

A CME Teaching Activity

# 2014

## **Musculoskeletal MRI:** Imaging in Sports Medicine

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

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Designated as Self Assessment CME (SA-CME)  
by the American Board of Radiology (ABR)

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Release Date: February 15, 2014

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## About This CME Teaching Activity

A multidisciplinary faculty place the importance of imaging in sports medicine with discussions of how imaging can impact patient management. General “how-to” sessions on joint imaging will lead into more detailed imaging techniques including an 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

## 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 17.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.

**Technologists:** No Category A CE credit is available for this series.

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 February 14, 2017.**

This CME activity was planned and produced by Educational Symposia, the leader in diagnostic imaging 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:

- 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.
- 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.*

# Faculty

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## **Pedro K. Beredjikian, 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*

## **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*

## **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*

## **Thay Q. Lee, Ph.D.**

*Professor in Residence  
Vice Chairman for Research  
Department of Orthopaedic Surgery  
University of California, Irvine  
Orange, CA  
Senior Research Career Scientist  
Department of Veterans Affairs*

## **Orr Limpisvasti, M.D.**

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

## **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*

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

*Physician  
Kerlan-Jobe Orthopaedic Clinic  
Los Angeles, CA*

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# Program

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## Session 1

Introduction to MSK Imaging

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

Introduction to US MSK Imaging

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

MR Arthrography

*John F. Feller, M.D.*

MR Neurography – How I Do It

*Avneesh Chhabra, M.D.*

## Session 2

Acute Brain Trauma

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

Biomechanics of Healthy, Injured, Healing Soft-Tissues, and Soft-Tissues Repair, Reconstruction

*Thay Q. Lee, Ph.D.*

The Roles of Biologic Treatments in Soft-Tissue Injury

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

## Session 3

Introduction to MR of the Shoulder – Protocols, Cuff Tears, Labral Tears

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

Sports Imaging of the Shoulder: Instability – Surgical Perspective

*Orr Limpivasti, M.D.*

Sports Imaging of the Shoulder: Instability – Radiologist Perspective

*John F. Feller, M.D.*

## Session 3 (Continued)

Rotator Cuff –

Surgical Perspective

*Orr Limpivasti, M.D.*

Rotator Cuff –

Radiologist Perspective

*John F. Feller, M.D.*

Bone, Tendon, and

Muscle Injuries –

Surgical Perspective

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

Bone, Tendon, and

Muscle Injuries –

Radiologist Perspective

*John F. Feller, M.D.*

## Session 4

Sports Imaging of the

Shoulder: AC Joint –

Surgical Perspective

*Orr Limpivasti, M.D.*

Sports Imaging of the

Shoulder: AC Joint –

Radiologist Perspective

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

Thrower's Shoulder –

Surgical Perspective

*Orr Limpivasti, M.D.*

Thrower's Shoulder –

Radiologist Perspective

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

Introduction to MRI of the Hips

– Protocols, Bone Trauma,

AVN, Labral

*John F. Feller, M.D.*

Femoroacetabular

Impingement –

Surgical Perspective

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

## Session 4 (Continued)

Femoroacetabular

Impingement –

Radiologist Perspective

*Avneesh Chhabra, M.D.*

Hip: Labral Pathology –

Surgical Perspective

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

Hip: Labral Pathology –

Radiologist Perspective

*Avneesh Chhabra, M.D.*

## Session 5

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

*Orr Limpivasti, M.D.*

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

*Orr Limpivasti, M.D.*

Elbow: Tendon and Joint

Disorders – Radiologist

Perspective

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

Imaging of Back Pain in the Athlete

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

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## Session 6

Biceps Disease –  
Surgical Perspective  
*Orr Limpisvasti, M.D.*

Biceps Disease –  
Radiologist Perspective  
*John F. Feller, M.D.*

Introduction to MR of the Ankle:  
Techniques and Protocols  
*John V. Crues, III, M.D.*

Osteochondral Injuries –  
Surgical Perspective  
*Kenneth S. Jung, M.D.*

Osteochondral Injuries/  
Impingement –  
Radiology Perspective  
*Avneesh Chhabra, M.D.*

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

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

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

## Session 7

Ankle Instability – Radiology  
Perspective  
*William B. Morrison, M.D.*

Introduction to MR of the Wrist  
– Protocols, Instability, Trauma,  
Impingement, Tendons  
*Avneesh Chhabra, M.D.*

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

## Session 7 (Continued)

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.*

Osteonecrosis and Marrow  
Diseases – Radiologist  
Perspective  
*William B. Morrison, M.D.*

## Session 8

Osteonecrosis and Marrow  
Diseases – Surgical Perspective  
*Pedro K. Beredjiklian, M.D.*

Introduction to MR Imaging of  
the Knee – Protocols, Bone,  
Meniscal and Ligament Injuries  
*William B. Morrison, M.D.*

Sports Imaging of the Knee:  
ACL – Surgical Perspective  
*Shane J. Nho, M.D., M.S.*

Sports Imaging of the Knee:  
ACL – Radiologist Perspective  
*John V. Crues, III, M.D.*

Meniscal Injuries –  
Surgical Perspective  
*Shane J. Nho, M.D., M.S.*

Meniscal Injuries –  
Radiologist Perspective  
*William B. Morrison, M.D.*

## Session 9

MR Neurography in Back and  
Lower Extremity Pain  
*Avneesh Chhabra, M.D.*

Articular Cartilage –  
Surgical Perspective  
*Shane J. Nho, M.D., M.S.*

Articular Cartilage –  
Radiologist Perspective  
*John V. Crues, III, M.D.*

MR Imaging in Rheumatoid  
Arthritis  
*John V. Crues, III, M.D.*

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