Introduction to Adult Echocardiography
December 9 - 13, 2024

This program includes a Pre-course Online Video: Imaging Fundamentals – The Basics by Lori Green, BA, RDMS, RDCS, RVT. Login to to your GCUS account and navigate to “My Activities” to complete this **prior** to the course.

Monday, December 9, 2024		
7:45	**Welcome/Continental Breakfast**	
8:00	**Interactive Polling Session**	
8:15	**Anatomy of the Heart and the EKG**	**Christie Jordan, BS, RDCS, RCS, RCIS, FASE**
9:00	**Break**	
9:10	**The 2D Evaluation of Cardiac Anatomy - The Parasternal Window**	
10:15	**Break**	
10:30	**The 2D Evaluation of Cardiac Anatomy – Apical and Subcostal Windows**	
11:15	**The 2D Evaluation of Cardiac Anatomy-Suprasternal Notch**	
11:30	**Live Demonstration: The Parasternal Long & Short Axis**	
12:00	**Lunch**	
1:00	**Group A: Scan Lab**	**Group B : Main Lecture Room**
	Hand-On Scanning Live Models: 2D Parasternal & Apical Views	**Hands-On Scanning with Live Models: System Optimization Supersternal Notch & Subxyphoid 2D Views**
2:40	**Break & Group Change**	
2:50	**Group A: Main Lecture Room**	**Group B : Scan Lab**
	Hands-On Scanning with Live Models: System Optimization Supersternal Notch & Subxyphoid 2D Views	**Hand-On Scanning Live Models: 2D Parasternal & Apical Views**
4:30	**Adjourn**	

Tuesday, December 10, 2024		
7:45	**Continental Breakfast**	
8:00	**2D Measurements and Normal Values**	**Christie Jordan, BS, RDCS, RCS, RCIS, FASE**
9:00	**Break**	
9:05	**Doppler Fundamentals**	**Steven Walling, BS, ACS, RCS, RDCS, FASE**
9:50	**Break**	
10:05	**Introduction to Cardiac Doppler**	
10:50	**Comprehensive 2D Exam**	
11:50	**Lunch**	
1:00	**Group A: Main Lecture Room**	**Group B : Scan Lab**
	Echo Measurement Workshop Christie Jordan, BS, RDCS, RCS, RCIS, FASE	**Hand-On Scanning Live Models: 2D Measurement & Color**
2:40	**Break & Group Change**	
2:50	**Group A: Scan Lab**	**Group B : Main Lecture Room**
	Hand-On Scanning Live Models: 2D Measurement & Color	**Echo Measurement Workshop Christie Jordan, BS, RDCS, RCS, RCIS, FASE**
4:30	**Adjourn**	

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Wednesday, Decemember 11, 2024			
7:45	Continental Breakfast		
8:00	Mitral Valve		Steven Walling, BS, ACS, RCS, RDCS, FASE
9:10	Break		
9:25	Aortic Valve		
10:35	Break		
10:50	Coronary Heart Disease		
12:00	Lunch		
1:00	Group A: Scan Lab	Group B : Main Lecture Room	
	Hands-On Scanning with Live Models: M-Mode	Contrast Utilization & Case Studies Steven Walling, BS, ACS, RCS, RDCS, FASE	
2:40	Break & Group Change		
2:50	Group A: Main Lecture Room	Group B : Scan Lab	
	Contrast Utilization & Case Studies Steven Walling, BS, ACS, RCS, RDCS, FASE	Hands-On Scanning with Live Models: M-Mode	
4:30	Adjourn		

Thursday, December 12, 2024			
7:45	Continental Breakfast		
8:00	Doppler Evaluation of MVD		Daniel Bourque, MS, ACS, RCS, FASE
9:30	Stretch Break		
9:35	Doppler Evaluation of AVD		
11:00	Break		
11:10	Right Heart Disease		
12:15	Lunch		
1:00	Group A: Main Lecture Room	Group B : Scan Lab	
	Interpretation Workshop Daniel Bourque, MS, ACS, RCS, FASE	Hands-On Scanning with Live Models: Doppler	
2:40	Break & Change Groups		
2:50	Group A: Scan Lab	Group B : Main Lecture Room	
	Hands-On Scanning with Live Models: Doppler	Interpretation Workshop Daniel Bourque, MS, ACS, RCS, FASE	
4:30	Adjourn		

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Friday, December 13, 2024		
7:45	Continental Breakfast	
8:00	Cardiomyopathies	Daniel Bourque, MS, ACS, RCS, FASE
9:00	Prosthetic Valves	
10:00	Break	
10:15	Diastolic Function	
11:00	Pericardial Disease	
11:45	Interactive Polling Session with Discussion	
12:00	Lunch	
1:00	Group A: Scan Lab	Group B : Main Lecture Room
	Hands-On Scanning with Live Models: Routine Protocol	Complete Echo Demonstration Right Parasternal & SSN Pedoff Doppler Workshop
2:40	Break & Change Groups	
2:50	Group A: Main Lecture Room	Group B : Scan Lab
	Complete Echo Demonstration Right Parasternal & SSN Pedoff Doppler Workshop	Hands-On Scanning with Live Models: Routine Protocol
4:30	Adjourn	

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

Attention! This course includes the following post-course online training video (non-CME): “Echocardiographic Evaluation of Pericardial Effusions & Cardiac Masses” by Daniel Bourque, MS, ACS, RCS, FASE. Following the completion of this course, login to your account at gcus.com and navigate to “My Activities” to complete this video **within 2 weeks post-course. Access to this online video is limited to 2 weeks, beginning the day after the course ends.**

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

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 40.0 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

The Gulfcoast Ultrasound Institute designates an additional 1.25 *AMA PRA Category 1 Credits™* for the enduring educational activity "Imaging Fundamentals – The Basics"**.** 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 Echocardiography examinations.
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images (sonographer) and recognize potential imaging errors (Physician).
3. Demonstrate routine scan protocols to evaluate an adult patient using 2D/M-Mode/Color Flow & Doppler echocardiographic techniques.
4. Perform standard 2D, M-Mode and Doppler measurements
5. Identify normal/abnormal characteristics of 2D cardiac anatomy.
6. State the role of cardiac Doppler and list the necessary qualitative/quantitative measurements.
7. Identify the ultrasound findings associated with valvular heart disease, cardiomyopathies, ischemic heart disease, pericardial disease, and prosthetic valves.
8. List the latest imaging techniques in quantification of right and left ventricle wall motion. Document findings and apply standardized guidelines during compilation of an Echocardiography worksheet (sonographer) and dictated report (Physician).
9. List the steps necessary for system optimization during contrast echo imaging.
10. Increase confidence to incorporate protocols, techniques & interpretation criteria to improve diagnostic/treatment accuracy.

While offering CME credit this activity is not intended to provide extensive training or certification for interpretation of Cardiac Ultrasound Examinations. We recommend working under supervised conditions until an accepted 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 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 relevant relationships with commercial companies or organizations.

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

FACULTY:

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

Christie Jordan, BS, RDCS, RCS, RCIS, FASE
Cardiovascular Technology Faculty Program Director
Florida State College at Jacksonville
Jacksonville, 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

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, FPD-AEMUS (Co-Medical Director-planner & QI Task Force)
Associate Professor of Emergency Medicine
Fellowship Director of Advanced Emergency Medicine Ultrasound Fellowship Program
University of South Florida Morsani College of Medicine
Tampa, FL
No relevant financial relationships to disclose

Andreas Dewitz, MD, RDMS (Member of Advisory Board & QI Task Force Subcommittee)
Clinical Professor of Emergency Medicine
Clinical Director of POCUS Education, Solomont Simulation Center
Department of Emergency Medicine
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

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.

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.

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