

# Ultrasound Workshop: Diagnostic and Procedural Skills

Focus on the Hospitalized Patient

# May 10-13, 2023

Cleveland Clinic Simulation and Advanced Skills Center Cleveland, OH



Register Today! ccfcme.org/GoUltra

# You'll Want To Be At This Workshop

The use of ultrasound to diagnose and guide procedures is growing rapidly and you don't want to be left behind. This growth is primarily fueled by data indicating that ultrasound can improve the success rate of various procedures while decreasing complications. This ultrasound workshop will provide you with current state-of-theart techniques for diagnosis and guiding procedures. You will be able to incorporate the lessons you learn by attending this workshop into your clinical practice.

# Stay Current With These Objectives

Wednesday	2-Day Course	Saturday		
Describe the components of successful point-of-care ultrasound programs     Summarize process for image acquisition, mad IT configuration     Describe the importance of a training, quality improvement, and credentialing     List components of billing and coding for various ultrasound exams	Summarize the basic science and diagnostic use of ultrasound imaging Describe the protocols, evaluation, and best use of echocardiography in critically ill patients Review the role of ultrasound in a focused assessment with sonography in trauma (FAST) exam to assess for free fluid in the abdomen or around the heart Summarize the basics of using ultrasound to assess lungs Describe the most effective diagnostic use of ultrasound to assess for vascular abnormalities including aortic pathology and deep venous thrombosis Practice the evaluation of shock and respiratory failure with point-of-care echocardiography Demonstrate competence in ultrasound guidance for needle placement and peripheral intravenous access, arterial line access, and midline access Demonstrate the best use of ultrasound for paracentesis, thoracentesis Describe the fundamentals of tunneling technique and the tunneled CVC kit List the indications, complications, and aftercare related to insertion of a tunneled central venous catheter (CVC) Demonstrate competence in central venous access including materials, ultrasound landmarks, and needle placement	Airway Management in the Critically III Patient  Summarize the Cleveland Clinic Airway Management protocol and algorithm for critically ill patients  Apply airway management tools to secure the airway  Demonstrate application of the airway management protocol choose the best strategy to manage the airway in critically ill patients  Pediatric Simulations and Ultrasound  Detail the causes of hypoxemia in the critically ill neonate  Effectively manage undifferentiated shock in the neonate and infant  Describe tips and tricks for vascular access in the pediatric population  Hemodynamic Assessment of the Critically III Patient  Identify the hemodynamically compromised patient  Describe the 3 components of the Rapid Ultrasound for Shock and Hypotension (RUSH) exam Pump; Tank, Pipes  Utilize the Rapid Ultrasound for Shock and Hypotension (RUSH) exam protocol  Explain the ultrasound findings seen in the 4 types of distributive shock		

# Who Should Attend

This workshop is designed for physicians, physician assistants, nurse practitioners, nurses, fellows, and residents in emergency medicine, internal medicine, hospital medicine, critical care, cardiology, general surgery, pediatrics, pulmonology, anesthesiology, and radiology.

# **Activity Co-Directors**



Respiratory Institute

Eduardo Mireles-Cabodevila, MD Director Simulation and Advanced Skills Center **Education Institute** Staff Department of Critical Care Medicine

Shetal N. Shah, MD Staff Department of Diagnostic Radiology Imaging Institute



Courtney Smalley, MD Staff Center for Emergency Medicine **Emergency Services Institute** 

Imaging Institute

Brittney Rooney, MD Center for Emergency Medicine

**Emergency Services Institute** 

Ammar Saati, MD, FACP

# Cleveland Clinic Faculty

Patrick Collier, MD, PhD, FASE, FESC Robert and Suzanne Tomsich Department of Cardiovascular Medicine Sydell and Arnold Miller Family Heart, Vascular & Thoracic Institute

**Siddharth Dugar, MD**Department of Pulmonary Medicine Respiratory Institute

James Fitzgibbon, MD Department of Emergency Medicine Emergency Services Institute

Michael Forney, MD Department of Diagnostic Radiology Imaging Institute

Marina Freiberg, MD Center for Emergency Medicine Emergency Services Institute Department of Critical Care Medicine Respiratory

Keshava Murthy Narayana Gowda, MD Department of Pediatric Critical Care Medicine Pediatric Institute

**John Hanicak, MD**Department of Family Medicine Cleveland Clinic Community Care

Planning Committee
Lacey Hood, PA-C Department of Critical Care Medicine

Respiratory Institute

William Hanna, MD
Department of Pediatric Critical Care Medicine Pediatric Institute

Joshua Jacquet, MD Department of Emergency Medicine **Emergency Services Institute** 

**Douglas Joseph, DO, RVT, RPVI**Robert and Suzanne Tomsich Department of Cardiovascular Medicine Sydell and Arnold Miller Family Heart, Vascular & Thoracic Institute

**Aanchal Kapoor, MD**Department of Critical Care Medicine Respiratory Institute

**Ajit Moghekar, MD**Department of Pulmonary Medicine Respiratory Institute

Lauren Moore, MD Department of Critical Care Medicine Respiratory Institute

Eileen Nelson, APRN, CNP Department of Diagnostic Radiology Imaging Institute

Divyajot Sadana, MD Department of Critical Care Medicine Respiratory Institute

Vascular & Thoracic Institute

Robert and Suzanne Tomsich Department of Cardiovascular Medicine Sydell and Arnold Miller Family Heart,

D. Alex Paratore, DO
Department of Diagnostic Radiology

Roman Shingarev, MD
Department of Kidney Medicine Glickman Urological Institute

Matt Siuba, DO Department of Critical Care Medicine Respiratory Institute

Robert Stenberg, MD Department of Emergency Medicine Emergency Services Institute

Michael Taylor, MD Department of Intensive Care and Resuscitation Anesthesiology Institute

**Brian Kissinger, MSN, RN** Simulation and Advanced Skills Center Education Institute

# Wednesday, May 10, 2023

# **Building a Point-of-Care Ultrasound Program**

12:45 pm	Registration
1:00 pm	Welcome & Introduction & Define your POCUS Program Courtney Smalley, MD and Course Faculty
1:15 pm	Machine Choice, IT Configuration, and EMR Workflows Joshua Jacquet, MD
1:45 pm	POCUS Training - "Starting from Square One - Year 1 Experiences with Internal Medicine"
	Ammar Saati, MD
2:00 pm	POCUS Training - "2-5 years in - How to Build a Program in Family Medicine"  John Hanicak, MD
2:15 pm	POCUS Training - "The Experienced Program - Ways to Move the Program Forward"  Brittney Rooney, MD

2:30 pm **Roundtable Discussion** 

Siddharth Dugar, MD, John Hanicak, MD, Joshua Jacquet, MD, Brittney Rooney, MD,

and Ammar Saati, MD

3:00 pm **Refreshment Break Quality Improvement** 3:15 pm Siddharth Dugar, MD

**Credentialing and Privileging** 3:45 pm

Robert Stenberg, MD

**Billing and Coding** 4:15 pm Courtney Smalley, MD

**Q&A** and Closing Remarks 4:45 pm

Courtney Smalley, MD

5:00 pm Adjourn

7:00 am

# Thursday, May 11, 2023

# **Diagnostic Sessions and Hands-on Workshops**

7:45 am	Welcome and Introduction  Eduardo Mireles-Cabodevila, MD, Shetal N. Shah, MD, and Courtney Smalley, MD
8:00 am	Basics of Diagnostic Ultrasound Lecture Shetal N. Shah, MD
8:45 am	Basics of Diagnostic Ultrasound Workshop Shetal N. Shah, MD
9:45 am	Refreshment Break and Exhibits
10:00 am	Concurrent Lectures & Workshops: Basics of Echocardiography and Focused Assessment with Sonography for Trauma (FAST)  Patrick Collier, MD, PhD and James Fitzgibbon, MD
12:00 pm	Lunch and Exhibits
1:00 pm	Concurrent Lectures & Workshops: Vascular DVT/Aorta and Lung Ultrasound Douglas Joseph, DO and Ajit Moghekar, MD
3:00 pm	Refreshment Break and Exhibits
3:30 pm	Concurrent Hemodynamic Assessment Workshops Siddharth Dugar, MD and Matt Siuba, DO
5:00 pm	Adjourn

**Registration, Continental Breakfast and Exhibits** 

# Friday, May 12, 2023

**Procedural Sessions and Hands-on Workshops** 

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7:00 am	Continental Breakfast and Exhibits
7:45 am	<b>Welcome</b> Eduardo Mireles-Cabodevila, MD, Shetal N. Shah, MD, and Courtney Smalley, MD
8:00 am	Basics of Procedural Ultrasound Lecture Shetal N. Shah, MD, Michael Forney, MD and D. Alex Paratore, DO
8:45 am	Basics of Procedural Ultrasound Workshop Shetal N. Shah, MD, Michael Forney, MD and D. Alex Paratore, DO
9:45 am	Refreshment Break and Exhibits
10:00 am	Peripheral Access Workshop (IV, Midline, PICC, Arterial Line) Aanchal Kapoor, MD
11:00 am	Paracentesis, Thoracentesis & Arthrocentesis Lecture Michael Forney, MD, Eileen Nelson, CNP and Divyajot Sadana, MD
11:10 am	Paracentesis, Thoracentesis & Arthrocentesis Workshop Michael Forney, MD, Eileen Nelson, CNP and Divyajot Sadana, MD
12:00 pm	Lunch and Exhibits
1:00 pm	<b>Central Venous Access Lecture</b> Michael Taylor, MD, Divyajot Sadana, MD and Roman Shingarev, MD
1:30 pm	<b>Concurrent Central Venous Access Workshops</b>

**Refreshment Break and Exhibits** 

**Concurrent Central Venous Access Workshops** 

Eduardo Mireles-Cabodevila, MD, Shetal N. Shah, MD, and

Michael Taylor, MD, Divyajot Sadana, MD and Roman Shingarev, MD

Michael Taylor, MD, Divyajot Sadana, MD and Roman Shingarev, MD

# Saturday, May 13, 2023

3:00 pm

3:30 pm

5:00 pm

5:15 pm

7:30 am Continental Breakfast

Wrap up

Adjourn

Courtney Smalley, MD

Optional Hands-on Concurrent Workshops: 8:00 am - 12:30 pm						
Airway Management in the Critically III Patient		Pediatric Simulations and Ultrasound		Hemodynamic Assessment of the Critically III Patient		
Leads: Aanchal Kapoor, MD and Eduardo Mireles-Cabodevila, MD	OR	Leads: Keshava Murthy Narayana Gowda, MD and William Hanna, MD	OR	Leads: Marina Freiberg, MD, Lauren Moore, MD, and Courtney Smalley, MD		

12:30 pm Adjourn

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

# **General Information**

#### Location

#### Simulation and Advanced Skills Center

Stanley Shalom Zielony Plaza (formerly HealthSpace) Euclid Ave at 89th Street

Euclid Ave at 89th Stree Cleveland, OH 44106 Phone: 216.445.5463

#### Information

For further information about this activity, hotel

recommendations, and parking, contact the Cleveland Clinic

Center for Continuing Education. Local: 216.444.9990, option 2 Website: ccfcme.org/GoUltra

#### Accreditation

In support of improving patient care, Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

#### **Credit Designation**

#### American Medical Association (AMA)

Cleveland Clinic Center for Continuing Education designates: Wednesday Optional "Building a Point-of-Care Ultrasound Program" workshop as a live activity for a maximum of 3.75 AMA PRA Category 1 Credits  $^{\text{TM}}$ 

Thursday/Friday 2-Day Course as a live activity for a maximum of 15.25 AMA PRA Category 1 Credits<sup>TM</sup>

Saturday Optional Workshops as live activities for a maximum of 4.5 AMA PRA Category 1 Credits<sup>TM</sup> each.

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.

#### American Nurses Credentialing Center (ANCC)

Cleveland Clinic Center for Continuing Education designates: Wednesday Optional "Building a Point-of-Care Ultrasound Program" workshop for a maximum of 3.75 ANCC Contact Hours Thursday/Friday 2-Day Course for a maximum of 15.25 ANCC Contact Hours

Saturday Optional Workshops for a maximum of 4.5 ANCC Contact hours each.

# American Academy of PAs (AAPA)

Cleveland Clinic Center for Continuing Education has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. Cleveland Clinic Center for Continuing Education designates:

Education designates:
Wednesday Optional "Building a Point-of-Care Ultrasound Program"
workshop for a maximum of 3.75 AAPA Category 1 CME credits
Thursday/Friday 2-Day Course for a maximum of 15.25 AAPA
Category 1 CME credits

Saturday Optional Workshops for a maximum of 4.5 AAPA Category 1 CME credits each.

PAs should only claim credit commensurate with the extent of their participation.

#### **Certificate of Participation**

A certificate of participation will be provided to other health care professionals for requesting credits in accordance with their professional boards and/or associations.

# Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.

#### **Faculty Disclosure**

The Cleveland Clinic Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

# Registration -

Registration Fee includes online access to faculty PowerPoint presentations in PDF format.

Fees ON or BEFORE March 31, 2023					
Category	Wednesday Optional Workshop (live stream or in-person option) (includes refreshment break)	2-Day Course (Thursday & Friday) (includes continental breakfast, refreshment breaks and lunch)	Saturday Optional Workshop (includes continental breakfast)	2-Day Course and Optional Saturday Workshop	
Physician		\$1,795	\$595	\$2,100	
Advanced Practitioner/Allied Health	\$99  **Included (no fee/charge) if registered for 2-Day Course	\$1,795	\$595	\$2,100	
Resident/Fellow		\$1,795	\$595	\$2,100	

Fees AFTER March 31, 2023					
Category	Wednesday Optional Workshop (live stream or in-person option) (includes refreshment break)	2-Day Course (Thursday & Friday) (includes continental breakfast, refreshment breaks and lunch)	Saturday Optional Workshop (includes continental breakfast)	2-Day Course and Optional Saturday Workshop	
Physician		\$1,895	\$695	\$2,200	
Advanced Practitioner/Allied Health	\$99  **Included (no fee/charge) if registered for 2-Day Course	\$1,895	\$695	\$2,200	
Resident/Fellow		\$1,895	\$695	\$2,200	

Questions regarding registration, please call CME Registration at 216-444-9990.

Visit www.ccfcme.org/GoUltra for complete registration information.

### **Registration and Cancellation**

Preregistrations for the in-person event are accepted until the start of the course on May 10, 2023, or until registration is full. After the start of the course on Wednesday, May 10, contact CME Registration at CMEregistration@ccf.org directly to confirm on-site availability.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if cancelled by Friday, April 21, 2023. After April 21, a \$150 cancellation fee will be deducted from your refund. No refunds will be issued after the start of the course.

"Wednesday Optional Workshop" – If you chose the "in-person" option, a full refund will be issued if cancelled by Friday, April 21, 2023. After April 21, a \$25 cancellation fee will be deducted from your refund and access to Live Stream will be provided. Access instructions will be sent by May 5. Please note – all sessions will be held in Eastern Time. No refunds will be issued after access instructions have been sent.

If you chose the "live stream" option, a full refund will be issued if cancelled before access instructions have been sent. Access instructions will be sent by May 5. Please note – all sessions will be held in Eastern Time. No refunds will be issued after access instructions have been sent.

#### **Health & Safety**

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. Additional attendance requirements may be implemented to ensure attendee health and safety. For the most current requirements, please visit www.ccfcme.org/GoUltra.

Cleveland Clinic Center for Continuing Education reserves the right to cancel, postpone or modify an activity type at our sole discretion. In the 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 Activity cancellations or changes.

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The Cleveland Clinic Foundation 9500 Euclid Avenue, JJ42 Cleveland, 0H 44195

Diagnostic and Procedural Skills

**Ultrasound Workshop:** 

Focus on the Hospitalized Patient

Cleveland Clinic Simulation and Advanced Skills Center

Cleveland, OH

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# Cleveland Clinic

