



# Advanced POCUS for Family Medicine

February 23 – 24, 2023

Thursday, February 23, 2023		
7:25	Welcome and Continental Breakfast	
7:35	Interactive Polling Session	
7:50	Advanced Ultrasound Evaluation of Shock	Andrew Laudenschach, MD
8:50	ABC's: Sonography in Source of Sepsis <ul style="list-style-type: none"> <li>- Gallbladder &amp; Biliary Tree</li> <li>- Appendix</li> <li>- Bowel Obstruction</li> <li>- Peritonitis &amp; Abscess</li> <li>- Pyelonephritis</li> <li>- Pneumonia</li> </ul>	James Mateer, MD, RDMS
9:40	Break	
9:50	Fluid Responsiveness in the Critically Ill & VExUS	Alexander Levitov, MD, FCCM, FCCP, RDCS
10:30	Break	
10:40	Ultrasound Guided Peripheral Vascular Access: Challenges, Pitfalls/Tips & Tricks	Andy Dewitz, 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, February 24, 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 Steven Walling, BS, RCS, ACS, RDCS, 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 Andy Dewitz, 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 Andy Dewitz, MD, RDMS, FACEP			
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.



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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 and bony cortices 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.

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***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 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***

#### **Andrew Laudénbach, 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***

#### **Lori Green, BA, RDMS, RDCS, RVT**

Program Director  
Gulfcoast Ultrasound Institute, Inc.  
St. Petersburg, FL

***No relevant financial relationships to disclose***

#### **Steven Walling, BS, ACS, RCS, RDCS, FASE**

Director and Clinical Coordinator  
Hoffman Heart School of Cardiovascular  
Technology  
Trinity Health Of New England Corporation, Inc.  
Hartford, CT

***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***

#### **Andreas Dewitz, MD, RDMS, FACEP**

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

***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.*



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### 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



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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 manufacturers 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