

# 2016 Classic Lectures in Sports Medicine Imaging

## Designated for SA-CME

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

**Release Date: July 1, 2016**

### About This CME Teaching Activity

Sports related injuries require timely diagnosis and appropriate management for a quick recovery in all athletes; novice to professional. This program is structured to provide a detailed review of imaging specific injuries with arthroscopic and orthopedic surgery correlation. Faculty has been chosen to provide a well-rounded multidisciplinary review of sports medicine imaging, surgical techniques and treatment options.

### Target Audience

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

### Scientific Sponsor

Educational Symposia

### Educational Objectives

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

- Incorporate state of the art sequences and protocols for a variety of sports related injury into clinical practice.
- Assess patients with joint pathology in a non-invasive manner utilizing MRI and ultrasound.
- 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.
- Correlate surgical arthroscopic and MR image findings of various sports injuries.
- Demonstrate an increased knowledge of surgical procedures as they relate to various sports injury and the impact MR imaging has on patient management.
- Discuss the utility of musculoskeletal ultrasound for diagnosis and direction of treatment of musculoskeletal injuries.

*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 26.0 *AMA PRA Category 1 Credit(s)*<sup>TM</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>TM</sup>  
for this activity may be claimed until June 30, 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

### Pedro K. Beredjiklian, M.D.

Chief, Division of Hand Surgery  
The Rothman Institute  
Associate Professor of Orthopaedic Surgery  
Jefferson Medical College  
Philadelphia, PA

### Avneesh Chhabra, M.D.

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

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

Medical and MRI Fellowship Director  
Radnet, Inc.  
Professor of Radiology  
UCSD School of Medicine  
Los Angeles, CA

### Christine B. Chung, M.D.

Professor of Radiology  
University of California, San Diego  
San Diego, CA

### Matthew Diltz, M.D.

Orthopedic Surgeon  
Sports Medicine and Joint Preservation  
Eisenhower Desert Orthopaedic Center  
Rancho Mirage, CA

### Joshua S. Dines, M.D.

Orthopedic Surgeon  
Sports Medicine and Shoulder Service  
The Hospital for Special Surgery  
Assistant Professor of Orthopedic Surgery  
Weill Cornell Medical College  
Great Neck, 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

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

Director of Imaging Research  
Steadman Philippon Research Institute  
Vail, CO

### Blake A. Johnson, M.D., FACR

Medical Director  
Center for Diagnostic Imaging  
Minneapolis, MN

### Kenneth S. Jung, M.D.

Orthopaedic Foot & Ankle Surgeon  
Kerlan-Jobe Orthopaedic Clinic  
Los Angeles, CA

### Orr Limpisvasti, M.D.

Orthopaedic Surgeon, Kerlan-Jobe  
Orthopaedic Clinic  
Orthopaedic Surgeon-Anaheim Ducks Hockey  
Orthopaedic Consultant-Los Angeles Angels Baseball  
Los Angeles, CA

### 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  
Professor of Radiology  
Director, Musculoskeletal Radiology Division  
Department of Radiology  
Thomas Jefferson University  
Philadelphia, PA

### Shane J. Nho, M.D., M.S.

Assistant Professor  
Department of Orthopedic Surgery  
Division of Sports Medicine  
Chicago, IL

### Brian Petersen, M.D.

Inland Imaging, LLC  
Spokane, WA  
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

### Donald L. Resnick, M.D.

Professor of Radiology  
University of California, San Diego  
San Diego, CA

### Phillip F.J. Tirman, M.D.

Medical Director  
Renaissance Imaging Medical Associates  
Westlake Village, CA

### Steve Yoon, M.D., M.P.H.

Physician  
Kerlan-Jobe Orthopaedic Clinic  
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

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## Program

### Session 1

MRI of the Shoulder

*Jeffrey Peterson, M.D.*

Experiences/Update in Sports MRI of the Shoulder

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

MRI of Sports Injuries of the Shoulder

*John F. Feller, M.D.*

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

*Adam C. Zoga, M.D.*

### Session 2

Imaging the Throwing Athlete

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

Rotator Cuff and Impingement

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

Shoulder Instability

*Brian Petersen, M.D.*

### Session 3

Thrower's Shoulder – Surgical Perspective

*Orr Limpisvasti, M.D.*

Thrower's Shoulder – Radiologist Perspective

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

Sports Imaging of the Shoulder:

Instability – Surgical Perspective

*Orr Limpisvasti, M.D.*

Sports Imaging of the Shoulder:

Instability – Radiologist Perspective

*Phillip F.J. Tirman, M.D.*

Rotator Cuff – Surgical Perspective

*Joshua S. Dines, M.D.*

Rotator Cuff – Radiologist Perspective

*Phillip F.J. Tirman, M.D.*

### Session 3 (continued)

Biceps Disease – Surgical Perspective

*Joshua S. Dines, M.D.*

Biceps Disease – Radiologist Perspective

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

### Session 4

Sports Imaging of the Shoulder:

AC Joint – Surgical Perspective

*Orr Limpisvasti, M.D.*

Sports Imaging of the Shoulder:

AC Joint - Radiologist Perspective

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

Introduction to MR of the Elbow –

Protocols, Ligaments, Tendons and Muscles

*John F. Feller, M.D.*

Sports Imaging of the Elbow:

Instability and Thrower's Elbow – Surgical Perspective

*Joshua S. Dines, M.D. / Orr Limpisvasti, M.D. presented*

Sports Imaging of the Elbow:

Instability and Thrower's Elbow – Radiologist Perspective

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

Elbow: Tendon and Joint Disorders –

Surgical Perspective

*Joshua S. Dines, M.D. / Orr Limpisvasti, M.D. presented*

Elbow: Tendon and Joint Disorders –

Radiologist Perspective

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

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### Session 5

Experiences/Update in Sports MRI of the Elbow  
*Charles P. Ho, M.D., Ph.D.*

Sports Injuries of the Elbow  
*John D. Reeder, M.D., FACR*

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

### Session 6

Sports Imaging of the Wrist  
*Jeffrey Peterson, M.D.*

Ulnar-Sided Wrist Pain – Surgical Perspective  
*Pedro K. Beredjiklian, M.D.*

Ulnar-Sided Wrist Pain – Radiologist Perspective  
*William B. Morrison, M.D.*

Wrist Instability – Surgical Perspective  
*Pedro K. Beredjiklian, M.D.*

Wrist Instability - Radiologist Perspective  
*William B. Morrison, M.D.*

Sports Injuries of the Wrist: Golf and Racquet Sports  
*John D. Reeder, M.D., FACR*

### Session 7

MRI of Finger Injuries  
*John F. Feller, M.D.*

Sports Imaging of the Hand and Finger  
*Jeffrey Peterson, M.D.*

Introduction to MRI of the Hips –  
Protocols, Bone Trauma, AVN, Labral Tears, FAI  
*William B. Morrison, M.D.*

Femoroacetabular Impingement – Surgical Perspective  
*Matthew Diltz, M.D.*

Femoroacetabular Impingement –  
Radiologist Perspective  
*John F. Feller, M.D.*

### Session 8

Hip: Labral Pathology – Surgical Perspective  
*Shane J. Nho, M.D., M.S.*

Hip: Labral Pathology – Radiologist Perspective  
*Avneesh Chhabra, M.D.*

Hip: Bone, Tendon, and Muscle Injuries –  
Surgical Perspective  
*Matthew Diltz, M.D.*

Hip: Bone, Tendon, and Muscle Injuries –  
Radiologist Perspective  
*John F. Feller, M.D.*

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.*

### 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.*

Ankle Tendon Abnormalities – Surgical Perspective  
*Kenneth S. Jung, M.D.*

Ankle Tendon Abnormalities – Radiology Perspective  
*Avneesh Chhabra, M.D.*

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### Session 10

Ankle Instability – Surgical Perspective

*Kenneth S. Jung, M.D.*

Ankle Instability – Radiology Perspective

*William B. Morrison, M.D.*

Ankle: Osteochondral Injuries – Surgical Perspective

*Kenneth S. Jung, M.D.*

Ankle: Osteochondral Injuries – Radiology Perspective

*Phillip F.J. Tirman, M.D.*

Introduction to MR Imaging of the Knee –  
Protocols, Bone, Meniscal and Ligament Injuries

*William B. Morrison, M.D.*

Knee Ligaments

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

### Session 11

Imaging the Extensor Mechanism of the Knee

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

Ligaments of the Knee: Footprints of Injury

*Donald L. Resnick, M.D.*

Posteromedial and Posterolateral Corners of the Knee

*Adam C. Zoga, M.D.*

Bone and Cartilage Injury

*Donald L. Resnick, M.D.*

### Session 12

Experiences/Update in Sports MRI of the Knee

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

Meniscal Injuries – Surgical Perspective

*Joshua S. Dines, M.D. / Shane J. Nho, M.D., M.S. presented*

Meniscal Injuries – Radiologist Perspective

*William B. Morrison, M.D.*

Knee: Articular Cartilage – Surgical Perspective

*Joshua S. Dines, M.D.*

Knee: Articular Cartilage – Radiologist Perspective

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

MRI of Articular Cartilage and Imaging Biomarkers

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

### Session 13

Acute Bone and Cartilage Injuries

*John F. Feller, M.D.*

MRI of Musculoskeletal Soccer Injuries

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

MRI of Pediatric Sports Injuries

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

### Session 14

Acute Brain Trauma

*Blake A. Johnson, M.D., FACR*

The Roles of Biologic Treatments in Soft-Tissue Injury

*Steve Yoon, M.D., M.P.H.*

Imaging of Back Pain in the Athlete

*Blake A. Johnson, M.D., FACR*

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