



Cardiovascular Scanning Skills Workshop

Introduction to Transcranial Doppler Ultrasound & Carotid Duplex/Color Imaging Flow

March 21, 2023

Monday, March 20, 2023 – Carotid Duplex/Color Flow Imaging	
8:30 AM	Welcome and Continental Breakfast
8:45 - 9:45	Hands-On Scanning – Session 1
9:45 - 9:55	10 Minute Break: Model Rotation
9:55 - 10:55	Hands-On Scanning – Session 2
10:55 - 11:00	5 Minute Break: Model Rotation
11:00 - 12:00	Hands-On Scanning – Session 3
12:00 - 1:00	Lunch
1:05 - 2:05	Hands-On Scanning – Session 4
2:05 - 2:20	15 Minute Break: Model Rotation
2:20 - 3:20	Hands-On Scanning – Session 5
3:20 - 3:30	10 Minute Break: Model Rotation
3:30 - 4:30	Hands-on Scanning: Session 6

Tuesday, March 21, 2023 – Transcranial Doppler Ultrasound	
8:30 AM	Welcome and Continental Breakfast
8:45 - 10:15	Hands-On Scanning – Session 1
10:15 - 10:30	15 Minute Break
10:30 - 12:00	Hands-On Scanning – Session 2
12:00 - 1:00	Lunch
1:05 - 2:35	Hands-On Scanning – Session 3
2:35 - 2:50	15 Minute Break
2:50 - 4:30	Hands-On Scanning – Session 4

** This is a tentative course itinerary. Lecture faculty, times and dates may be subject to change.

Important note: This is a blended education format in which you complete the didactics online utilizing our learning management system in **advance** of the hands-on scanning skills workshop. For the best ultrasound education experience, completion of the online course prior to the hands-on scanning workshop is **highly** recommended. Login to your account at GCUS.com and navigate to “My Activities” to view and complete the online course modules and post module quizzes.



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The Gulfcoast Ultrasound Institute is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Gulfcoast Ultrasound Institute designates this live educational activity for a maximum of 12.0 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the educational activity.

NEEDS STATEMENT:

The planning committee has determined a need for the following educational activity based on request from the medical community, expanded utilization of ultrasound, and lab accreditation requirements.

COURSE OBJECTIVES:

At the completion of the program the participant should be able to:

1. Increase participant's knowledge to better perform and/or interpret TCD/TCI examinations.
2. Demonstrate standard scan techniques for performing a TCD and TCI exam.
3. Recognize normal and abnormal intracranial Doppler spectral waveform characteristics
4. Apply diagnostic criteria for TCD/TCI interpretation
5. State the clinical applications and limitations of TCD/TCI examinations
6. Increase knowledge and confidence to integrate the skills learned in a clinical setting.
7. Increase the participants' knowledge to better perform and/or interpret Carotid Duplex/Color Flow Imaging ultrasound examinations.
8. Apply knowledge of the anatomy/physiology of the cerebrovascular system into the Carotid Duplex examination.
9. Cite Doppler/color physics principles and be able to (sonographers) apply these principles to optimize system controls and/or (physicians) utilize this information for identifying technical errors which may result in misdiagnosis.
10. Perform routine scan protocols, and Doppler calculations in a complete carotid duplex/color examination.
11. Differentiate normal/abnormal spectral Doppler/color characteristics.
12. List methods for obtaining quantitative information and state the diagnostic relevance of each measurement.
13. Characterize plaque morphology and other pathology associated with cerebral vascular disease.
14. Perform Intima-Media Thickness measurements and state the clinical significance as a screening method for cardiovascular disease.
15. Integrate the information to include and prepare a structured report for a carotid ultrasound examination.
16. Apply diagnostic criteria for accurate interpretation of carotid duplex/color flow examinations.

While offering CME credit hours this activity is not intended to provide extensive training or certification for performance of or interpretation of Pediatric Emergency and/or Critical Care Ultrasound Examinations. We recommend working under supervised conditions until an acceptable level of proficiency has been achieved.

A special thanks to the following ultrasound equipment manufacturers who provide various (in kind) equipment support to help make our programs possible (companies listed are as of the time of printing).



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Disclosure of Individuals in Control of Content

The following individuals are recognized by GUI as being in control of content of this program:

James Mateer, MD, RDMS (Medical Director-planner & QI Task Force)

Medical Director, Gulfcoast Ultrasound Institute
Milwaukee, WI

No relevant financial relationships to disclose

Charlotte Derr, MD, RDMS, FACEP (Co-Medical Director-planner & QI Task Force)

Assistant Professor of Emergency Medicine &
Fellowship Director of Emergency Medicine
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University of South Florida Medical School
Tampa, FL

No relevant financial relationships to disclose

Andreas Dewitz, MD, RDMS (Member of Advisory Board & QI Task Force Subcommittee)

Associate Professor of Emergency Medicine
Vice Chair of Ultrasound Education
Boston Medical Center
Boston, MA

No relevant financial relationships to disclose

Lori Green, BA, RDMS, RDCS, RVT (Program Director-planner, Content Reviewer, QI Task Force)

Gulfcoast Ultrasound Institute, Inc.
St. Pete Beach, FL

No relevant financial relationships to disclose

Trisha Reo, AAS, RDMS, RVT (Program Coordinator-planner, Content Reviewer, QI Task Force)

Gulfcoast Ultrasound Institute, Inc.
St. Petersburg, FL

No relevant financial relationships to disclose

HANDS-ON INSTRUCTORS:

At the time of printing all hands-on instructors for this program have signed disclosure forms and have no relevant financial relationships to disclose. A verbal disclosure will be made during opening remarks. All scanning sessions are monitored by the program director and/or the program manager to ensure education objectives are met and no commercial bias occurs.

Content:

All content for this CME activity were reviewed and approved by member(s) of the GUI staff to determine content validity and ensure that no conflicts of interest exist prior to final course material compilation and printing.

Reviewed & approved:

Lori Green BA, RDMS, RDCS, RVT

Trisha Reo AAS, RDMS, RVT



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Welcome!!

The entire staff at Gulfcoast Ultrasound Institute would like to welcome you to our educational facility.

Our goal is to provide the highest quality continuing education possible in a relaxed and personal atmosphere. The content of each program has been carefully planned to provide you with the information needed to obtain a firm foundation to begin gaining the experience to perform and/or interpret ultrasound examinations in the specialty of your choice. The program will be structured with lectures in the morning and hands-on sessions during the afternoon to allow more individualized attention the program participants will be divided into groups for the hands-on workshops based on your experience level and type of equipment you work with.

To help you get the most out of this program we would like to make the following recommendations:

1. Attend the lectures and scheduled hands-on sessions.
2. When you are not involved in a scheduled afternoon session, take advantage of the SUPPLEMENTAL SCANNING WORKSHOP, or check out a DVD from our library.
3. If you do not understand a particular concept, ASK FOR HELP!
4. Study your course workbook during the evening.
5. Remember excellence is not achieved overnight. Becoming proficient in any ultrasound specialty requires the commitment to continually study and perform multiple (at least 100) exams before an initial level of confidence is achieved. The AIUM guidelines suggest competency for interpretation requires a minimum of 500 exams per specialty.
6. Begin scanning immediately upon return to the ultrasound departments even if it's on a volunteer. We recommend scanning/interpretations under supervised conditions until an accepted level of proficiency has been obtained.

All of our instructors, guest speakers and office staff are here to serve you! If you have any questions of any kind, please do not hesitate to ask.



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Gulfcoast Ultrasound Institute
EQUIPMENT RECOMMENDATIONS

Since 1985, Gulfcoast Ultrasound Institute has taken great pride in our ability to provide quality continuing education programs while remaining unbiased regarding the recommendation of ultrasound equipment.

Our programs are supported by most of the major equipment manufactures by providing their systems for use during the hands-on sessions. These companies have learned their products will be used and demonstrated to the best of our abilities in an educational setting and that no selling or promotion is done on our premises.

We realize that some of the course participants may currently be in the process of evaluating equipment for purchase and would like the opinions of our staff to determine the “best” system for your department. Everyone has a “favorite” ultrasound system (usually because it is the one they have worked with the most and are comfortable with) however, Gulfcoast Ultrasound must take an unbiased position in regards to equipment recommendations.

If you are currently evaluating equipment for purchase, we suggest you invite the equipment manufacturers to your facility for a private demonstration to determine image quality, ease of use, over-all capabilities etc. on an individual basis.

Thank you!

Lori Green BA, RDMS, RDCS, RVT

Lori Green, BA, RDMS, RDCS, RVT
Program Director