

Breast Ultrasound Course

2023

16 AMA PRA Category 1



Breast Ultrasound

Faculty: Michelle Keck, BSRT, RT(R)(M)(BS)

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: 16 AMA PRA Category 1™

Time: 8:00 am – 5:00 pm

Instructor: Michelle Keck, BSRT, RT(R)(M)(BS)

Course Description:

The increased utilization of breast ultrasound requires clinicians to integrate the fundamentals of sonography and mammography to enhance the value of breast ultrasound. The importance of ultrasound as an adjunct procedure to mammography is well documented. The normal anatomy, physiology, and pathologic conditions evaluated by ultrasound will be the basis of this educational activity. The course combines classroom learning with practical hands-on scanning to maximize the learning experience. Ultrasound-guided interventional procedures and examination of breast implants will be discussed. Case studies will be utilized to correlate the mammogram with the breast ultrasound, and to recognize breast ultrasound artifacts.

Faculty: Michelle Keck - No relevant financial relationships to disclose.

Course Objectives:

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

- Describe the role of breast ultrasound as an adjunct to mammography in the evaluation of breast disease
- Identify and display appropriate normal anatomy and orientation in the ultrasound field of view
- Describe basic scanning protocols
- Correlate areas of suspicion on the ultrasound and mammogram
- Demonstrate a working knowledge of the equipment knobology
- Choose the correct transducer for the ultrasound examination
- Successfully complete a basic breast ultrasound examination following correct patient preparation and procedure protocols
- Identify breast ultrasound artifacts and methods utilized to reduce their occurrence
- Be able to identify sources and research reference materials for additional information on breast ultrasound

Course Topics:

- Anatomy and Terminology
- Physics and Instrumentation
- Normal Breast Tissue and Lesions
- Correlation of Mammography Images with Ultrasound Images
- Lymph Nodes and Malignant Lesions
- Breast Implants, Invasive Procedures and Post Surgery Breast
- Complimentary Imaging'
- QA and Accreditation
- Hands-on Scan Lab



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Course Schedule

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

Day 1 Lecture

- History of Breast Ultrasound
- Anatomy and Terminology
- Physics and Instrumentation
- Normal Breast Tissue and Lesions

Scan Lab

Day 2 Lecture

- Correlation of Mammography Images with Ultrasound Images
- Lymph Nodes and Malignant Lesions
- Breast Implants, Invasive Procedures and Post Surgery Breast
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- QA and Accreditation

Scan Lab



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Skills Checklist

The participant demonstrates an understanding of the following controls and how they affect the image:

INSTRUMENTATION

- ☐ Power Button
- ☐ Gain Button
- ☐ TGC Pots
- ☐ Depth Button
- ☐ Dynamic Range Button
- ☐ Freeze Button
- ☐ Pulse Doppler
- ☐ Preset Parameters
- ☐ Calipers
- ☐ Focal Zones
- ☐ Doppler Settings
- ☐ Color Doppler Settings

ORIENTATION

- ☐ Breast Quadrants
- ☐ Locate Area of Interest Using Clock Method
- ☐ Cooper's Ligaments
- ☐ Fatty Tissue
- ☐ Glandular Tissue
- ☐ Ribs Care of the Transducer
- ☐ Cleaning and Disinfecting of the Transducer



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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 16 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!