104th Scientific Assembly and Annual Meeting
Radiological Society of North America
McCormick Place, Chicago

November 25–30
Meeting.RSNA.org  #RSNA18
Accreditation and Designation Statements

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 99.25 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of **AMA PRA Category 1 Credit™** to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium

Please refer to each course description in the online program to determine if CME credit is offered for the session. Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposioms will be provided through a third party provider and not through RSNA.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit Meeting.RSNA.org.
Walk Through The Week

SUNDAY, NOV 25, 2018

Case of the Day
Musculoskeletal Sunday Case of the Day
Session ED008-SU .... Case of Day, Learning Center

10:45 AM–12:15 PM
Scientific Papers Sessions
Musculoskeletal (Bone Marrow and Neoplasms)
Session SSA14 ......................... E353C
Musculoskeletal (Lower Extremity)
Session SSA15 ......................... E353B

12:30–1:00 PM
Posters and Exhibits: Discussions
Musculoskeletal Sunday Poster Discussions
Session MKS-SUA .... MK Community, Learning Center

1:00–1:30 PM
Posters and Exhibits: Discussions
Musculoskeletal Sunday Poster Discussions
Session MKS-SUB .... MK Community, Learning Center

1:30–6:00 PM
Educational Courses
Interventional Oncology Series: Lung, Kidney and Bone
Course VSI011 ......................... S405AB

2:00–3:30 PM
Educational Courses
Opportunistic CT Screening for Osteoporosis, Sarcopenia, and Adiposity
Course RC104 ......................... E450B
Imaging of Musculoskeletal Injuries (Interactive Session)
Course RC108 ......................... E451B
Nerve Ultrasound Based on a Regional Approach: Hip to Knee (Hands-on)
Course RC152 ......................... E264

4:00–5:45 PM
Plenary Sessions
Sunday Afternoon Plenary Session
Session PS12 ......................... Arie Crown Theater
MONDAY, NOV 26, 2018
Case of the Day
Musculoskeletal Monday Case of the Day
Session ED008-MO . . . . . . . Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
You Take the Red Pill-You Stay in Wonderland and I Show You How Deep the Rabbit Hole Goes (Case-based Competition)
Session SPDL20 . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B

8:30–10:00 AM
Educational Courses
Whole-body MRI for Oncologic Decision Making in Bone Disease
Course RC218 . . . . . . . . . . . . . . . . . . . . . . . . . . . S103AB
Advances in CT: Technologies, Applications, Operations-Special Purpose CT
Course RC221 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD
Hands-on Musculoskeletal Ultrasound: A Forum for Question and Answer (Hands-on)
Course RC231 . . . . . . . . . . . . . . . . . . . . . . . . . . . E258

8:30 AM–12:00 PM
Educational Courses
Musculoskeletal Series: Knee MRI
Course RC204 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B

10:30 AM–12:00 PM
Educational Courses
Case-based Review of Magnetic Resonance (Interactive Session)
Course MSCM22 . . . . . . . . . . . . . . . . . . . . . . . . . S100AB

10:30 AM–12:00 PM
Scientific Papers Sessions
Science Session with Keynote: Musculoskeletal (Body Composition)
Session SSC10 . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

12:15–12:45 PM
Posters and Exhibits: Discussions
Musculoskeletal Monday Poster Discussions
Session MKS-MOA . . . . MK Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Musculoskeletal Monday Poster Discussions
Session MKS-MOB . . . . MK Community, Learning Center
3:00–4:00 PM
Scientific Papers Sessions
Science Session with Keynote: Emergency Radiology
(Forensic and Musculoskeletal Imaging)
Session SSE06 ........................................... E353A
Musculoskeletal (Upper Extremity)
Session SSE15 ................................. N228
Musculoskeletal (Metal Artifact Reduction Techniques)
Session SSE16 ................................. N227B

4:30–6:00 PM
Educational Courses
3D Medical Printing Applications I
Course RCC25 ........................................... S501ABC

TUESDAY, NOV 27, 2018
Case of the Day
Musculoskeletal Tuesday Case of the Day
Session ED008-TU ............. Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
The RAD Files: The Truth is Out There (Case-based Competition)
Session SPDL30 ................................. E451B

8:30–10:00 AM
Educational Courses
Emerging Technology: Dual Energy and Spectral CT Update 2018
Course RC317 ................................. S505AB

8:30 AM–12:00 PM
Educational Courses
Musculoskeletal Series: Ultrasound
Course RC304 ................................. E450A
Pediatric Series: Musculoskeletal Imaging
Course RC313 ................................. N228

10:30 AM–12:00 PM
Educational Courses
Case-based Review of Nuclear Medicine: PET/CT Workshop-
Chest and Musculoskeletal PET/CT (In Conjunction with SNMMI) (Interactive Session)
Course MSCC32 ................................. E450B
10:30 AM–12:00 PM
Scientific Papers Sessions
Musculoskeletal (Machine Learning and Artificial Intelligence)
Session SSG08 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

12:15–12:45 PM
Posters and Exhibits: Discussions
Musculoskeletal Tuesday Poster Discussions
Session MKS-TUA . . . . . . MK Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Musculoskeletal Tuesday Poster Discussions
Session MKS-TUB . . . . . . MK Community, Learning Center

3:00–4:00 PM
Scientific Papers Sessions
Musculoskeletal (Advances in Computed Tomography)
Session SSJ15 . . . . . . . . . . . . . . . . . . . . . . . . . . . E350
Musculoskeletal (Muscle, Tendon and Nerve)
Session SSJ16 . . . . . . . . . . . . . . . . . . . . . . . . . . . E353B
Vascular Interventional (Spine and Bone Intervention)
Session SSJ26 . . . . . . . . . . . . . . . . . . . . . . . . . . . S502AB

3:30–5:00 PM
Educational Courses
Essentials of Musculoskeletal
Course MSES34 . . . . . . . . . . . . . . . . . . . . . . . . . S100AB

4:30–6:00 PM
Educational Courses
Interpretation of Musculoskeletal Radiographs: A Forgotten Art
Course RC404 . . . . . . . . . . . . . . . . . . . . . . . . . . . E353C
Emerging Technology: 3D Joint Imaging
Course RC417 . . . . . . . . . . . . . . . . . . . . . . . . . . . S505AB
Dynamic Musculoskeletal US: Clicks and Clunks of the Upper Extremity (Hands-on)
Course RC452 . . . . . . . . . . . . . . . . . . . . . . . . . . . E264

WEDNESDAY, NOV 28, 2018
Case of the Day
Musculoskeletal Wednesday Case of the Day
Session ED008-WE . . . . . . Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
Keeping Radiology Weird: Spot Diagnoses from the Pacific Northwest (Case-based Competition)
Session SPDL40 . . . . . . . . . . . . . . . . . . . . . . . . . . E451B
Hot Topic Session: Fast MSK MR Imaging
Session SPSH40.......................... E450A

**8:30 AM–12:00 PM**

**Educational Courses**
Musculoskeletal Series: Shoulder MRI
Course RC504............................ S406A

**8:30–10:00 AM**

**Educational Courses**
RSNA/ESR Sports Imaging Symposium: Upper Extremity
Sports Injuries
Session MSSR41............................ E352
Vertebral Augmentation (Hands-on)
Course RC550............................. E260

**10:30 AM–12:00 PM**

**Educational Courses**
Case-based Review of Pediatric Radiology (Interactive Session)
Course MSCP42............................ E450B
RSNA/ESR Sports Imaging Symposium: Lower Extremity
Sports Injuries
Session MSSR42............................ E352

**Scientific Papers Sessions**
Musculoskeletal (Advances in MR Imaging)
Session SSK13............................. N229

**12:15–12:45 PM**

**Posters and Exhibits: Discussions**
Musculoskeletal Wednesday Poster Discussions
Session MKS-WEA.......................... MK Community, Learning Center

**12:45–1:15 PM**

**Posters and Exhibits: Discussions**
Musculoskeletal Wednesday Poster Discussions
Session MKS-WEB.......................... MK Community, Learning Center

**1:30–3:00 PM**

**Educational Courses**
Essentials of Pediatric Imaging
Course MSES43............................ S100AB
RSNA/ESR Sports Imaging Symposium: Musculoskeletal Interventional Procedures
Session MSSR43............................ E352
3:00–4:00 PM
Scientific Papers Sessions
Musculoskeletal (Novel Signs and Patterns)
Session SSM15 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450B

3:30–5:00 PM
Educational Courses
RSNA/ESR Sports Imaging Symposium: Postoperative Imaging of Sports Injuries
Session MSSR44 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E352

4:30–6:00 PM
Educational Courses
Neuro and MSK (Case-based Competition)
Session SPDL41 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B

THURSDAY, NOV 29, 2018
Case of the Day
Musculoskeletal Thursday Case of the Day
Session ED008-TH . . . . . . . Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Case-based Review of Musculoskeletal Radiology (Interactive Session)
Course MSCS51 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S100AB
Interactive Game: When Do Imaging Findings Make a Difference? (Interactive Session)
Course RC618 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E353B
Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on)
Course RC631 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E263
Live Ultrasound Interventional Procedures: Joint Injections, Cyst Aspiration, Abscess Drainage, Vascular Access, Core Biopsy, and Foreign Body Removal (Hands-on)
Course RC652 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E264

8:30 AM–12:00 PM
Educational Courses
Musculoskeletal Series: Musculoskeletal Interventions
Course RC604 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E353C

10:30–11:30 AM
Educational Courses
ASRT@RSNA 2018: Techniques That Can Make or Break Musculoskeletal Imaging - A Case-Based Approach
Course MSRT53 . . . . . . . . . . . . . . . . . . . . . . . . . . . . N230B
10:30 AM–12:00 PM
Educational Courses
Case-based Review of Musculoskeletal Radiology (Interactive Session)
Course MSCS52 ........................................... S100AB

10:30 AM–12:00 PM
Scientific Papers Sessions
Molecular Imaging (Musculoskeletal, Gastrointestinal, Cardio)
Session SSQ12 ............................................. S504CD
Musculoskeletal (Arthritis and Cartilage)
Session SSQ13 ............................................. E451A

12:15–12:45 PM
Posters and Exhibits: Discussions
Musculoskeletal Thursday Poster Discussions
Session MKS-THA. . . . MK Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Musculoskeletal Thursday Poster Discussions
Session MKS-THB. . . . MK Community, Learning Center

4:30–6:00 PM
Educational Courses
Imaging of the Hand and Wrist: How to Add Value
Course RC704............................................. S406B
Image-guided Biopsy of the Spine (Hands-on)
Course RC731 ............................................. E263

FRIDAY, NOV 30, 2018
8:30–10:00 AM
Educational Courses
Ligamentous Injuries of the Knee: Mechanistic Approach with Emphasis on MR Imaging
Course RC804............................................. E451A

Review of Pediatric Nuclear Medicine
Course RC811 ............................................. E263

9:30 AM–12:30 PM
Educational Courses
International Symposium in Musculoskeletal Radiology (In Conjunction with Asian Musculoskeletal Society (AMS), European Society of Musculoskeletal Radiology (ESSR), German Society of Musculoskeletal Radiology (DGMSR), International Skeletal Society (ISS), Korean Society of Musculoskeletal Radiology (KSMR) and Society of Skeletal Radiology (SSR))
Session SPIS61 ............................................. E450A
10:30 AM–12:00 PM
Scientific Papers Sessions
Musculoskeletal (Spine)
Session SST05 ................................................. E351

Posters and Exhibits
Discussions
(CME is available when the author is present for discussion during the lunch period)

SUNDAY, NOV 25, 2018
12:30–1:00 PM
Scientific Posters
Bony and Muscular Differences in Temporomandibular Joint Disorders on MRI
MK348-SD-SUA3 .............................. Station #3
Imaging Can Finally Be Used to Decide on Therapy of Cartilaginous Tumors in Long Bones: Resection or Curettage
MK349-SD-SUA4 .............................. Station #4
MR Anatomical-Histological Correlation of the Adductor Longus-Rectus Abdomins-Pubic Ligament Complex
MK350-SD-SUA5 .............................. Station #5
Sonoelastography of the Supraspinatus and Infraspinatus Tendons in Patients with Adhesive Capsulitis of Shoulder
MK347-SD-SUA2 .............................. Station #2
The Echogenic Appearance of the Diabetic Deltoid Muscle on Shoulder Ultrasound: Is This Simply from Adipose Tissue Infiltration, Can This Appearance Predict Type 2 Diabetes and be Used to Detect Pre-Diabetes?
MK346-SD-SUA1 .............................. Station #1

12:30–1:00 PM
Education Exhibits
Dual-Energy X-ray Absorptiometry (DXA): Beyond Filling in the Numbers
MK342-ED-SUA6 .............................. Station #6

1:00–1:30 PM
Scientific Posters
Fat Fraction Variation in Vertebrae: A Potential Biomarker in Evaluation of Bone Marrow Health
MK354-SD-SUB4 .............................. Station #4
Microflow Imaging Technology of Ultrasound Examination for Diagnosis of Adhesive Capsulitis of the Shoulder  
MK353-SD-SUB3 .......................... Station #3

Painful Type II Navicular Os: MRI Findings and Classification  
MK355-SD-SUB5 .......................... Station #5

Rapidly Progressive Osteoarthropathy of the Hip: A Study of 1471 Patients After Steroid Injection  
MK351-SD-SUB1 .......................... Station #1

Whole Body MRI for Breast Cancer Staging: The Roles of the Static Field Strength and Gadolinium Contrast Agents in Focus  
MK352-SD-SUB2 .......................... Station #2

1:00–1:30 PM  
Education Exhibits  
Soft Tissue Calcification - An Interactive Pictorial Quiz  
MK343-ED-SUB6 .......................... Station #6

MONDAY, NOV 26, 2018  

12:15–12:45 PM  
Scientific Posters  
Arterial Spin-Labeling MR Imaging of Painful Shoulder Disorders  
MK358-SD-MOA3 .......................... Station #3

MK361-SD-MOA6 .......................... Station #6

Empirical Mathematical Model for Dynamic Contrast-Enhanced MRI in Patients with Rheumatoid Arthritis: A Novel Technique to Monitor the Clinical Disease Activity  
MK356-SD-MOA1 .......................... Station #1

Imaging Quantification of Glenoid Bone Loss in Patients with Glenohumeral Instability: A Systematic Review  
MK359-SD-MOA4 .......................... Station #4

Periprosthetic Heating During Metal Artifact Reduction Sequence Magnetic Resonance Imaging of Hip Arthroplasty Implants at 3T  
MK360-SD-MOA5 .......................... Station #5

Structural Abnormalities on Knee MRI Associated with Normal Aging over 6 years: Data from the Osteoarthritis Initiative  
MK362-SD-MOA7 .......................... Station #7

The Comma Sign: Can We Find It on Shoulder MRI?  
MK357-SD-MOA2 .......................... Station #2

12:15–12:45 PM  
Education Exhibits
A Name to Remember: What is the Eponym of the Fracture? MK344-ED-MOB8  Station #8

12:45–1:15 PM

Scientific Posters

Automatic Diagnosis Of ACL Tear On X-Ray In Trauma Patients: Achieving “Expert Level” Perception Of Subtle Radiology Findings (Segond Fracture) Using a Sparse Data Set MK365-SD-MOB3  Station #3

Evaluation of Age-related Changes in the Posterior Cruciate Ligament using T2* Maps Derived from MR Images with an Ultra-short TE Sequence MK367-SD-MOB5  Station #5

Evaluation of CT Fat Quantification Techniques for Assessing the Rotator Cuff Musculature MK364-SD-MOB2  Station #2

Fast MR Imaging of Isotropic Volumetric Ankle: Acceleration of Three-Dimensional Fast Spin Echo Sequence Using Compressed Sensing Combined with Parallel Imaging MK363-SD-MOB1  Station #1

Precision of Bone Mineral Density Measurements Around Total Ankle Arthroplasty Using Dual Energy X-ray Absorptiometry MK366-SD-MOB4  Station #4

Prospective Comparison Between Radiofrequency Ecographic Multi-Spectrometry (REMS) and Dual Energy X-Ray Absorptiometry (DXA) Osteoporosis Risk Assessment MK369-SD-MOB7  Station #7

Real-Time Dynamic MRI of Finger Motion: A Feasibility Study MK368-SD-MOB6  Station #6

12:45–1:15 PM

Education Exhibits

Guess Who is Who: Tumor versus Tumor Mimicker—Bone and Soft Tissue Tumor Mimickers MK345-ED-MOB8  Station #8
Tuesday, Nov 27, 2018

12:15–12:45 PM
Scientific Posters
Automatic Femoral Neck Fracture Detection and Classification Utilizing Advanced Deep Learning Techniques
MK370-SD-TUA1 .................................. Station #1
Color-Coded Virtual Non-Calcium Dual-Energy CT for the Detection of Lumbar Disc Herniation in Comparison with Standard Grayscale CT using MR Imaging as Standard of Reference: A Multireader Diagnostic Performance Study
MK376-SD-TUA7 ............................... Station #7
CT-Guided Percutaneous Cryoablation of Musculoskeletal Lesions: Success and Fail
MK371-SD-TUA2 ............................... Station #2
Multiple Myeloma: Differentiation of ISS Stage Based on a Diffusion MRI-based Radiomic Signature
MK375-SD-TUA6 ............................... Station #6
Non-invasive MRI Biomarkers of Muscle Injury and Recovery for Muscular Dystrophy
MK373-SD-TUA4 ............................... Station #4
Proton Density Fat Fraction (PDFF) MR Imaging for Differentiation of Acute Benign and Malignant Vertebral Body Fractures
MK372-SD-TUA3 ............................... Station #3
Quantitative Assessment of Power Doppler Signal in the Subchondral Bone Region is an Effective Predictor of Radiographic Progression in the Hand of Rheumatoid Arthritis
MK374-SD-TUA5 ............................... Station #5

12:45–1:15 PM
Scientific Posters
Acoustic Radiation Force Impulse (ARFI) Imaging of Myositis: An Added Value?
MK383-SD-TUB7 ............................... Station #7
Classification of Median Nerve Swelling Pattern in Patients with Carpal Tunnel Syndrome and its Clinical Significance
MK382-SD-TUB6 ............................... Station #6
Deep Learning for Detection of Hip, Knee, and Shoulder Arthroplasty Dislocations and "Transfer Learning" to Native Joint Dislocations
MK380-SD-TUB4 ............................... Station #4
MK379-SD-TUB3 ............................... Station #3
Dual-Energy CT for Display of Bone Marrow Edema in Correlation with MRI: Characterization of Acuteness of Vertebral Compression Fractures on Staging CT

**MK381-SD-TUB5** ........................................ Station #5

Predictor of Short-Term Poor Prognosis Following Percutaneous Vertebroplasty in Postmenopausal Women of Different Ages with Osteoporotic Related Vertebral Compression Fractures

**MK377-SD-TUB1** ........................................ Station #1

Quantitative Assessment of Skin Stiffness Using Ultrasound Shear Wave Elastography in Systemic Sclerosis

**MK378-SD-TUB2** ........................................ Station #2

**WEDNESDAY, NOV 28, 2018**

**12:15–12:45 PM**

**Scientific Posters**

Contrast Extravasation after Shoulder Arthrography: Is it Avoidable?

**MK389-SD-WEA6** ........................................ Station #6

Correlation of Quantitative MRI Measures of Rotator Cuff Muscle Fatty Infiltration to Shoulder Strength and Range of Motion: A Pilot Study of Subjects with Painful Full-Thickness Supraspinatus Tendon Tear and Asymptomatic Controls

**MK388-SD-WEA5** ........................................ Station #5

Detection of Different Degree Traumatic Vertebral Bone Marrow Edema by Virtual Noncalcium Technique of Dual-Source Dual-Energy CT

**MK385-SD-WEA2** ........................................ Station #2

Diagnostic Outcome of Image-Guided Percutaneous Core Needle Biopsy of Sclerotic Bone Lesions: A Meta-Analysis

**MK384-SD-WEA1** ........................................ Station #1

Efficacy of Hybrid Compressed Sensing in Three-Dimensional Isotropic T2-Weighted Fast Spin-Echo for the Lumbar Spine

**MK386-SD-WEA3** ........................................ Station #3

MRI-Based Radiomic to Assess Lipomatous Soft Tissue Tumors Malignancy: A Pilot Study

**MK387-SD-WEA4** ........................................ Station #4

**12:45–1:15 PM**

**Scientific Posters**

3D-MRI versus 3D-CT in the Evaluation of Osseous Anatomy in Femoroacetabular Impingement using Dixon 3D FLASH Sequence

**MK393-SD-WEB4** ........................................ Station #4

Adhesive Capsulitis: Are We Making the Diagnosis Before Clinicians?

**MK392-SD-WEB3** ........................................ Station #3
Evaluation of Glenoid Labral Tears: Comparison Between Dual Energy CT Arthrography and MR Arthrography of the Shoulder
MK394-SD-WEB5 ............................ Station #5

High-Frequency Ultrasound Evaluation of the Nail and Terminal Extensor Tendon in Psoriasis
MK391-SD-WEB2 ............................ Station #2

Paraspinal Lean Muscle Mass Analysis using MRI in Patients with Adjacent Segment Disease after Lumbar Fusion
MK390-SD-WEB1 ............................ Station #1

The Meniscal Comma Sign: Characterization and Clinical Importance of a Displaced Meniscal Fragment in the Meniscotibial Recess
MK395-SD-WEB6 ............................ Station #6

THURSDAY, NOV 29, 2018
12:15–12:45 PM

Scientific Posters
A Method to Improve the Image Quality of Spine CT on Reducing Metal Artifacts Caused by Pedicle Screws in Patients
MK398-SD-THA3 ............................ Station #3

Detection of Spondylolysis: Is Replacement of CT by Ultrashort Time to Echo (UTE) MR Sequences Feasible? A Human Cadaveric Spine Study
MK399-SD-THA4 ............................ Station #4

Dual-Energy Computed Tomography for Differentiation of Infiltration Patterns in Multiple Myeloma: A Feasibility Study
MK397-SD-THA2 ............................ Station #2

Fracture Risk Assessment of Diabetes Mellitus Patients: Comparison of Trabecular Bone Analysis by Tomosynthesis with Various Established Estimations
MK396-SD-THA1 ............................ Station #1

MRI-Detected Structural Damage and Longitudinal Change in Femorotibial Cartilage T2 Values in Radiographically Normal Joints
MK400-SD-THA5 ............................ Station #5

Preoperative Intraarticular Hip Injections and the Risk of Postoperative Infection after Total Hip Arthroplasty
MK401-SD-THA6 ............................ Station #6

12:45–1:15 PM

Scientific Posters
Correlation of the New MRI Grading System for Cervical Foraminal Stenosis Based on Axial T2-Weighted Images with Severity of Neurological Manifestations
MK402-SD-THB1 ............................ Station #1
Hyperintensity of Vertebral Lesions in Relation to the Spinal Cord on T1-Weighted MR images: A Sign to Differentiate Multiple Myeloma from Metastasis

MK405-SD-THB4 . . . . . . . . . . . . . . . . . . . . . . Station #4

Injury Patterns of Medial Patellofemoral Ligament in Patients with Acute Anterior Cruciate Ligament Tear: Is Associated with the Patellofemoral Osteoarthritis after ACL Reconstruction?

MK404-SD-THB3 . . . . . . . . . . . . . . . . . . . . . . Station #3

Silent Progression in Patients with Rheumatoid Arthritis: Is DAS28 Remission an Insufficient Goal in RA?

MK406-SD-THB5 . . . . . . . . . . . . . . . . . . . . . . Station #5

Three-Dimensional Magnetic Resonance Imaging Improved Diagnostic Accuracy for Posterior Ligamentous Complex Disruption Based on an In Vitro Study

MK403-SD-THB2 . . . . . . . . . . . . . . . . . . . . . . Station #2

Ultrasound-Guided Percutaneous Needle Tenotomy Using Tenex Technique for Lateral Epicondylitis: Effectiveness and Contributing Factors

MK407-SD-THB6. . . . . . . . . . . . . . . . . . . . . . Station #6
<table>
<thead>
<tr>
<th>SPACE NO.</th>
<th>EXHIBIT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK001-EB-X</td>
<td>Tibial Pilon Fractures: What Radiologists Need to Know</td>
</tr>
<tr>
<td>MK002-EB-X</td>
<td>Underestimated Ligament Injuries in MRI: How Maneuvers Can Help</td>
</tr>
<tr>
<td>MK003-EB-X</td>
<td>A Bump, So What? High-Resolution Ultrasound (HRUS) of Soft-Tissue Superficial Palpable Lesions (STSPS)</td>
</tr>
<tr>
<td>MK004-EB-X</td>
<td>Ultrasound and Color-Doppler Imaging of Non-Melanoma Skin Tumors</td>
</tr>
<tr>
<td>MK005-EB-X</td>
<td>Rice Bodies: Leaving Routine 'RICE with BEAN'</td>
</tr>
<tr>
<td>MK006-EB-X</td>
<td>Do You Know How Many Fat Pads Useful in the Diagnosis of Msk Disease?: Anatomic and Case Review of Fat Pad Sign in the Whole Body</td>
</tr>
<tr>
<td>MK007-EB-X</td>
<td>Strain Ratio in Sonoelastography of the Achilles Tendon: A Comparison Between Asimptomatic Professional Athletes and Sedentary Volunteers</td>
</tr>
<tr>
<td>MK008-EB-X</td>
<td>Resonating with Rockwood: MRI of Acromioclavicular Joint Injuries</td>
</tr>
<tr>
<td>MK009-EB-X</td>
<td>Vascularized Composite Allograft (VCA)! Not An Everyday Graft Evaluation - Upper Limb Transplantation: What the Radiologist Needs to Know</td>
</tr>
<tr>
<td>MK010-EB-X</td>
<td>Grow a Spine: Paravertebral Ligamentous Ossifications</td>
</tr>
<tr>
<td>MK011-EB-X</td>
<td>Time to Add DWI to Your MSK Tumor Protocol</td>
</tr>
<tr>
<td>MK012-EB-X</td>
<td>The High Cost of a Cheap Resort: Radiological Spectrum of the Injected Biopolymers Complications</td>
</tr>
<tr>
<td>MK100-ED-X</td>
<td>Arch Enemies: Elevate your Knowledge of Adult Flatfoot Deformity</td>
</tr>
<tr>
<td>MK101-ED-X</td>
<td>Etiology-Based Imaging Review of Soft Tissue Calcification and Ossification</td>
</tr>
<tr>
<td>MK102-ED-X</td>
<td>Time Wounds All Heels: The Musculoskeletal Sequelae of High-Heeled Shoes</td>
</tr>
</tbody>
</table>
MK103-ED-X Synovial Sarcomas: An Institutional Review of the Imaging Characteristics in Pathologically Proven Cases
MK104-ED-X TB or Not TB: Imaging Features of Musculoskeletal Tuberculosis
MK105-ED-X Anterior Glenohumeral Instability: A Systematic and Structured Approach with Arthroscopic Correlation
MK106-ED-X Imaging of Rotator Cuff Reconstructions for Massive Rotator Cuff Tears: What the Radiologist Needs to Know
MK107-ED-X Ankle Instability in Sports: Anatomy, Imaging Approach, and Treatment
MK108-ED-X Carpal Scaphoid Fractures Radiologist Role and Surgical Perspectives
MK110-ED-X A Case-based Imaging Review of Mazabraud Syndrome
MK111-ED-X Preserving the Six-Pack: Multimodality Imaging Assessment of Abdominal Wall Injuries from Initial Injury Through Recovery
MK112-ED-X Anterior Cruciate Ligament Graft Tears Mimicking Cyclops Lesions on Magnetic Resonance Imaging: Pseudocyclops
MK113-ED-X Behind the Scenes of Ballet: The Imaging Spectrum of Musculoskeletal Injuries in Elite Ballet Dancers
MK114-ED-X The Role of Imaging in Leukemia
MK115-ED-X New Approach to Osteoporosis: Bone Microstructure Revealed by Ultra-High Resolution CT
MK116-ED-X Dealing with a Pain in the Butt: Ultrasound-Guided Musculoskeletal Intervention of the Hip
MK117-ED-X Treating Pain with a Little In-'Genu'-ity: Ultrasound-Guided Musculoskeletal Intervention of the Knee and Ankle
MK118-ED-X Posterior Tibial Tendon Dysfunction: Sonographic Guided Evaluation and Treatment Options
MK119-ED-X A Radiologist's Guide to Posterior Tibial Tendon Dysfunction with Surgical Implementations
MK120-ED-X  Hip Impingement Syndromes: What the Surgeon Wants to Know
MK121-ED-X  MRI in Neuromuscular Disorders
MK122-ED-X  Imaging in Psoriatic Arthritis: How, When, and Why
MK123-ED-X  Multiple Hereditary Exostoses: Genetics, Classic Multimodality Imaging Features, and Review of Complications - Differential Diagnosis, and Treatment Options
MK124-ED-X  Soft-Tissue Tumors in the Wrist and Hand: A Systematic Imaging Approach
MK125-ED-X  Positive MRI of the Sacroiliac Joint in the ASAS Criteria for Diagnosing Axial Spondyloarthritis: Not Everything That Glitters is Gold
MK126-ED-X  Imaging Features of Peripheral Arthritis: A Systematic Imaging Approach
MK127-ED-X  Hanging by a Thread: Pictorial Review of Surgical Options and Complications in Biceps Tenodesis
MK128-ED-X  Work Related Musculoskeletal Disorders in Radiologists and Reading Room Ergonomics
MK129-ED-X  Shining a Light on Shin Tumors: Tumors of the Tibia
MK130-ED-X  Clinical, Radiographic, MRI and US Evaluation of the Acquired Adult Flatfoot Deformity
MK131-ED-X  MRI and Arthroscopic Correlation: A Review of Common Hip Pathology
MK132-ED-X  Ultrasound of Hand and Wrist: What Surgeons Want to Know - Image and OR Finding Correlation
MK133-ED-X  Arachnoiditis Ossificans: A Rare but Potentially Disabling Disease
MK134-ED-X  Quantitative Magnetic Resonance Imaging (Q-MRI) for the Assessment of Soft-Tissue Sarcoma Necrosis, Viable Tumor Volume, and Treatment Response
MK135-ED-X  Musculoskeletal Manifestations of Recreational Drug Abuse
MK137-ED-X  Things Are Heating Up-Friction Related Knee Pain: An MRI Review
MK138-ED-X  Paget’s Disease of Bone: Typical and Atypical Imaging Findings
MK139-ED-X  The Elbow: Review of Anatomy and Common Pathologies Using MRI
MK140-ED-X  Tibial Tubercle Fractures: Understanding the Ogden Classification System
MK141-ED-X  Don’t Paralyze! A Pocket Guide for Musculoskeletal Surveillance in Patients with Cerebral Palsy
MK142-ED-X  Everything You Want to Know About Chondromyxoid Fibromas! From Typical to Atypical and Its Differentials
MK143-ED-X  Pulse Sequences Used in Musculoskeletal MRI Exams: A Review for Residents and Fellows
MK144-ED-X  MR Imaging of Growth Arrest in Bones and Disuse Osteopenia
MK145-ED-X  Update on Ultrasound Study of Subcutaneous Foreign Bodies: Pitfalls, Complications, and Differences Depending on Composition
MK146-ED-X  Pitfalls, Anatomical Variations, and Artifacts in Shoulder MRI: Frequent Causes of Overcall!
MK147-ED-X  320-Detector Row Dual-Energy CT Detects Bone Bruise: Development and Performance of Bone Bruise Imaging Without MRI
MK148-ED-X  Deep Gluteal Space Syndrome: Imaging Diagnosis and Imaging-Guided Therapies
MK149-ED-X  A Radiologist’s Guide to Normal and Abnormal Accessory Ossicles and Unfused Secondary Ossification Centers
MK150-ED-X  Watch Your Step! Metatarsalgia’s Differential Diagnosis on MRI
MK151-ED-X  An Introduction to Regenerative Peripheral Nerve Interface
MK152-ED-X  Muscle Anomalies of the Thorax and Abdomen
MK153-ED-X  Quadriceps Femoris Muscle Complex Imaging Anatomy: It Keeps Going, Going, and Going...
MK154-ED-X Multimodality Imaging Review of Tarsal Coalition: A Commonly Overlooked Cause for Foot Pain

MK155-ED-X Gout in the Tropics: DECT Differences from Colder Climates

MK156-ED-X Sonographic Evaluation of Peripheral Nerve Pathology: A Review of the Pathophysiology, Imaging Features, and Differential Diagnoses of Commonly Encountered Traumatic, Entrapment and Neoplastic Mononeuropathies

MK157-ED-X Sonographic Evaluation of Acute Injuries to the Hand and Wrist: An Illustrative Review of the Pathophysiology, Imaging Features, and Differential Diagnostic Considerations

MK158-ED-X Traumatic Shoulder Instability: A Comprehensive Review

MK159-ED-X Fracture Healing Assessment: Techniques, Definitions, Challenges, and Future Directions

MK160-ED-X Focal Lesions of Vertebral Body: Systematic Approach with Valuable Tips

MK161-ED-X What Can the Radiologist Tell About Multiple Vertebral Lesions Beyond Metastasis from Thorax CT?

MK162-ED-X An Overview of the ABER Sequence in MR Shoulder Arthrography

MK163-ED-X Where to Draw the Line: Anatomical Measurements Used to Evaluate Patellofemoral Instability

MK164-ED-X Imaging Review of Tumors and Tumor-Like Lesions of the Wrist

MK165-ED-X Cinematic Rendering of Musculoskeletal Trauma: Possibilities and Opportunities

MK166-ED-X Incidental or Life-threatening? A Case-based Review of Osteochondroma Related Pathology from Mechanical Complications to Malignant Degeneration

MK167-ED-X Lymphedema of the Upper and Lower Extremities: What the Radiologist Needs to Know

MK168-ED-X The Conundrum of Soft Tissue Infections: Pearls and Pitfalls of MR Imaging

MK170-ED-X Conventional and Advanced MRI for Sarcopenia Assessment

MK171-ED-X Morell-Lavallee Lesions: When to be Suspicious and the Radiologists Role in Treatment

MK172-ED-X Clearing the Fog from Fogmachines: Breaking Down Lucent Bone Lesions on Plain Film, with Cross-Sectional Correlates


MK174-ED-X The Unfolded Rib View: Promises and Challenges

MK175-ED-X Frozen Hip: Don’t ‘Let It Go’

MK176-ED-X MR Evaluation of Bone Marrow

MK177-ED-X Soft Tissue Vascular Malformations: Classic and Unusual Appearance

MK178-ED-X Biopsy Challenge in Dedifferentiated Chondrosarcomas

MK179-ED-X Viscosupplementation: A Slippery Slope to Treatment

MK180-ED-X Anatomical Considerations for Safe Biopsy of Extremity Osseous and Soft Tissue Lesions

MK181-ED-X The Dark Side of Soft Tissue Tumors: A Review of ‘Determinant’ MRI Hypointense Soft Tissue Lesions

MK182-ED-X Stuck in the Middle: Imaging Overview of the Midtarsal Chopart Joint

MK183-ED-X Intra- and Peri-Articular Non-Neoplastic Masses: Let’s Take a Shortcut to the Correct Answer!

MK184-ED-X Delayed Onset Muscle Soreness (DOMS): Pathogenesis, Diagnostics, Treatment, and Prevention

MK185-ED-X MRI Myositis Screening: Value for Money and Time

MK187-ED-X
Bottoms Really Hurt: A Relook Into the Acetabular Injuries

MK188-ED-X
Multimodality Imaging Review of Osseous Stress Injuries throughout the Skeleton

MK189-ED-X
Artifacts in Musculoskeletal Ultrasound: Boon or Bane!

MK190-ED-X
MR Imaging of Chondrogenic Tumors: Update on Selected Imaging Challenges

MK191-ED-X
Magnetic Resonance Imaging Findings of Superior Capsular Reconstruction in the Shoulder

MK192-ED-X
It's Not a Tumor! A Review of Common Bone Tumor Mimickers

MK193-ED-X
Pediatric Knee: Normal Variants and Benign Entities That May Mimic Abnormalities

MK194-ED-X
Imaging Findings in Musculoskeletal Invasive Pneumococcal Disease: How to Recognize

MK195-ED-X
Applications of Dual-Energy Computed Tomography in Musculoskeletal Imaging

MK196-ED-X
Nervous About Nerve Tumors: A Comprehensive Review of Peripheral Nerve Tumors

MK197-ED-X
Painful Corners of the Ankle: Keeping an Eye on the Periphery

MK198-ED-X
High-Resolution MR Imaging of the First Metatarsophalangeal Joint: Gross Anatomy, Histology, and Injury Characterization

MK199-ED-X
Total Knee Arthroplasty Periprosthetic Fractures: What the Radiologist Needs to Know

MK200-ED-X
Pain in the Butt: Imaging Coccygeal Trauma and Coccydynia

MK201-ED-X
Pubalgia and Pubic Dysfunction: Anatomy, Multidisciplinary Approach, and Therapeutic Management

MK202-ED-X
Postmortem Imaging of the Cervical Spine Injuries

MK203-ED-X
Post-Operative Imaging of Soft Tissue Sarcomas

MK204-ED-X
A "Pseudo" Review of Musculoskeletal Radiology
MK205-ED-X Utility of Virtual Non-Calcium Dual Energy CT for Detecting Hip Fractures
MK206-ED-X Nailed It! Everything You Always Wanted to Know About Orthopaedic Hip Screws and Rods (But Were Afraid to Ask)
MK207-ED-X The Nuts and Bolts of Orthopaedic Screws and Plates
MK208-ED-X Image-Guided Interventions in the Ankle and Foot: Practical Tips, Tricks, & Pitfalls
MK209-ED-X Benign and Malignant Lesions in the Maxillofacial Region and Mandible
MK210-ED-X Pelvic Ring Sports Injuries: A Review of Anatomy, Mechanisms of Injury, and Injury Patterns
MK211-ED-X Imaging the “Footprints of Microbes” - Atypical Infections of Spine
MK212-ED-X The Journey to Diagnosis of Mutilating Benign Culprit: Tumor Induced Osteomalacia
MK213-ED-X Indications of Second Look Musculoskeletal Ultrasound Following Magnetic Resonance Imaging
MK214-ED-X Percutaneous Treatment of Post-Operative CSF Leak at the Orthopedic Hospital: A Tutorial and Pictorial Review of Our 10-Year Experience
MK216-ED-X Musculoskeletal Lipomatous Lesions: The Good, Bad, and Ugly
MK217-ED-X Quantitative Dynamic Contrast-Enhanced Ultrasound and Magnetic Resonance Imaging for the Evaluation of Synovitis and Treatment Response in Inflammatory Arthritis
MK218-ED-X Compressed Sensing Magnetic Resonance Imaging (CS-MRI) for Accelerated Knee MR Imaging
MK219-ED-X Hard yet Not Too Hard to Understand-Musculoskeletal Fibromatoses
MK220-ED-X Musculoskeletal Lymphoma - Uncommon Primary Presentation of a Common Disease
| MK221-ED-X | MRI of Peripheral Nerve Injuries: Radiologic-Anatomic Correlation and Role of Imaging in Detection and Characterization of Injury Grade |
| MK222-ED-X | Sticks and Stones May Break My Bones |
| MK223-ED-X | Pearls and Pitfalls for Soft Tissue and Bone Biopsies from Quaternary Orthopedic Oncology Referral Centers: A Cross-Institutional Review |
| MK224-ED-X | Hip Impingement: Multimodality Imaging Review of Femoroacetabular and Atypical Hip Impingement Syndromes |
| MK225-ED-X | MR-Guided MR Arthrography of the Shoulder, Hip, Knee, Wrist, and Elbow: How We Do It |
| MK226-ED-X | Skeletal Dysplasias Made Simple |
| MK227-ED-X | Paget's Disease: A Primer for Residents |
| MK228-ED-X | Use of Ultrasound in the Definition of Lesional Mapping of Peripheral Nerves in Severe Lesions of the Upper Limb |
| MK229-ED-X | Rotational Malalignment of the Lower Limb: An Update for the Radiologist |
| MK230-ED-X | Osteoid Osteoma - Typical and Atypical Presentations |
| MK232-ED-X | Retinacula of the Foot and Ankle What Every Radiologist Should Know About Normal and Pathological Conditions |
| MK233-ED-X | I Is for Infection: A Primer on Commonly Encountered MSK Infections and Their Mimics for the Non-MSK Radiologist |
| MK234-ED-X | Calcaneal Trauma: What the Orthopedist Wants to Know |
| MK235-ED-X | Sorting the Pathology Jargon-Rad Path Correlation of Common Soft Tissue Sarcomas |
| MK236-ED-X | Post-Operative MRI Findings of Superior Capsular Reconstruction |
| MK237-ED-X | Midfoot Pain: An 'Overarching' Case-Based MR Imaging Review |
| MK238-ED-X | Imaging of Musculoskeletal Infection: From Presentation to Treatment |
MK239-ED-X  Temporomandibular Joint: An Imaging Primer
MK240-ED-X  The New Anatomy of the Rotator Cuff of the Shoulder
MK241-ED-X  Sclerosing Bone Dysplasias: What the Radiologist Should Know
MK242-ED-X  No More Tears: A Review of Pediatric Musculoskeletal Infection and It’s Mimics
MK243-ED-X  Pain in the Buttock
MK244-ED-X  Tale of the Sacred Bone: The Sacrum
MK245-ED-X  Achilles Tendinopathy: From Biomechanics to the Imaging
MK246-ED-X  MRI of Postoperative Osteochondral Knee Injuries - Pictorial Essay
MK247-ED-X  Avascular Bone Necrosis Through the Whole Body
MK248-ED-X  Finger MRI Tips: A Tutorial Case-Based Presentation for Residents
MK250-ED-X  Sacroiliac Joint Imaging Beyond Sacroiliitis: New Insights on Old Findings
MK251-ED-X  The Reformatted Sagittal Spine on Abdominal CT: Can a Single Image Make the Diagnosis?
MK252-ED-X  Acuity and Etiology of Vertebral Compression Fractures on Plain Radiography
MK253-ED-X  Imaging Spectra of Ankylosing Spondylitis & It’s Complications Involving the Musculoskeletal System
MK254-ED-X  Traumatic Brachial Plexopathy - Advanced 3T MRI Imaging
MK255-ED-X  The Role of MR and 18F-FDG PET/CT in the Diagnosis of Plasmacytoma: A Pictorial Imaging Review with Pathological Correlation
MK256-ED-X  Operator-Related Errors and Pitfalls in Dual Energy X-Ray Absorptiometry: How to Recognize and Avoid Them
MK257-ED-X  Posterior Shoulder Instability: Radiologic and Orthopedic Evaluation
MK259-ED-X  Post Treatment Imaging of Soft Tissue Sarcomas
MK260-ED-X  Necrotizing Fasciitis: When Can Imaging Be Definitive?
MK261-ED-X  When the Cure Mimics the Disease: Surgical Findings Misinterpreted as Pathology on Musculoskeletal Radiographs
MK262-ED-X  MRI of Postoperative Shoulder: What Should Radiologists Recognize?
MK263-ED-X  How Can MSK Ultrasound Help the Hand Surgeon?
MK264-ED-X  Knee Injuries in Pre-Adolescent Children: MRI - Arthroscopy Correlation
MK265-ED-X  Ultrasonography Imaging and Guided Interventions in Upper Extremity Entrapment Neuropathy
MK266-ED-X  The Radiological Progressive Changes of Giant-Cell Tumours of the Bone in Treatment with Denosumab
MK267-ED-X  MRI - Arthroscopy Correlation of Glenoid Labrum Lesions
MK268-ED-X  Spinal Bone Tumors
MK269-ED-X  The Expanding Role of Wrist Ultrasound in Rheumatoid Arthritis and Its Mimics
MK270-ED-X  When Your Shoulder Leaves the Party: Imaging Features of Shoulder Instability
MK271-ED-X  "SARed out...! What Now, Doc?" SAR, SED, B+RMS, and CEM43°C - What the MSK Radiologist Needs to Know
MK272-ED-X  The Nuts and Bolts of Long Bone Fractures: Radiographic Review of Various Hardware Used to Repair Long Bone Fracture Based on Mechanism of Injury
MK273-ED-X  Musculoskeletal Biopsy 101: From Pre-Procedural Planning to Post Procedure Care
MK274-ED-X  Essential Keys to Diagnosing Tarsal Coalitions
MK275-ED-X  Non-Tumoral Musculoskeletal Pain in Oncologic Patients - It is Not All About the Tumor
MK276-ED-X  Ultrasound Evaluation in Peripheral Neuropathies: A Review
MK277-ED-X  Role of Imaging in Temporomandibular Joint Inflammation and Arthropathy in Children
MK278-ED-X  Musculoskeletal Findings in Achondroplasia: A Short Radiologist’s Pocket Guide
MK279-ED-X  Saving the Opposable Thumb: Essential Imaging to Treatment of First Carpometacarpal Joint Traumatic and Degenerative Disease
MK280-ED-X  Don’t Turf the Toe: What the Radiologist Needs to Know About Turf Toe and Other Painful Entities of the Hallux-Sesamoid Complex
MK281-ED-X  Don’t Put Your Foot in It! - Tips and Trick for Tackling Diabetic Charcot Arthropathy on MRI
MK282-ED-X  Diagnostic Imaging of the Chronic Exertional Compartment Syndrome in the Lower Extremities: Two Steps MRI Images for an Accurate Diagnosis
MK283-ED-X  Musculoskeletal Manifestation of Graft-Versus-Host Disease
MK284-ED-X  Pubic Symphysis: Beyond the Athletic Pubalgia
MK285-ED-X  Manubriosternal Joint Disorders: Imaging Findings and Differential Diagnosis
MK286-ED-X  Case-Based Approach to Image-Guided Musculoskeletal Biopsies: A Primer for Residents
MK287-ED-X  Handbook of Skeletal Muscle DTI for Beginners
MK288-ED-X  Blood or Calcium? Usefulness of Susceptibility Weighted Imaging (SWI) for Musculoskeletal System Lesions Evaluation
MK289-ED-X  Hip Arthroplasty: Structured Reporting
MK290-ED-X  Patellar Tumoral and Pseudotumoral Lesions
MK291-ED-X  Radiological Aspects of Haemophilic Arthropathy (HA)
MK292-ED-X  Flex Your fingers
MK293-ED-X  From Pre-Op to Post-Op: The Radiologist’s Role in the Evaluation of Femoroacetabular Impingement
MK294-ED-X MRI of Sport-Related Peripheral Nerve Injuries
MK295-ED-X Chronic Recurrent Multifocal Osteomyelitis: A Pattern Approach
MK297-ED-X Crystal Deposition Disease about the Knee: Is MRI Enough for the Diagnosis?
MK298-ED-X Radiology in Hip and Knee Arthroplasties
MK299-ED-X Spine Malformations: Not So Complex, If You Understand the Basics!
MK301-ED-X MRI on Knee Cartilage Repair Surgery - A Step-By-Step for Beginners
MK302-ED-X Synthetic MRI for the Musculoskeletal Radiologist: A Primer
MK303-ED-X Dual-Energy CT Imaging of Gout: Beyond the Diagnosis
MK304-ED-X From Hip to Toe: MRI of Musculoskeletal Overuse Injuries of Lower Limbs in Recreational Athletes
MK305-ED-X Soccer Injuries in the Foot and Ankle: Mechanisms and Radiographic Appearance
MK306-ED-X Central Sarcopenia: What the Oncologist, Oncologic Surgeon, Transplant Surgeon, and Trauma Surgeon Want to Know
MK307-ED-X Tumors of Hand: Benign to Malignant Spectrum with Imaging Characteristics and a Pictorial Review
MK308-ED-X Fibroblastic and Myofibroblastic Tumors in Adults: A Pictorial Review
MK309-ED-X Lighting The Dark: A Radiologist's Primer To Understanding Changes in Bone Marrow Signal Intensity on MRI
MK310-ED-X Chordomas of the Mobile Spine: A Pictorial Review
MK311-ED-X The Lumbar Lexicon: An Imaging Review for Proper Lumbar Disc Nomenclature
MK312-ED-X  MR Perfusion in MSK Tumors: From Physics to Clinical Applications
MK313-ED-X  Extrinsic Ligaments of the Wrist Joint - Anatomy and MRI Imaging
MK314-ED-X  MR Imaging of Non-Neoplastic Skeletal Muscle and Fascia Disorders
MK315-ED-X  Knee Osteochondral Allografts and Autografts: What to Expect and Look For
MK316-ED-X  Vertebral Columns: A Practical Spine Lesions Guide for Residents
MK317-ED-X  MR Imaging of Skeletal Muscle Diseases: Anatomical and Pathological Correlations
MK318-ED-X  Enchondroma versus Low-Grade Chondrosarcoma in Appendicular Skeleton: A Diagnostic Challenge
MK319-ED-X  Looking on the Bright Side: A Review of ‘determinant’ Hyperintense Soft Tissue Lesions
MK320-ED-X  Brachial Plexopathy: Anatomy and Imaging Review
MK321-ED-X  MDCT and MRI in the Evaluation of Pressure Ulcer-Related Pelvic Osteomyelitis - In Bedridden and Wheelchair Patient
MK322-ED-X  Sarcopenia, The Life Wasting Condition: What Radiologists Need to Know?
MK323-ED-X  The Role of 3-T MR Spectroscopy in Evaluation of Oncohaematological Patients Treated with Bone Marrow Transplantation
MK324-ED-X  Peripheral Nerve Tumors and Tumor-Like Lesions: Imaging Characteristics of Ultrasound
MK325-ED-X  Radicular Pain Syndrome: What Radiologist Should Know from Diagnosis to Interventional Management
MK326-ED-X  ‘MRI Mirrors the Histopathology’ - Role of MRI in Synovial Disorders of Knee
MK327-ED-X  Dynamic Ultrasound and Guided Intervention in Cubital Tunnel Ulnar Nerve Subluxation - A Diagnosis Often Overlooked
MK328-ED-X  Lower Limb Malformations: A Practical Guide
MR Imaging of Superior Capsular Reconstruction for Irreparable Cuff Tears - No Bridges Burned! What the Radiologist Needs to Know

Multiple Osteolytic Lesions: Another Approach for a More Accurate Diagnosis

Am I Out of Sight?: Quiz-based Approach to Detect Various Metabolic Diseases in Routine Spine MRI

Humble Yet Remarkable: Routine Hip Radiographic Evaluation as a Road Map for Total Hip Arthroplasty-What Orthopod Wants

Assessment of Soft Tissue Tumors with Advanced MRI Techniques: How It Can Help Narrow Down Your Differential Diagnosis?

Percutaneous Image Guided Musculoskeletal Tumor Treatment

Forefoot Anatomy and Pathology: MRI Findings

Beyond the Barriers: How Critical Is Clinical Input to Overcome Challenges Faced in Imaging of Immediate Postoperative Complications Following Lumbar Spine Surgery?-Case by Case Review of Causes of Immediate Redo Spine Surgeries

 Stranger Views: Making Sense of Uncommonly Orders Projections in Musculoskeletal Radiography

Why Friction? A Pictorial Review of Ankle Impingement Syndromes

Ultrasound Appearance of Common and Uncommon Lumps and Bumps of the Extremities

Beyond Femoroacetabular Impingement: What the Radiologist Should Know

Talalgia: The Wide Spectrum of Heel Pain-Diagnosis and Imaging Findings
Looking for CME That Matters to You and Your Practice?

Visit RSNA’s Online Learning Center for Essential Content Covering Every Subspecialty

- New series: Economics and Health Policy
- Cutting-edge AI Content
- Breast (Imaging and Interventional)
- Neuroradiology
- Musculoskeletal Radiology
- Gastrointestinal Radiology
- And more!

Most courses are free for members.

Visit RSNA.org/Learning-Center today.