

Choose from two different sessions!

Location for all dates: MAHEC Mary C. Nesbitt Biltmore Campus 121 Hendersonville Rd, Asheville NC 28803

Session 1

Date: Friday, June 9, 2017 Registration: 3:45 pm - 4:00 pm Program: 4:00 pm - 8:00 pm (dinner provided)

AND

Date: Saturday, June 10, 2017 Registration: 7:30 am - 8:00 am

(light breakfast provided)
Program: 8:00 am - 6:00 pm

(lunch provided)

Registration Fee: \$750.00
Medical Students and Family Medicine Residents: \$250.00
(students must show proof of enrollment at check-in)

Attendees will participate in hands-on sessions and lectures that will cover the basics in several areas of medical ultrasound with clinical applications in inpatient, outpatient, and emergency settings. These skills will form the foundation for basic assessment with point-of-care ultrasound as well as procedural methods such as FAST, RUSH, Cardiovascular, Obstetric, MSK, DVT and Renal.

AUDIENCE

General internists, hospitalists, pulmonary critical care physicians, emergency physicians, family medicine residents, fellows, and advance practice providers

MEDICAL COURSE DIRECTOR

Benjamin Gilmer, MD

COMMITTEE MEMBERS

Benjamin Gilmer, MD Scott Ramming, MD Elaine Alexander, BSN, MSN, RNC-OB



Session 2

Date: Friday, September 22, 2017
Registration: 3:45 pm - 4:00 pm
Program: 4:00 pm - 8:00 pm
(dinner provided)

AND

Date: Saturday, September 23, 2017

Registration: 7:30 am - 8:00 am

(light breakfast provided)
Program: 8:00 am - 6:00 pm

(lunch provided)

OBJECTIVES

Upon completion of this educational event, the learner should be able to:

- Review the fundamental principles and image formats used in sonography
- Identify normal and abnormal sonoanatomy of the kidneys
- Identify at least three office-based clinical applications of ultrasound
- Demonstrate the necessary scanning skills required to maximize diagnostic capabilities
- Discuss basic principles of point-of-care ultrasound machine operation and scanning basic principles of point-of-care ultrasound machine operation and scanning.
- Discuss advanced point-of-care ultrasound applications, including lung and pleural ultrasound, vascular access, procedural guidance, focused abdominal and pelvic ultrasound, deep venous thrombosis valuation, cardiac echocardiography, and musculoskeletal/soft tissue applications
- Learn how to enhance adequate ultrasound images for focused examinations
- Through clinical case review, learn to diagnose conditions commonly identified at the bedside using point of care ultrasound

AGENDA

Day 1	
3:45 – 4:00pm	Registration (light refreshments)
4:00 – 4:15pm	Overview of Course, POCUS Introduction Benjamin Gilmer, MD and Vivek Tayal, MD, FACEP
4:15 – 4:45pm	Introduction to US Fundamentals and Basic Physics Benjamin Gilmer, MD
4:45 - 5:15pm	Didactic: FAST Vivek Tayal, MD, FACEP and Margaret Lewis, MD
5:15 – 6:00pm	Scan lab: FAST (eFAST)
6:00 – 7:00pm	Working Dinner (provided) and Didactic: Pulmonary Vivek Tayal, MD, FACEP and Margaret Lewis, MD
7:00 – 7:45pm	Scan Lab: Pulmonary
7:45 – 8:00pm	Evening Wrap-up and Adjourn

Have a question? Special Services: 828-257-4485 Program Planner: Elaine Alexander, MSN, RNC-OB elaine.alexander@mahec.net 828-257-4414 Registration Information: 828-257-4475 Fax Registration: 828-257-4768 Online Registration: www.mahec.net Email: registration@mahec.net Mail: MAHEC Registration

121 Hendersonville Rd., Asheville, NC 28803

Day 2					
7:30 - 8:00am	Registration (light breakfast provided)				
7:00 - 8:00am	Optional: Practice Sonosim Modules (no credit)				
8:00 - 8:30am		actic: Subcostal, Apical k Tayal, MD, FACEP and			
8:30 - 9:00am	Didactic: Cardiovascular – PLAX, PSS Vivek Tayal, MD, FACEP and Margaret Lewis, MD				
9:00 - 9:15am	Brea	-			
9:15 - 10:30am	Scan Lab: Cardiovascular - PLAX, PSS Vivek Tayal, MD, FACEP and Margaret Lewis, MD				
10:30-10:45am	Break				
10:45 – 11:15am	Didactic: AAA screen Bornemann, MD				
11:15 – 12:00pm	Sca	n lab: AAA			
12:00 – 1:00pm	Lunch (provided) and Didactic: Current Standards of POCUS in EM and FM				
		k Tayal, MD, FACEP and	Paul Bornemann, NID		
1:00 - 1:30pm	Didactic Session				
1:30 - 2:15pm	Sca	n Lab Breakouts			
A. RUSH		B. Liver/	C. DVT Screen		
		Gallbladder			
2:15 - 2:45pm 2:45 - 3:30pm		actic Session In Lab Breakouts			
2.40 - 3.30pill	Sca	in Lab Breakouts			
D. DVT Screen	- 30a	E. Renal	F. MSK Focused:		
	- SCa		F. MSK Focused: Shoulder and Knee		
D. DVT Screen		E. Renal			
· ·	Dida				
D. DVT Screen 3:30 - 4:00pm	Dida Sca	E. Renal			

FACULTY

5:45 - 6:00pm

Benjamin Gilmer, MD, MS, is currently on faculty at the MAHEC Family Medicine Residency Program and directs its ultrasound curriculum. He leads MAHEC's Global Health curriculum where point of care ultrasound plays an important role. His academic areas of interest include medical education and rural/global health. He is the Family Medicine Clerkship director for the UNC Asheville Regional Campus and Medical director for UNC's Kenan Primary Care Scholars Program and MAHEC's Rural Health Fellowship. He practices full-spectrum family medicine, including obstetrics and is passionate about advancing POCUS throughout WNC.

Vivek Tayal, MD, FACEP, currently serves as the Chief of the Division of Emergency Ultrasound in the Department of EM at Carolinas Medical Center and has been active nationally in the American College of Emergency Physicians (ACEP) Emergency Ultrasound Section, Society for Academic Emergency Medicine (SAEM) Ultrasound Interest Group and American Institute of Ultrasound in Medicine (AIUM) Emergency Ultrasound Section. He is the ACEP liaison to AIUM. He also teaches nationally for the Emergency Ultrasound Course. His academic interests include new avenues in ultrasonography, resuscitation, health policy and computerization of Emergency Department (ED) operations.

Margaret Lewis, MD, received her BS in Chemical Engineering from the University of South Carolina in 2002. She completed medical school in 2008 and Emergency Medicine residency in 2011, both at the Medical University of South Carolina. She then completed an Emergency Ultrasound Fellowship at Carolinas Medical Center in 2012 and joined CMC as ultrasound faculty. Her focuses include ultrasound in medical student education, resident education, remote education, as well as international medicine.

Paul Bornemann, MD, joined the faculty of the University of South Carolina School of Medicine in October 2014. He also serves as the Associate Director for the Palmetto Health Family Medicine Residency Program. Dr. Bornemann earned a Bachelor of Science degree in Biotechnology from Rutgers University and his medical degree from Robert Wood Johnson Medical School in Piscataway, NJ. Dr. Bornemann is interested in point-of-care ultrasound training and research, behavioral health in primary care, and clinical decision-making processes.

Wrap Up and Adjourn

Andy Morris, MD, is the medical director of the Hendersonville Family Health Center and Associate Program Director of the MAHEC Hendersonville Family Medicine Residency Program. He practices general family medicine including inpatient medicine and non-operative obstetrics. He has taken bedside ultrasound courses through NPI and Introduction to Primary Care Ultrasound through The Ultrasound Institute at USC.

Aaron Vaughan, MD, is a Family Medicine Physician, the Sports Medicine Director and the Primary Care Sports Medicine Fellowship Director at Mountain Area Health Education Center (MAHEC) in Asheville, NC.

Julia Oat Judge, MD, is the Assistant Program Director and OB Curricular Director at the Mountain Area Health Education Center (MAHEC) Family Medicine Residency program in Asheville, North Carolina. Dr. Oat-Judge received her medical degree from The John Hopkins School of Medicine in 2010 and completed an OB/GYN internship at Brown Medical School in 2011, a Family Medicine residency at MAHEC in 2014, and a Maternal Child Health Fellowship at Brown Medical School in 2015. Dr. Oat-Judge's clinical and research focus is on maternity care and reproductive health.

CREDITS

Continuing Medical Education

Accreditation

The Mountain Area Health Education Center (MAHEC) is accredited by the North Carolina Medical Society to sponsor continuing education for physicians.

Credit

The Mountain Area Health Education Center designates this educational activity for a maximum of 13.5 AMA PRA Category 1™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclosure Statement

MAHEC adheres to the ACCME Standards regarding industry support to continuing medical education. Disclosure of faculty and commercial support relationships, if any, will be made known at the time of the activity.

13.5 CNE Contact Hours

This continuing nursing education activity was approved by the Mountain Area Health Education Center's Department of Nursing Education, an accredited approver by the American Credentialing Center's Commission on Accreditation.

Participants must attend entire activity to receive credit. No partial credit is given for this activity.

MAHEC adheres to the ANCC/ACCME Standards regarding industry support to continuing nursing education. Disclosure of presenters, planners, and commercial support relationships, if any, will be made known at the time of the activity.

CEUs: MAHEC designates this continuing education activity as meeting the criteria for **1.4 CEUs** as established by the National Task Force on the Continuing Education Unit. You must attend the entire workshop to receive CEUs. **13.5 contact hours.**

REGISTRATION

Registration fee is \$750.00, and \$250.00 for medical students and family medicine residents (proof of enrollment required at check-in). Registration fee includes administrative costs, educational materials, dinner (1st day) and light breakfast and lunch (2nd day).

MAHEC has a pay-up-front policy for all CE programs. The only exceptions will be for pre-approved programs where an individual payment plan is appropriate. Registrations received without accompanying payment will not be processed and participants who have not paid the course fee will not be admitted into the program. Cancellations received at least two weeks in advance of the program date will receive a full refund unless otherwise noted. Cancellations received between two weeks and up to 48 hours prior to the program date will receive a 70% refund unless otherwise noted. No refunds will be given for cancellations received less than 48 hours prior to the program date. All cancellations must be made in writing (fax, mail, or email), Substitutes can be accommodated in advance of the program.

DIRECTIONS TO THE BILTMORE CAMPUS

121 Hendersonville Rd., Asheville, NC, 28803

From I-40 Eastbound, take Exit 50 and turn left onto Hendersonville Road.

From I-40 Westbound, take Exit 50B and merge onto Hendersonville Road.

At the first light, turn left into the DoubleTree Hotel complex. Turn left and continue up the hill to the MAHEC Biltmore Campus.

From 19-23 (I-26) take 240 East to Exit 5B (Charlotte Street). Exit right onto Charlotte Street. At the 4th light, make a left onto Biltmore Avenue. Proceed through 8 traffic lights. At the 9th light turn right into the DoubleTree Hotel complex. Turn left and continue up the hill to the MAHEC Biltmore Campus.

MAHEC Ultrasound EM-FM POCUS CME Event

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Fax to 828-257-4768