MUSCULOSKELETAL RADIOLOGY

104[™] 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 Symposiums 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

ALLUB ALL MAN OF COLO
SUNDAY, NOV 25, 2018 Case of the Day Musculoskeletal Sunday Case of the Day Session ED008-SUCase of Day, Learning Center
10:45 AM-12:15 PM Scientific Papers Sessions Musculoskeletal (Bone Marrow and Neoplasms) Session SSA14
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 VSIO11S405AB
2:00-3:30 PM Educational Courses Opportunistic CT Screening for Osteoporosis, Sarcopenia, and Adiposity Course RC104
Imaging of Musculoskeletal Injuries (Interactive Session) Course RC108
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-MOCase 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
8:30-10:00 AM Educational Courses Whole-body MRI for Oncologic Decision Making in Bone Disease Course RC218
Advances in CT: Technologies, Applications, Operations- Special Purpose CT Course RC221
and Answer (Hands-on) Course RC231
8:30 AM-12:00 PM Educational Courses Musculoskeletal Series: Knee MRI Course RC204
10:30 AM-12:00 PM Educational Courses Case-based Review of Magnetic Resonance (Interactive Session) Course MSCM22
10:30 AM-12:00 PM Scientific Papers Sessions Science Session with Keynote: Musculoskeletal (Body Composition)
Session SSC10

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 Radiololgy (Forensic and Musculoskeletal Imaging) Session SSE06
Musculoskeletal (Upper Extremity) Session SSE15
Musculoskeletal (Metal Artifact Reduction Techniques) Session SSE16
4:30-6:00 PM Educational Courses 3D Medical Printing Applications I Course RCC25
TUESDAY, NOV 27, 2018 Case of the Day Musculoskeletal Tuesday Case of the Day Session ED008-TUCase of Day, Learning Center
7:15 – 8:15 AM Educational Courses The RAD Files: The Truth is Out There (Case-based Competition) Session SPDL30
8:30–10:00 AM Educational Courses Emerging Technology: Dual Energy and Spectral CT Update 2018 Course RC317
8:30 AM-12:00 PM Educational Courses Musculoskeletal Series: Ultrasound Course RC304
Pediatric Series: Musculoskeletal Imaging Course RC313
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 SSG08S1020	
12:15–12:45 PM Posters and Exhibits: Discussions Musculoskeletal Tuesday Poster Discussions Session MKS-TUA MK Community, Learning Center	er
12:45–1:15 PM Posters and Exhibits: Discussions Musculoskeletal Tuesday Poster Discussions Session MKS-TUB MK Community, Learning Center	er
3:00-4:00 PM Scientific Papers Sessions	
Musculoskeletal (Advances in Computed Tomography) Session SSJ15	50
Session SSJ16 E353	ВВ
Vascular Interventional (Spine and Bone Intervention) Session SSJ26	В
3:30-5:00 PM Educational Courses Essentials of Musculoskeletal Course MSES34	ιB
4:30-6:00 PM	
Educational Courses Interpretation of Musculoskeletal Radiographs: A Forgotten A Course RC404	
Emerging Technology: 3D Joint Imaging Course RC417	ιB
Dynamic Musculoskeletal US: Clicks and Clunks of the Upper Extremity (Hands-on)	-
Course RC452	54
WEDNESDAY, NOV 28, 2018 Case of the Day Musculoskeletal Wednesday Case of the Day Session ED008-WECase of Day, Learning Center	er
745 045 444	
7:15-8:15 AM	
Educational Courses Keeping Radiology Weird: Spot Diagnoses from the Pacific Northwest (Case-based Competition) Session SPDL40E451	

Hot Topic Session: Fast MSK MR Imaging Session SPSH40E450A
8:30 AM-12:00 PM Educational Courses Musculoskeletal Series: Shoulder MRI Course RC504S406A
8:30-10:00 AM Educational Courses RSNA/ESR Sports Imaging Symposium: Upper Extremity Sports Injuries Session MSSR41
Vertebral Augmentation (Hands-on) Course RC550
10:30 AM-12:00 PM Educational Courses Case-based Review of Pediatric Radiology (Interactive Session) Course MSCP42
Sports Injuries Session MSSR42
10:30 AM-12:00 PM Scientific Papers Sessions Musculoskeletal (Advances in MR Imaging) Session SSK13
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
RSNA/ESR Sports Imaging Symposium: Musculoskeletal Interventional Procedures Session MSSR43

3:00-4:00 PM Scientific Papers Sessions Musculoskeletal (Novel Signs and Patterns) Session SSM15
3:30-5:00 PM Educational Courses RSNA/ESR Sports Imaging Symposium: Postoperative Imaging of Sports Injuries Session MSSR44
4:30-6:00 PM Educational Courses Neuro and MSK (Case-based Competition) Session SPDL41
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
Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on) Course RC631
Live Ultrasound Interventional Procedures: Joint Injections, Cyst Aspiration, Abscess Drainage, Vascular Access, Core Biopsy, and Foreign Body Removal (Hands-on) Course RC652
8:30 AM-12:00 PM Educational Courses Musculoskeletal Series: Musculoskeletal Interventions Course RC604
10:30 –11:30 AM Educational Courses ASRT@RSNA 2018: Techniques That Can Make or Break Musculoskeletal Imaging - A Case-Based Approach Course MSRT53

10:30 AM-12:00 PM Educational Courses Case-based Review of Musculoskeletal Radiology (Interactive
Session) Course MSCS52
10:30 AM-12:00 PM Scientific Papers Sessions Molecular Imaging (Musculoskeletal, Gastrointestinal, Cardio) Session SSQ12
Session SSQ13
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 RC704S406B
Image-guided Biopsy of the Spine (Hands-on) Course RC731
FRIDAY, NOV 30, 2018
8:30-10:00 AM
Educational Courses Ligamentous Injuries of the Knee: Mechanistic Approach with Emphasis on MR Imaging Course RC804E451A
Review of Pediatric Nuclear Medicine Course RC811
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))
Saccion SDIS61 E/EOA

Session SPIS61..... E450A

10:30 AM-12:00 PM Scientific Papers Sessions Musculoskeletal (Spine) Session SST05
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 #5
Imaging Can Finally Be Used to Decide on Therapy of Cartilaginous Tumors in Long Bones: Resection or Curettage MK349-SD-SUA4
MR Anatomical-Histological Correlation of the Adductor Longus-Rectus Abdomins-Pubic Ligament Complex MK350-SD-SUA5
Sonoelastography of the Supraspinatus and Infraspinatus Tendons in Patients with Adhesive Capsulitis of Shoulder

MK347-SD-SUA2	
The Echogenic Appearance of the Diabetic Deltoid	Muscle on
Shoulder Ultrasound: Is This Simply from Adipose	Tissue
Infiltration, Can This Appearance Predict Type 2 Di	iabetes and

MK346-SD-SUA1 Station #1

12:30-1:00 PM

be Used to Detect Pre-Diabetes?

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
Painful Type II Navicular Os: MRI Findings and Classification MK355-SD-SUB5
Rapidly Progressive Osteoarthropathy of the Hip: A Study of 1471 Patients After Steroid Injection MK351-SD-SUB1
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
MONDAY, NOV 26, 2018
12:15–12:45 PM Scientific Posters Arterial Spin-Labeling MR Imaging of Painful Shoulder Disorders MK358-SD-MOA3
Asynchronous Quantitative Computed Tomography for Bone Mineral Density Measurement in Two Clinics: A Comparability Study Using Cross-Calibration Phantom MK361-SD-MOA6
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
Imaging Quantification of Glenoid Bone Loss in Patients with Glenohumeral Instability: A Systematic Review MK359-SD-MOA4
Periprosthetic Heating During Metal Artifact Reduction Sequence Magnetic Resonance Imaging of Hip Arthroplasty Implants at 3T
MK360-SD-MOA5
The Comma Sign: Can We Find It on Shoulder MRI? MK357-SD-MOA2
12:15-12:45 PM

Education Exhibits

A Name to Remember: What is the Eponym of the Fracture? MK344-ED-MOA8
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
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
Evaluation of CT Fat Quantification Techniques for Assessing the Rotator Cuff Musculature MK364-SD-MOB2Station #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
Precision of Bone Mineral Density Measurements Around Total Ankle Arthroplasty Using Dual Energy X-ray Absorptiometry MK366-SD-MOB4
Prospective Comparison Between Radiofrequency Ecographic Multi-Spectrometry (REMS) and Dual Energy X-Ray Absorptiometry (DXA) Osteoporosis Risk Assessment MK369-SD-MOB7
Real-Time Dynamic MRI of Finger Motion: A Feasibility Study MK368-SD-MOB6
12:45–1:15 PM Education Exhibits Guess Who is Who: Tumor versus Tumor Mimicker—Bone and Soft Tissue Tumor Mimickers MK345-ED-MOB8

TUESDAY, NOV 27, 2018

12:1	 5-1	2:4	5 P	M
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Caia	-+:6:-	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

12:45-1:15 PM

Scientific Posters

Acoustic Radiation Force Impulse (ARFI) Imaging of Myositis: An Added Value?

MK383-SD-TUB7..... Station #7

Deep Learning for Detection of Hip, Knee, and Shoulder Arthroplasty Dislocations and "Transfer Learning" to Native Joint Dislocations

MK380-SD-TUB4 Station #4

Determination of Musculoskeletal Magnetic Resonance Imaging Protocol between Routine Protocol and Radiologist-Tailored Protocol Using Deep-learning Convolutional Neural Networks

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
Predictor of Short-Term Poor Prognosis Following Percutaneous Vertebroplasty in Postmenopausal Women of Different Ages with Osteoporotic Related Vertebral Compression Fractures
MK377-SD-TUB1Station #1
Quantitative Assessment of Skin Stiffness Using Ultrasound Shear Wave Elastography in Systemic Sclerosis MK378-SD-TUB2
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-WEA5Station #5
Detection of Different Degree Traumatic Vertebral Bone Marrow Edema by Virtual Noncalcium Technique of Dual-Source Dual-Energy CT MK385-SD-WEA2Station #2
Diagnostic Outcome of Image-Guided Percutaneous Core Needle Biopsy of Sclerotic Bone Lesions: A Meta-Analysis MK384-SD-WEA1
Efficacy of Hybrid Compressed Sensing in Three-Dimensional Isotropic T2-Weighted Fast Spin-Echo for the Lumbar Spine MK386-SD-WEA3
MRI-Based Radiomic to Assess Lipomatous Soft Tissue Tumors Malignancy: A Pilot Study MK387-SD-WEA4
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
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
Paraspinal Lean Muscle Mass Analysis using MRI in Patients with Adjacent Segment Disease after Lumbar Fusion MK390-SD-WEB1
The Meniscal Comma Sign: Characterization and Clinical Importance of a Displaced Meniscal Fragment in the Meniscotibial Recess
MK395-SD-WEB6 Station #6
THURSDOUL NOV. on . one
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-THA2Station #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-THA6Station #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
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
Silent Progression in Patients with Rheumatoid Arthritis: Is DAS28 Remission an Insufficient Goal in RA? MK406-SD-THB5
Three-Dimensional Magnetic Resonance Imaging Improved Diagnostic Accuracy for Posterior Ligamentous Complex Disruption Based on an In Vitro Study MK403-SD-THB2
Ultrasound-Guided Percutaneous Needle Tenotomy Using Tenex Technique for Lateral Epicondylitis: Effectiveness and Contributing Factors MK407-SD-THB6

Education Exhibits

SPACE NO.	EXHIBIT TITLE
MK001-EB-X	Tibial Pilon Fractures: What Radiologists Need to Know
MK002-EB-X	Underestimated Ligament Injuries in MRI: How Maneuvers Can Help
MK003-EB-X	A Bump, So What? High-Resolution Ultrasound (HRUS) of Soft-Tissue Superficial Palpable Lesions (STSPL)
MK004-EB-X	Ultrasound and Color-Doppler Imaging of Non-Melanoma Skin Tumors
MK005-EB-X	Rice Bodies: Leaving Routine 'RICE with BEAN'
MK006-EB-X	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
MK007-EB-X	Strain Ratio in Sonoelastograhpy of the Achilles Tendon: A Comparison Between Asimptomatic Professional Athletes and Sedentary Volunteers
MK008-EB-X	Resonating with Rockwood: MRI of Acromioclavicular Joint Injuries
MK009-EB-X	Vascularized Composite Allograft (VCA)! Not An Everyday Graft Evaluation - Upper Limb Transplantation: What the Radiologist Needs to Know
MK010-EB-X	Grow a Spine: Paravertebral Ligamentous Ossifications
MK011-EB-X	Time to Add DWI to Your MSK Tumor Protocol
MK012-EB-X	The High Cost of a Cheap Resort: Radiological Spectrum of the Injected Biopolymers Complications
MK100-ED-X	Arch Enemies: Elevate your Knowledge of Adult Flatfoot Deformity
MK101-ED-X	Etiology-Based Imaging Review of Soft Tissue Calcification and Ossification
MK102-ED-X	Time Wounds All Heels: The Musculoskeletal Sequelae of High-Heeled

Shoes

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
MK109-ED-X	A Review of Epidural Spinal Injections: What the Radiologist Needs to Know
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
MK136-ED-X	Overview of Postoperative Findings of Spine: Techniques, Hardwares, Imaging Appearances, and Postoperative Complications

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

MK169-ED-X	No Frozen? You Can Chill: Core Macroscopic Features to Help Determining Adequate Sampling in Soft Tissue Biopsies
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
MK173-ED-X	Why Can't I Extend My Knee? Imaging of Anterior Knee Pain
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!
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