Studies of the Genitourinary Tract

Michael Hanson, M.D.

5:15 – 5:25 p.m.

BREAK

Speakers and schedule subject to change

MARCH

4

Monday

NUCLEAR MEDICINE

5:25 – 5:45 p.m.

Hepatobiliary & GI Scintigraphic Studies

Michael Hanson, M.D.

5:45 – 6:25 p.m.

Musculoskeletal Scintigraphy

Olga James, M.D.

MARCH

5

Tuesday

7:00 – 7:30 a.m.

CONTINENTAL BREAKFAST

7:30 – 9:30 a.m.

Physics: MR

Mustafa Bashir M.D.

9:30 – 9:40 a.m.

BREAK

MUSCULOSKELETAL

9:40 – 10:20 a.m.

Pediatric Skeletal Radiology

Charles Maxfield, M.D.

10:20 – 10:55 a.m.

Orthopedic Trauma

Thomas Farmer, M.D.

10:55 – 11:25 a.m.

Metabolic Bone Disease

Emily Vinson, M.D.

11:25 – 12:00 p.m.

Musculoskeletal Miscellany

Emily Vinson, M.D.

12:00 – 1:00 p.m.

LUNCH

1:00 – 1:30 p.m.

MRI of the Shoulder

Lee Cothran, M.D.

1:30 – 1:45 p.m.

MSK Ultrasound

Nicholas Said, M.D., MBA

1:45 – 2:30 p.m.

MRI of the Knee

Lee Cothran, M.D.

2:30 – 3:00 p.m.

Malignant Skeletal Tumors

Charles Spritzer, M.D.

Speakers and schedule subject to change

MARCH

5

Tuesday

MUSCULOSKELETAL

3:00 – 3:10 p.m.

BREAK

3:10 – 3:50 p.m.

Benign Lytic Bone Lesions

Clyde Helms, M.D.

3:50 – 4:30 p.m.

Radiology of Arthritis

Clyde Helms, M.D.

5:00 – 7:00 p.m.

MULTIPLE CHOICE QUESTION REVIEW

MARCH

6

Wednesday

7:00 – 7:30 a.m.

CONTINENTAL BREAKFAST

7:30 – 8:20 a.m.

Practical IT

Christopher Roth, M.D.

CARDIAC IMAGING

8:20 – 9:10 a.m.

Cardiac Imaging: A Pattern-Based Approach – Part

Laura Heyneman, M.D.

9:10 – 9:20 a.m.

BREAK

9:20 – 9:50 a.m.

Imaging Coronary Artery Disease

Lynne Hurwitz, M.D.

9:50 – 10:30 a.m.

Cardiac Imaging: A Pattern-Based Approach – Part 2

Tina Taylor, M.D.

10:30 – 10:40 a.m.

BREAK

10:40 – 11:20 a.m.

Aortic Disease

Jared Christensen, M.D.

11:20 – 12:10 p.m.

Airway Disease

Joseph Mammarappallil, M.D., Ph.D.

12:10 – 1:10 p.m.

LUNCH

Speakers and schedule subject to change

MARCH

6

Wednesday

CARDIAC IMAGING

1:10 – 1:45 p.m.

Airspace Disease

Joseph Mammarappallil, M.D., Ph.D

1:45– 2:15 p.m.

Congenital Heart Disease

Joseph Davis, M.D.

2:15 – 2:45 a.m.

Mediastinum

Jared Christensen, M.D.

2:45 – 2:55 p.m.

BREAK

2:55 – 3:40 p.m.

Interstitial Lung Disease – Part 1

H. Page McAdams, M.D.

3:40 – 4:10 p.m.

Pulmonary Nodules

Lacey Washington, M.D.

4:10 – 4:55 p.m.

Interstitial Lung Disease – Part 2

H. Page McAdams, M.D.

4:55 – 5:15 p.m.

Pleural Disease

Lacey Washington, M.D.

MARCH

7

Thursday

7:00 – 7:30 a.m.

CONTINENTAL BREAKFAST

7:30 – 9:00 a.m.

Physics: CT

Rendon Nelson, M.D./Daniele Marin, M.D.

9:00 – 9:10 a.m.

BREAK

ABDOMINAL IMAGING

9:10 – 9:55 a.m.

Liver & Splenic Imaging

Rendon C. Nelson, M.D.

9:55 – 10:10 a.m.

Non-Vascular Intervention

Daniele Marin, M.D.

Speakers and schedule subject to change

MARCH

7

Thursday

ABDOMINAL IMAGING

10:10 – 10:40 a.m.

Non-Invasive Imaging of the Biliary System

Mustafa Bashir, M.D.

10:40 – 10:50 a.m.

BREAK

10:50 – 11:20 a.m.

Imaging of Pancreatic Disease

Mustafa Bashir, M.D.

11:20 – 11:50 a.m.

Small Bowel & Colon

Tracy Jaffe, M.D.

11:50 – 12:20 p.m.

Acute Abdomen

Brian Allen, M.D.

12:20 – 1:20 p.m.

LUNCH

1:20 – 1:50 p.m.

Esophagus to Stomach

Brian Allen, M.D.

1:50 – 2:35 p.m.

Renal Masses/Infection

Richard A. Leder, M.D.

2:35 – 3:05 p.m.

Radiology of the Adrenals & Retroperitoneum

Lisa Ho, M.D.

3:05 – 3:15 p.m.

BREAK

3:15 – 3:30 p.m.

Imaging of the Ureters, Bladder & Urethra

Lisa M. Ho, M.D.

3:30 – 4:00 p.m.

MR of the Female Pelvis

Tracy Jaffe, M.D.

4:30 – 6:30 p.m.

MULTIPLE CHOICE QUESTION REVIEW

MARCH

8

Friday

7:00 – 7:30 a.m.

CONTINENTAL BREAKFAST

ULTRASOUND

7:30 – 8:30 a.m.

Physics: Ultrasound

Chad Miller, M.D.

8:30 – 9:00 a.m.

Vascular Ultrasound

Chad Miller, M.D.

9:00 – 9:10 a.m.

BREAK

9:10 – 9:40 a.m.

GYN US

Sujata Ghate, M.D.

9:40 – 10:25 p.m.

Ultrasound of the Abdomen

Clare Haystead, M.D.

10:25 – 11:15 a.m.

Ultrasound of 1st Trimester & Ectopic Pregnancy

Sujata Ghate, M.D.

11:15 – 11:30 a.m.

BREAK

11:30 a.m. – 12:00 p.m.

Ultrasound of Thyroid & Scrotum

Clare Haystead, M.D.

12:00 – 12:45 p.m.

2nd & 3rd Trimester Obstetric Ultrasound

Sujata Ghate, M.D.



Faculty

ABDOMINAL IMAGING

Brian Allen, M.D.

Associate Professor

Mustafa Bashir, M.D.

Associate Professor

Wendy Ehieli, M.D.

Medical Instructor

Sujata Ghate, M.D.

Associate Professor

Rajan Gupta, M.D.

Associate Professor

Clare Haystead, M.D.

Assistant Professor

Barbara Hertzberg, M.D.

Professor

Lisa Ho, M.D.

Associate Professor

Tracy Jaffe, M.D.

Professor

Richard Leder, M.D.

Associate Professor

Daniele Marin, M.D.

Associate Professor

Chad Miller, M.D.

Assistant Professor

Rendon Nelson, M.D.

Professor

Benjamin Wildman-Tobriner, M.D.

Assistant Professor

BREAST IMAGING

Jay Baker, M.D.

Professor

Karen Johnson, M.D.

Assistant Professor

CARDIOPULMONARY/ CARDIOVASCULAR

Jared Christensen, M.D.

Associate Professor

Laura Heyneman, M.D.

Professor

Lynne Hurwitz Koweek, M.D.

Associate Professor

Joseph Mammarappallil, M.D., Ph.D.

Assistant Professor

H. Page McAdams, M.D.

Professor

Tina Tailor, M.D.

Assistant Professor

E. Lacey Washington

Associate Professor

INTERVENTIONAL

Charles Kim, M.D.

Associate Professor

Jonathan Martin, M.D.

Assistant Professor

James Ronald, M.D., Ph.D.

Assistant Professor

Alan Sag, M.D.

Assistant Professor

Tony P. Smith, M.D.

Professor

Paul Suhocki, M.D.

Associate Professor



Faculty

MUSCULOSKELETAL

R. Lee Cothran, M.D.

Assistant Professor

Thomas Farmer, M.D.

Assistant Professor

Robert French, M.D.

Assistant Professor

Clyde Helms, M.D.

Consulting Professor

Erin McCrum, M.D.

Medical Instructor

Nicholas Said, M.D., MBA

Assistant Professor

Charles Spritzer, M.D.

Professor

Emily Vinson, M.D.

Assistant Professor

NEURORADIOLOGY

Timothy Amrhein, M.D.

Assistant Professor

Daniel Barboriak, M.D.

Professor

James Eastwood, M.D.

Associate Professor

David Enterline, M.D.

Associate Professor

Linda Gray, M.D.

Associate Professor

Jenny Hoang, MBBS

Associate Professor

Peter Kranz, M.D.

Associate Professor

Michael Malinzak, M.D., Ph.D.

Medical Instructor

Co-Course Director

James Provenzale, M.D.

Professor

Christopher Roth, M.D.

Associate Professor

NUCLEAR MEDICINE

Salvador Borges-Neto, M.D.

Professor

Michael Hanson, M.D.

Professor

Brandon Howard, M.D., Ph.D.

Assistant Professor

Olga James, M.D.

Assistant Professor

Terence Wong, M.D., Ph.D.

Professor

PEDIATRICS

Caroline Carrico, M.D.

Associate Professor

Joseph Davis, M.D.

Assistant Professor

Gary Schooler, M.D.

Assistant Professor

Charles Maxfield, M.D.

Professor, Co-Course Director

Jennifer Ngo, M.D.

Assistant Professor

PHYSICS

Joseph Lo, Ph.D.

Professor

Robert Reiman, M.D.

Associate Professor

Timothy Turkington, Ph.D.

Associate Professor

All faculty are members of the Duke Department of Radiology.



Duke University Medical Center
Durham, North Carolina
www.radiology.duke.edu



Duke Review Course 2019

COURSE FEE

	<u>On or prior to 2/2/19</u>	<u>After 2/2/19</u>
♦ Practicing Radiologists	\$1,450	\$1,525
♦ Military/VA/Retired Radiologists	\$1,000	\$1,075
♦ Residents/Fellows	\$950	\$1,025

Fees include all continental breakfasts, breaks, and lunches.

In an effort to be more environmentally conscious, we will **ONLY** distribute syllabus electronically. You are encouraged to bring your laptop or other device to follow along. All seats are equipped with power strips for your convenience.

A \$100 administrative fee will be assessed on all refunds prior to **2/16/2019**. After that date, no refund will be made.

For more information contact: **Debbie Griffin**
Administrative Coordinator
919.684.7228
deborah.griffin@duke.edu

PRACTICING RADIOLOGISTS

Practicing radiologists are assigned to a spacious and comfortable auxiliary conference room with tiered seating. Seating is limited to 100 persons. When room capacity is reached, you would be assigned to the larger conference room. The lectures are projected via a live audio/video feed from the main conference room. Practicing radiologists will have ample access to the faculty for questions after each session.

Breakfast and breaks are served directly in the private auxiliary conference room.



Duke Review Course 2019

REGISTRATION

Registration and payment is easy with one of three convenient options:

- ♦ Register and pay online at **radiology.duke.edu /CME/duke-review-course-2019** with a credit card.
- ♦ Download the registration form and fax with complete credit card information to: **919.660.1769**
- ♦ Download the registration form from the website and mail with check payable to Duke University to:

Duke University Conference Services
Radiology Review Course
0066 Bryan University Center, Box 90841
Durham, NC 27708-0841

Early registration is recommended as the course fills to room capacity.

No on site registration is available.

Course materials will be available outside the conference room on **Saturday, March 2 beginning at 9 a.m.**

TRAVEL ARRANGEMENTS

The area is served by the Raleigh-Durham International Airport.



Duke Review Course 2019

ACCOMMODATIONS

The meeting is conveniently located at the Sheraton Imperial Hotel & Convention Center in Research Triangle Park, only 5 minutes away from the Raleigh-Durham International Airport (RDU) located between Durham (the “City of Medicine”: home of Duke University), Raleigh (capital of North Carolina) and Chapel Hill.

A block of discounted rooms is available at the Sheraton Imperial Hotel & Convention Center for the Review Course. The hotel houses two restaurants and has a 30,000 square foot athletic facility and adjacent lighted fitness trail. Airport transportation is provided by the hotel. Van service to nearby locales in the evening is provided for registrants.

Reservations can be made at www.radiology.duke.edu (click on the Duke Review Course link and select Hotel Reservation) or by contacting the hotel directly.

Sheraton Imperial Hotel

4700 Emperor Blvd Durham, NC 27703

919.941.5050

www.sheratonrtp.com

\$144 single/double per night | \$225 Club Level

OTHER NEARBY LODGING

- ♦ Springhill Suites by Marriott: 919.998.9500
- ♦ Comfort Suites – RTP: 919.314.4949
- ♦ Wingate Inn: 919.941.2854
- ♦ Sleep Inn Hotel: 919.933.3393
- ♦ Hilton Raleigh-Durham Airport – RTP: 919.941.6000

AREA & WEATHER

The weather in April is beautiful! Average high temperatures in the spring are in the mid 70s with nightly lows in the 40-50s. Lightweight clothing is the preferred dress during the day with possibly a sweater or light jacket in the evenings and early mornings.

The meeting room is typically cool – Bring a sweater!

Duke Review Course 2019



DISCLOSURE

It is the policy of the Duke University Health System Clinical Education & Professional Development to require the disclosure of anyone who is in a position to control the content of an educational activity. All relevant financial relationships with any commercial interests and/or manufacturers must be disclosed to participants at the beginning of each activity.

RESOLUTION OF CONFLICTS OF INTEREST

Duke University Health System Clinical Education & Professional Development has implemented a process to resolve any potential conflicts of interest for each continuing education activity in order to help ensure content objectivity, independence, fair balance, and the content that is aligned with the interest of the public.

DISCLAIMER

The information provided at this educational activity is for continuing medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition.

SPECIAL NEEDS STATEMENT

The Duke Department of Radiology is committed to making its activities accessible to all individuals. If you are in need of an accommodation, please do not hesitate to call and/or submit a description of your needs in writing in order to receive service.