

## Focused FAST Scan Ultrasound Course

2023

8 AMA PRA Category 1



## **Focused FAST Scan Ultrasound**

Faculty: Shawn Shanmuganathan BS, RDMS, RVT

# **Welcome to Advanced Health Education Center**

As the Senior Vice President, I would like to thank you for choosing Advanced Health Education Center's (AHEC) for your Ultrasound training course. The faculty, staff, and fellow students join me in welcoming you. We will make reasonable efforts to ensure that your time with us is enjoyable as well as educational. These courses are designed to help you develop the skills and acquire the information necessary to perform at a high level of competency in sonography. There are various areas in which you will be evaluated during the course to ensure your learning and success.

AHEC has been a leading provider of continuing education for healthcare professionals in imaging sciences since 1988. Our mission is to provide you with evidence-based education and training that will increase your knowledge, enhance your competency, and improve patient care. Since receiving ACCME Accreditation in 1998, we have assisted in the development of ultrasound skills for physicians, sonographers, nurses, midwives and other healthcare professionals.

The registration packet is designed to provide students with general information regarding AHEC, course information, CME credit, and disclosure of relevant financial interest. We wish you well in your professional advancements and are here to assist you in pursuing your educational goals. Please contact us if we can be of further assistance to you at 1-800-239-1361.

Congratulations and good luck pursuing your professional goals!

Best,



*KReddix*

Kelli Reddix, MBA, BAAS, LVN

Senior Vice President

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## Course Overview

**Event Location:** Advanced Health Education Center

8502 Tybor Drive

Houston, Texas, 77074

**Credit:** 8 AMA PRA Category 1™

**Time:** 8:00 am – 5:00 pm

**Instructor:** Shawn Shanmuganathan BS, RDMS, RVT

## Course Description:

The “Golden Hour” is one of the pillars of emergency medicine. Capitalize on the speed and accuracy of ultrasound to take advantage of every minute. Based on the American College of Emergency Physicians (ACEP) criteria learn the skills to perform a Focused Assessment by Sonography in Trauma, commonly referred to as the FAST scan. Every practitioner who is responsible for evaluating the trauma patient may make the difference between life and death! Participants in this course will benefit from “hands on scan labs” where you will practice the essential skills and techniques to acquire an ultrasound image for quick and accurate diagnosis.

AHEC has taught for physicians in the US, China, and South America. This one-day course begins with lecture where faculty will review the basics such as: ultrasound physics and instrumentation, anatomy, and procedures and protocols. Following lecture, participants will benefit from our on-site scanning lab with live models for extensive hands-on practice. The course content includes ACEP guidelines to be rapidly deployed without removal from the resuscitation area, providing the time-sensitive skills needed in emergency situations of acute thoracic and abdominal trauma.

**Faculty:** Shawn Shanmuganathan - No relevant financial relationships to disclose.

## Course Objectives:

At the completion of this course, the learner will be able to:

- Identify the appropriate equipment settings and transducer selection for different ultrasound applications
- Identify and display appropriate normal and abnormal anatomy and orientation in the ultrasound field of view
- Understand variations in scanning protocols for demonstration of pathologies in emergency medicine ultrasound examinations.
- Successfully perform a trauma FAST exam

## Course Topics:

This course demonstrates the process to rapidly evaluate the torso for traumatic free fluid or pathologic free air suggesting injury to the peritoneal, pericardial, or pleural cavities. The areas of concentration include:

- The Right Flank
- The Pericardial Area
- The Left Flank
- The Pelvis
- Bilateral Anterior Pleural Cavities
- Paracolic Gutters



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## Course Schedule

Lecture 8am-12noon | Lunch 12-1pm | Scan Lab 1pm-5pm

### Lecture

- Physics and Instrumentation
- Exam Protocols
- US identification of normal anatomy
- US identification of pathologic processes

### Scan Lab

### Skills Checklist

#### Right Upper Quadrant

- ☐ Interrogate liver as well as hepatorenal space (Morison pouch)
- ☐ View dome of liver and diaphragm
- ☐ Visualize the right kidney and perirenal space
- ☐ Identify and document any free fluid

#### Left Upper Quadrant

- ☐ Interrogate spleen and perisplenic space
- ☐ View spleen and diaphragm
- ☐ Visualize the left kidney and perirenal space
- ☐ Identify and document any free fluid

#### Pelvis

Interrogate dependent space of peritoneum (Pouch of Douglas)

- ☐ Scan bladder in entirety
- ☐ Identify and document any free fluid

#### Pericardial Space

- ☐ Interrogate heart in sagittal and transverse views
- ☐ View pericardium in anterior and posterior locations
- ☐ Identify and document any free fluid

#### Pleural Cavities

- ☐ Interrogate both pleural spaces
- ☐ Identify and document any free fluid

#### Paracolic Gutters

- ☐ Interrogate both pelvis regions in longitudinal and transverse views
- ☐ Identify and document any free fluid



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### **CME Credit:**

- “The Advanced Health Education Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.”
- “The Advanced Health Education Center designates this educational activity for a maximum of 8 hours AMA PRA Category I™. Physician should claim credit commensurate with the extent of their participation in the activity.”

### **AHEC Cancellation and Refund Policy for Skills Courses:**

AHEC defines a skills course as a limited enrollment course where a received registration with payment reserves your place in a course (i.e. all Ultrasound courses, Mammography Initial Training and other theory courses). For cancellations received at least two weeks prior to the course date, a refund less a 30% processing fee will be given. Within two weeks of the course, no refund is given, but a tuition credit – less a 30% processing fee – may be applied to a future course. No refunds or tuition credit is given for non-attendance. Facilities may substitute employees by notification to AHEC at least one week in advance.

### **Disclosure of Relevant Financial Interest for Individuals in Control of Content:**

As a provider accredited by the ACCME, Advanced Health Education Center, Ltd ensures balance, independence, objectivity, and scientific rigor in all of its sponsored educational activities.

In addition to the identified CME faculty member for an educational activity, all non-faculty, including committee members and administrative personnel involved in the planning, development or production of the sponsored activity and/or authorship or review of enduring materials do not have any relevant financial interest to disclose. Financial interest includes but is not limited to relationships with commercial companies, manufacturers, or corporations, whose products or services are related to the subject matter of the presentation within the prior 12 months.

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  - AHEC: President
  - No relevant financial interest to disclose
- Jence Cantu, MHA RT(R) - Committee Member
  - AHEC: Chief Executive Officer (CEO)
  - No relevant financial interest to disclose



## **Focused FAST Scan Ultrasound**

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- Peggy Hoosier, M.Ed RT(R)(M) - Program Director
  - AHEC: Chief Operating Officer (COO)
  - No relevant financial interest to disclose
- Kelli Reddix, MBA, BAAS, LVN - Planning Committee
  - AHEC: Senior Vice President
  - No relevant financial interest to disclose
- Nanette Joiner
  - AHEC: Administrative Support
  - No relevant financial interest to disclose
- Debbie Robertson, BS, RDMS
  - Ultrasound Faculty
  - No relevant financial interest to disclose
- Virlene Guzman, RT(R), RDMS, RVT
  - Ultrasound Faculty
  - No relevant financial interest to disclose
- Shawn Shanmuganathan, BS, RDMS, RVT
  - Ultrasound Faculty
  - No relevant financial interest to disclose

### **Content Validation:**

All presentations designated for AMA PRA Category 1™ are reviewed and approved by members of the curriculum committee for content validity, and to ensure that no conflicts of interest exist prior to the advertisement and delivery of the educational activity.

**The faculty and staff at AHEC welcome you!**