Advanced POCUS for Family Medicine

September 14 – 15, 2023

Thursday, September 14, 2023		
7:25	Welcome and Continental Breakfast	
7:35	Interactive Polling Session	
7:50	Advanced Ultrasound Evaluation of Shock	Andrew Laudenbach, MD
8:50	ABC's: Sonography in Source of Sepsis - Gallbladder & Biliary Tree - Appendix - Bowel Obstruction - Peritonitis & Abscess - Pyelonephritis - Pneumonia	James Mateer, MD, RDMS
9:40	Break	
9:50	Fluid Responsiveness in the Critically Ill & VExUS	Alexander Levitov, MD, FCCM, FCCP, RDCS
10:50	Break	
11:00	Ultrasound Guided Peripheral Vascular Access: Challenges, Pitfalls/Tips & Tricks with Live Demonstration	Charlotte Derr, MD, RDMS, FACEP
12:00	Lunch	
12:15	Optional Video Lecture: Color Doppler Ultrasound: The Fundamentals	Lori Green, BA, RDMS, RDCS, RVT
1:00	Hands-On Scanning	
4:30	Adjourn	

Friday, September 15, 2023			
7:30	Continental Breakfast		
7:45	Interactive Cases: What's Your Diagnosis?	James Mateer, MD, RDMS Andy Dewitz, MD, RDMS, FACEP Alexander Levitov, MD, FCCM, FCCP, RDCS	
8:30	Break		
Split Lecture Session: Choose Your Track			
Family Medicine / Emergency Medicine: Main Lecture Room		Critical Care: Scan Lab	
8:45	Sonography of the Acute Scrotum James Mateer, MD, RDMS	8:45	Cardiac Doppler & Focused Calculations Dan Bourque, MS, RCS, ACS, FASE
9:30	Break		
9:40	Advanced EM Applications: - Evaluation of Soft Tissue for Abscess Identification & Foreign Body Detection - Musculoskeletal Applications - Evaluation of Bony Cortices for Rapid Fracture Diagnosis/Post-Reduction Bony Alignment - Evaluation of the Eye for Selected Ocular Emergencies - Verification of Endotracheal Tube Placement Charlotte Derr, MD, RDMS, FACEP	9:40	Echo Assessment of Cardiomyopathies & Heart Failure Alexander Levitov, MD, FCCM, FCCP, RDCS
		10:40	Break
		10:45	MI & Complications Alexander Levitov, MD, FCCM, FCCP, RDCS
11:10	Break		
11:20	Nerve Blocks in the ED: Forearm, Truncal, Femoral & Selected Ankle Blocks Charlotte Derr, MD, RDMS, FACEP	11:45	Evaluation of the Right Heart Alexander Levitov, MD, FCCM, FCCP, RDCS
12:25	All Groups Return to Main Lecture Room		
12:30	Interactive Post-Polling with Discussion		
12:45	Lunch		
1:00	Optional Lecture: Emergency Medicine Cases	Presented by: USF Medical Residents	
1:30	Hands-On Scanning		
4:30	Adjourn		

** This is a tentative course itinerary. Lecture faculty, times and dates may be subject to change. Times listed are in Eastern Time (ET).

Includes Pre-Course Online Video: Focused Cardiac Ultrasound by James Mateer, MD, RDMS. Login to your GCUS.com account and navigate to "My Activities" to complete **prior** to this course.

Advanced Emergency Medicine & Critical Care Ultrasound

September 14 – 15, 2023

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 16.0 *AMA PRA Category 1 Credits™.* Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Gulfcoast Ultrasound Institute designates an additional 1.25 *AMA PRA Category 1 Credits*™ for the enduring educational activity "Focused Cardiac Ultrasound"**.** Physicians should claim only credit commensurate with the extent of their participation in the educational activity.

This course also meets CME / CEU requirements for ARDMS. Note: While offering the CME credit hours noted above, activities are not intended to provide extensive training or certification for exam performance or interpretation.

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 the participant's knowledge to better perform and/or interpret Emergency Medicine & Critical Care Ultrasound examinations.
2. Identify sonographic characteristics associated with abdominal sepsis involving the hepatobiliary, renal, and GI systems.
3. Outline indications and applications of color Doppler in the emergency and critical care setting.
4. Perform ultrasound evaluation of the lung, ocular, soft-tissue, musculoskeletal, bony cortices, and verification of endotracheal tube placement in the emergency department. (EM Track)
5. Demonstrate the use of ultrasound guidance for peripheral vascular access.
6. State principles of spectral and cardiac Doppler fundamentals and apply quantitative methods to evaluate acute valvular abnormalities (critical care track)
7. Recognize the sonographic appearance of individual nerves and list the advantages provided when ultrasound is used for performing regional nerve blocks. (EM Track)
8. Evaluate fluid responsiveness in the critically ill patient.
9. Perform testicular ultrasound and recognize acute abnormalities. (EM Track)
10. Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

While offering CME credits this activity is not intended to provide extensive training or certification for the performance or interpretation of Emergency Medicine Ultrasound examinations.

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).

Advanced Emergency Medicine & Critical Care Ultrasound

September 14 – 15, 2023

Disclosure of Relevant Financial Relationships With Commercial Companies/Organizations

Gulfcoast Ultrasound Institute, Inc. endorses the standards and essentials of the Accreditation Council for Continuing Medical Education for activities and the speakers at these activities disclose significant relationships with commercial companies.

Speakers having relevant relationships include receiving from a commercial company research grants, consultancies, honoraria and travel, or having a self-managed equity interest in a company.

FACULTY:

James Mateer, MD, RDMS
Clinical Professor, Emergency Medicine
Medical College of Wisconsin
Milwaukee, WI
No relevant financial relationships to disclose

Alexander Levitov, MD, FCCM, FCCP, RDCS (GUI QI Task Force Subcommittee)
Professor of Medicine
Eastern Virginia Medical School
Norfolk, VA
No relevant financial relationships to disclose

Charlotte Derr, MD, RDMS, FACEP
Assistant Professor of Emergency Medicine &
Fellowship Director of Emergency Medicine
Ultrasound Fellowship Program
University of South Florida Medical School
Tampa, FL
No relevant financial relationships to disclose

Lori Green, BA, RDMS, RDCS, RVT
Program Director
Gulfcoast Ultrasound Institute, Inc.
St. Petersburg, FL
No relevant financial relationships to disclose

Daniel Bourque, MS, RCS
Orlando Regional Medical Center
Orlando, FL
No relevant financial relationships to disclose

Andrew Laudenbach, MD
Ultrasound Fellowship Director
Clinical Informaticist
Associate Professor of Emergency Medicine
Department of Emergency Medicine
Hennepin Healthcare
Minneapolis, MN
No relevant financial relationships to disclose

All presentations 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.

Advanced Emergency Medicine & Critical Care Ultrasound

September 14 – 15, 2023

Disclosure of Individuals in Control of Content

In addition to the faculty listed on the previous page 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
Ultrasound Fellowship Program
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. Petersburg, 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

Advanced Emergency Medicine & Critical Care Ultrasound

September 14 – 15, 2023

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.

Advanced Emergency Medicine & Critical Care Ultrasound

September 14 – 15, 2023

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