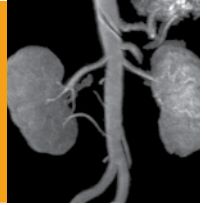


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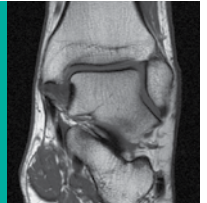
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Musculoskeletal
MRI



Neuro
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Date of Original Release: Bi-Monthly Beginning In January 2014

About This CME Teaching Activity

This CME teaching activity provides practical, timely, clinical information in general, musculoskeletal and neuro MRI. Pertinent lectures are selected so that subscribers receive the most up-to-date clinical information. Tips and techniques are stressed, as well as appropriate patient selection. The faculty members have been chosen for their teaching ability, as well as their expertise in MRI.

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This CME teaching activity was planned and produced by Educational Symposia, the leader in diagnostic imaging education since 1975.

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

Content & Shipping

The MRI Updates are available in the sub-specialties of General MRI, Neuro MRI and Musculoskeletal MRI. Each series is comprised of six DVDs. You will receive one DVD every other month beginning in January 2014. International orders will be shipped in their entirety in November 2014. These DVDs are yours to keep. There is no duplication of lectures among these series.

These CME teaching activities feature a distinctive production process termed "Digital Studio Enhancement" including:

- Post processed diagnostic images
- Clearly visible pathology and anatomy
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- Electronic pointer correlation with speaker's indications

This production process is exclusive to Educational Symposia sessions.

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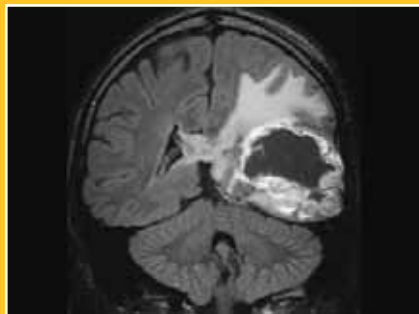
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General MRI Program

Session 1

Renal and Mesenteric MRA
Thomas M. Grist, M.D., FACR

Renal Mass Characterization with MRI
Bachir Taouli, M.D.

MRI of Abdominal Pain in Pregnancy
Neil M. Rofsky, M.D., FACR

Applications of Diffusion MRI in the
Abdomen and Pelvis
Bachir Taouli, M.D.

Session 2

MRA of Pulmonary Embolism
Thomas M. Grist, M.D., FACR

Diffusion and Perfusion – New Tools for
Abdominal MRI
Russell N. Low, M.D.

MRI/MRA of the Aorta
Thomas M. Grist, M.D., FACR

Session 3

MR Enterography
Bachir Taouli, M.D.

MRI of the Large and Small Bowel
Russell N. Low, M.D.

Non-Contrast MRA
Robert Herfkens, M.D.

MRI of Rectal CA
Bachir Taouli, M.D.

Session 4

Body Diffusion: Current and Future Applications
Bachir Taouli, M.D.

MRI of Malignant Liver Lesions
Russell N. Low, M.D.

Evaluation of Cystic Pancreatic Masses
Neil M. Rofsky, M.D., FACR

Controversies in Breast MRI:
Over-Diagnosis & Over-Treatment
Elizabeth A. Morris, M.D., FACR

Session 5

Breast Carcinoma In-Situ: One of the Best
Indications for Breast MR
Bruce A. Porter, M.D., FACR

MR Monitoring of Neoadjuvant Chemotherapy
in Breast Cancer
Bruce A. Porter, M.D., FACR

Cardiac MRI: Morphology, Masses and
Pericardial Disease
Thomas M. Grist, M.D., FACR

Session 6

MR Contrast Agents Update
Lawrence N. Tanenbaum, M.D., FACR

Emerging Role of MRI for Prostate Cancer:
Detection, MR Guided Biopsy and MR Guided
Focal Laser Ablation
John F. Feller, M.D.

Prostate MRI
Neil M. Rofsky, M.D., FACR

Target Audience

This CME teaching activity is primarily intended and designed to educate diagnostic imaging physicians. It should also be useful in educating referring physicians who order MRI procedures.

Educational Objectives

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

- Apply state-of-the-art MRI/MRA techniques to clinical practice.
- Discuss the emerging role of MR in the evaluation of breast and prostate disease.
- Assess patients with a variety of cardiac abnormalities using MRI.
- Adapt state-of-the-art imaging protocols and techniques for the evaluation of the abdomen into their clinical practices.

No special educational preparation is required for this CME activity.

General MRI

Faculty

John F. Feller, M.D.

Medical Director

Desert Medical Imaging

Indian Wells, CA

Assistant Clinical Professor of Radiology

Loma Linda University School of Medicine

Loma Linda, CA

Thomas M. Grist, M.D., FACR

John H. Juhl Professor of Radiology,

Medical Physics and Bioengineering

Chairman, Department of Radiology

University of Wisconsin-Madison School of Medicine

and Public Health

Madison, WI

Robert Herfkens, M.D.

Associate Chair for Clinical Technology

Director of MRI

Professor of Radiology

Stanford University School of Medicine

Stanford, CA

Russell N. Low, M.D.

Medical Director

Sharp and Children's MRI Center

San Diego, CA

Elizabeth A. Morris, M.D., FACR

Chief, Breast Imaging Service

Member, Memorial Sloan-Kettering Cancer Center

Professor of Radiology

Weill Cornell Medical College

New York, NY

Bruce A. Porter, M.D., FACR

Medical Director

Swedish-First Hill Diagnostic Imaging

Clinical Associate Professor of Radiology

University of Washington

Seattle, WA

Neil M. Rofsky, M.D., FACR

Professor and Chairman

Department of Radiology

UT Southwestern Medical Center

Dallas, TX

Lawrence N. Tanenbaum, M.D., FACR

Director MRI, CT and Outpatient/Advanced

Development

Mount Sinai School of Medicine

New York, NY

Bachir Taouli, M.D.

Professor of Radiology and Medicine

Director of Body MRI

Director of Cancer Imaging

Department of Radiology

Translational and Molecular Imaging Institute

Icahn School of Medicine at Mount Sinai

New York, NY

Musculoskeletal MRI Program

Session 1

Rotator Cuff Disorders/Impingement Syndromes

Donald L. Resnick, M.D.

MRI of the Shoulder: Sports Injuries
Phillip F.J. Tirman, M.D.

MRI of the Shoulder: Cuff, Biceps and Subscapularis
Mark J. Decker, M.D.

Session 2

SLAP Happy: When and How to Call a SLAP Lesion on MRI
Adam C. Zoga, M.D.

MRI of the Wrist
Phillip F.J. Tirman, M.D.

MRI of Cartilage
Christine B. Chung, M.D.

Session 3

Hip Pathology
Donald L. Resnick, M.D.

MRI Evaluation of Total Hip Replacement
Christine B. Chung, M.D.

MRI of Joint Prosthesis
Mark J. Decker, M.D.

Session 4

State of the Art Musculoskeletal MRI
John F. Feller, M.D.

MRI of the Lumbar Spine:
A Sports Medicine Approach
Phillip F.J. Tirman, M.D.

Spinal Marrow Changes
Michael T. Modic, M.D., FACR

Session 5

Spine Tumors
Jeffrey S. Ross, M.D.

Advances in Spine Surgery
Steve Chang, M.D.

Post-operative Spine Imaging
Jeffrey S. Ross, M.D.

Cranio-cervical Junction Trauma
Steve Chang, M.D.

Session 6

A General Approach to Ligament Injuries of the Knee
Donald L. Resnick, M.D.

MRI of the Knee: Case Based
John F. Feller, M.D.

Tendon Abnormalities of the Ankle
Donald L. Resnick, M.D.

Target Audience

This CME teaching activity is designed to educate radiologists, orthopedic surgeons, podiatrists, sports medicine physicians, and referring physicians who order musculoskeletal MRI studies.

Educational Objectives

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

- Incorporate state of the art pulse sequences and protocols for a variety of musculoskeletal MRI procedures into clinical practice.
- Assess patients with joint pathology utilizing MRI.
- Recognize the strengths and limitations of MRI for the management of sports related injuries.
- Describe the MR appearance of common musculoskeletal pathology and differentiate this pathology from other causes of abnormal signal.
- Demonstrate an increased knowledge of orthopedic surgical procedures and the impact MR imaging has on patient management.

No special educational preparation is required for this CME activity.

Musculoskeletal MRI

Faculty

Steve Chang, M.D.

*Neurosurgeon
Barrow Neurological Institute
Phoenix, AZ*

Christine B. Chung, M.D.

*Professor of Radiology
University of California, San Diego*

Mark J. Decker, M.D.

*Musculoskeletal and Spine Imaging and Intervention
New York, NY*

John F. Feller, M.D.

*Medical Director
Desert Medical Imaging
Indian Wells, CA
Assistant Clinical Professor of Radiology
Loma Linda University School of Medicine
Loma Linda, CA*

Michael T. Modic, M.D., FACR

*Chairman, Neurological Institute
Cleveland Clinic
Professor of Radiology
Cleveland Clinic Lerner College of Medicine
Cleveland, OH*

Donald L. Resnick, M.D.

*Professor of Radiology
University of California, San Diego*

Jeffrey S. Ross, M.D.

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

Phillip F.J. Tirman, M.D.

*Medical Director
Renaissance Imaging Medical Associates
Westlake Village, CA*

Adam C. Zoga, M.D.

*Associate Professor of Radiology
Director of Musculoskeletal MRI
Director of Ambulatory Imaging Centers
Musculoskeletal and Combined MRI Fellowship
Program Director
Thomas Jefferson University Hospital
Jefferson Medical College
Philadelphia, PA*

Neuro MRI Program

Session 1

Spinal Infection

Michael T. Modic, M.D., FACR

Diagnostic Pitfalls in Neuroimaging

Blake A. Johnson, M.D., FACR

Recent Advances in Spine Imaging:

Diffusion and Spectroscopy

Lawrence N. Tanenbaum, M.D., FACR

Session 2

Myelopathy: Clinical Imaging Considerations

Michael T. Modic, M.D., FACR

Intracranial Tumors and Tumor Mimics

Blake A. Johnson, M.D., FACR

Advanced Imaging of Brain Tumors

Lawrence N. Tanenbaum, M.D., FACR

Session 3

Imaging Evaluation of White Matter Disease

Blake A. Johnson, M.D., FACR

Radiculopathy and Low Back Pain:

Natural History and Value of Imaging

Michael T. Modic, M.D., FACR

MRI of Intracranial Infection

Blake A. Johnson, M.D., FACR

Session 4

Advanced Imaging of Brain Tumors:

Surveillance and Characterization

Lawrence N. Tanenbaum, M.D., FACR

MRI of Stroke

J. Pablo Villablanca, M.D.

MRI of Stroke: Diffusion, Perfusion, MRA

Lawrence N. Tanenbaum, M.D., FACR

Session 5

MDCT, Arterial Spin Labeling and Hypercapnic

BOLD fMRI for Evaluating Perfusion in Patients

with Intracranial Stenosis

Megan Strother, M.D.

Intracranial Metastatic Disease

Blake A. Johnson, M.D., FACR

Spinal Tumors

Michael T. Modic, M.D., FACR

Pituitary and Sellar Imaging

Chip Truwit, M.D.

Session 6

Imaging of the Spine

Blake A. Johnson, M.D., FACR

MR Spectroscopy

Lawrence N. Tanenbaum, M.D., FACR

Susceptibility Weighted Imaging

Meng Law, M.D., MBBS, FRACR

MR of Intracranial Hemorrhage

Blake A. Johnson, M.D., FACR

Target Audience

This CME teaching activity should benefit radiologists and other physicians who perform, supervise, and interpret MR imaging studies for patients with neurological disorders. It should also be valuable for referring physicians who order these studies.

Educational Objectives

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

- Recognize the appearance of normal anatomy and common pathology.
- Incorporate state-of-the-art spine imaging protocols and techniques into clinical practice.
- Expand clinical applications for MRI in evaluation of patients with a variety of CNS disorders.
- Discuss the clinical applications and imaging protocols of using diffusion/ perfusion imaging techniques when evaluating the extent of neurological disease.

No special educational preparation is required for this CME activity.

Neuro MRI

Faculty

Blake A. Johnson, M.D., FACR

*Medical Director
Center for Diagnostic Imaging
Minneapolis, MN*

Meng Law, M.D., MBBS, FRACR

*Professor of Radiology, Neurology, Neurological Surgery and
Biomedical Engineering
Director of Neuroradiology
Keck Medical Center and School of Medicine of USC
Los Angeles, CA*

Michael T. Modic, M.D., FACR

*Chairman, Neurological Institute
Cleveland Clinic
Professor of Radiology
Cleveland Clinic Lerner College of Medicine
Cleveland, OH*

Megan Strother, M.D.

*Assistant Professor of Neuroradiology
Department of Radiology
Vanderbilt University
Nashville, TN*

Lawrence N. Tanenbaum, M.D., FACR

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

Chip Truwit, M.D.

*Chief of Radiology
Hennepin County Medical Center
Professor of Radiology
University of Minnesota School of Medicine
Minneapolis, MN*

J. Pablo Villablanca, M.D.

*Professor of Radiological Sciences
Chief, Neuroradiology Section
Medical Director of MRI
Director, Interventional Spine Service
David Geffen School of Medicine at UCLA
Los Angeles, CA*

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CME Teaching Activity

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