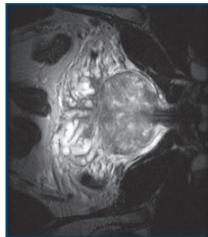




Harvard Medical School
 Department of Continuing Education
 PO Box 825
 Boston, MA 02117-0825
www.cme.hms.harvard.edu

REGISTER NOW!



MRI 2012
 Clinical Update and Practical Applications

February 20-24, 2012
 Hawks Cay Resort and Marina
 Duck Key, FL

www.cme.med.harvard.edu/courses/mri

Design by: Anna McCormick, MIT



Harvard Medical School
 Department of Continuing Education

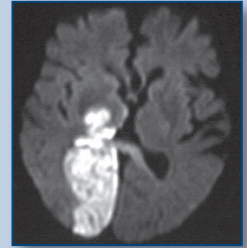
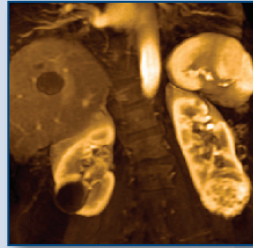


Brigham and Women's Hospital
 Department of Radiology

20th ANNUAL

MRI 2012

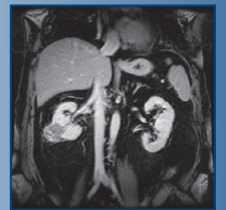
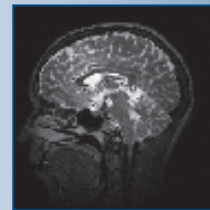
Clinical Update and
 Practical Applications



February 20-24, 2012

School Vacation Week

Hawks Cay Resort and Marina
Duck Key, FL



COURSE DIRECTORS

Hiroto Hatabu, MD, PhD
 Ferenc A Jolesz, MD
 Clare M C Tempny, MD

COURSE DESCRIPTION

Magnetic Resonance continues to have a major impact on the field of diagnostic imaging. The technology continues to improve, evolve and address many new challenges in healthcare. MRI 2012, will bring you up to date with clinical issues, hot topics, and case reviews presented by experienced academic radiologists. The educational format will be lectures with slides in didactic fashion, supplemented by question and answer sessions, case reviews daily and ample opportunity for direct faculty/participant one-on-one discussion.

Special emphasis will be given to clinical applications of practical state-of-the-art techniques:

- MRI in the next decade
- MR/PET -a new clinical platform?
- Image guided therapy
- Imaging lung cancer in the era of molecular medicine
- New approaches to prostate cancer MR
- MRI of the liver in 2012
- Dynamic contrast in neuro MR
- Pulmonary functional imaging
- Daily case reviews and Hot topic reviews
- Modern stroke evaluation
- MR of the pancreas, MRCP and ERCP assessments

Vendor exhibits to demonstrate equipment and procedures.



OBJECTIVES

Upon completion of the program, participants will be able to:

Understand and apply new techniques in:

- Functional MRI of brain
- Multiparametric imaging of liver disease, prostate cancer, lung cancer
- Image cartilage and apply new understanding to arthric diseases
- Understand new approaches to monitoring tumor/disease response to therapy using MRI
- Tumor characterization by contrast pharmacokinetic curves
- Various application of diffusion imaging (tumor detection, stroke, etc.)

WHO SHOULD ATTEND

This course is designed for radiologists and technologists with clinical interest in both basic and advanced MRI techniques.

FACULTY

Nezam H Afdhal, MD: Associate Professor, Medicine, Harvard Medical School; Director, Hepatology, Beth Israel Deaconess Medical Center, Boston, MA

William G Bradley, Jr, MD, PhD, FACR: Professor and Chairman, Department of Radiology, University of California, San Diego Medical Center, San Diego, CA

Alexander R Guimaraes, MD, PhD: Assistant Professor of Radiology, Harvard Medical School; Division of Abdominal Imaging and Intervention, Center for Molecular Imaging Research, Massachusetts General Hospital, Boston, MA

Hiroto Hatabu, MD, PhD: Associate Professor of Radiology, Harvard Medical School; Clinical Director, MRI Program, Medical Director, Center for Pulmonary Functional Imaging, Director, MRI Clinical Fellowship, Department of Radiology, Brigham and Women's Hospital, Boston, MA

Ferenc A Jolesz, MD: B Leonard Holman Professor of Radiology, Harvard Medical School; Director, Division of MRI and National Center for Image Guided Therapy Department of Radiology, Brigham and Women's Hospital, Boston, MA

Jonathan Kleefield, MD: Associate Professor of Radiology, Harvard Medical School; Director Emeritus, Neuroradiology, Beth Israel Deaconess Medical Center, Boston, MA

Srinivasan Mukundan, Jr, PhD, MD: Associate Professor of Radiology, Harvard Medical School; Section Head of Neuroradiology, Brigham and Women's Hospital, Boston, MA

Mizuki Nishino, MD: Assistant Professor of Radiology; Brigham and Women's Hospital and Dana-Farber Cancer Institute, Boston, MA

Neil M Rofsky, MD: Professor and Chairman, Department of Radiology, Effie and Wofford Cain Distinguished Chair in Diagnostic Imaging, Professor and Director, Advanced Imaging Research Center, Southwestern Medical Center, Dallas, TX

Bruce R Rosen, MD, PhD: Professor of Radiology, Harvard Medical School; Director, Athinoula A. Martinos Center for Biomedical Imaging, Department of Radiology, Massachusetts General Hospital, Boston, MA

Stacy E Smith, MD: Assistant Professor of Radiology; Section Head and Barbara Weissman Chair, Musculoskeletal Imaging, Brigham and Women's Hospital, Boston, MA

Clare M C Tempany, MD: Professor of Radiology; Ferenc Jolesz, Chair of Radiology Research, Vice Chair, Radiology Research, Director, Clinical Focused Ultrasound, Department of Radiology, Brigham and Women's Hospital, Boston, MA

MONDAY, FEBRUARY 20

| | | |
|-----------------------------|--|-----------------------|
| 7:00 | Registration / Continental Breakfast | |
| 7:55 | Introduction and Welcome | |
| <i>Moderator: Dr Jolesz</i> | | |
| 8:00 | MRI Over the Next Decade: Quo Vadis? | <i>Bradley</i> |
| 8:30 | Image Guided Therapy: State-of-the-Art | <i>Jolesz</i> |
| 9:00 | PET/MR - A New Clinical Platform? | <i>Rosen</i> |
| 9:30 | Modern MR Evaluation of Stroke | <i>Bradley</i> |
| 10:00 | Questions and Answers | |
| 10:10 | Break | |
| <i>Moderator: Dr Hatabu</i> | | |
| 10:30 | MR of Hemorrhage | <i>Bradley</i> |
| 11:00 | Functional Imaging of the Brain Tumors | <i>Rosen</i> |
| 11:30 | Glioma and Other Malignancies | <i>Jolesz</i> |
| 12:00 | MR of the Brainstem | <i>Bradley</i> |
| 12:30 | Clinical Neuro MRI Cases (1) | <i>Bradley/Jolesz</i> |
| 1:00 | Adjourn | |

TUESDAY, FEBRUARY 21

| | | |
|------------------------------|---|------------------|
| 7:15 | Continental Breakfast | |
| <i>Moderator: Dr Tempany</i> | | |
| 8:00 | Hot Topic: Diffusion Imaging in Body MR | <i>Rofsky</i> |
| 8:30 | MR of Pancreas | <i>Guimaraes</i> |
| 9:00 | MRCP: New Approaches | <i>Rofsky</i> |
| 9:30 | MRCP and ERCP: Relative Merits | <i>Afdhal</i> |
| 10:00 | Questions and Answers | |
| 10:10 | Break | |
| <i>Moderator: Dr Rofsky</i> | | |
| 10:30 | MRI of the Liver in 2012 | <i>Guimaraes</i> |
| 11:00 | Liver Imaging: A Hepatologist's Perspective | <i>Afdhal</i> |
| 11:30 | Liver Contrast Agents | <i>Guimaraes</i> |
| 12:00 | Pelvic MR Techniques | <i>Tempany</i> |
| 12:30 | MR of Rectum | <i>Guimaraes</i> |
| 1:00 | Adjourn | |

WEDNESDAY, FEBRUARY 22

| | | |
|-----------------------------|--|-----------------------|
| 7:15 | Continental Breakfast | |
| <i>Moderator: Dr Rofsky</i> | | |
| 8:00 | Hot Topic: Body MRI: Ultimate Dose Reduction | <i>Rofsky</i> |
| 8:30 | MRI of the Female Pelvis | <i>Tempany</i> |
| 9:00 | MRI of the Prostate – New Approaches in 2012 | <i>Tempany</i> |
| 9:30 | Case Review: Abdomen/Pelvis | <i>Rofsky/Tempany</i> |
| 10:00 | Questions and Answers | |
| 10:10 | Break | |

WEDNESDAY, FEBRUARY 22 (cont'd)

| | | |
|-------|--|----------------|
| 10:30 | MRI of Renal Masses | <i>Rofsky</i> |
| 11:00 | Image Guided Interventions in the Pelvis-MR Guided FUS | <i>Tempany</i> |
| 11:30 | MRI as a Clinical Problem Solving Tool in Oncology | <i>Nishino</i> |
| 12:00 | Tumor Response Assessment: RECIST and Beyond | <i>Nishino</i> |
| 12:30 | Pulmonary Functional Imaging | <i>Hatabu</i> |
| 1:00 | Adjourn | |

THURSDAY, FEBRUARY 23

| | | |
|-----------------------------|--|-----------------------|
| 7:15 | Continental Breakfast | |
| <i>Moderator: Dr Hatabu</i> | | |
| 8:00 | Hot Topic: Imaging of Lung Cancer in the Era of Molecular Medicine | <i>Nishino</i> |
| 8:30 | Lung Cancer Staging | <i>Nishino</i> |
| 9:00 | MRI of Mediastinum and Pleura | <i>Hatabu</i> |
| 9:30 | Thoracic MRI Cases | <i>Hatabu/Nishino</i> |
| 10:00 | Questions and Answers | |
| 10:10 | Break | |
| 10:30 | MRI of Hip | <i>Smith</i> |
| 11:00 | MRI of Knee | <i>Smith</i> |
| 11:30 | MRI of Degenerative Spine Disease | <i>Kleefield</i> |
| 12:00 | MRI of Elbow | <i>Smith</i> |
| 12:30 | MRI of Ankle | <i>Smith</i> |
| 1:00 | Adjourn | |

FRIDAY, FEBRUARY 24

| | | |
|--------------------------------|-------------------------------------|------------------|
| 7:15 | Continental Breakfast | |
| <i>Moderator: Dr Kleefield</i> | | |
| 8:00 | MRI of Sella and Skull Base | <i>Kleefield</i> |
| 8:30 | Cranial Nerves | <i>Mukundan</i> |
| 9:00 | MRI of Orbit | <i>Kleefield</i> |
| 9:30 | Clinical Neuro MRI Cases (2) | <i>Kleefield</i> |
| 10:00 | Questions and Answers | |
| 10:10 | Break | |
| 10:30 | Lumber Spine Nomenclature | <i>Mukundan</i> |
| 11:00 | Head and Neck Potpourri | <i>Kleefield</i> |
| 11:30 | Infections and Tumors of the Spine | <i>Kleefield</i> |
| 12:00 | Dynamic Contrast Enhanced Neuro MRA | <i>Mukundan</i> |
| 12:30 | Clinical Neuro MRI Cases (3) | <i>Mukundan</i> |
| 1:00 | Adjourn | |

Program changes/substitutions may be made without notice.

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 23.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the 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

REGISTRATION INFORMATION

Tuition Fee:

Early Registration - Physicians \$950.00 (USD)
Physicians \$1,025.00 (USD)

Early Registration - Residents, Fellows in Training, Technologists \$475.00 (USD)
Residents, Fellows in Training, Technologists \$525.00 (USD)

Early Registration Cut-off Date December 30, 2011

Registration by credit card (VISA or MasterCard) can be made at: www.cme.hms.harvard.edu/courses/mri. 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-Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. 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, Monday-Friday, 10 AM to 4 PM (EST) or by email at: hms-cme@hms.harvard.edu.

ONLINE INFORMATION

To register or view activity information online, visit: www.cme.hms.harvard.edu/courses/mri

☞ To ensure proper registration, please add the first three characters of the source code.

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.

REFUND POLICY

A handling fee of \$60 is deducted for cancellation. Refund requests must be received by postal mail, email or fax one week prior to this activity. No refunds will be made thereafter.

COURSE LOCATION

All sessions will be held at Hawks Cay Resort, 61 Hawks Cay Boulevard, Duck Key, FL 33050. Telephone: 305-743-7000

ACCOMMODATIONS / TRAVEL

A limited number of rooms have been reserved at Hawks Cay Resort and Marina, Duck Key, FL (Telephone:800-432-2242) until January 28, 2012. Please specify that you are enrolled in this activity to receive a reduced room rate of \$249/\$269 per night Single/ Double. 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 - Friday 9 AM - 8 PM (EST). From outside the U.S., Canada and Virgin Islands, please call 617-559-3764.

MRI 2012: Clinical Update and Practical Applications - Class # 322736

February 20-24, 2012

Tuition Fees:

Early Registration - Physicians \$950.00 (USD)
Physicians \$1,025.00 (USD)

Early Registration - Residents, Fellows in Training, Technologists \$475.00 (USD)
Residents, Fellows in Training, Technologists \$525.00 (USD)

Early Registration Cut-off Date December 30, 2011

Print Name Clearly — All Fields Required

Full Name _____

Mailing Address _____

City _____ State _____ Zip _____

Daytime Phone (____) _____ Fax Number (____) _____

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.

Email Address _____

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

Profession _____ Degree _____

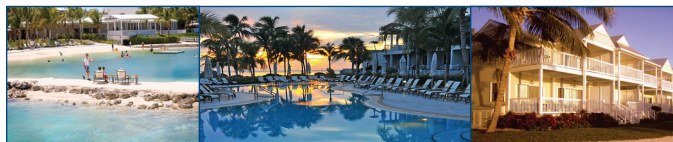
Primary Specialty (*Physicians Only*) _____ Board Certified: Yes No

Professional School Attended (*Physicians Only*)

Harvard Medical School U.S. Medical School International

Year of Graduation _____

Online Registrants - add the first three characters of the source code found here: Source Code: Z Z Z



In an effort to "Go Green", each participant will receive an electronic syllabus only, we will no longer be providing paper versions.

An email-link will be provided two weeks before the course so you may choose to download or print the syllabus.

www.cme.hms.harvard.edu/courses/mri