COURSE DESCRIPTION:
The Focused Echocardiography Course has been specifically developed to provide residents, fellows, and practicing physicians in various clinical settings with basic, and advanced cardiac ultrasound imaging and interpretation skills. Course participants will develop or significantly enhance their cardiac ultrasound imaging skills, to be able to apply them during the evaluation and management of critically ill patients. The course will meet the educational goals for both beginners and those with more advanced skills, using current evidence-based scanning protocols and algorithms. Participants will have ample opportunity to practice their image acquisition and interpretation skills in a state-of-the-art simulation center. The course objectives will cover basic and advanced principles of focused echocardiography, and not comprehensive echocardiography.

COURSE OBJECTIVES:
1. At the completion of this course, participants should be able to: Select the appropriate transducer and system presets for a cardiac ultrasound examination
2. Describe the transducer orientation for all the basic transthoracic echo windows
3. Demonstrate the ability to obtain images in the parasternal long and short axes, apical windows (4, 5, 2, 3), subcostal, inferior vena cava, and suprasternal windows (PASS protocol)
4. Demonstrate a basic understanding of Doppler ultrasound, including color, pulsed, continuous wave Doppler, and their spectral waveforms
5. Interpret basic M-mode waveforms, and discuss some of their applications in focused echocardiography
6. Recognize images of valvular insufficiency
7. Demonstrate the ability to estimate right atrial pressure using IVC assessment in a spontaneously breathing patient
8. Demonstrate the ability to evaluate a patient for pericardial effusion, and recognize echo findings of tamponade
9. Demonstrate the ability to perform basic cardiac calculations to determine ejection fraction and cardiac output
10. Recognize images representing right ventricular volume/pressure overload, and discuss some of their clinical applications
11. Develop a systematic approach to evaluate the cardiac status of the critically ill patient
12. Discuss some of the differences between focused echocardiography and comprehensive echocardiography
BOARD MEMBERS
Scott Dulchavsky MD, PhD, Chairman Department of Surgery
David Amponsah MD, Emergency Medicine
Keith Kilu MD, Critical Care ICU
Eric Scher MD, Chair of Medicine, VP Medical education

COURSE DEVELOPER
David Amponsah MD, RDCS

CORE FACULTY
David Amponsah MD, RDCS, Emergency Medicine
Sudhir Baliga MD, RDMS, Emergency Medicine
Abigail Brackney, RDMS, Emergency Medicine Beaumont Hospital
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Victor Coba MD, Emergency Medicine & Critical Care
Caroline Dowers, MD Emergency Medicine
Raymond Fowkes MD, Emergency Medicine
Daniel Morris MD, Emergency Medicine
Stephanie Stokes-Buzeli MD, Emergency Medicine
Julian Suszanski MD, Emergency Medicine

REGISTRATION
Advanced registration is required. The fee is non-refundable and cannot be reduced for partial attendance. Please register at: https://hfhs.eventsair.com/HenryFordCEPortal/hfhs/cmereg/Calendar and look for the link “Focused Echocardiography Course”

REGISTRATION FEES:
Physicians: $650
Residents & Fellows: $395
Other Allied Health: $395
Included is “The ICU Ultrasound Pocket Book”

For registration inquiries, please contact Christina Miller: Continuing Medical Education Specialist
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Registration fees will include a continental breakfast, lunch, and snacks.

SCHEDULE
7:00-7:30am Check-in / Late registration / Breakfast
7:30-7:50am Pre-test
7:50-8:00am Welcome
8:00-8:30am Cardiac Ultrasound Physics / Doppler / Instrumentation / knobology
8:30-9:00am PASS Protocol (PLAX/PSAX/A4C/A5C/A2C/A3C/ subcostal/IVC/suprasternal)
9:00-9:30am Cardiac Physiology (Wiggers Diagram) / M-mode/color Doppler, pulsed wave Doppler, Continuous wave Doppler / Tissue Doppler basics
10:00-noon Hands-on Scanning
1. PASS protocol
2. Focus on enhancing image acquisition skills
3. Identification of cardiac structures using multiple imaging windows
4. Basic introduction to CF, PW, CW Doppler, spectral waveforms

12:00-1:00PM LUNCH BREAK
1:00-1:20pm Volume Assessment with clinical applications
1:20-1:40pm Pericardial Effusion / Tamponade Assessment
1:40-2:00pm Right Heart Strain / Cardiac Arrest Assessment
2:00-2:30pm Contractility / Systolic, Diastolic Dysfunction / Ejection fraction / Cardiac output calculations
2:30-3:00pm Clinical cases – Review of cardiac pathology
3:00-4:40pm Hands-on Scanning
1. Performing basic cardiac calculations – EF, CO, chamber size
2. Estimation of volume status
3. Basic assessment of valvular insufficiency via color Doppler
4. Systematic approach to focused cardiac assessment of the critically ill patient
4:40-5:00pm Evaluation / Post-test / Questions

5:00PM ADJOURN

ACCREDITATION & DESIGNATION STATEMENT
Henry Ford Health System is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. Henry Ford Health System takes responsibility for the content, quality, and scientific integrity of this CME activity. Henry Ford Health System designates this activity for a maximum of 7.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. This course is also acknowledged by the “World Interactive Network Focused on Critical Ultrasound (WINFOCUS)”

HEARING IMPAIRED STATEMENT
Henry Ford Health System is committed to ensuring our guests who are deaf or hard-of-hearing have equal access to all the services provided by our facilities. We provide at no cost the auxiliary aids and services, including sign language interpreters, TTYs and other assistive listening devices for effective communications. To request the appropriate assistive listening device, call Cindy France at 313-916-9130.

FACULTY DISCLOSURE STATEMENT
In compliance with the ACCME standards for commercial support, all individuals in a position to control/influence the content of this activity are required to disclose relative financial interests of their own or spouse or partners with any commercial interest and/or non-FDA approved use of a drug or device that is included in the presentation.

ACCOMMODATIONS
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