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*19th Annual*  
**HOT TOPICS IN  
MR IMAGING**  
*for the Technologist*

**February 23-24, 2019**

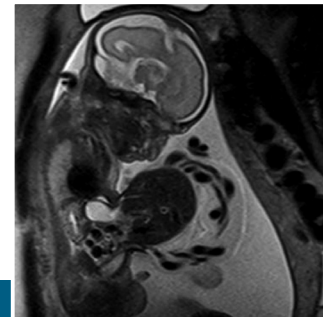
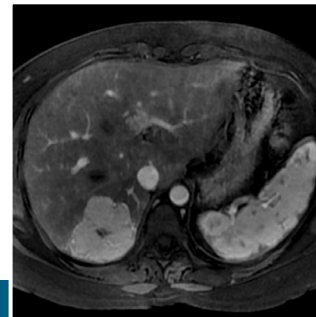
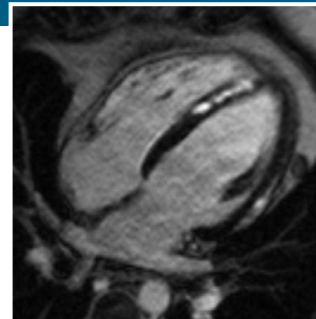
CONTINUING MEDICAL EDUCATION

The Russell H. Morgan  
Department of Radiology and Radiological Science  
Presents

*19th Annual*

# HOT TOPICS IN MR IMAGING

*for the Technologist*



**February 23-24, 2019**

Thomas B. Turner Building  
Baltimore, Maryland

Activity Director: **Ihab R. Kamel, MD, PhD**



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M E D I C I N E

## DESCRIPTION

The field of MRI is rapidly changing. Significant improvements have been made in safety in the MRI environment, including contrast administration safety. In addition, the role of novel PET/MR machines continues to evolve and could potentially change the way we practice imaging. The role of Breast MRI in screening high risk patients continues to grow and technologists need to be comfortable with performing these imaging studies. It is crucial that technologists and other radiology staff receive updates and education in the latest MRI technology, not only to maintain their national license requirement but to be able to provide the best care to patients and properly address safety issues with MRI. The one way to accomplish these goals is to provide an annual CME-type imaging seminar where we can select leaders in the field of MRI to discuss the changes, and how these changes impact the delivery of patient care.

## WHO SHOULD ATTEND

This activity is intended for MRI Technologists and Radiologists.

## OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- Restate basic knowledge of underlying principles of MRI.
- Discuss safety consideration of gadolinium-based contrast agents.
- Define and apply the increasing role of MRI in imaging the prostate.
- Discuss the increasing role of MRI in pediatric applications.

## CREDIT INFORMATION

### American Healthcare Radiology Administrators

This activity has been approved by AHRA, the approving RCEEM: The Association for Medical Imaging Management for a maximum of 14 Category A, ARRT continuing education credits. *You must attend each session in its entirety to obtain credit. No partial session credit will be awarded.*

## POLICY ON SPEAKER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

## General Information

### REGISTRATION

Saturday, February 23, 2019 – 7:15 a.m.

### LOCATION

Thomas B. Turner Building  
Johns Hopkins University School of Medicine  
720 Rutland Avenue  
Baltimore, Maryland 21205

The Turner Building is located on Rutland Avenue at Monument Street. Directions and campus parking information are available on our website under the Contact Us tab at <https://HopkinsCME.cloud-cme.com>. Handicapped parking is available in the nearby Rutland Garage.

*Johns Hopkins is smoke-free. Complimentary parking is available in the Washington Street Garage.*

### FEES

#### Register Online:

<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15561>

**Methods of Payment:** We require full payment prior to the start of the activity. On-site payments by credit card only. Early bird registration is available for registrations received prior to 5:00 p.m. ET on January 7, 2019. The registration fee includes, continental breakfasts, refreshment breaks and lunches

#### EARLY-BIRD POSTMARKED BEFORE 1/7/2019

	Two Day Fee	One Day Fee
Physicians .....	\$470	\$235
Residents*/Fellows*/Technologists/ Allied Health Professionals .....	\$270	\$135

#### POSTMARKED AFTER 1/7/2019

	Two Day Fee	One Day Fee
Physicians .....	\$490	\$245
Residents*/Fellows*/Technologists/ Allied Health Professionals .....	\$290	\$145

\*with verification of status

You will receive a confirmation by e-mail. If you have not received it by February 17, 2019, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be emailed to you no later than 30 days post activity.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

### LATE FEE AND REFUND POLICY

A \$50 late fee applies to registrations received after 5:00 p.m. ET on **February 17, 2019**. A handling fee of \$50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by **February 17, 2019**. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

### SYLLABUS

All registrants will receive a flash drive with the slides and paper for note-taking. This is included in the cost of your registration. A link to the syllabus will be provided via email shortly before the activity begins if you prefer to study or print the syllabus.

### SOCIAL EVENT

A complimentary reception for registrants and faculty will be held Saturday, February 23, 2019 immediately following the general session. Please indicate your attendance on the registration form if you plan to participate. NOTE: The commercial support received is solely for the educational component of this activity and will not be used to support this social event.

### HOTEL AND TRAVEL INFORMATION

Pier 5 Hotel (866) 583-4162  
711 Eastern Avenue (410) 539-2000  
Baltimore, Maryland 21202 FAX: (410) 783-1469  
Web Site: [www.harbormagic.com](http://www.harbormagic.com)

#### HOTEL RESERVATION CUT-OFF DATE: 1/29/2019

A limited block of sleeping rooms has been reserved for your convenience and will be available on a first come, first served basis.

The Pier 5 Hotel is nestled on its own pier directly on the water, next to the National Aquarium and behind the Power Plant entertainment complex. The Pier 5 is just steps away from all the excitement of the Inner Harbor. Make your reservation online at <http://group.curiocollection.com/JHUCME> or call the hotel directly, (410) 539-2000 or (877) 207-9047, and specify that you are attending the Johns Hopkins 19th Annual Hot Topics in MR Imaging for the Technologist course to receive the special group rate of \$149, single or double, plus tax. Check-in time is 4:00 p.m. Check-out time is 12:00 noon.

### EVALUATION AND CREDIT

Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. You will need to enter the session codes you were given during the activity. You must attend each day in its entirety to obtain credit. No partial credit will be given. **The last day to access the evaluation is March 26, 2019.** Your official ARRT certificate will be emailed to you by April 12, 2019. Please note, ARRT certificates will not be available online.

### AMERICANS WITH DISABILITIES ACT

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. *Please notify us if you have any special needs.*

# PROGRAM

## SATURDAY, FEBRUARY 23, 2019

- 7:15 – 7:55 Registration and Continental Breakfast
- 7:55 – 8:00 **Welcome and Conference Goals**
- 8:00 – 8:30 **Gadolinium-Based Contrast Agents: Safety Update**  
Ihab Kamel, MD, PhD
- 8:30 – 9:00 **Cardiac MRI: The Basics**  
Stefan Zimmerman, MD
- 9:00 – 9:30 **MR Safety Considerations for Patients with Devices**  
Ihab Kamel, MD, PhD
- 9:30 – 10:00 **Contrast and Non-Contrast MRA**  
Stefan Zimmerman, MD
- 10:00 – 10:30 Refreshment Break
- 10:30 – 11:00 **MR Enterography**  
Linda Chu, MD
- 11:00 – 11:30 **MRI of the Prostate**  
Atif Zaheer, MD
- 11:30 – 12:00 **MR Imaging of the Female Pelvis**  
Linda Chu, MD
- 12:00 – 12:30 **MR of Anal Fistula**  
Atif Zaheer, MD
- 12:30 – 1:45 **Questions and Answers**
- 12:45 – 1:30 Lunch
- 1:30 – 3:30 **Vendor-Specific Sequence Optimization**
- |             |                       |
|-------------|-----------------------|
| 1:30 – 1:50 | Siemens               |
| 1:50 – 2:10 | GE                    |
| 2:10 – 2:30 | Philips               |
| 2:30 – 2:50 | Toshiba               |
| 2:50 – 3:30 | Questions and Answers |
- 3:30 – 5:00 **Welcome Reception**

## SUNDAY, FEBRUARY 24, 2019

- 7:15 – 8:00 Registration and Continental Breakfast
- 8:00 – 8:30 **Temporal Lobe MRI**  
David Yousem, MD
- 8:30 – 9:00 **Orbital Pathology**  
Rohini Nadgir, MD
- 9:00 – 9:30 **MS and MRI: How and When?**  
David Yousem, MD
- 9:30 – 10:00 **Post Treatment Imaging of Head and Neck Cancer**  
Rohini Nadgir, MD
- 10:00 – 10:30 Refreshment Break
- 10:30 – 11:00 **MR Neurography**  
Shivani Ahlawat, MD
- 11:00 – 11:30 **MR of the Knee**  
Shadpour Demehri, MD
- 11:30 – 12:00 **DWI: MSK Applications**  
Shivani Ahlawat, MD
- 12:00 – 12:30 **MR of the Shoulder**  
Shadpour Demehri, MD
- 12:30 – 12:45 **Questions and Answers**
- 12:45 – 1:30 Lunch
- 1:30 – 2:00 **MR Spectroscopy**  
Peter Barker, DPhil
- 2:00 – 2:30 **Neuroimaging of Abusive Pediatric Head Trauma**  
Aylin Tekes, MD
- 2:30 – 3:00 **Role of Child Life in Pediatric MR Imaging**  
Mollie Young, CCLS
- 3:00 – 3:30 **MR Imaging of Vascular Malformations in the Head and Neck**  
Aylin Tekes, MD
- 3:30 **Adjourn**

*You will receive an email notification to complete the evaluation form.  
The registration desk will remain open during conference hours.*

*The Johns Hopkins University School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity.*

*The schedule is subject to change.*

### TO REGISTER or FOR FURTHER INFORMATION

Register Online <https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15561>  
Register by Phone (410) 502-9636  
Register by Fax (866) 510-7088  
Confirmation/Certificates/Transcripts (410) 502-9636  
General Information (410) 955-2959  
E-mail the Office of CME [cmenet@jhmi.edu](mailto:cmenet@jhmi.edu)

Follow us on Twitter: <http://twitter.com/HopkinsCME>  
Facebook: <http://www.facebook.com/HopkinsCME>

Check out our mobile app CloudCME.  
Organization Code: HopkinsCME

For website and CloudCME mobile app technical difficulties, email:  
[cmtechsupport@jhmi.edu](mailto:cmtechsupport@jhmi.edu)

Sponsoring Department Website: <http://www.hopkinsmedicine.org/radiology/>  
For general information, please visit the activity webpage at  
<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15561>

CloudCME 

# SPEAKERS

## Activity Director

### Ihab R. Kamel, MD, PhD

Professor of Radiology and Radiological Science and Oncology  
Clinical Director, MRI

## Johns Hopkins Speakers

### Shivani Ahlawat, MD

Assistant Professor of Radiology and Radiological Science,  
Musculoskeletal Radiology

### Peter Barker, DPhil

Professor of Radiology and Radiological Science and Oncology

### Linda Chu, MD

Assistant Professor of Radiology and Radiological Science,  
Diagnostic Imaging

### Shadpour Demehri, MD

Associate Professor of Radiology and Radiological Science,  
Musculoskeletal Radiology

### Rohini Nadgir, MD

Assistant Professor of Radiology and Radiological Science  
Neuroradiology

### Aylin Tekes, MD

Associate Professor of Radiology and Radiological Science  
Interim Director, Pediatric Neuroradiology

### Mollie Young, CCLS

Child Life Specialist  
Department of Radiology and Radiological Science

### David Yousem, MD

Professor of Radiology and Radiological Science  
Vice Chairman of Radiology

### Atif Zaheer, MD

Associate Professor of Radiology and Radiological Science  
Diagnostic Imaging

### Stefan Zimmerman, MD

Associate Professor of Radiology and Radiological Science  
Director, Cardiac Imaging

## Registration Form

Course Number 80047297/15561

### 19th Annual Hot Topics in MR Imaging for the Technologist

February 23 – 24, 2019

#### To Register:

**Online:** <https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15561>

**By fax:** (866) 510-7088 **By phone:** (410) 502-9636

Or mail this form to the Johns Hopkins University, Office of Continuing Medical Education, 720 Rutland Avenue, Room 20, Baltimore, Maryland 21205-2195. Include e-check or credit card information below.

**FULL PAYMENT IS REQUIRED PRIOR TO THE START OF ACTIVITY.**

I am a Johns Hopkins Speaker for this activity *Please type or print clearly*

last name		first name		m.i.	
highest degree	primary specialty			Hopkins faculty/staff only JHED ID	
<b>For Physicians Only:</b>	NPI – 10 digits		State License #		State of License
mailing address					
city		state	ZIP	country	
daytime telephone			fax number		
e-mail (required)					

Check here if you wish to receive e-mail notices about upcoming CME activities.

I plan to stay at the *Pier 5 Hotel* in Baltimore, Maryland.

What do you hope to learn by attending this activity? \_\_\_\_\_

Please notify us if you have any special needs. \_\_\_\_\_

#### Social Event:

Yes, I will attend the Welcome Reception (included in registration fee).

#### Registration Fees:

**EARLY-BIRD** postmarked before 1/7/2019 **Two Day Fee** **One Day Fee**

Physicians ..... \$470 ..... \$235

Residents\*/Fellows\*/Technologists/  
Allied Health Professionals ..... \$270 ..... \$135

Postmarked after 1/7/2019 **Two Day Fee** **One Day Fee**

Physicians ..... \$490 ..... \$245

Residents\*/Fellows\*/Technologists/  
Allied Health Professionals ..... \$290 ..... \$145  
\*with verification of status

The registration fee includes food and beverage. For registrations received after 5:00 p.m. ET on **February 19, 2019**, include a \$50 late fee. On-site registrations are payable only by credit card.

**Payment Type:** Total amount \$ \_\_\_\_\_

**JHU Faculty/Staff Only:** If you are using your Tuition Remission Benefit or an ION budget, please upload your fully completed and approved form in the payment section of the online activity link above.

TR Form: <http://benefits.jhu.edu/documents/trffacandstaff.pdf>

ION Form: <http://hopkinscme.edu/migration/ionRequest.pdf>

**eCheck:** Routing # \_\_\_\_\_ Account # \_\_\_\_\_

**Credit Card:**  VISA  MASTERCARD  DISCOVER  AMEX

Card # \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date \_\_\_\_\_

Billing Zip Code \_\_\_\_\_ Security Code \_\_\_\_\_

Name on Card \_\_\_\_\_

Signature & Date \_\_\_\_\_