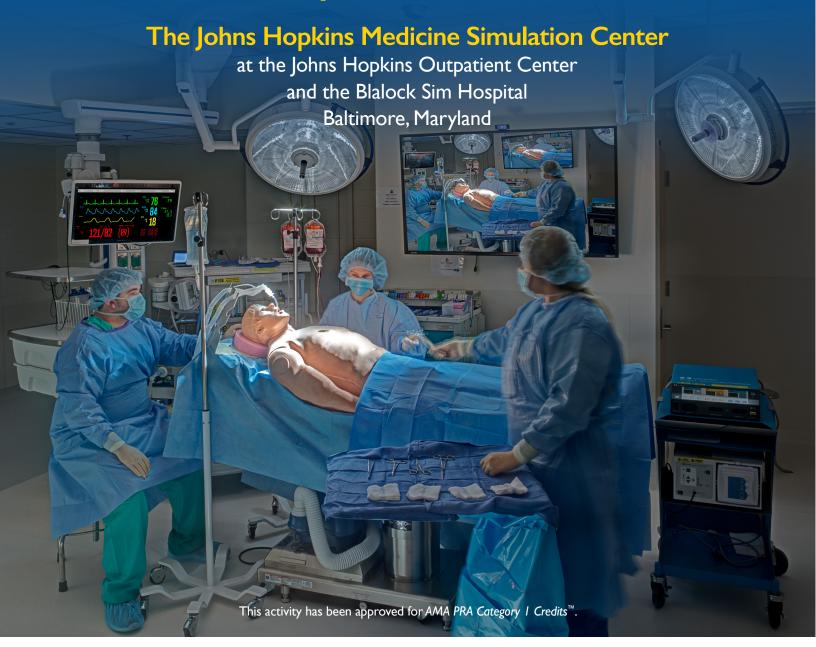
Department of Anesthesiology and Critical Care Medicine presents

POINT-OF-CARE ULTRASONOGRAPHY

for the Acute Care Provider

April 27-28, 2019







DESCRIPTION

This course will familiarize participants with basic acquisition skills and image interpretation associated with point-of-care ultrasonography. Participants will learn point-of-care imaging concepts associated with examination of cardiac, lung, abdominal, and vascular procedures through a mixture of didactic lectures, hands on training sessions, case discussions, and simulation experiences.

WHO SHOULD ATTEND

This activity is intended for anesthesiologists, cardiovascular disease physicians, critical care medicine physicians, emergency medicine physicians, internists, pulmonologists, surgeons, as well as physician assistants, and nurse practioners.

OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- Identify evidence-based applications of ultrasound for the management of the acute care patient.
- Describe and interpret basic views for real-time ultrasound-guided vascular access and vascular examination.
- Describe and interpret basic trans-thoracic cardiac and lung ultrasound views.
- Discuss basic ultrasound algorithms for the assessment of the unstable patient.

ACCREDITATION STATEMENT

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



CREDIT DESIGNATION STATEMENT

The Johns Hopkins University School of Medicine designates this live activity for a maximum of 14.25 AMA PRA Category I Credits $^{\rm TM}$. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MAINTENANCE OF CERTIFICATION

Maintenance of Certification in Anesthesiology™ program and MOCA® are registered trademarks of The American Board of Anesthesiology®. MOCA 2.0® is a trademark of The American Board of Anesthesiology®.

This activity contributes to the CME component of the American Board of Anesthesiology's redesigned Maintenance of Certification in Anesthesiology™ MOCA® program known as MOCA 2.0®. Please consult the ABA website, www.theABA.org, for a list of all MOCA 2.0 requirements.

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn



up to 14.25 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

OTHER CREDITS

American Academy of Nurse Practitioners National Certification Program

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category I Credit $^{\rm m}$ from organizations accredited by the ACCME.

American Nurses Credentialing Center

American Nurses Credentialing Center (ANCC) accepts AMA PRA Category I Credit $^{\text{m}}$ from organizations accredited by the ACCME.

National Commission on Certification of Physician Assistants

PAs may claim a maximum of 14.25 Category I credits for completing this activity. NCCPA accepts AMA PRA Category I Credit from organizations accredited by ACCME or a recognized state medical society.

Contact Hours for Non-Physicians

The Johns Hopkins University has approved this activity for 14.25 contact hours for non-physicians.

POLICY ON SPEAKER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.



GENERAL INFORMATION

REGISTRATION

April 27, 2019 • 7:00 a.m.

LOCATIONS

Johns Hopkins Medicine Simulation Center has two locations.

Phone: (410) 614-0847

 $hopkins medicine.org/simulation_center$

Please note the location for each day below.

April 27, 2019

Johns Hopkins Medicine Simulation Center at the Johns Hopkins Outpatient Center 601 North Caroline Street, Outpatient Center, Room 8210 Baltimore, Maryland 21287

The closest garage to the Johns Hopkins Outpatient Center is the Caroline Street Garage, which is located off of North Caroline Street between Monument and Orleans (Route 40) Streets.

April 28, 2019

Johns Hopkins Medicine Simulation Center at the Blalock Sim Hospital The Johns Hopkins Hospital 600 North Wolfe Street, Blalock Building, Room 701 Baltimore, Maryland 21287

The closest garage to The Johns Hopkins Hospital is the Orleans Street Garage, which is located on Orleans Street (Route 40) between North Wolfe Street and Broadway.

Handicapped parking is available in both garages.

For further directions and campus parking information are available under Contact Us tab at **hopkinscme.cloud-cme.com**.

Johns Hopkins is smoke-free.

FEES

Register Online:

hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=17820

Methods of Payment: We require full payment prior to the start of the activity. On-site payments by credit card only. The registration fee includes instructional materials, continental breakfasts, refreshment breaks and lunches.

Physicians	\$1,600
Residents*/Fellows*/Nurses/NPs/PAs/Allied	41.400
Health Professionals	\$1,400
*with verification of status	

You will receive a confirmation by e-mail. If you have not received it by **April 22, 2019**, call (410) 502-9636 to confirm that you are registered.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

LATE FEE AND REFUND POLICY

A \$50 late fee applies to registrations received after 5:00 p.m. ET on **April 22, 2019**. A handling fee of \$50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by **April 22, 2019**. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

SYLLABUS

The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity.

HOTEL AND TRAVEL INFORMATION

We strongly encourage you to book your accommodations at the **Residence Inn Baltimore at The Johns Hopkins Medical Campus**, which is the conference headquarters hotel. The Johns Hopkins Office of CME makes every effort to secure the best rate for overnight accommodations. The rate is part of a negotiated conference package that incorporates many services. By staying at the host hotel and booking within the room block, you help us maintain current conference benefits and keep future registration fees reasonable. Please consider this when making your overnight accommodations decision.

Residence Inn Baltimore at The Johns Hopkins Medical Campus

800 North Wolfe Street Baltimore, Maryland 21205

(443) 524-8400

Website: https://bit.ly/2U3dxXG

HOTEL RESERVATION CUT-OFF DATE: April 12, 2019

A limited block of sleeping rooms has been reserved for your convenience and will be available on a first come, first served basis.

The Residence Inn Baltimore at The Johns Hopkins Medical Campus is a brand new, all suite facility located on the campus of The Johns Hopkins Medical Campus, with complimentary breakfast, room service and high-speed Internet. The hotel is conveniently located near Johns Hopkins and a short taxi ride from Baltimore's Inner Harbor. Make your reservation online at https://bit.ly/2U3dxXG or call the hotel directly and specify that you are attending the Johns Hopkins Infectious Diseases conference to receive the special group rate of \$149, single or double, plus tax. Onsite parking is available at an additional charge. Check-in time is 4:00 p.m. Check-out time is 12:00 noon.

HOW TO OBTAIN CREDIT

Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner's transcript and immediately available for print.

The last day to access the evaluation and attest to your credits is June 12, 2019.

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner's practice.

EMERGENCY CALLS

On April 27-28, 2019, direct emergency calls to (410) 614-0847 and ask that a message be sent to the Point-of-Care Ultrasonography for the Acute Care Provider registration desk. Messages will be posted for participants.

AMERICANS WITH DISABILITIES ACT

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

TO REGISTER OR FOR FURTHER INFORMATION

Register Online

hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=17820

Register by Phone	(410) 502-9636
Register by Fax	
Confirmation/Certificates/Transcripts	
General Information	(410) 955-2959
E-mail the Office of CME	

Follow us on Twitter: twitter.com/HopkinsCME Facebook: facebook.com/HopkinsCME

CloudCME

Check out our mobile app CloudCME. Organization Code: *HopkinsCME*

For website and CloudCME mobile app technical difficulties, email: cmetechsupport@jhmi.edu

Sponsoring Department Website: anesthesiology.hopkinsmedicine.org

For general information, please visit the activity webpage at hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=17820

ACKNOWLEDGEMENT

Applications for commercial support from health care related industries are pending. A complete list of contributors will be provided in the syllabus. Please note that commercial support received is solely for the educational component of the activity and will not be used to provide food and beverage.

Please note: The Physician Payments Sunshine Act was enacted by Congress to increase public awareness of financial relationships between drug and medical device manufacturers and physicians. In compliance with the requirements of this Act, the commercial supporter/s of this activity may require the Johns Hopkins University School of Medicine to report certain professional information (such as name, address, National Provider Identifier (NPI), and State License number) of physician attendees who receive complimentary food and beverage in conjunction with a CME activity. The commercial supporter is required to submit the collected data to the Centers for Medicare and Medicaid Services which will then publish the data on its website.



PROGRAM

	SATURDAY, APRIL 27, 2019		SUNDAY, APRIL 28, 2019
7:00 - 8:00	Registration and Continental Breakfast	7:30 — 8:00	Continental Breakfast
8:00 - 8:20	Welcome and Goals	8:00 - 8:30	Welcome and Goals
DIDACTICS		8:30 – 8:50	Simulation and US Training Stephanie Cha, MD
8:20 - 8:50	Basic TTE Views Lena Mathews, MD	8:50 - 9:20	Putting It Together: Algorithms for Shock and Respiratory Failure
8:50 – 9:10	LV Function Stephanie Cha, MD	9:20 – 9:30	Mark Hamlin, MD Refreshment Break
9:10 – 9:30	RV Function Megan Kostibas, MD	SIMULATION	N STATIONS
9:30 – 9:50	TEE Essentials Mary Beth Brady, MD	(each participant w 9:30 – 11:30	rill rotate through stations) Simulation Stations
9:50 - 10:00	Refreshment Break		(each participant will rotate through stations)
HANDS-ON	TRAINING	11:30	Pick Up Box Lunches
10:00-12:00	TTE Views and Basic TEE	LUNCH LEC	
	Michael Banks, MD, Mary Beth Brady, MD,	11:45 – 12:15	Ultrasound in Cardiac Arrest Nibras Bughrara, MBChB
	Nibras Bughrara, MBChB, Stephanie Cha, MD, Brian Garibaldi, MD, Mark Hamlin, MD, Youn-Hoa Jung, MD, Megan Kostibas, MD,	12:30 – 2:30	Simulation Stations (each participant will rotate through stations)
	Laeben Lester, MD, Gigi Liu, MD, MSc, Lena Mathews, MD, Pedro Mendez-Tellez, MD, Asif Padiyath, MD, Aliaksei Pustavoitau, MD, MPH, and Erik Su, MD		Station I: PACU Cases • Acute Respiratory Distress (Hypoventilation, Atelectasis) • Acute Hypotension (Acute LV Failure)
12:00	Pick Up Box Lunches		Michael Banks, MD, Lee Goeddel, MD, MPH, Megan Kostibas, MD, and Laeben Lester, MD
LUNCH CAS	E PRESENTATIONS		Station 2: RRT Cases
12:10 - 12:30	Adjunct to Physical Exam: i.e., Tamponad Gigi Liu, MD, MSc		Acute Respiratory Distress (LV Failure/Pulmonary Edema)
12:30 – 12:50	PE, Vascular Exam Erik Su, MD		 Acute Hypotension (Sepsis/Diastolic Dysfunction) Youn-Hoa Jung, MD, Gigi Liu, MD, MSc, and Asif Padiyath, MD
DIDACTICS			Station 3: Grab-bag Cases
12:50 — 1:20	Lung Mark Hamlin, MD, and Aliaksei Pustavoitau, MD, MPH		Neuro Patient with Acute Respiratory Distress (Aspiration Pneumonia)
1:20 – 1:40	Trauma Larry Lee, MD, MS		 Pre-partum Patient with Hypotension (Placental Abruption) David Berman, MD, Pedro Mendez-Tellez, MD,
1:40 – 2:00	Procedural Guidance Laeben Lester, MD		and Erik Su, MD
2:00 – 2:30	Putting It Together: Preload Responsiveness vs. Fluid Tolerance Pedro Mendez-Tellez, MD		Station 4: ACLS Cases Nibras Bughrara, MBChB, Stephanie Cha, MD, Mark Hamlin, MD, Christina Miller, MD, PhD, MS, Aliaksei Pustavoitau, MD, MPH, and
2:30 - 2:40	Refreshment Break		Adam Schiavi, MD, PhD, MS
HANDS-ON	TRAINING		
2:40 – 3:10	Lung Exam Mark Hamlin, MD, and Aliaksei Pustavoitau, MD, MPH	2:30 - 3:00	Questions and Answers / Summary Stephanie Cha, MD, and
3:10 – 3:40	Abdomen Brian Garibaldi, MD, Larry Lee, MD, MS, and Gigi Liu, MD, MSc	3:00	Aliaksei Pustavoitau, MD, MPH Adjourn
3:40 - 4:10	Procedural Guidance Megan Kostibas, MD, and Laeben Lester, MD	You will receive an e to the number of ho	email notification to complete the evaluation form and to attest ours in attendance.
4:10 – 4:40	Preload Responsiveness Nibras Bughrara, MBChB, Youn-Hoa Jung, MD, Pedro Mendez-Tellez, MD, and Asif Pandiyath, MD	The registration desk	k will remain open during conference hours.
4:40 - 5:00	Summary Stephanie Cha, MD, and Aliaksei Pustavoitau, MD, MPH		

ACTIVITY CO-DIRECTORS



Stephanie Cha, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine Divisions of Critical Care Medicine and Cardiothoracic Anesthesia



Aliaksei Pustavoitau, MD, MPH

Assistant Professor of Anesthesiology/ Critical Care Medicine Division of Critical Care Medicine Program Director, Liver Transplant Anesthesiology Director, Adult Medical Respiratory Therapies

JOHNS HOPKINS SPEAKERS



Michael Banks, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine Associate Residency Program Director Division of Critical Care Medicine



David Berman, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine Division of Obstetric, Gynecologic and Fetal Anesthesia



Mary Beth Brady, MD

Associate Professor of Anesthesiology/ Critical Care Medicine Division of Cardiac Anesthesia Vice Chair, Education, Department of Anesthesiology/Critical Care Medicine Medical Director, Johns Hopkins Post Anesthesia Care Unit Director, Intraoperative Transesophageal Echocardiography



Brian Garibaldi, MD

Associate Professor of Medicine and Physiology Division of Pulmonary and Critical Care Medicine Director, Johns Hopkins Biocontainment Unit Associate Program Director, Osler International Medicine Residency Program



Lee Goeddel, MD, MPH

Assistant Professor of Anesthesiology/ Critical Care Medicine Divisions of Critical Care Medicine and Cardiothoracic Anesthesia Program Director, Critical Care Medicine Fellowship Director, Peri-operative Ultrasound Research



Youn-Hoa Jung, MD

Clinical Fellow of Anesthesiology/ Critical Care Medicine Division of Critical Care Medicine



Megan Kostibas, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine Associate Fellowship Program Director, Adult Cardiothoracic Anesthesiology Fellowship Division of Adult Cardiothoracic Anesthesiology



Larry Lee, MD, MS

Assistant of Surgery
Division of Acute Care Surgery



Laeben Lester, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine and Emergency Medicine Division of Adult Cardiothoracic Anesthesia



Gigi Liu, MD, MSc

Instructor of Medicine Division of Internal Medicine Johns Hopkins Hospitalist Program Department of Radiology and Radiological Science



Lena Mathews, MD

Assistant Professor of Medicine Divisons of Cardiology and Cardiovascular



Pedro Mendez-Tellez, MD

Assistant Professor of Anesthesiology/ Critical Care Medicine and Surgery Medical Director, Respiratory Care Services Divisions of Critical Care Medicine and Acute Care and Adult Trauma Surgery



Christina Miller, MD, PhD, MS

Assistant Professor of Anesthesiology/ Critical Care Medicine and Otolaryngology-Head and Neck Surgery Division of Neuroanesthesia



Asif Pandiyath, MD

Clinical Fellow of Anesthesiology/ Critical Care Medicine



Adam Schiavi, MD, PhD, MS

Assistant Professor of Anesthesiology/ Critical Care Medicine and Neurology Director, Simulation Education Division of Neuroanesthesia

GUEST SPEAKERS



Nibras Bughrara, MBChB

Assistant Professor of Anesthesiology/ Critical Care Medicine and Surgery Director, Division of Anesthesia Critical Care Medicine Director, Critical Care Echocardiography Training Program Albany Medical College Albany, New York



Mark Hamlin, MD

Professor of Anesthesiology and Surgery Larner College of Medicine, University of Vermont Vice Chair, Clinical Affairs Director, Quality and Patient Safety Medical Director, Respiratory Care Services The University of Vermont Medical Center Burlington, Vermont



Erik Su, MD

Cardiovascular ICU Senior Fellow Division of Pediatric Cardiology Stanford University School of Medicine Palo Alto, California

Point-of-Care Ultrasonography for the Acute Care Provider April 27-28, 2019

To Register:

Online: hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=17820

Fax: (866) 510-7088 Phone: (410) 502-9636

Or mail this form to the Johns Hopkins University, Office of Continuing Medical Education, 720 Rutland Avenue, Turner Room 20, Baltimore, Maryland 21205-2195.

Last Name Highest Degree			First Name Primary Specialty		M.I.	M.I. Hopkins Faculty/Staff Only – JHED ID:	
					Hopkins Faculty/St		
For Physicians Only	NPI I0 digit #		State License #		State of License:		
ABA ID#	ABIM ID#		Birth Month		Birthday Day		
Organization			Mailing Address				
City				State	Zip + 4 Code	Country	
Daytime Telephone			Fax Number				
Email (required)							
☐ Check here if you wish to upcoming CME activities.☐ I plan to stay at the Reside Medical Campus in BaltimWhat do you hope to learn	Payment Type: JHU Faculty/Staff Only: If you are using your Tuition Remission Benefit or an ION budget, please upload your fully completed and approved form in the payment section of the online activity link above. TR Form: benefits.jhu.edu/documents/trffacandstaff.pdf ION Form: hopkinscme.edu/migration/lonRequest.pdf						
Please notify us if you have a	ny special needs.		□ e-Check	: Routing Numb	per:		
Registration Fees:			Account	Number:			
Physicians		\$1,600	☐ Credit Ca	ard: □VISA □	MASTERCARD DISC	COVER AMEX	
Residents*/Fellows*/Nurse Health Professionals	es/NPs/PAs/Allied	\$1,400			E×		
*with verification of status The registration fee includes			ge.	ode	Security Code		
For registrations received aft			a Name on Card			Signature and Date	

Total amount enclosed \$_____

