



MASSACHUSETTS  
GENERAL HOSPITAL



BRIGHAM AND  
WOMEN'S HOSPITAL

DEPARTMENTS OF RADIOLOGY



HARVARD  
MEDICAL SCHOOL

Tuesday - Saturday, April 7 - 11, 2015

# MGH/BWH RADIOLOGY REVIEW 2015

*An Intensive Review of Radiology Through a  
Series of Lectures and Case Review Sessions*

Program Co-Directors

Theresa C. McCloud, MD

Barbara N. Weissman, MD

## **FEATURING**

**WEDNESDAY AND FRIDAY  
EVENING ADVANCED CASE SESSIONS**

**THURSDAY EVENING  
CONTRAST CRISIS SIMULATION WORKSHOP**

To be held at the Simulation Center at MGH  
Advanced Sign-up Required and Limited Enrollment  
(20 participants on first come first serve basis)

**Boston Marriott Long Wharf**  
Boston, Massachusetts

## COURSE DESCRIPTION

This course is designed to provide a comprehensive and practical review of contemporary diagnostic imaging. Optimal imaging and image interpretation of usually encountered conditions are reviewed. Pitfalls in image interpretation, including MRI artifacts are explained and methods to avoid them are discussed. In addition to lectures, multiple case presentation sessions are provided that show examples of “must know” and “advanced” cases. An audience response system will be utilized to facilitate participation. Self-assessment modules (SAMS) will be provided tailored to the course material.

Awareness of procedure costs in terms of radiation dose, safety, and contrast utilization is essential to choose and tailor examinations appropriately. These aspects of imaging are addressed in sessions including lectures on dose reduction in CT, MRI safety, and appropriate contrast utilization. Newer imaging modalities (such as dual energy CT) and newer therapies are discussed. Non-interpretative skills are essential in radiology. Such knowledge is a requirement for initial board certification and maintenance of certification. The course will address such issues as health care reform, peer review and structured reporting.

A physician's ability to respond effectively to contrast crisis situations will be addressed by providing didactic information followed by an optional simulation workshop. This specialized workshop gives participants the opportunity to perform and practice critical life saving procedures in response to emergencies that may be encountered in routine practice, such as bronchospasm, anaphylaxis, and hypotension/tachycardia. This is a hands-on workshop and advanced registration is necessary.

## OBJECTIVES

*Upon completion of this activity, participants will be able to:*

- Interpret imaging findings in normal and various abnormal conditions
- Select the appropriate imaging modalities for evaluation of patients with a variety of disorders
- Select appropriate studies and interpret newer imaging studies (modalities) for various conditions
- Recognize and be prepared to treat common types of contrast reactions
- Identify and incorporate methods for reducing radiation dose from CT scanning
- Identify and implement strategies to reduce artifacts associated with MR imaging

## ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 42.50 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

*AMA PRA Category 1 Credits*<sup>™</sup> claimed by physicians attending live events certified and organized in the United States for *AMA PRA Category 1 Credits*<sup>™</sup> can be claimed through the agreement on mutual recognition of credits between UEMS and AMA, considered as being equal to the European Continuous Medical Education Credits (ECMEC<sup>©</sup>) granted by the UEMS.

One *AMA PRA Category 1 Credits*<sup>™</sup> is equivalent to one (1) hour of European EACCME Credit (ECMEC<sup>©</sup>), therefore up to 42.50 ECMEC<sup>©</sup> Credits are available. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

## ACGME COMPETENCIES

This course is designed to meet one or more of the following Accreditation Council of Graduate Medical Education competencies:

- Patient Care
- Medical Knowledge
- Practice-based Learning and Improvement
- Interpersonal and Communication Skills
- System-based Practice
- Professionalism

## REGISTRATION INFORMATION

- Physicians \$1,175.00
- Physician fee plus crisis simulation \$1,375.00
- Residents/Fellows and Allied Health Professionals \$800.00
- Resident/Fellows/Allied Health plus Crisis Simulation \$950.00

Registration by credit card (VISA, MasterCard or American Express) can be made at [www.cme.hms.harvard.edu/courses/mghbwh](http://www.cme.hms.harvard.edu/courses/mghbwh).

Registration by check (draft on a United States bank), please make payable to Harvard Medical School and mail with registration form to Harvard Medical School, P.O. Box 417476, Boston, MA 02241-7476. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your paid registration an email confirmation from the HMS-DCE office will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information including registration confirmation, evaluation and certificate.

## INQUIRIES

By phone (617-384-8600), Mon - Fri, 9 am to 5 pm (ET) or by email at: [hms-cme@hms.harvard.edu](mailto:hms-cme@hms.harvard.edu).

## DISCLOSURE POLICY

Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

## TUITION REFUND POLICY

Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received by postal mail, email, or fax. No refund will be issued should cancellation occur less than two weeks prior. "No shows" are subject to the full course fee and no refunds will be issued once the conference has started.

## COURSE LOCATION / ACCOMMODATIONS/TRAVEL

All sessions for this course will be held at Boston Marriot Long Wharf, 296 State Street, Boston, MA. 02109-2607.

A limited number of rooms have been reserved at the Boston Marriot Long Wharf, 1-800-228-9290 or 617-227-0800 until Friday, March 13, 2015. The standard room rate for the course at the Boston Marriott Long Wharf is \$289 per night, not including taxes. Please specify that you are enrolled in the MGH/BWH Radiology Review Course.

Please do not purchase non-refundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact the HMS Travel Desk toll free 1-877-4-HARVMD (1-877-442-7863) Monday to Friday 9 a.m. to 8 p.m. (EST). From outside the U.S., Canada and Virgin Islands, please call 1-617-559-3764.

## TUESDAY APRIL 7, 2015

7:00	Registration/Continental Breakfast	
7:50	<b>Welcome</b>	<b>Dr Theresa C McLoud</b>
<b>THORACIC IMAGING</b>		
		<b>Moderator - Theresa C McLoud, MD, FACR</b>
8:00-8:40	Must-Know Chest Cases	Amita Sharma, MD
<b>SAM 1: THORACIC IMAGING</b>		
8:40-9:10	Interstitial Lung Disease	Theresa C McLoud, MD, FACR
9:10-9:40	Airways	Subba R Digumarthy, MD
9:40-10:00	5 minute Q&A then Break	
10:00-10:30	Critical Care Radiology	Florian Fintelmann, MD
10:30-11:00	Lung Cancer, Nodules	Beatrice Trotman-Dickenson, MD
11:00-11:40	Pulmonary Infections	Gerald F Abbott, MD
11:40-12:00	Q&A	
12:00 - 1:15	LUNCH ON OWN	
<b>CARDIAC and BREAST IMAGING</b>		
		<b>Moderator - Catherine S Giess, MD</b>
1:15-1:45	Must Know Cardiac Cases	Michael L Steigner, MD
1:45-2:15	Cardiac Imaging in the ER – Acute Chest Pain	Brian B Ghoshhajra, MD
2:15-2:45	Acquired Heart Disease	Marcelo F Di Carli, MD
2:45-3:05	Q&A/Break	
3:05-3:30	Breast Ultrasound	Catherine S Giess, MD
3:30-4:15	Breast Masses and Calcification	Daniel B Kopans, MD
4:15-4:45	MRI of the Breast	Bethany L Niell, MD, PhD
4:45-5:15	Must Know Breast Cases	Phoebe E Freer, MD
5:15	ADJOURN	

## WEDNESDAY APRIL 8, 2015

7:00	Continental Breakfast	
<b>MUSCULOSKELETAL IMAGING</b>		
		<b>Moderator - Barbara N Weissman, MD</b>
7:30-8:00	Must-Know Musculoskeletal Cases	Connie Chang, MD
<b>SAM 2: MUSCULOSKELETAL IMAGING</b>		
8:00-8:30	MRI of the Shoulder	William Palmer, MD
8:30-9:00	MRI of the Knee	F Joseph Simeone, MD
9:00-9:30	MRI of the Hip and Ankle	Gregory J Czuczman, MD
9:30-10:00	Q&A/Break	
10:00-10:30	Arthritis	Barbara Weissman, MD
10:30-11:00	MRI of the Bone Marrow	Miriam Bredella, MD
11:00-11:30	Bone Tumors	Daniel I Rosenthal, MD
11:30-12:00	Musculoskeletal Ultrasound	Stacey Smith, MD
12:00-12:15	Q&A	
12:15-1:30	LUNCH	
<b>PEDIATRIC IMAGING</b>		
		<b>Moderator: Michele E Walters, MD</b>
1:30-2:00	Must Know Pediatric Cases	Michele E Walters, MD
2:00-2:30	Pediatric Emergencies	Rick A Fair, MD
2:30-3:00	Pediatric Hip and Knee	Sarah Bixby, MD
3:00-3:30	Q&A/Break	
3:30-4:00	Pediatric GU	Michael S Gee, MD, PhD
4:00-4:30	Pediatric GI	Stephanie DiPerna, MD
4:30-5:00	Practical Pediatric Neuro Imaging	Tina Young Poussaint, MD
5:00-5:30	Pediatric Chest	Edward Y Lee, MD
5:30	ADJOURN until Evening Session	
<b>EVENING (ADVANCED) CASE SESSIONS</b>		
6:30-7:00	Ultrasound Cases	Robin P Goldenson, MD
7:00-7:30	Breast Cases	Eren Yeh, MD
7:30-8:00	Nuclear Medicine Cases	Christopher G Sakellis, MD
8:00	ADJOURN	

Please Note: Program changes/substitutions may be made without notice.

## THURSDAY APRIL 9, 2015

7:00	Continental Breakfast	
<b>ULTRASOUND/PHYSICS/SAFETY</b>		<b>Moderator - Javier M Romero MD</b>
7:30-8:00	Must-Know Ultrasound cases	Anthony E Samir, MD
8:00-8:30	First Trimester Ultrasound	Peter M Doubilet, MD
8:30-9:00	Second and Third Trimester Ultrasound	Mary C Frates, MD
9:00-9:30	Vascular Ultrasound	Javier M Romero, MD
9:30-9:50	Q&A/Break	
<b>SAM 3: PHYSICS AND SAFETY</b>		
9:50-10:30	CT Basic Physics and New Techniques	Raj Gupta, MD
10:30-11:00	Reducing CT Dose	Mannudeep K Kalra, MD
11:00-11:30	MRI Safety and MR Artifacts	Susie Huang, MD
11:30-11:45	Q&A	
11:45-1:00	LUNCH	
<b>NEURORADIOLOGY/SAFETY</b>		<b>Moderator - Sandra P Rincon, MD</b>
1:00-1:45	Eyes, Ears Nose and Throat	Mary E Cunnane, MD
1:45-2:30	The Spine	Pamela W Schaefer, MD
2:30-3:15	Stroke – Diagnosis and Management	Michael Lev, MD, FAHA FACR
3:15-4:00	Contrast and Crisis Management	Srinivasan Mukundan Jr, MD
4:00	ADJOURN until Evening Session	
<b>EVENING SESSION: CONTRAST CRISIS SIMULATION WORKSHOP</b>		
6:00-8:00	To be held at the Simulation Center at MGH -- Advanced Sign-up Required and Limited Enrollment (20 participants on first come first serve basis)	

## FRIDAY, APRIL 10, 2015

7:00	Continental Breakfast	
<b>ABDOMINAL IMAGING</b>		<b>Moderator - Michael J Shortsleeve, MD, FACR</b>
7:30-8:00	Upper GI Disorders – Must-Know Cases	Michael J Shortsleeve, MD, FACR
8:00-8:30	Disorders of the Colon: Must Know Fluoroscopy Cases	Francis J Scholz, MD
8:30-9:00	Abdominal Ultrasound	Sara M Durfee, MD
9:00-9:30	Abdominal PET/CT	Michael Blake, MD
9:30-10:00	Q&A/Break	
<b>SAM 4: ABDOMINAL IMAGING</b>		
10:00-10:30	Imaging the Liver and Bile Ducts	V Anik Sahni, MD
10:30-11:00	Imaging the Pancreas	Dushyant Sahani, MD
11:00-11:30	Kidneys and Adrenals	Stuart G Silverman, MD
11:30-11:45	Q&A	
11:45-1:30	LUNCH	
<b>REPRODUCTIVE/ENDOCRINE IMAGING</b>		<b>Moderator - Cheryl A Sadow, MD</b>
1:30-2:00	Uterine and Ovarian Ultrasound	Hope E Peters, MD
2:00-2:30	Uterus: MRI/Hysterosalpingography	Cheryl A Sadow, MD
2:30-3:00	MRI of Third Trimester Fetus	P Ellen Grant, MD
3:00-3:30	Q&A /Break	
3:30-4:00	Imaging the Bladder, Ureters, Urethra	Cheryl A Sadow, MD
4:00-4:30	Testicular Ultrasound	Howard T Heller, MD
4:30-5:00	Thyroid Ultrasound	Carol B Benson, MD
5:00-5:15	Q&A	
5:15	ADJOURN until Evening Session	
<b>EVENING (ADVANCED) CASE SESSIONS</b>		
6:15-6:45	Musculoskeletal Cases	Susan V Kattapuram, MD
6:45-7:15	Chest Cases	Matthew Gilman, MD
7:15-7:45	Neuro Cases	Sandra P Rincon, MD
7:45	ADJOURN	

Please Note: Program changes/substitutions may be made without notice.

## SATURDAY APRIL 11, 2015

7:00	Continental Breakfast	
<b>EMERGENCY/NON INTERPRETIVE SKILLS</b>		<b>Moderator - Theresa C. McCloud, MD, FACR</b>
7:30-8:00	Must Know Emergency Cases	Laura L Avery, MD
<b>SAM 5: EMERGENCY/NON INTERPRETIVE SKILLS</b>		
8:00-8:30	CNS Trauma	Thomas Ptak, MD
8:30-9:00	Spine Trauma	Varand Ghazikhanian, MD
9:00-9:30	Imaging Abdominal Trauma	Laura L Avery, MD
9:30-9:55	Imaging Chest Trauma	Robert A Novelline, MD, FACR
9:55-10:15	Q&A/BREAK	
10:15-10:45	Communication and Structured Reporting	Giles Boland, MD
10:45-11:15	Decision Support for Radiologists	Daniel I Rosenthal, MD
11:15-11:45	Peer Review – <i>How to do it</i>	Jonathan B Kruskal, MD, PhD
11:45-12:15	Health Care Reform – New Payment Models	Sanjay Saini, MD
12:15-12:30	Q&A	
12:30-1:30	LUNCH	
<b>NUCLEAR MEDICINE</b>		<b>Moderator - Umar Mahmood MD, PhD</b>
1:30-2:00	Nuclear Medicine Quality Assurance	Stephen Moore, PhD
2:00-2:45	PET and PET/CT Scanning	Umar Mahmood MD, PhD
2:45-3:15	Bone Scanning	Frederick D Grant, MD
3:15-3:45	Thyroid and Parathyroid Scanning	Chun K. Kim, MD
3:45-4:00	Q&A	
4:00	ADJOURN	

## Harvard Medical School Faculty

Gerald F Abbott, MD	Frederick D Grant, MD	Javier M Romero, MD
Laura L Avery, MD	P Ellen Grant, MD	Daniel I Rosenthal, MD
Carol B Benson, MD	Rajiv Gupta, MD, PhD	Cheryl A Sadow, MD
Sarah D Bixby, MD	Howard T Heller, MD	V Anik Sahni, MD
Giles Boland, MD	Susie Y Huang, MD, PhD	Christopher G Sakellis, MD
Michael A Blake, MD	Andetta R Hunsaker, MD	Pamela W Schaefer, MD
Miriam A Bredella, MD	Susan V Kattapuram, MD	Dushyant Sahani, MD
Connie Y Chang, MD	Manudeep K Kalra, MD	Sanjay Saini, MD
Mary E Cunnane, MD	Jonathan B Kruskal, MD, PhD	Anthony E Samir, MD
Gregory J Czuczman, MD	Chun K Kim, MD	Amita Sharma, MD
Subba R Digumarthy, MD	Daniel B Kopans, MD	Frances J Scholz, MD
Marcelo F DiCarli, MD	Edward Y Lee, MD, MPH	Michael J Shortsleeve, MD, FACR
Stephanie DiPerna, MD	Michael H Lev, MD, FAHA FACR	Stuart G Silverman, MD, FACR
Peter M Doubilet, MD, PhD	Umar Mahmood, MD, PhD	F Joseph Simeone, MD
Sara M Durfee, MD	Theresa C McCloud, MD, FACR	Kirstin M Small, MD
Rick A Fair, MD	Stephen C Moore, PhD	Stacey Smith, MD
Florian J Fintelmann, MD	Srinivasan Mukundan, Jr, MD, PhD	Michael L Steigner, MD
Mary C Frates, MD, FACR	Bethany L Niell, MD, PhD	Beatrice Trotman-Dickenson, MD
Phoebe E Freer, MD	Robert A Novelline, MD, FACR	Michele M Walters, MD
Michael S Gee, MD, PhD	William E Palmer, MD	Barbara N Weissman, MD
Varand Ghazikhanian, MD, MS	Robin Goldenson Perlmutter, MD	Eren D Yeh, MD
Brian B Ghoshhajra, MD	Hope E Peters, MD	Tina Young Poussaint, MD, FACR
Catherine S Giess, MD	Thomas Ptak, MD, PhD	
Matthew D Gilman, MD	Sandra P Rincon, MD	

# MGH/BWH Radiology Review 2015

April 7-11, 2015

Registration Form

Class #352358

## TUITION FEES

Physician	\$1,175.00 (USD)	Residents/Fellows in Training/Technologists/ Allied Health Professionals	\$800.00 (USD)
Physician plus crisis simulation	\$1,375.00 (USD)	Residents/Fellows in Training/Technologists/ Allied Health Professionals plus crisis simulation	\$950.00 (USD)

PLEASE PRINT CLEARLY - All fields are required.

Full Name

First Middle Initial Last

Address

Street City State Zip Code

Please note: Your email address is used for critical information about the course including: registration confirmation, course evaluation and certificate. Please be sure to include an email address you check daily or frequently.

Daytime Phone

Fax #

E-Mail

Please check if you want to be excluded from receiving email notices of future Harvard Medical School - Department of Continuing Education programs.

Profession

Primary Specialty (Physicians Only)

Degree

Board Certified:

Yes  No

Professional School Attended  
(Physicians Only)

Harvard Medical School

U.S. Medical School

International Medical School

Yr of Grad \_\_\_\_\_

Online registrants - add the first three characters of the source code found here ⇄ Source Code: A B C D X Z Z Z