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NEW QUESTION: 1

A practitioner wants to assess the structure marked with an asterisk (*).



What maneuver should the practitioner instruct the patient to perform of the examined joint?

- A. Internal rotation and adduction
- B. Lateral abduction
- C. External rotation
- D. Neutral position

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 2

Which of the following is shown in this longitudinal image of the talonavicular-cuneiform joints in a 15-year-old girl?



- A. Irregularities of the respective midfoot bones indicative of damage as well as surrounding areas indicative of synovial hypertrophy and effusions
- B. The typical appearance of pes equinovarus
- C. The normal appearance of irregular ossification centers of the respective midfoot bones
- D. An inflammatory process in the subcutaneous tissues, possibly an infection, extending into the joint spaces

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 3

How reliable is ultrasound as compared to other imaging modalities for diagnosing synovitis in the joints of the fingers?

- A. Ultrasound is inferior to MRI but superior to X-ray in sensitivity.
- B. Ultrasound is inferior to MRI and X-ray in sensitivity.
- C. Ultrasound is inferior to MRI but superior to clinical exam in sensitivity.
- D. Ultrasound is as sensitive as MRI but superior to X-ray.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 4

A scratch along the rubber sole of a transducer is MOST likely to cause which of the following?

- A. No impact on image acquisition
- B. Risk of electrical shock
- C. Artifact in the B-Mode image
- D. Increased risk of the spread of infection

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 5

In this volar transverse image of the second metacarpophalangeal joint, the hyperechoic focus indicated by the arrow is which of the following?



- A. A metacarpal fragment from prior trauma
- B. A foreign body
- C. A normal sesamoid
- D. The tip of an osteophyte

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 6

Which of the following is TRUE for document storage and record-keeping guidelines and requirements?

- A. All images must be part of the electronic or paper patient file.
- B. The physician's report on the ultrasound examination must be stored in a physically separate location from the machine.
- C. There must be provisions for the storage and retrieval of examination records of all studies that are documented in the medical chart.
- D. Ultrasound studies must be saved in a DICOM (Digital Imaging and Communications in Medicine) format.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 7

In imaging the volar wrist in transverse, this Doppler view helps confirm the presence of which of the following?



- A. Flexor tenosynovitis
- B. Median nerve impingement
- C. Anomalous radial artery
- D. Persistent median artery

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 8

This is a short-axis scan of the supraspinatus tendon in a normal person. What is the finding marked with the arrow?



- A. Calcification of the supraspinatus tendon
- B. Normal deltoid muscle
- C. A probe-generated artifact
- D. Subacromial bursa calcification

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 9

Which of the following images is MOST suggestive of sonographic features of patients with spondyloarthritis?





- A. Option A
- B. Option C
- C. Option B
- D. Option D

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 10

Which of the following protocols would be MOST consistent with a complete routine ultrasound examination of the shoulder?

- A. Anterior long- and short-axis views of the biceps tendon
- oAnterior view of the subscapularis tendon in external rotation

- oLong- and short-axis views of the supraspinatus tendon, moving the transducer anteriorly and posteriorly
- oPosterolateral view of the infraspinatus tendon
- oPosterior view of the glenohumeral joint recess
- oView from cranial at the acromioclavicular joint

B. Anterior long- and short-axis views of the biceps tendon

- oAnterior view of the rotator cuff interval

- oLateral views of the subscapularis tendon

- oLateral long- and short-axis views of the supraspinatus tendon, moving the transducer anteriorly and posteriorly
- oPosterior view of the glenohumeral joint recess
- oDynamic lateral long-axis assessment of impingement with abduction of the arm

C. Anterior long- and short-axis views of the biceps tendon

- oAnterior views of the pectoralis tendon insertion

- oAnterior view of the coracoid ligament and rotator cuff interval

- oLong- and short-axis views of the supraspinatus tendon, moving the transducer anteriorly and posteriorly
- oPosterior long- and short-axis views of the infraspinatus tendon insertion
- oAxillary long-axis view with arm raised

D. Anterior long- and short-axis views of the biceps tendon

- oAnterior view of the rotator cuff interval

- oLong- and short-axis views of the supraspinatus tendon, moving the transducer anteriorly and posteriorly
- oDynamic lateral long-axis assessment of impingement with abduction of the arm

- oPosterior transverse view of the suprascapular notch
- oView from cranial at the acromioclavicular joint

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 11

A 80-year-old man presents with two weeks of wrist swelling and pain. His exam reveals swelling and tenderness over the dorsum of his right wrist as well as synovial swelling of the second and third metacarpophalangeal joints of his left hand. His serum uric acid concentration is 6.0 mg/dL. The longitudinal and transverse images of the dorsal aspect of his right wrist are shown below. What is the MOST likely diagnosis?





- A. Gout
- B. Rheumatoid arthritis
- C. Calcium pyrophosphate arthritis
- D. Psoriatic arthritis

Answer: A (LEAVE A REPLY)

NEW QUESTION: 12

Ultrasound is the MOST appropriate tool to evaluate which of these structures for pathology?

- A. Cartilage loss quantification in a patient with osteoarthritis
- B. Temporomandibular joint in a patient with juvenile idiopathic arthritis, assessing for erosions
- C. Achilles tendon insertion site in a patient with spondyloarthropathy, assessing for enthesopathy
- D. Sacroiliac joint in a patient with positive HLA B27 and inflammatory-type lower back pain, assessing for joint space narrowing

Answer: B (LEAVE A REPLY)

NEW QUESTION: 13

The best way to facilitate visualization of ultrasound images in an exam room.

- A. Decrease the amount of gel in between transducer and skin to improve transmission of sound waves
- B. Decrease high-frequency ambient noise to minimize interfering sound waves
- C. Brighten the ambient lighting to improve the signal-to-noise ratio
- D. Dim the exam room lighting to improve the signal-to-noise ratio (This is the best answer)

Answer: D (LEAVE A REPLY)

NEW QUESTION: 14

Which of the following structures for injection has the BEST evidence for the superiority of ultrasound guidance over palpation alone?

- A. Glenohumeral joint
- B. Subacromial bursa
- C. Flexor digitorum tendon at the A1 pulley

D. Trochanteric bursa

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 15

Which of the following images shows the CORRECT positioning for an ultrasound examination of the infraspinatus tendon?

A. A person sitting in a chair with a machine Description automatically generated



B. A person in a hospital room Description automatically generated with medium confidence



C. A person sitting in front of a machine Description automatically generated

D. A person with no shirt Description automatically generated

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 16

The second finger was examined. Which of the following is shown in the image below?



A. Metacarpophalangeal, palmar longitudinal view

B. Proximal interphalangeal, dorsal longitudinal view

C. Metacarpophalangeal, dorsal longitudinal view

D. Proximal interphalangeal, palmar longitudinal view

Answer: ([SHOW ANSWER](#))

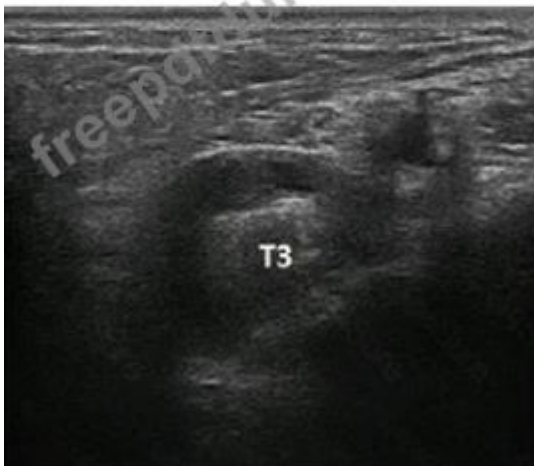
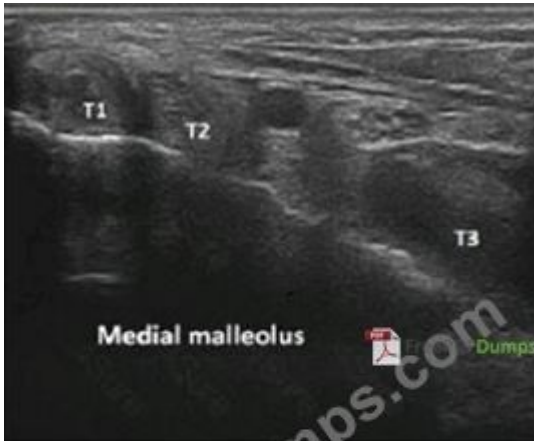
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NEW QUESTION: 17

A 30-year-old female patient with rheumatoid arthritis reports pain at the medial malleolus. The medial side of the ankle is tender and seems to be swollen. How should a practitioner interpret the transverse images at the medial malleolus?



- A. Tenosynovitis of the tibialis anterior tendon
- B. Neuroma of the tibialis posterior nerve
- C. Tenosynovitis of the flexor digitorum
- D. Tenosynovitis of the flexor hallucis longus

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 18

For which of the following conditions is the use of diagnostic musculoskeletal ultrasound appropriate?

- A. Tibial stress fracture
- B. Osgood-Schlatter disease
- C. Anterior cruciate ligament tear
- D. Meniscal tear

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 19

Why is musculoskeletal ultrasound (MSKUS) useful in monitoring the treatment response in rheumatoid arthritis?

- A. Power Doppler ultrasound is sensitive to change in disease activity.
- B. Gray-scale ultrasound can predict the development of erosions.
- C. Power Doppler ultrasound is specific to rheumatoid arthritis disease activity.
- D. MSKUS is able to detect bone marrow edema around joints

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 20

Which situation represents the MOST appropriate indication for a practitioner to perform a musculoskeletal ultrasound in clinical practice?

- A. Assessment of pain and swelling of unclear etiology at the right temporomandibular joint
- B. Assessment of asymptomatic entheses in a patient with pain at the acromioclavicular joint
- C. Preoperative evaluation of a patient with suspected rotator cuff tear
- D. Evaluation of shoulder pain in a patient with diabetes most likely related to adhesive capsulitis

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 21

In performing an in-plane ultrasound-guided procedure, it is helpful to orient the transducer so that the:

- A. Transducer touches the point where the needle penetrates the skin.
- B. Target is as close as possible to the side of the transducer where the needle will be inserted.
- C. Needle angle relative to the transducer is minimized.
- D. Needle crosses the plane of the transducer.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 22

Which of the following ultrasound equipment abnormalities is MOST often seen during regular inspections?

- A. Dead elements
- B. Cracks in the piezoelectric crystals

- C. Electrical leakage
- D. Gouges on the lens material

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 23

Which of the following is MOST likely to cause vertical lines on every image obtained from a piece of ultrasound equipment?

- A. Misaligned time-gain compensation
- B. Increased number of air bubbles in the transducer gel that may impede sound waves
- C. Damage to the transducer cable
- D. Cracks in the transducer that may indicate breakage of piezoelectric crystal elements

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

What is the BEST description for this longitudinal ultrasound scan of a 75-year-old patient with pain in the medial aspect of the knee?



- A. Osteophytes and meniscal cyst
- B. Osteophytes and distension and calcification of the medial collateral ligament
- C. Osteophytes and rupture of the medial collateral ligament
- D. Osteophytes, distension of the medial collateral ligament, and meniscal degeneration

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 25

What is the BEST assessment of these longitudinal images of the pes anserinus region?



- A. Tenosynovitis
- B. Presence of enthesopathy with hyperemia
- C. Reverberation artifact
- D. Normal medial genicular artery signal

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 26

This image shows the sequence of a guided procedure in a patient with rheumatoid arthritis and a mass of the right shoulder. Although guided aspiration was useful for the fluid examination, surgery was performed for a definitive diagnosis of the acromioclavicular cyst. Which condition is the finding MOST associated with this pathology?



- A. Rotator cuff tear

- B. Chondrocalcinosis
- C. Humeral head fracture
- D. Amyloidosis

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 27

Which carpal bone is visualized medially to the ulnar nerve on a transverse scan of the wrist at the level of the distal wrist crease?

- A. Capitate
- B. Triquetrum
- C. Hamate
- D. Pisiform

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 28

A 62-year-old man presents with left shoulder pain. The ultrasound image was taken at the patient's maximum abduction (45 degrees). Which of the following rotator cuff pathologies is BEST evaluated with this shoulder position?



- A. Impingement
- B. Complete tear
- C. Enthesopathy
- D. Intrasubstance tear

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 29

Which of the following is the MOST appropriate approach to use when performing an ultrasound-guided aspiration on a Baker's cyst in the posterior knee of a 76-year-old female patient?

- A. An anteromedial approach at the level of the joint line

- B. A posteromedial approach at the level proximal to the joint line
- C. A posteromedial approach at the level of the mid-gastrocnemius muscle
- D. A posteromedial approach at the level of the joint line

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 30

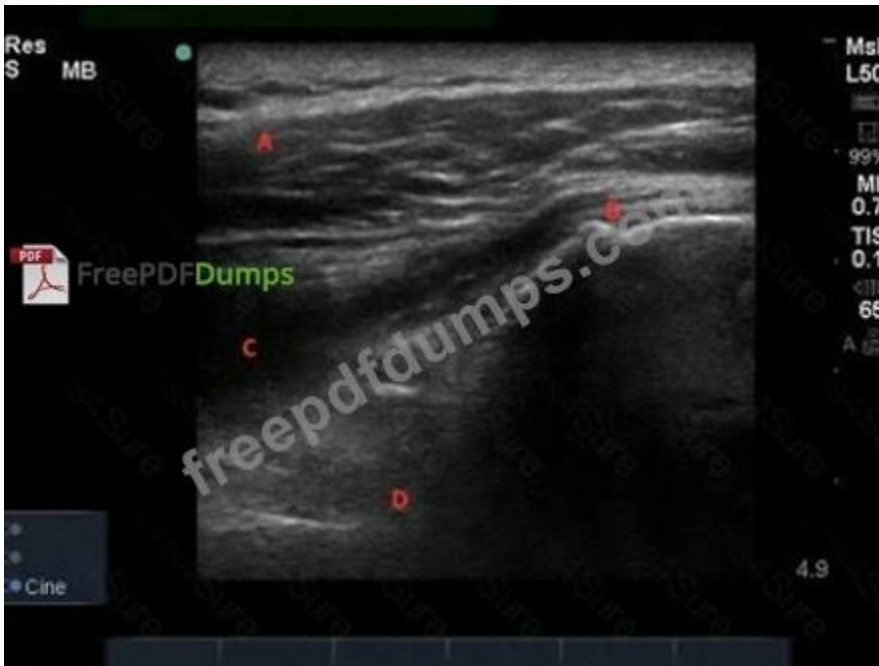
Which of the following is inappropriate for conventional musculoskeletal ultrasound?

- A. Parotid involvement in Sjogren's syndrome
- B. Median nerve entrapment in carpal tunnel syndrome
- C. Supraspinatus tear in rotator cuff syndrome
- D. Muscle involvement in polymyositis

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 31

An 81-year-old male with known shoulder osteoarthritis presents to the office for an ultrasound-guided injection of the glenohumeral joint. Prior to injection, where should the needle tip be visualized?



- A. A
- B. C
- C. D
- D. B

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 32

To improve visualization of the hip joint of an obese patient, it would be BEST to change to a probe with which of the following?

- A. Higher frequency
- B. Curvilinear structure
- C. Smaller footprint
- D. Standoff pad

Answer: B (LEAVE A REPLY)

NEW QUESTION: 33

A 38-year-old woman with recent history of right shoulder subacromial impingement presents for a two-week follow-up after an anatomically guided subacromial/subdeltoid corticosteroid injection. She reports some initial, but only short-lived, improvement of her right shoulder pain and discomfort with arm elevation.

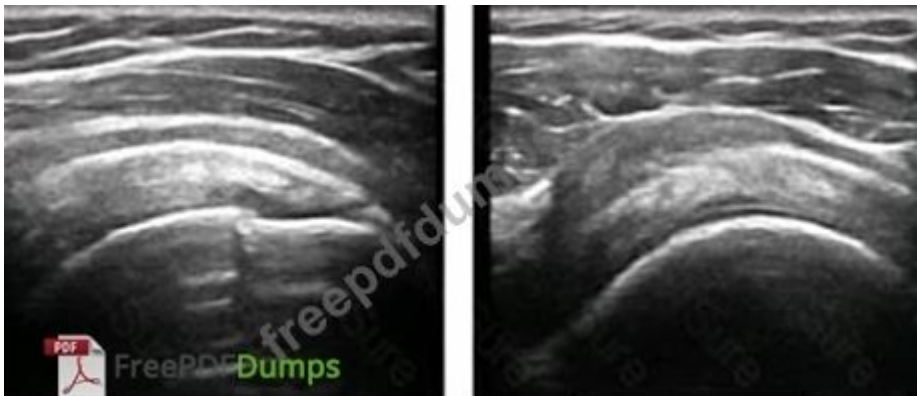
Her right shoulder X-rays are normal. What would be the MOST appropriate next intervention?

- A. Referral to occupational therapy for shoulder rehabilitation exercise
- B. Ultrasound-guided corticosteroid injection of the glenohumeral joint
- C. Anatomically guided corticosteroid reinjection of the right shoulder subacromial/subdeltoid bursa
- D. Ultrasound-guided corticosteroid injection of the right shoulder subacromial/subdeltoid bursa

Answer: A (LEAVE A REPLY)

NEW QUESTION: 34

Which pathologic condition is MOST likely responsible for the etiology of shoulder pain in the patient?



- A. Subacromial bursitis
- B. Calcific tendinitis
- C. Osteoarthritis

D. Rheumatoid synovitis

Answer: A ([LEAVE A REPLY](#))

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