

MSK Webinars or Lectures

Sonographic Evaluation of the Brachial Plexus and Pathologic Variations

<https://learn.aium.org/products/sonographic-evaluation-of-the-brachial-plexus-and-pathologic-variations>

Muscle Tears, Contusions and Heterotopic Ossification: Early Detection and Follow-up using MSKUS

<https://learn.aium.org/products/muscle-tears-contusions-and-heterotopic-ossification-early-detection-and-follow-up-using-mskus>

Decoding Wrist and Hand Tendon Pathology with Ultrasound Imaging

<https://learn.aium.org/products/decoding-wrist-and-hand-tendon-pathology-with-ultrasound-imaging>

A Practical Guide to Elbow Sonography

<https://learn.aium.org/products/a-practical-guide-to-elbow-sonography>

Sonography of the Quadrilateral Space

<https://learn.aium.org/products/sonography-of-the-quadrilateral-space>

Optimizing Treatment of Achilles Tendon Injuries Using Ultrasound Imaging

<https://learn.aium.org/products/optimizing-treatment-of-achilles-tendon-injuries-using-ultrasound-imaging>

Sonographic Evaluation of Common Soccer-Related Injuries

https://learn.aium.org/products/sonographic-evaluation-of-common-soccer-related-injuries#tab-product_tab_details

Ultrasound Evaluation of Hernias

<https://learn.aium.org/products/ultrasound-evaluation-of-hernias>

Sonography of Hand and Finger Disorders

<https://learn.aium.org/products/sonography-of-hand-and-finger-disorders>

Optimizing Treatment of Rotator Cuff–Related Shoulder Pain Using Diagnostic Ultrasound

<https://learn.aium.org/products/optimizing-treatment-of-rotator-cuff-related-shoulder-pain-using-diagnostic->

Improving Clinical Outcomes: How to Integrate Ultrasound Into Your Musculoskeletal Shoulder Examination

<https://learn.aium.org/products/improving-clinical-outcomes-how-to-integrate-ultrasound-into-your-musculoskeletal-shoulder-examination>

Diagnostic Ultrasound of the Wrist and Hand

<https://learn.aium.org/products/diagnostic-ultrasound-of-the-wrist-and-hand>

MSK Ultrasound Evaluation - Differentiation of Tendinopathy vs Tear in the Rotator Cuff with Case Studies

<https://learn.aium.org/products/msk-ultrasound-evaluation-differentiation-of-tendinopathy-vs-tear-in-the-rotator-cuff-with-case-studies>

Sport Ultrasound of the Forefoot

<https://learn.aium.org/products/sport-ultrasound-of-the-forefoot>

Sports Ultrasound of the Plantar Hindfoot

<https://learn.aium.org/products/sports-ultrasound-of-the-plantar-hindfoot>

Neuromusculoskeletal Ultrasound for Peripheral Nerve Entrapment and Nerve Injuries

<https://learn.aium.org/products/neuromusculoskeletal-ultrasound-for-peripheral-nerve-entrapment-and-nerve->

MSK Ultrasound: The Five Most Prevalent Pathologies in Each Joint: Upper Limb

<https://learn.aium.org/products/msk-ultrasound-the-five-most-prevalent-pathologies-in-each-joint-upper-limb>

MSK Ultrasound: The Five Most Prevalent Pathologies in Each Joint: Lower Limb

<https://learn.aium.org/products/msk-ultrasound-the-five-most-prevalent-pathologies-in-each-joint-lower-limb>

Monitoring Joint Health, Damage, and Disease Activity Using MSKUS: The MSKUS Experience in Hemophilic Arthropathy Management

<https://learn.aium.org/products/monitoring-joint-health-damage-and-disease-activity-using-mskus-the-mskus-experience-in-hemophilic-arthropathy-management>

Musculoskeletal Ultrasound Assessment of Tendinopathy

<https://learn.aium.org/products/musculoskeletal-ultrasound-assessment-of-tendinopathy>

Ultrasound-Guided Dry Needling

<https://learn.aium.org/products/ultrasound-guided-dry-needling>

Sideline Ultrasound

<https://learn.aium.org/products/sideline-ultrasound>

Understanding Occupational Musculoskeletal Injuries in Ultrasound Providers and Sonographers

<https://learn.aium.org/products/understanding-occupational-musculoskeletal-injuries-in-ultrasound-providers-and->

RMSK OUTLINE

General Sonographic Anatomy 26%

Abdominal wall

Perform general ultrasound of the ligaments, neurovascular system, and tendons of the abdominal wall

Ankle and foot

Perform general ultrasound of the bones, bursae, cartilage, and joints of the ankle and foot

Perform general ultrasound of the fascia, ligaments, and tendons of the ankle and foot

Perform general ultrasound of the neurovascular system of the ankle and foot

Chest wall

Perform general ultrasound of the bones, bursae, cartilage, ligaments, muscles, neurovascular system, and tendons of the chest wall

Elbow

Perform general ultrasound of the bones, bursae, cartilage, and joints of the elbow

Perform general ultrasound of the tendons of the elbow

Hand and wrist

Perform general ultrasound of the bones, cartilage, joints, and ligaments of the hand and wrist

Perform general ultrasound of the neurovascular system of the hand and wrist

Perform general ultrasound of the tendons of the hand and wrist

Hip and groin

Perform general ultrasound of the bursae, cartilage, joints, and ligaments of the hip and groin

Perform general ultrasound of the neurovascular system of the hip and groin

Perform general ultrasound of the tendons of the hip and groin

Knee

Perform general ultrasound of the bones, bursae, joints, ligaments, and tendons of the knee

Perform general ultrasound of the neurovascular system of the knee

Shoulder

Perform general ultrasound of the bones, bursae, cartilage, joints, and ligaments of the shoulder

Perform general ultrasound of the neurovascular system of the shoulder

Perform general ultrasound of the tendons of the shoulder

General Sonographic Pathology 23%

Abnormal physiology

Evaluate abscesses

Evaluate bone erosion

Evaluate cartilage pathology

Evaluate crystal deposits

Evaluate cystic structures
Evaluate for gas in soft tissues
Evaluate foreign bodies
Evaluate fractures
Evaluate infections
Evaluate joint instability/altered function
Evaluate joint effusions
Evaluate ligament tears
Evaluate masses
Evaluate muscle tears
Evaluate nerve entrapment
Evaluate neuromas
Evaluate subcutaneous abnormalities
Evaluate synovial proliferation
Evaluate synovitis
Evaluate tendon calcification
Evaluate tendon tears

Ultrasound-guided Interventional Procedures 18%

Ankle and foot

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae and joints of the ankle and
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the fascia, ligaments, and tendons of the ankle and foot
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the neurovascular system of the ankle

Chest wall

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, ligaments, muscles, sternoclavicular joints, neurovascular system, and tendons of the chest wall

Elbow

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, and tendons of the

Hand and wrist

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the joints and ligaments of the hand
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the tendons of the hand and wrist
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the neurovascular system of the hand

Hip and groin

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae and joints of the hip and
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the tendons of the hip and groin
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the neurovascular system of the hip

Knee

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae and joints of the knee
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the ligaments and tendons of the knee
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the neurovascular system of the knee

Shoulder

Perform interventional procedures (e.g., aspirations, biopsies, injections) on the bursae, joints, and ligaments of the
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the neurovascular system of the
Perform interventional procedures (e.g., aspirations, biopsies, injections) on the tendons of the shoulder

Integration of Data 7%

Incorporate outside data (e.g., clinic assessment, history and physical, lab values)

Assess anatomy as it relates to trauma
Assess joints with dynamic scanning
Correlate information with previous tests
Correlate sonographic findings with clinical presentation
Report results of the exam

Physics and Instrumentation 26%

Imaging instruments

Adjust beam angle to correct for anisotropy
Adjust imaging depth

Adjust overall gain
Adjust power output
Adjust pulse repetition frequency (PRF)
Adjust sound beam and needle angle for proper visualization of needle
Evaluate acoustic shadowing and refractile shadowing and identify artifacts
Evaluate Doppler artifacts
Focus the image
Identify artifacts (e.g., through transmission, shadowing)
Identify potential risks related to performing the exam
Manipulate transducer position for optimal image acquisition
Perform image measurements
Select appropriate transducer
Select proper ultrasound imaging mode for examination
Use color Doppler
Use curvilinear array transducer
Use dynamic range
Use linear array transducer
Use phased array transducer
Use power Doppler
Use pulsed wave Doppler
Use time gain compensation (TGC)
Use two-dimensional, real-time, gray-scale imaging (e.g., B-mode)