

A CME Teaching Activity

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# 2015

# Magnetic Resonance Imaging:

National Symposium

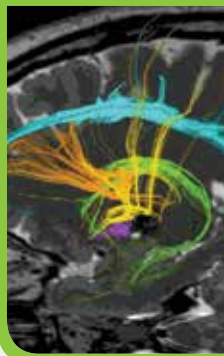
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Including 2.25 MR Safety Credits

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**Designated for SA-CME**

MRI of the  
Head & Spine  
13.0 Hours



Musculoskeletal  
MRI  
6.0 Hours



MRI of the  
Body & Heart  
6.0 Hours



25.0 AMA PRA Category 1 Credit(s)<sup>TM</sup>

Release Date: September 15, 2015

 Educational  
Symposia

## About This CME Teaching Activity

This CME series provides a practical teaching course for those who order, perform or interpret magnetic resonance imaging studies. The program is organized in such a way to allow subscribers to purchase all or a subsection of the program. Three focused segments provide a comprehensive yet practical review and update on the clinical applications of MRI. The series begins by focusing on the head and spine, moves into the musculoskeletal system and concludes with cardiovascular and body applications. Also included are focused lectures on MR safety updates.

## Target Audience

This CME activity is designed to educate diagnostic imaging physicians who supervise and interpret MRI/MRA studies. It should also be useful for referring physicians who order these studies so that they might gain a greater appreciation of the strengths and limitations of clinically relevant MRI exams.

## Scientific Sponsor

Educational Symposia

## Accreditation

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this enduring material for a maximum of 25.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**SA-CME:** Credits awarded for this enduring activity are designated “SA-CME” by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

All activity participants are required to pass a written or online test with a minimum score of 70% in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

**AMA PRA Category 1 Credit(s)<sup>™</sup> for this activity may be claimed until September 14, 2018.**

This CME activity was planned and produced by Educational Symposia,  
a leader in continuing medical education since 1975.

This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

## Educational Objectives

At the completion of this CME teaching activity, you should be able to:

- Discuss the expanding role of MR in medical imaging.
- Optimize MRI protocols and techniques.
- Utilize MRI to evaluate neurological, musculoskeletal, body and breast pathology.
- Review MRI safety updates.

*No special educational preparation is required for this CME activity.*

# Faculty

**Susan M. Ascher, M.D.**

*Professor and Co-Director, Abdominal Imaging  
MedStar Georgetown University Hospital  
Department of Radiology  
Washington, DC*

**Robyn L. Birdwell, M.D., FACR**

*Associate Professor of Radiology  
Harvard Medical School  
Section Head, Division of Breast Imaging  
Brigham and Women's Hospital  
Boston, MA*

**Philip R. Chapman, M.D.**

*Associate Professor  
Chief, Neuroradiology Imaging Section  
Department of Radiology  
University of Alabama Birmingham  
Birmingham, AL*

**Avneesh Chhabra, M.D.**

*Associate Professor of MSK Radiology and  
Orthopedic Surgery  
MSK Division Chief  
UTSW, Dallas, TX  
Adjunct Professor  
John Hopkins University School of Medicine  
and Russell H. Morgan  
Department of Radiology & Radiological Science  
Baltimore, MD*

**Robert R. Edelman, M.D.**

*Professor of Radiology  
Feinberg School of Medicine, Northwestern University  
Chairman of Radiology  
NorthShore University HealthSystem  
Evanston, IL*

**Scott D. Flamm, M.D., MBA**

*Professor of Radiology  
Cleveland Clinic Lerner College of Medicine of  
Case Western Reserve University  
Head, Cardiovascular Imaging  
Imaging, and Heart & Vascular Institutes  
Cleveland Clinics  
Cleveland, OH*

**Charles P. Ho, M.D., Ph.D.**

*Director of Imaging Research  
Steadman Hawkins Research Foundation  
Vail, CO*

**Emanuel Kanal, M.D., FACR, FISMRM**

*Director, Magnetic Resonance Services  
Professor of Radiology and Neuroradiology  
University of Pittsburgh Medical Center  
Pittsburgh, PA*

**John D. Reeder, M.D., FACR**

*Director of Imaging  
Proscan Imaging Maryland  
Columbia, MD*

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*Professor of Neuroradiology  
Barrow Neurological Institute  
St. Joseph's Hospital  
Phoenix, AZ*

**Janio Szklaruk, M.D., Ph.D.**

*Professor, Department of Diagnostic Radiology  
Chief of Abdominal Imaging MR  
Division of Diagnostic Imaging  
The University of Texas  
M.D. Anderson Cancer Center  
Houston, TX*

**Lawrence N. Tanenbaum, M.D., FACR**

*Director MRI, CT and Outpatient/Advanced  
Development  
Mount Sinai School of Medicine  
New York, NY*

**Alyssa T. Watanabe, M.D.**

*Voxel Imaging, Inc.  
Associate Clinical Professor of Radiology  
University of Southern California, Keck School of  
Medicine  
Los Angeles, CA*

**Adam C. Zoga, M.D.**

*Associate Professor of Radiology  
Vice Chair for Clinical Practice  
Director of Musculoskeletal MRI  
Thomas Jefferson University Hospital  
Philadelphia, PA*

# Entire Program

## MRI OF THE HEAD AND SPINE • SUBSET 1-6

### SESSION 1

New MR Techniques

*Lawrence N. Tanenbaum, M.D., FACR*

White Matter Diseases

*Jeffrey S. Ross, M.D.*

Advanced Imaging of CNS Neoplasms:  
Characterization and Surveillance

*Lawrence N. Tanenbaum, M.D., FACR*

### SESSION 2

Advanced Imaging of CNS Neoplasms:  
BOLD And DTI for Surgical Planning

*Lawrence N. Tanenbaum, M.D., FACR*

Neuroimaging of the Central Skull Base:  
Anatomy and Pathology

*Philip R. Chapman, M.D.*

Susceptibility: Friend or Foe

*Lawrence N. Tanenbaum, M.D., FACR*

Neuroimaging of the CPA, Internal  
Auditory Canal and Inner Ear

*Philip R. Chapman, M.D.*

### SESSION 3

Safety Update I: NSF - What has  
Changed, What has Not

*Emanuel Kanal, M.D., FACR, FISMRM*

Diffusion Imaging of the Spine

*Lawrence N. Tanenbaum, M.D., FACR*

Safety Update II: Beyond NSF

*Emanuel Kanal, M.D., FACR, FISMRM*

### SESSION 4

Brachial Plexus Imaging

*Philip R. Chapman, M.D.*

The Medicolegal Aspects of Magnetic  
Resonance Safety

*Emanuel Kanal, M.D., FACR, FISMRM*

Neuroimaging of Perineural  
Tumor Spread

*Philip R. Chapman, M.D.*

### SESSION 5

Spine Marrow Disease

*Jeffrey S. Ross, M.D.*

How to Evaluate and Treat a Patient  
with Low Back Pain

*Alyssa T. Watanabe, M.D.*

Degenerative Disc Disease,  
Pathophysiology and Nomenclature

*Jeffrey S. Ross, M.D.*

### SESSION 6

Spinal Implants and Post-operative  
Changes

*Alyssa T. Watanabe, M.D.*

Spine Trauma

*Jeffrey S. Ross, M.D.*

MRI of the Spinal Cord and  
Peripheral Nerves

*Alyssa T. Watanabe, M.D.*

## MUSCULOSKELETAL MRI • SUBSET 7-9

### SESSION 7

Shoulder MRI: Structured Evaluation

*Avneesh Chhabra, M.D.*

SLAP Happy: When and How to Call a SLAP Lesion on MRI

*Adam C. Zoga, M.D.*

Sports Injuries of the Wrist: Golf and Racquet Sports

*John D. Reeder, M.D., FACR*

Arthritis: Structured Evaluation

*Avneesh Chhabra, M.D.*

### SESSION 8

Experiences/Update in Sports MRI of the Elbow

*Charles P. Ho, M.D., Ph.D.*

MRI of Pediatric Sports Injuries

*John D. Reeder, M.D., FACR*

Posteromedial and Posterolateral Corners of the Knee

*Adam C. Zoga, M.D.*

Experiences/Update in Sports MRI of the Hip

*Charles P. Ho, M.D., Ph.D.*

### SESSION 9

MR Criteria for Meniscal Tears

*Adam C. Zoga, M.D.*

Experiences/Update in Sports MRI of the Ankle and Foot

*Charles P. Ho, M.D., Ph.D.*

Sarcoma: How to Exclude It

*Avneesh Chhabra, M.D.*

Musculoskeletal MRI Missed Case Conference

*John D. Reeder, M.D., FACR*

## MRI OF THE BODY AND HEART • SUBSET 10-12

### SESSION 10

MR Angiography With and Without Contrast Agents

*Robert R. Edelman, M.D.*

MRI of Liver Lesions

*Janio Szklaruk, M.D., Ph.D.*

MRI/MRA of Thoracic Aortic Disease

*Scott D. Flamm, M.D., MBA*

Positioning in MRI: Basics Make for the Best Outcome Quality

*Robyn Birdwell, M.D., FACR*

### SESSION 11

MR of the Adenxa: 5 Imaging Pearls

*Susan M. Ascher, M.D.*

Advanced Imaging Techniques for the Body: Pearls and Pitfalls

*Robert R. Edelman, M.D.*

DWI in Abdominal Imaging: Applications in Oncologic Patients

*Janio Szklaruk, M.D., Ph.D.*

MRI of Uterine Malignancy: Focus on Revised FIGO

*Susan M. Ascher, M.D.*

### SESSION 12

Normal Background Enhancement in Breast MRI

*Robyn L. Birdwell, M.D., FACR*

Accelerated Imaging in Cardiac MRI: Techniques, Benefits and Tradeoffs

*Scott D. Flamm, M.D., MBA*

MRI in the Post Treated Breast: Benign and Malignant Procedures

*Robyn L. Birdwell, M.D., FACR*

LIRADS Scoring of Liver Lesions: Case Presentation

*Janio Szklaruk, M.D., Ph.D.*

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