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A CME Teaching Activity

# 2019 Classic Lectures in Musculoskeletal Imaging:

What You Need to Know

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**Designated for SA-CME**



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

Release Date: January 1, 2019

**ESI** Educational  
Symposia

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## 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. 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

## 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 30.5 *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 take a written or online test 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 December 31, 2021.**

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:

- Optimize musculoskeletal imaging protocols and techniques.
- Utilize a multi-modality approach to diagnose disease processes in the musculoskeletal system.
- Discuss the value of incorporating advanced imaging techniques to evaluate musculoskeletal disorders.
- Apply advanced imaging protocols to accurately assess musculoskeletal trauma.
- Describe the clinical applications and pitfalls of bone scintigraphy and PET/CT studies.
- Differentiate image findings of chronic and acute injury of the musculoskeletal system.
- Assess traumatic and non-traumatic spine injury.
- Differentiate tumors of the bone and soft tissues.

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

## Faculty

### **John A. Abraham, M.D.**

*Associate Professor of Orthopedic Surgery and  
Radiation Oncology  
Director  
Jefferson Musculoskeletal Oncology Center  
Kimmel Cancer Center  
Thomas Jefferson University Hospital  
Philadelphia, PA*

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

*President  
Radsources  
Brentwood, TN*

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

*Director of PET/CT  
Chesapeake Medical Imaging  
Annapolis, MD*

### **Mark P. Bernstein, M.D.**

*Trauma / Emergency Radiologist  
Assistant Professor of Radiology  
Department of Radiology  
New York University School of Medicine  
NYU Langone Medical Center  
Tisch Hospital  
Bellevue Hospital & Trauma Center  
New York, NY*

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

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

### **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*

### **Kathleen R. Fink, M.D.**

*Assistant Professor, Neuroradiology  
University of Washington  
Seattle, WA*

### **Wende N. Gibbs, M.D.**

*Assistant Professor of Neuroradiology  
Department of Radiology  
University of Southern California, Keck School of Medicine  
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*

### **Jeffrey J. Peterson, M.D.**

*Professor of Radiology  
Vice Chair Diagnostic Radiology  
Program Director Radiology Residency  
Mayo Clinic Florida  
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*

### **Kathirkamanathan Shanmuganathan, M.D., M.B.B.S, M.R.C.P, F.R.C.R**

*Professor  
Diagnostic Radiology  
University of Maryland Medical Center  
Baltimore, MD*

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

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

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

*Assistant Professor of Radiology and Pediatrics  
Cincinnati Children's Hospital Medical Center  
Cincinnati, OH*

## Session 1

MRI of the Shoulder - Update

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

Impingent and Rotator Cuff Disease

*William B. Morrison, M.D.*

MRI of the Shoulder: Beyond the Cuff

*Mark H. Awb, M.D.*

MRI of Sports Injuries of the Shoulder

*John F. Feller, M.D.*

## Session 2

How I Take A Case: Shoulder & Ankle

*William B. Morrison, M.D.*

Sports Injuries of the Shoulder

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

Menisci of the Knee: Anatomy and Patterns of Failure

*Donald L. Resnick, M.D.*

Ligaments of the Knee: Footprints of Injury

*Donald L. Resnick, M.D.*

## Session 3

Knee: Extensor Mechanism

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

MRI of the Menisci

*Mark H. Awb, M.D.*

Posterolateral Corner of the Knee  
Made Simple

*William B. Morrison, M.D.*

MRI Evaluation of Patellofemoral Pain in the Athlete

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

## Session 4

Bone and Cartilage Injury

*Donald L. Resnick, M.D.*

MRI of Acute Bone and Cartilage Injuries

*John F. Feller, M.D.*

MRI of Knee Meniscus

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

## Session 5

Introduction to Wrist Imaging

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

Triangular Fibrocartilage of the Wrist

*Donald L. Resnick, M.D.*

Sports Imaging of the Wrist

*Jeffrey J. Peterson, M.D.*

MRI of Wrist and Hand Injuries

*John F. Feller, M.D.*

## Session 6

Introduction to MRI of the Elbow

*John F. Feller, M.D.*

MRI Evaluation of Pediatric Elbow Pain

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

MRI of the Elbow

*Mark J. Decker, M.D.*

MRI of the Ankle

*Mark J. Decker, M.D.*

## Session 7

Ankle Tendon and Ligament Injuries

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

MRI of the Foot and Ankle

*Mark H. Awb, M.D.*

MRI of the Forefoot

*William B. Morrison, M.D.*

## Session 8

MRI Evaluation of Pediatric Foot Pain

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

MRI of the Hip

*Mark J. Decker, M.D.*

MRI of the Hip: Bone, Tendon, Muscle Injuries

*John F. Feller, M.D.*

Hip: Trauma

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

## Session 9

Imaging Pelvic Trauma

*Mark P. Bernstein, M.D.*

MRI Evaluation of Groin Pain in the Athlete

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

Rheumatoid Arthritis and Seronegative  
Spondyloarthropathies

*Jeffrey J. Peterson, M.D.*

## Session 10

Non-traumatic Spinal Emergencies

*Kathleen R. Fink, M.D.*

Acute Injury at the Craniocervical Junction

*Kathirkamanathan Shanmuganathan, M.D., M.B.B.S,  
M.R.C.P, F.R.C.R*

Cervical Spine Trauma: Pearls and Pitfalls

*Mark P. Bernstein, M.D.*

## Session 11

MRI of the Cervical Spine - MSK Perspective

*William B. Morrison, M.D.*

Easily Missed Thoracolumbar Spine Injuries

*Mark P. Bernstein, M.D.*

MRI of the Lumbar Spine:  
A Sports Medicine Approach

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

## Session 12

Degenerative Disc Disease: Pathophysiology and  
New Imaging Techniques

*Wende N. Gibbs, M.D.*

Peripheral Nerves

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

Imaging of Malignant Bone Tumors

*John A. Abraham, M.D.*

## Session 13

Imaging of Extremity Soft Tissue Tumors

*John A. Abraham, M.D.*

Pre and Post Treatment Imaging of  
Spinal Tumors

*Wende N. Gibbs, M.D.*

MR Arthrography Update

*John F. Feller, M.D.*

## Session 14

MRI Following Joint Replacement

*John F. Feller, M.D.*

MR Arthrography

*Jeffrey J. Peterson, M.D.*

Using Musculoskeletal MR Artifacts to Your  
Advantage and Suppressing the Ones You Don't  
Want

*William B. Morrison, M.D.*

## Session 15

MSK Procedures - Biopsies and More

*William B. Morrison, M.D.*

Musculoskeletal MRI Missed Case Conference

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

Tumor Mimickers (Osteomyelitis, Myositis,  
Pseudotumors, and Synovitis)

*John A. Abraham, M.D.*

Osteochondral Lesions:  
What are They Really?

*William B. Morrison, M.D.*

## Session 16

Bone Scintigraphy

*Andrew T. Trout, M.D.*

Optimization of CT and MRI

*William B. Morrison, M.D.*

Fluoride PET/CT Bone Imaging

*Kevin L. Berger, M.D.*

MRI: Advanced Techniques

*William B. Morrison, M.D.*

# CME TEACHING PROGRAMS

Donald L. Resnick, M.D., Presents...

## Internal Derangement of Joints:

Current Concepts and Controversies

Release Date: 7/1/2018 • 22.75 Hours • **\$1,625**

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## Classic Lectures in Head & Neck Imaging

Release Date: 5/1/2018 • 20.0 Hours • **\$1,295**

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## Magnetic Resonance Imaging: National Symposium

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MRI of the Head & Spine  
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## Neuroradiology in Clinical Practice

Release Date: 1/15/2018 • 15.0 Hours • **\$1,050**

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UC San Diego presents...

## Radiology Review Course

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## Classic Lectures in Body Imaging with MR

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CME Teaching Activity

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## **MR & CT Advanced Imaging and Artificial Intelligence**

**February 3 - 8, 2019**

Vail, CO

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*The 7<sup>th</sup>* **Snowmass 2019:**

## **Hot Topics in Radiology:**

Advanced Applications and Artificial Intelligence

**February 10 - 15, 2019**

Snowmass Village, CO

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## **Internal Derangement of Joints 2019:**

Current Concepts and Controversies

**February 15 - 17, 2019**

Coronado, CA

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*The 17<sup>th</sup>*

## **Clinical Nuclear Medicine 2019**

**April 11 - 12, 2019**

Orlando, FL

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*The 24<sup>th</sup>*

## **Clinical Ultrasound 2019**

**April 11 - 13, 2019**

Orlando, FL

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*The 16<sup>th</sup>*

## **PET/CT Imaging 2019**

**April 13 - 14, 2019**

Orlando, FL

*36<sup>th</sup> Annual*

## **Magnetic Resonance Imaging 2019:**

National Symposium

**April 23 - 27, 2019**

Las Vegas, NV

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*The 2<sup>nd</sup>*

## **Noninvasive Vascular Imaging 2019**

**June 6 - 8, 2019**

Las Vegas, NV

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*The 20<sup>th</sup>*

## **Computed Tomography 2019:**

National Symposium

**September 20 - 21, 2019**

Las Vegas, NV

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*12<sup>th</sup> Annual*

## **Neuroradiology in Clinical Practice 2019**

**October 18 - 20, 2019**

Las Vegas, NV

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## **Updates in Thoracic Imaging 2019**

**October 24 - 26, 2019**

Washington, D.C.

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*10<sup>th</sup> Annual*

## **Fetal Echocardiography:**

Normal and Abnormal Hearts

**October 31 - November 2, 2019**

Las Vegas, NV

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*Charles S. White, M.D.*

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Roundtrip from London (Southampton),  
England aboard the Crown Princess

**Book By February 18, 2019**



*Katherine M. Richman, M.D., FACR*

## **Body Imaging in the Baltic**

**July 15 - 26, 2019**

Scandinavia & Russia aboard the Regal Princess  
Roundtrip from Copenhagen, Denmark

**Book By March 17, 2019**



*James Y. Chen, M.D.*

## **Cruising Through the Essentials of Neuroradiology**

**August 3 - 10, 2019**

Inside Passage with Glacier Bay aboard the  
Ruby Princess Roundtrip from Seattle, Washington

**Book By April 5, 2019**



*Russell N. Low, M.D.*

## **Updates in Body MR and Oncologic Imaging**

**September 14 - 21, 2019**

Sail from Athens, Greece to Barcelona, Spain  
aboard the Emerald Princess

**Book By April 17, 2019**