FEATURING

- SAM Sessions
- Audience Response Sessions
- Must Know and Advanced Case Sessions
- BLS Certification

Earn up to

- 43 AMA PRA Category 1 Credits™
- 1.50 Risk Management Credits
- Self Assessment Modules (SAMs) Credits
- BLS Certification

Register at www.hmscmeregistration.org/Radiology2016
APRIL 4-8, 2016 | MONDAY - FRIDAY

RADIOLOGY UPDATE 2016

Earn up to 43 AMA PRA Category 1 Credits™, 1.50 Risk Management Credits, SAM Credits and BLS Certification.

Register at www.hmscmeregistration.org/Radiology2016
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 43 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

This activity meets the criteria of the Massachusetts Board of Registration in Medicine for 1.50 credit of Risk Management Study. Please check your individual state licensing board requirements before claiming these credits.

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.

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert AMA PRA Category 1 Credit™ to an equivalent number of European CME Credits® (ECMECs®). Information on the process of converting AMA PRA Category 1 Credits™ to ECMECs® can be found at: www.eaccme.eu.

SAM CREDIT

Sessions of the meeting program will be submitted for SAM qualification. The total number of SAM credits approved will be confirmed approximately 21 days prior to the meeting.

ACGME COMPETENCIES

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

* Patient Care and Procedural Skills
* Medical Knowledge
* Practice-based Learning and Improvement

COURSE DIRECTORS

Barbara N. Weissman, MD
Professor of Radiology, Harvard Medical School; Vice Chair of Emeritus, Department of Radiology, Division of Musculoskeletal Imaging and Intervention, Brigham and Women’s Hospital

Theresa C. McLoud, MD
Professor of Radiology, Harvard Medical School; Vice Chair for Education, Department of Radiology, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

WHO ATTENDS

Radiologists
Radiology Residents, Fellows
Technologists
Physicians Interested in Imaging Updates

Boston Marriott Long Wharf
296 State Street, Boston, MA
617-227-0800

BWH BRIGHAM AND WOMEN’S HOSPITAL
MGH MASSACHUSETTS GENERAL HOSPITAL
COURSE DESCRIPTION

This course is designed to provide a practical update of contemporary diagnostic imaging from radiography to newer imaging techniques. Nuances in interpretation of traditional radiographs in common clinical situations (such as evaluating joint replacement) will be demonstrated. These should provide practical tools for the radiologist. In addition, attendees will develop an appreciation for the uses, limitations and interpretation of important newer imaging modalities including MRI, US, CT, dual energy CT and tomosynthesis. This year we have included sessions specifically addressing interventional procedures including venous and arterial procedures, ablations, and biopsies. Recent developments in cancer screening such as lung cancer screening and colonography and in standardized reporting systems such as LI-RADS will be reviewed.

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.

LEARNING OBJECTIVES

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

- Select the most appropriate studies including newer imaging modalities for various conditions.
- Interpret imaging studies for normal and various abnormal conditions.
- Describe and implement newer lexicons for image description and reporting.
- Implement screening procedures for various conditions into radiology practice.
- Determine the appropriateness of several interventional procedures and apply technical suggestions to practice.
- Recognize and be better prepared to treat common emergency situations including contrast reactions.
- Identify and incorporate methods for reducing radiation dose from CT scanning.
### MONDAY

**APRIL 4\(^{th}\) 2016**

- **7:00** | Registration/Continental Breakfast
- **7:50** | Welcome

**THORACIC/CARDIAC/BREAST**

- **Moderator:** Theresa C. McLoud, MD
- **8:00** | Must-Know Chest Cases
  - Amita Sharma, MD

**SAM SESSION: THORACIC**

- **8:30** | Interstitial Lung Disease
  - Theresa C. McLoud, MD
- **9:00** | Lung Nodules
  - Gerald Abbott, MD
- **9:30** | Question & Answers / Break
- **9:50** | Lung Cancer Screening
  - Jo-Anne Shepard, MD
- **10:20** | Coronary Calcium Screening
  - Francine Jacobson, MD
- **10:40** | COPD
  - Alexander A. Bankier, MD, PhD
- **11:15** | Pediatric Chest - Must Know Diagnoses
  - Shreya Sood, MD
- **11:45** | Question & Answers
- **12:00** | Lunch Recess

**CARDIAC/BREAST**

- **Moderator:** Michael L. Steigner, MD
- **1:15** | Acute Aortic Syndromes
  - Michael L. Steigner, MD
- **1:50** | Updates in Cardiac SPECT
  - Sharmila Dorbala, MD, FACC
- **2:25** | Updates in Cardiac PET
  - Marcelo Di Carli, MD
- **3:00** | Question & Answers / Break

**INTERVENTION**

- **3:20** | Afternoon Cases - Breast
  - Julie Ritner, MD
- **3:50** | Breast Masses and Tomosynthesis
  - Sughra Raza, MD
- **4:20** | Evaluating Dense Breasts
  - Elizabeth A. Frost, MD
- **4:50** | Breast MRI Benign Parenchymal Enhancement
  - Catherine Giess, MD
- **5:20** | Adjourn

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**TUESDAY**

**APRIL 5\(^{th}\) 2016**

- **7:00** | Continental Breakfast

**MSK, PEDS/INTERVENTION**

- **Moderator:** Barbara N. Weissman, MD
- **7:30** | Must-Know Musculoskeletal Cases
  - Violeta Nikac, MD

**SAM SESSION: MSK**

- **8:00** | Radiographic Evaluation of the Knee
  - Barbara N. Weissman, MD
- **8:30** | Knee Menisci: What the Surgeon Needs to Know
  - Nehal Shah, MD
- **9:00** | Pediatric Sports Related Injuries
  - Kristen Ecklund, MD
- **9:30** | Radiography and CT of Ankle & Foot Injuries
  - Barbara N. Weissman, MD
- **10:00** | MRI of Acute Injuries of the Ankle & Foot
  - Stacy E. Smith, MD
- **10:30** | Question & Answers / Break
- **10:50** | Shoulder Instability - Making MR Imaging Relevant
  - Kirstin M. Small, MD
- **11:20** | MRI of the Rotator Cuff - Current Concepts
  - William E. Palmer, MD
- **11:50** | Pitfalls in Shoulder Arthrography
  - Glenn C. Gaviola, MD
- **12:10** | MRI of Acute Injuries of the Thumb
  - Neena Kapoor, MD
- **12:25** | Question & Answers
- **12:30** | Lunch Recess

**INTERVENTION**

- **1:30** | Dual Energy CT in MSK
  - Stacy E. Smith, MD
- **2:00** | Total Hip Arthroplasty
  - Barbara N. Weissman, MD
- **2:30** | Hip MRI
  - Gregory K. Czuczman, MD
- **3:00** | Question & Answers / Break

- **3:20** | Abdominal Interventions: Interesting Cases and Techniques
  - Paul B. Shyn, MD
- **3:50** | Musculoskeletal Biopsies
  - Varand Ghazikhanian, MD
- **4:20** | Clinical Care in IR
  - Richard A. Baum, MD
- **4:40** | Venous Interventions
  - Chieh-Min Fan, MD
- **5:10** | Arterial Interventions
  - Dimitri Rabkin, MD, PhD
- **5:40** | Question & Answers
- **5:45** | Adjourn until Evening Classes

*Program changes/substitutions may be made without notice.*
### Wednesday, April 6th, 2016

**7:00** Continental Breakfast

**7:30**
**ABDOMEN GI/GU**
Moderator: Stuart G. Silverman, MD
- **Morning Cases - Abdomen**
  - David A. Rosman, MD

**8:00**
- **Imaging the Pancreas**
  - Avinash Ramesh Kambadakone, MBBS, MD

**8:30**
- **Imaging the Liver – HCC and LI-RADS**
  - Paul B. Shyn, MD

**9:00**
- **CT Colonography**
  - Raquel O. Alencar, MD, PhD

**9:30**
- **Question & Answers / Break**

**SAM SESSION: ABDOMEN GI/GU/REPRODUCTIVE**

**10:00**
- **Imaging the Bile Ducts**
  - V. Anik Sahni, MD

**10:30**
- **Renal Mass Imaging**
  - Stuart G. Silverman, MD, FACR

**11:00**
- **Adrenal Imaging**
  - William W. Mayo-Smith, MD, FACR

**11:30**
- **Dual Energy CT in GI Disorders**
  - Avinash Ramesh Kambadakone, MBBS, MD

**11:55**
- **Question & Answers**

**12:10**
- **Lunch Recess**

**3:00**
- **Question & Answers / Break**

**3:20**
- **Testicular Ultrasound**
  - Howard T Heller, MD

**3:50**
- **Imaging the Bladder, Ureters, Urethra**
  - Cheryl A. Sadow, MD

**4:20**
- **Abdominal Ultrasound**
  - Sara M. Durfee, MD

**4:50**
- **Question & Answers**

**5:00**
- **Adjourn until Evening Classes**

### Thursday, April 7th, 2016

**7:00** Continental Breakfast

**7:30**
**ULTRASOUND/SAFETY/MISCELLANEOUS**
Moderator: Barbara Weissman, MD
- **Morning Cases - Ultrasound**
  - Elizabeth Asch, MD

**8:00**
- **First Trimester Ultrasound**
  - Peter M. Doubilet, MD, PhD

**8:30**
- **Second and Third Trimester Ultrasound**
  - Mary C. Frates, MD, FACR

**9:10**
- **Thyroid Ultrasound**
  - Carol B. Benson, MD

**9:40**
- **Question & Answers / Break**

**SAM SESSION: HEAD AND NECK**

**9:55**
- **Eyes, Ears, Nose & Throat**
  - Mary E. Cunnane, MD

**10:40**
- **Evaluating Stroke**
  - Pamela W. Schaefer, MD

**11:10**
- **Evaluating Dementia**
  - Mykol Larvie, MD, PhD

**11:40**
- **Evaluating Brain Tumors**
  - Raymond Y. Huang, MD, PhD

**12:10**
- **Question & Answers**

**12:15**
- **Lunch Recess**

**1:30**
- **Degenerative Disease of the Spine**
  - Sandra P. Rincon, MD

**2:00**
- **Bone Tumors of the spine**
  - Glenn C. Gaviola, MD

**2:30**
- **New MRI Contrast Agents**
  - Srinivasan Mukundan, MD, PhD

**2:50**
- **Question & Answers**

**3:15**
- **Crisis Management**
  - Adam Blumenthal, BS EMTP

**3:45**
- **Treating Contrast Reactions**
  - Koenraad Mortele, MD

**4:20**
- **Break or Adjourn (if you are not attending the BLS Training Session)**

**5:00**
- **Basic Life Support, Skills Assessment, Certification**

- Advanced Sign-up required
- You must be registered to participate in BLS Training by March 14, 2016.
- Online course completion necessary before start of meeting.
- Additional fee for Session and BLS Certification

**6:00**
- **Adjourn**
FRIDAY

APRIL 8th 2016

7:00  Continental Breakfast

EMERGENCY/NUCLEAR MEDICINE
Moderator: Barbara N. Weissman, MD

7:30  Morning Cases - Emergency Department
Laura L. Avery, MD

8:00  CNS Trauma  Christopher A. Potter, MD

8:30  Imaging Chest Trauma
Robert A. Novelline, MD, FACR

9:00  Imaging Abdominal Trauma
Laura L. Avery, MD

9:30  Question & Answers / Break

9:50  Thoracolumbar Spine Trauma
Bharti Khurana, MD

10:20  Distal Radial Fractures: A Hand Surgeon’s Perspective
Brandon Earp, MD

10:45  Hip Fractures: An Orthopedist’s Perspective
Michael J. Weaver, MD

11:10  Imaging Pediatric Emergencies
Michele M. Walters, MD

11:40  Decreasing CT Dose
Aaron D. Sodickson, MD, PhD

12:10  Question & Answers

12:15  Lunch Recess

1:15  Nuclear Medicine Must Know Cases
Chun Kim, MD

1:45  Imaging of Infection and Inflammation
Christopher J. Palestro, MD

2:15  PET and PET CT Scanning
Heather Jacene, MD

2:50  Update on Bone Scintigraphy
Christopher J. Palestro, MD

3:20  Thyroid Disease: Benign and Malignant
Frederick D. Grant, MD

3:50  Question & Answers

4:00  Adjourn

LOCATION, TRAVEL & ACCOMMODATIONS

All sessions for this activity will be held at:
The Boston Marriott Long Wharf,
296 State Street, Boston, MA 02109
(Telephone: 617-227-0800)

A limited number of rooms have been reserved at the
Boston Marriott Long Wharf, (800) 228-9290 or
(617) 227-0800 until March 11, 2016. Please specify
that you are enrolled in this activity to receive a reduced
room rate of $309 per night Single/Double.
Hotel arrangements can also be made online at
cwp.marriott.com/boslw/brigandwomanapril2016

Please do not purchase nonrefundable airline ticket(s)
until you have received an email from our office
confirming your paid registration.

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.

ONLINE REGISTRATION

To register or view activity information online visit:

EVENING CLASSES

APRIL 5th 2016

EVENING (MUST KNOW) CASE SESSIONS

6:30  Must Know Cases - Chest
Andetta Hunsaker, MD

7:00  Must know Cases - Neuroradiology
Thomas C. Lee, MD

7:30  Must know Cases - Fluoroscopy
Michael J. Shortsleeve, MD

8:00  Adjourn

APRIL 6th 2016

EVENING (ADVANCED) CASE SESSIONS/HOW DO I DO IT

6:00  Advanced Cases - Ultrasound
Robin P. Goldenson, MD

6:30  Advanced Cases - Abdomen
Nisha I. Sainani, MD

7:00  How I Do It - MSK Ultrasonography
Stacy E. Smith, MD

7:30  Adjourn
REGISTRATION INFORMATION

Registration by credit card or check (VISA, MasterCard or American Express) can be made through Harvard Medical School’s secure online registration system at: https://www.hmscmeregistration.org/Radiology2016

Registration by check (draft on a US bank), please make payable to Harvard Medical School. Learners who choose to pay by check will be prompted to download an online form to send in with a payment. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your payment, you will receive an email confirmation. Be sure to include an email address that you check frequently.

TUITION FEE

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*Processing $5 (non-refundable service fee) *All fees shown in USD

Your email address is used for critical information including registration confirmation, evaluation and certificate.

Each participant will receive an electronic syllabus only.

HARVARD MEDICAL SCHOOL FACULTY

Gerald F. Abbott, MD
Raquel O. Alencar, MD, PhD
Elizabeth Asch, MD
Laura L. Avery, MD
Alexander A. Bankier, MD, PhD
Richard A. Baum, MD
Carol B. Benson, MD
Mary E. Cunnane, MD
Gregory J. Czuczman, MD
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Avinash Ramesh Kambadakone, MBBS, MD
Neena Kapoor, MD
Bharti Khurana, MD
Chun K. Kim, MD
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Srinivasan Mukundan, Jr, MD, PhD
Violeta Nikac, MD
Robert A. Novelline, MD, FACP
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Hope E. Peters, MD
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Dmitry J. Rabkin, MD, PhD
Sughra Raza, MD
Sandra P. Rincon, MD
Julie A. Ritner, MD
David A. Rosman, MD, MBA
Cheryl A. Sadow, MD
V. Anik Sahni, MD
Nisha I. Sainani, MD

GUEST FACULTY

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Nehal Shah, MD
Amita Sharma, MD
Jo-Anne O. Shepard, MD
Michael J. Shortsleeve, MD, FACP
Paul B. Shyn, MD
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