

Perioperative Cardiothoracic Ultrasound Course

June 10 – 11, 2017

Glickman Conference Center
Simulation and Advanced Skills Center
Cleveland Clinic, Cleveland, OH

Register Today!

ccfcme.org/periopCTultrasound

Featuring Hands-On Workshops

- TEE Stations
Including Simulators
- Echo Clinical Cases
- Focused, Lung, and
Vascular Ultrasound



Join Us for This Hands-on Perioperative Cardiothoracic Ultrasound Course

Get up to date on the latest advances in perioperative cardiothoracic ultrasound. This hands-on workshop will provide an excellent review of basic and advanced ultrasound techniques.

Learn about new and emerging topics related to cardiothoracic ultrasound imaging techniques, including pearls on how to improve your images, assessment of LV and RV function, echo assessment of mechanical devices, and ultrasound in perioperative clinical practice.

Expert lectures will provide learners the opportunity to review different echocardiographic modalities, their indications, and pitfalls.

Attend This Course and You Will Be Able To:

- Describe the basic and advanced science of ultrasound techniques
- Describe use of ultrasound to analyze a spectrum of disease pathologies pertinent to the management of the cardiothoracic patients
- Demonstrate ability to recognize normal cardiac and thoracic anatomy with transthoracic and transesophageal echocardiography
- Demonstrate ability to accurately diagnose a variety of pathological conditions with ultrasound
- Demonstrate ability to safely and accurately perform cannulation of the central venous system using ultrasound

Who Should Attend?

This workshop is designed for physicians and ultrasound providers in the emergency room, ICU, and in internal medicine, critical care, cardiology, anesthesia, general surgery, hospitalists, as well as residents, fellows, sonographers, and allied health professionals.

Activity Director



Andrej Alfirevic, MD, FASE
Associate Professor
Cardiothoracic Anesthesiology
Anesthesiology Institute
Cleveland Clinic
Cleveland, OH

Guest Faculty

Feroze Mahmood, MD, FASE
Associate Professor
Harvard Medical School
Director of Cardiac Anesthesia
Beth Israel Deaconess Medical Center
Boston, MA

Cleveland Clinic Faculty Anesthesiology Institute

Mohamed Abdalla, MD
Cardiothoracic Anesthesiology

Ahmad Maher Adi, MD
Cardiothoracic Anesthesiology

Balaram Anandamurthy, MD
Cardiothoracic Anesthesiology

David Anthony, MD
Cardiothoracic Anesthesiology

Andrew Bauer, MD
Cardiothoracic Anesthesiology

Michelle Capdeville, MD
Cardiothoracic Anesthesiology

Pilar Castro, MD
Pediatric Anesthesiology

Surendrasingh Chhabada, MD
Pediatric Anesthesiology

Jacek B. Cywinski, MD
Associate Professor of
Anesthesiology
General Anesthesiology

Pierre de Villiers, MD
Cardiothoracic Anesthesiology

Aaron Douglas, DO
Cardiothoracic Anesthesiology

Andra Duncan, MD, MS, FASE
Associate Professor of
Anesthesiology
Cardiothoracic Anesthesiology

Jennifer Hargrave, DO
Cardiothoracic Anesthesiology

Michael Hauser, MD
Cardiothoracic Anesthesiology

Ashish Khanna, MD, FCCP
Assistant Professor of
Anesthesiology
General Anesthesiology

Sandeep Khanna, MD
General Anesthesiology

Negmeldeen Mamoun, MD, PhD
Cardiothoracic Anesthesiology

Donn Marciniak, MD
Cardiothoracic Anesthesiology

Dale Marsh, MD
Cardiothoracic Anesthesiology

Anand Mehta, MBBS
Cardiothoracic Anesthesiology

William Phillips, MD
General Anesthesiology

Shobana Rajan, MD
General Anesthesiology

Shiva Sale, MD
Assistant Professor
of Anesthesiology
Cardiothoracic Anesthesiology

Roshni Sreedharan, MD
Clinical Assistant Professor
General Anesthesiology

Bjoern Toennes, MD
Cardiothoracic Anesthesiology

Christopher Troianos, MD, FASE
Institute Chair
President-Elect, Society
of Cardiovascular
Anesthesiologists

Carlos Trombetta, MD
Cardiothoracic Anesthesiology

Agenda

A five-minute question and answer period is included in each speaker's allotted time.

Saturday, June 10, 2017

- 7:00 am Registration and Continental Breakfast**
Location: Q1-300 Glickman Conference Center
- 7:45 am Physics of Ultrasound**
Pierre de Villiers, MD
- 8:10 am How to Improve Your Image**
Andrej Alfievic, MD
- 8:35 am Artifacts and Pitfalls**
Shiva Sale, MD
- 9:00 am Refreshment Break**
- 9:20 am Assessment of Left Ventricular Function**
Andra Duncan, MD
- 9:55 am Assessment of Right Ventricular Function**
Carlos Trombetta, MD
- 10:20 am Adult Congenital Heart Disease**
Michael Hauser, MD
- 10:45 am Ultrasound in the Perioperative Clinical Practice**
Sandeep Khanna, MD
- 11:10 am Lunch and Visit Exhibits**
Location: Simulation and Advanced Skills Center

12:30 pm Transthoracic Views and Focused Ultrasound Exam Workshop

Stations with Live Models

Balaram Anandamurthy, MD; David Anthony, MD; Michelle Capdeville, MD; Surendrasingh Chhabada, MD; Aaron Douglas, DO; Ashish Khanna MD, FCCP; Negmeldeen Mamoun, MD, PhD; Dale Marsh, MD; William Phillips, MD; Roshni Sreedharan, MD; and Bjoern Toennes, MD

- Introductory Transthoracic Views and Focused Ultrasound Lecture
- Transthoracic Imaging Views
- Focused Ultrasound and Lung Ultrasound

2:50 – 3:00 pm Refreshment Break

5:00 pm Adjourn



Sunday, June 11, 2017

- 7:00 am Registration and Continental Breakfast**
Location: Q1-300 Glickman Conference Center
- 7:45 am Aortic Valve Assessment**
Christopher Troianos, MD
- 8:10 am Mitral Valve Assessment**
Jennifer Hargrave, DO
- 8:35 am Tricuspid and Pulmonic Valve Assessment**
Andrew Bauer, MD
- 9:00 am Prosthetic Valves**
Anand Mehta, MBBS
- 9:25 am Refreshment Break**
- 9:45 am Mechanical Circulatory Support Devices**
Michelle Capdeville, MD
- 10:10 am Echo in the Hybrid Operating Room**
Feroze Mahmood, MD
- 10:35 am Echo to the Rescue!**
Aaron Douglas, DO
- 11:00 am Lunch and Visit Exhibits**
Location: Simulation and Advanced Skills Center
- 12:15 pm Hands-on Workshop Rotations and Case Presentations**
Workshop #1: Transesophageal Echocardiographic Imaging Views (TEE imaging views and comprehensive echo exam using hands-on simulation)
Andrej Alfirevic, MD; Andrew Bauer, MD; Jennifer Hargrave, DO; Sandeep Khanna, MD; and Christopher Troianos, MD
- 1:45 pm Refreshment Break and Visit Exhibits**
- 1:55 pm Workshop #2: Clinical Echo Cases (Cardiac, Thoracic, General Anesthesia, ICU)**
Mohamed Abdalla MD; Ahmad Maher Adi, MD; and Donn Marciniak, MD
- 3:45 pm Workshop #3: Vascular Access (Using ultrasound and manikins for central venous access cannulation)**
Pilar Castro, MD; Surendrasingh Chhabada, MD; Jacek B. Cywinski, MD; and Shobana Rajan, MD
- 5:15 pm Adjourn**



General Information

Lecture Location

**Cleveland Clinic
Glickman Conference Center**
9500 Euclid Ave., Q1-300
Cleveland, OH 44195

Workshop Location

Simulation and Advanced Skills Center

Stanley Shalom Zielony Plaza
8911 Euclid Ave
Cleveland, OH 44106

Overnight hotel guests will be escorted from the InterContinental to the Glickman Conference Center. All other attendees should go directly to the Conference Center. After lectures, we will walk to the Simulation Center as a group.

Hotel Accommodations

InterContinental Hotel

9801 Carnegie Avenue
Cleveland, OH 44106
877.707.8999

A limited block of rooms has been reserved at the InterContinental Hotel until May 19, 2017. To make your reservations, contact the hotel at 216.707.4100 or 877.707.8999 and identify yourself as an attendee for the Cleveland Clinic Perioperative Cardiothoracic Ultrasound for a special rate of \$187 plus tax.

Parking

Parking is available at the JJ East 93rd St. and Euclid Avenue garage, or the East 100th St. and Carnegie Avenue garage. Parking fees are at prevailing rates. Parking is also available at the hotel.

For further information about this activity and American Disabilities Act, contact the Cleveland Clinic Center for Continuing Education.

Local: 216.444.9990

Website: ccfcme.org/PeriopCTultrasound

Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 15.25 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

Other Health Care Professionals

A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Register Online at www.ccfcme.org/PeriopCTultrasound

Fee includes: continental breakfasts, refreshment breaks, lunches, syllabus, and faculty PowerPoint presentations in PDF format, available online.

	Early Bird Fee Before April 1	Fee After April 1
Physician	\$750	\$850
Non-Physician	\$450	\$500
Resident*/Fellow*	\$450	\$500
Alumni	\$675	\$765
*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged.		

Registration and Cancellation

Preregistrations are accepted until 2:00 pm ET on June 9, 2017. Register on site after this date.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if canceled by May 12, 2017. After May 12, 2017, a \$250 cancellation fee will be deducted from your refund. No refunds will be issued after June 2, 2017.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.

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Emphasis on

- Improving Ultrasound Techniques
- Live Hands-on Workshops
- Live Hands-on Simulator Workshops

Cleveland Clinic
The Cleveland Clinic Foundation
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Cleveland, OH 44195

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