

A CME Teaching Activity

# 2016 Classic Lectures in Musculoskeletal Imaging: What You Need to Know

## Designated for SA-CME

This enduring material activity counts towards the SA-CME requirement for the ABR, similar to a SAM activity

**Release Date: August 15, 2016**

### About This CME Teaching Activity

This CME teaching activity is a comprehensive musculoskeletal teaching course focusing on the shoulder, knee, spine, hip, ankle, wrist, hand and foot. Practical lectures from experienced faculty provide up-to-date imaging techniques and protocols along with imaging strategies and advanced applications. This program is designed for physicians who order, perform and interpret musculoskeletal imaging procedures.

### Target Audience

This CME teaching activity is primarily intended and designed to educate physicians who supervise and interpret musculoskeletal imaging studies using MRI, CT, Ultrasound, and PET/CT. Thus, it should be particularly helpful for radiologists and orthopedic surgeons. This activity 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 musculoskeletal imaging.

### Scientific Sponsor

Educational Symposia

### Educational Objectives

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

- Design and implement appropriate musculoskeletal imaging protocols and techniques.
- Utilize a multi-modality approach to diagnose disease processes in the musculoskeletal system.
- Discuss the clinical application and utility of incorporating advanced imaging techniques to evaluate musculoskeletal disorders.
- Apply advances in musculoskeletal imaging protocols to accurately assess musculoskeletal trauma.
- Compare ultrasound imaging of the MSK system with MR image findings.
- Describe the clinical applications and pitfalls of musculoskeletal PET studies.
- Differentiate image findings of chronic and acute injury in the musculoskeletal system.

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

### 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 32.5 *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 August 14, 2019.**

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.

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## Faculty

### Mark H. Awh, M.D.

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### Kevin L. Berger, M.D.

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*Trauma / Emergency Radiologist  
Assistant Professor of Radiology  
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Professor of Radiology  
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*Medical Director  
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Loma Linda University School of Medicine  
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### Jan Fritz, M.D., P.D., D.A.R.B.

*Assistant Professor of Radiology and  
Radiological Science  
Musculoskeletal Radiology  
Johns Hopkins University School of Medicine  
Baltimore, MD*

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

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

### Jon A. Jacobson, M.D.

*Professor of Radiology  
Director, Division of Musculoskeletal Radiology  
Department of Radiology  
University of Michigan  
Ann Arbor, MI*

### Theodore T. Miller, M.D., FACR

*Professor of Radiology, Weill Medical College of  
Cornell University  
Attending Radiologist, Department of Radiology  
and Imaging  
Hospital for Special Surgery  
New York, NY*

### William B. Morrison, M.D.

*Consultant for Philadelphia Eagles, Phillies, Flyers  
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### Brian Petersen, M.D.

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Clinical Associate Professor of Radiology  
and Orthopaedics  
University of Colorado  
Aurora, CO*

### Jeffrey Peterson, M.D.

*Professor of Radiology  
Residency Program Director  
Department of Radiology  
Mayo Clinic Jacksonville  
Jacksonville, FL*

### John D. Reeder, M.D., FACR

*Director of Imaging  
Proscan Imaging Maryland  
Columbia, MD*

### William R. Reinus, M.D., MBA, FACR

*Professor and Vice Chairman Radiology  
Director of Musculoskeletal and Trauma Radiology  
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Philadelphia, PA*

### Andrew T. Trout, M.D.

*Assistant Professor of Radiology and Pediatrics  
Cincinnati Children's Hospital Medical Center  
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### Adam C. Zoga, M.D.

*Associate Professor of Radiology  
Vice Chair for Clinical Practice  
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## Program

### Session 1

MRI of the Shoulder

*Jeffrey Peterson, M.D.*

Rotator Cuff and Impingement

*Theodore T. Miller, M.D., FACR*

Shoulder Instability

*Brian Petersen, M.D.*

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

*Adam C. Zoga, M.D.*

### Session 2

Experiences/Update in Sports MRI of the Shoulder

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

Imaging the Throwing Athlete

*John V. Crues, III, M.D.*

Miscellaneous Conditions of the Shoulder

*Christine B. Chung, M.D.*

### Session 3

Ultrasound of the Shoulder

*Jon A. Jacobson, M.D.*

Indirect MR Arthrography of the Hip and Shoulder

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

### Session 4

MRI of the Elbow

*Theodore T. Miller, M.D., FACR*

Experiences/Update in Sports MRI of the Elbow

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

Ultrasound of the Elbow

*Jon A. Jacobson, M.D.*

Sports Injuries of the Elbow

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

### Session 5

Wrist MRI

*John V. Crues, III, M.D.*

Sports Imaging of the Wrist

*Jeffrey Peterson, M.D.*

MRI of Finger Injuries

*John F. Feller, M.D.*

### Session 6

Sports Injuries of the Wrist: Golf and Racquet Sports

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

Digital MRI: Fingers and Toes

*Mark H. Awh, M.D.*

Sports Imaging of the Hand and Finger

*Jeffrey Peterson, M.D.*

### Session 7

MRI of the Hip

*Christine B. Chung, M.D.*

Adult Hip Dysplasia and FAI

*William B. Morrison, M.D.*

Hip Trauma

*John V. Crues, III, M.D.*

Imaging of Adverse Tissue Reactions to  
Metal-on-Metal Arthroplasty

*Theodore T. Miller, M.D., FACR*

### Session 8

ESPN Imaging: Hip Pointer, Sports Hernia, High Ankle  
Sprain and Turf Toe Demystified

*Brian Petersen, M.D.*

Experiences/Update in Sports MRI of the Hip

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

Imaging the Patient with Pelvic Trauma

*Mark P. Bernstein, M.D.*

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# 2016 Classic Lectures in Sports Medicine Imaging

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## Program

### Session 9

MRI of the Ankle

*John V. Crues, III, M.D.*

Structures Involved in Hindfoot Valgus

*Christine B. Chung, M.D.*

Experiences/Update in Sports MRI of the Ankle and Foot

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

Ultrasound of the Ankle

*Jon A. Jacobson, M.D.*

### Session 10

Imaging the Extensor Mechanism of the Knee

*Theodore T. Miller, M.D., FACR*

Knee Ligaments

*John V. Crues, III, M.D.*

Posteromedial and Posterolateral Corners of the Knee

*Adam C. Zoga, M.D.*

MRI of the Knee: Menisci

*Mark H. Awb, M.D.*

### Session 11

Experiences/Update in Sports MRI of the Knee

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

MRI of Knee Arthroplasty

*Jan Fritz, M.D., P.D., D.A.R.B.*

MRI of Articular Cartilage and Imaging Biomarkers

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

Ultrasound of the Knee

*Jon A. Jacobson, M.D.*

### Session 12

Controversies in Osteoporosis

*Brian Petersen, M.D.*

Spine Percutaneous Interventional Techniques

*Brian Petersen, M.D.*

Imaging the Cervical Spine

*William R. Reinus, M.D., MBA, FACR*

### Session 13

Controversies in Spine Imaging

*John V. Crues, III, M.D.*

Introduction to Imaging Characterization of Bone and Soft-Tissue Tumors

*Brian Petersen, M.D.*

Imaging of Musculoskeletal Infections

*William B. Morrison, M.D.*

Ultrasound of Soft Tissue Masses

*Jon A. Jacobson, M.D.*

### Session 14

Imaging and Treatment of Muscle Injuries

*Theodore T. Miller, M.D., FACR*

Acute Bone and Cartilage Injuries

*John F. Feller, M.D.*

MRI of Musculoskeletal Soccer Injuries

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

Musculoskeletal Masses and Tumor-like Conditions

*Mark H. Awb, M.D.*

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# 2016 Classic Lectures in Sports Medicine Imaging

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## Program

### Session 15

MRI in Synovial Inflammatory Disorders -  
A Radiologists Perspective

*Christine B. Chung, M.D.*

Interventional Musculoskeletal Ultrasound

*Jon A. Jacobson, M.D.*

Metabolic Bone Disorders

*Christine B. Chung, M.D.*

### Session 16

MRI of Pediatric Bone Tumors

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

Difficult Fractures of the Lower Extremities

*William R. Reinus, M.D., MBA, FACR*

MRI of Pediatric Sports Injuries

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

### Session 17

Optimization of Musculoskeletal MRI and CT Protocols

*William B. Morrison, M.D.*

Fluoride PET/CT Bone Imaging

*Kevin L. Berger, M.D.*

Bone Scintigraphy

*Andrew T. Trout, M.D.*

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