

## Body MRI: Clinical Updates and Practical Physics

# Body MRI: Clinical Updates and Practical Physics

### Overview

#### Date & Location

Thursday, August 6, 2020, 7:20 AM - Saturday, August 8, 2020, 12:00 PM, Monterey Plaza Hotel - Point Lobos Room, Monterey, CA

#### Overview

This course will enable radiologists and technologists to correctly interpret common body MRI exams, to know the underlying principles of MR physics, and to identify and correct image artifacts, enabling improved communications with colleagues to improve team efficiency. Through lectures, question-and-answer sessions, engaging panel discussions and debates, image acquisition, discuss controversial topics in image interpretation, and enhance interactions with referring colleagues.

#### Target Audience

Radiology

#### Objectives

At the conclusion of this activity, learners will be able to:

1. Review the meaning of core MRI system component specifications, how they impact sequence parameters and recognize how to set rational acceleration factors for various acquisitions.
2. Differentiate the parts of pulse sequences and their relationships to image contrasts, SNR, and scan time. Describe the basic concepts of compressed sensing and dynamic MRI.
3. Perform a diffuse liver disease MRI and interpret the meaning of the resulting images.
4. Develop strategies for obtaining optimal fat suppression. Refresh common artifacts and execute strategies to correct them.
5. Incorporate strategies for improving diffusion weighted image quality and MR elastography images.

#### Registration

**SAVE THE DATE - REGISTRATION OPENING SOON**

Attendee Type	Early Bird Rate	Rate
	<i>*Before April 30</i>	<i>*After April 30</i>
Physician	\$945	\$995
Fellow or Resident	\$600	\$600
Stanford Physician Only	\$845	\$895
Radiologic Technologist	\$745	\$795
<b>Additional Fees</b>		
Attendee Guest - Reception	\$55	\$55

Registration fee includes access to the course materials, certificate of participation in a CME/CEU accredited activity, breakfast, lunch, and a reception. Be sure to register with an email address is used for critical information, including registration confirmation, evaluation, and certificate.

#### Accreditation

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physician.

#### Credit Designation

The Stanford University School of Medicine designates this Live Activity for a maximum of **15.00 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the actual activity.

This activity has been approved by the American Society of Radiologic Technologists (ASRT) for a maximum of **12.75 of Category A Continuing Education Credits™**.

#### Cancellation Policy

Cancellations received in **writing no less than 20 days before the course** will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Email [stanfordcme@stanford.edu](mailto:stanfordcme@stanford.edu).

Stanford University School of Medicine reserves the right to cancel or postpone this program if necessary; in the event of cancellation, course fees will be fully refunded. We are not responsible for non-refundable airline tickets or hotel penalties.

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Faculty

## Co-Course Directors

### Shreyas Vasanawala, MD, PhD

Professor, Department of Radiology  
Stanford University School of Medicine

### Brian Hargreaves, PhD

Professor, Department of Radiology  
Stanford University School of Medicine

### Geoffrey Riley, MD

Associate Professor, Department of Radiology  
Stanford University School of Medicine

## Faculty



### Daniel Ennis, PhD

Associate Professor of Radiology  
Stanford University School of Medicine  
Stanford, CA



### Brian Hargreaves, PhD

Professor of Radiology  
Stanford University School of Medicine  
Stanford, CA



### Andreas Markus Loening, MD, PhD

Assistant Professor of Radiology  
Stanford University School of Medicine  
Stanford, CA



### Vipul Ravindra Sheth, MD, PhD

Assistant Professor  
Stanford University School of Medicine  
Stanford, CA



### Shreyas Shreenivas Vasanawala, MD, PhD

Professor of Radiology  
Stanford University School of Medicine  
Palo Alto, CA

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### Agenda

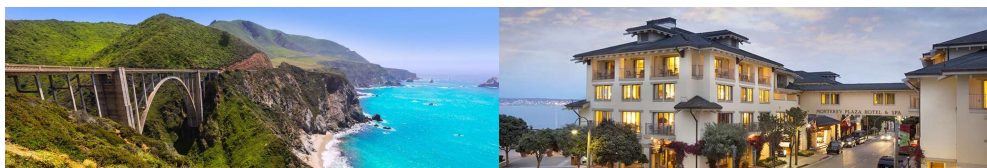
Thursday, August 6, 2020	Friday, August 7, 2020	Saturday, August 8, 2020
<b>Registration and Breakfast</b> 7:20AM - 8:00AM	<b>Breakfast</b> 7:20AM - 8:00AM	<b>Breakfast</b> 7:20AM - 8:00AM
<b>Welcome and Introduction</b> 8:00AM - 8:15AM Brian Hargreaves, PhD Shreyas Shreenivas Vasanawala, MD, PhD	<b>Adrenal MRI</b> 8:00AM - 8:15AM Andreas Markus Loening, MD, PhD	<b>Artifacts I</b> 8:00AM - 8:30AM Brian Hargreaves, PhD Daniel Ennis, PhD Andreas Markus Loening Vipul Ravindra Sheth, MD Shreyas Shreenivas Vasanawala, MD, PhD
<b>Hardware: Homogeneity, Gradients, RF</b> 8:15AM - 8:35AM Brian Hargreaves, PhD	<b>Renal Mass Characterization</b> 8:15AM - 8:30AM Andreas Markus Loening, MD, PhD	<b>Rectal Cancer: Techniques</b> 8:30AM - 9:00AM Vipul Ravindra Sheth, MD
<b>Basic Imaging Principles: Spins To Echoes</b> 8:35AM - 9:00AM Daniel Ennis, PhD	<b>Making DWI Work For Body MR</b> 8:30AM - 8:50AM Shreyas Shreenivas Vasanawala, MD, PhD	<b>Noncontrast MRA Techniques</b> 9:00AM - 9:30AM Daniel Ennis, PhD
<b>Liver: How To Choose A Contrast Agent</b> 9:00AM - 9:15AM Andreas Markus Loening, MD, PhD	<b>Prostate MR</b> 8:50AM - 9:30AM Andreas Markus Loening, MD, PhD	<b>Phase Contrast MRI Principles</b> 9:30AM - 10:00AM Daniel Ennis, PhD
<b>Basic Imaging Principles: Echoes To Images</b> 9:15AM - 9:40AM Daniel Ennis, PhD	<b>MR Elastography</b> 9:30AM - 9:45AM Andreas Markus Loening, MD, PhD	<b>Break</b> 10:00AM - 10:30AM
<b>Break</b> 9:40AM - 10:00AM	<b>Break</b> 9:45AM - 10:00AM	<b>Artifacts II</b> 10:30AM - 11:00AM Shreyas Shreenivas Vasanawala, MD, PhD
<b>Liver: Iron and Fat Quantification</b> 10:00AM - 10:15AM Shreyas Shreenivas Vasanawala, MD, PhD	<b>Appendicitis</b> 10:00AM - 10:30AM Shreyas Shreenivas Vasanawala, MD, PhD	<b>Whole Body MR - Practical</b> 11:00AM - 11:30AM Vipul Ravindra Sheth, MD
<b>Liver: Masses</b> 10:15AM - 10:45AM Andreas Markus Loening, MD, PhD	<b>Acceleration I: Parallel Imaging</b> 10:30AM - 11:00AM Brian Hargreaves, PhD	<b>Q/A and Wrap Up</b> 11:30AM - 12:00PM
	<b>Perianal Fistula: Protocol and Reporting</b> 11:00AM - 11:15AM	

<b>Motion Compensation and Correction</b> 10:45AM - 11:30AM Shreyas Shreenivas Vasanaawala, MD, PhD
<b>Lunch</b> 11:30AM - 12:10PM
<b>Cystic Pancreatic Masses</b> 12:10PM - 12:30PM Andreas Markus Loening, MD, PhD
<b>Fat Suppression and Other Tricks</b> 12:30PM - 1:00PM Brian Hargreaves, PhD
<b>Common Sequences and Contrasts</b> 1:00PM - 1:30PM Shreyas Shreenivas Vasanaawala, MD, PhD
<b>Hardware II: Coils</b> 1:30PM - 2:00PM Brian Hargreaves, PhD
<b>Optimizing Parameters</b> 2:00PM - 3:00PM Brian Hargreaves, PhD Shreyas Shreenivas Vasanaawala, MD, PhD
<b>Reception and Networking</b> 4:30PM - 6:00PM

Andreas Markus Loening, MD, PhD
<b>How To Distinguish Acute From Chronic IBD</b> 11:15AM - 11:30AM Shreyas Shreenivas Vasanaawala, MD, PhD
<b>Lunch</b> 11:30AM - 12:10PM
<b>Acceleration II: CS and Dynamic Acquisitions</b> 12:10PM - 1:00PM Brian Hargreaves, PhD
<b>Pelvic Floor MRI: How To Perform and Report</b> 1:00PM - 1:20PM Vipul Ravindra Sheth, MD, PhD
<b>Endometriosis: Top 5 Findings</b> 1:20PM - 1:40PM Vipul Ravindra Sheth, MD, PhD
<b>MRI Of Solid Ovarian Masses: Differential Diagnosis</b> 1:40PM - 2:00PM Andreas Markus Loening, MD, PhD

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## Location



### Monterey Plaza Hotel

400 Cannery Row

Monterey, CA 93940

Phone: (800)-334-3999

*A room block has been reserved at a reduced rate at the Monterey Plaza Hotel for conference participants on a first-come, first-served basis and may sell out before 07/06/2020. After that date, space will be available on a first-come, first-served basis and at regular resort rates.*

**Call Monterey Plaza Hotel's reservations department at 800-334-3999.**

**Standard - Inland View | \$309.00 per night\***

*\*Plus 10% City Tax, 1.6% Monterey Conference Center Facilities District Tax, 0.195% California Tourism Fee, Monterey County Tourism Assessment Fee of \$2.00 per room per night, and overnight parking.*

### VISITOR INFORMATION

Monterey Bay is on central California's Pacific coast located 118 miles from San Francisco Airport. Monterey has a peaceful, tranquil pace, but is also home to America's premier aquarium. The city is a historical relic, full of expertly restored adobe buildings from California's Spanish and Mexican periods. Inspired by the Monterey Peninsula's natural beauty and nautical heritage, the city is extraordinary. Explore the colorful history of Monterey Bay as you marvel at the Monterey Bay National Marine Sanctuary and Monterey Bay Aquarium or visit literary landmarks like John S. Ford House. On land and sea, the Monterey Peninsula also features an expansive list of family-run wineries, craft breweries, shopping dining, and sites such as 17-Mile Drive, Carmel by the Sea, Big Sur. To learn more about traveling to Monterey, please visit <https://www.seemonterey.com/regions/monterey>.

### For activity related questions, please contact

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### For CME general questions, please contact

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