Advanced Ultrasound Course



Course Description

This year's Ultrasound Course is a session designed for the advanced emergency medicine ultrasonographer seeking the most current information and instruction in the use of ultrasound in the emergency department. A combination of didactic and hands-on instruction will be offered to maximize the learning experience.

Credit Designation

AAEM designates this educational activity for a *maximum* of 5.5 AMA PRA Category 1 Credit(s)TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Learning Objectives

Upon completion of this course participants will be able to:

Vascular Access:

- 1. Describe the surface landmarks and transducer position necessary to perform central and peripheral vascular access under ultrasound guidance.
- 2. Understand the sonographic landmarks and anatomical relationships as it relates to the vasculature of the neck, upper extremity and groin.
- 3. Discuss indications for placing central and peripheral lines under ultrasound guidance.
- 4. Recognize and acquire ultrasonographic images of the internal jugular, femoral, basilic, brachial and axillary veins in live patient models.
- 5. Perform the technique of ultrasound guided vascular access on phantom models.

Cardiothoracic Ultrasound:

- 1. Describe the surface landmarks and transducer position necessary to perform the cardiac and lung examination.
- 2. Understand the sonographic landmarks and anatomical relationships of the ribs, chest wall, pleura and lung.
- 3. Recognize and acquire ultrasonographic images of heart (subcostal, parasternal long, parasternal short, and apical windows) and lungs (transthoracic utilizing both linear and convex probes).
- 4. Understand the sonographic findings and pitfalls for interpreting life threatening conditions such as pneumothorax.

Musculoskeletal:

- 1. Discuss the advantages and disadvantages of diagnostic musculoskeletal ultrasound compared to other imaging modalities.
- 2. Demonstrate the appearances of various tissues on diagnostic musculoskeletal ultrasound.
- 3. Correctly apply ultrasound basic concepts so as to ensure proper visualization of musculoskeletal structures.
- 4. Proficiently perform a diagnostic musculoskeletal ultrasound on various upper and lower limb structures.

Coding /Billing /Credentialing:

- 1. Understand the modified coding for limited ultrasounds in the ED.
- 2. Understand the proper documentation and storage necessary for billing.
- 3. Understand the credentialing process for EMUS as well as supporting guidelines and policies.

Course Schedule – Sunday, March 1, 2009

- 9:00am Musculoskeletal Ultrasound
- 9:45am Vascular Access
- 10:30am Break
- 11:00am Cardiothoracic Ultrasound
- 12:00pm Billing and Quality Assurance
- 12:30pm Lunch
- 1:30pm Hands-on session

4:00pm Adjourn

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