

Primary Care/Abdominal Ultrasound Course

2024

24 AMA PRA Category 1



Primary Care/Abdominal 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

Phone 1-800-239-1361 • 8502 Tybor, Houston, Tx, 77074



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Course Overview

Event Location: Advanced Health Education Center
8502 Tybor Drive
Houston, Texas, 77074

Credit: 24 AMA PRA Category 1™

Time: 8:00 am – 5:00 pm

Instructor: Shawn Shanmuganathan BS, RDMS, RVT

Course Description:

The three-day abdominal ultrasound program is a systematic presentation of abdominal scanning using an integrated teaching approach of lecture, assigned reading, testing, demonstration, and clinical scanning of models. Didactic training is reinforced through clinical laboratory experience.

The focus of this three-day course is to provide participants with the confidence necessary to complete an abdominal ultrasound based on AIUM protocols. The course covers the basic protocols involved in an examination and general use of the ultrasound system. Normal anatomy of the liver, gall bladder, kidneys, spleen, abdominal vessels, and pancreas will be discussed. Also included are soft tissue applications and abdominal doppler. The participants will gain experience through lecture and faculty supervised hands on scanning. This format allows each participant ample opportunity to gain the knowledge and confidence needed to independently perform a basic abdominal ultrasound.

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

Course Objectives:

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

- Utilize the principles of instrumentation to set up ultrasound equipment for obtaining diagnostic images according to AIUM guidelines.
- Recognize and identify the organ systems in the abdomen on an ultrasound image.
- Perform abdominal Doppler using Color and Pulsed Wave Doppler
- Understand and identify pathological variants.
- Follow the sequence of an abdominal ultrasound procedure from the beginning to its conclusion.
- Recognize and identify the thyroid, scrotum, and appendix

Course Topics:

- Ultrasound Physics and Instrumentation
- Upper Abdominal Organ Systems Anatomy and Vasculature
- Evaluation and Image Review of Normal vs. Abnormal Studies
- Scan Techniques and Protocols for Image Acquisition of:
 - Prevertebral Vessels
 - Liver and Biliary System
 - Pancreas, Spleen and Kidney
 - Thyroid, Scrotum and Appendix
 - Abdominal Doppler



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Course Schedule

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

Day 1 Lecture

- Physics and Instrumentation
- Abdominal Vessels
- Liver
- Doppler
- Gallbladder

Scan Lab

Day 2 Lecture

- Pancreas
- Renal
- Doppler
- Spleen

Scan Lab

Day 3 Lecture

- Thyroid
- Small Parts

Scan Lab



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Skills Checklist

The participant demonstrates an understanding of the following controls to optimize the image:

Physics and Instrumentation

- | | |
|----------------|-----------------------------|
| € On/Off | € Dynamic Range |
| € Output/Power | € Presets |
| € Depth | € Calipers |
| € Master Gain | € Freeze/Cine |
| € TGC/DGC | € Color/Power/Pulse Doppler |
| € Focal Zones | € Zoom |

The participant identifies and is able to image the following anatomy with measurements where applicable:

- | | |
|---|---|
| <input type="checkbox"/> Long and transverse of left lobe of liver | <input type="checkbox"/> Long and transverse thyroid |
| <input type="checkbox"/> Long and transverse of right lobe of liver | <input type="checkbox"/> Common bile duct |
| <input type="checkbox"/> Long and transverse right and left kidneys | <input type="checkbox"/> Portal vein |
| <input type="checkbox"/> Long and transverse urinary bladder | <input type="checkbox"/> Aorta |
| <input type="checkbox"/> Long and transverse gallbladder | <input type="checkbox"/> IVC |
| <input type="checkbox"/> Long and transverse pancreas | <input type="checkbox"/> Thyroid |
| <input type="checkbox"/> Long and transverse spleen | <input type="checkbox"/> Doppler of abdominal vasculature |



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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 24 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



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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!