



MAHEC Ultrasound EM-FM POCUS CME Event

JOIN US SEPTEMBER 13-14, 2019

DESCRIPTION

This robust, 1 1/2-day course incorporates live models, simulations, didactic lectures, and is ideal for general internists, family practice physicians, emergency physicians, residents, fellows, and advance practice providers. 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, MSK, DVT and Renal.

Please note: This course is not a certificate course. It is an opportunity to learn and practice point-of-care ultrasound. Certification and privileges are determined by your local regulatory bodies and credentialing systems.

AUDIENCE

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

OBJECTIVES

Upon completion of this activity, participants will 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
- Discuss advanced point-of-care ultrasound applications, including lung and pleural ultrasound, vascular access, procedural guidance, focused abdominal and pelvic ultrasound, deep venous thrombosis evaluation, 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

PLANNING COMMITTEE

Elaine Alexander, BSN, MSN, RNC-OB, MAHEC, Asheville, NC

Andrew Beeghly, DO, Mission Hospital, Asheville, NC

Benjamin Gilmer, MD, MAHEC, Asheville, NC

LOCATION

MAHEC Simulation Center
Mary C. Nesbitt Biltmore Campus
119 Hendersonville Road
Asheville, NC 28803

DAY 1 REGISTRATION PROGRAM

Friday, September 13, 2019
3:45 pm–4:00 pm
4:00 pm–7:45 pm (*dinner provided*)

DAY 2 REGISTRATION PROGRAM

Saturday, September 14, 2019
7:30 am–8:00 am (*breakfast provided*)
8:00 am–5:30 pm (*lunch provided*)

SPACE IS LIMITED—RESERVE YOUR SEAT TODAY!

PROGRAM FEE \$750.00 per person

**PHYSICIAN ASSISTANTS
& NURSE PRACTITIONERS** \$500.00 per person

**MEDICAL STUDENTS
AND RESIDENTS** \$350.00 per person

**EMS, EMTs &
PARAMEDICS** \$250.00 per person

MAHEC EMPLOYEES FREE (must register to attend)

[CLICK HERE TO REGISTER](#)

DIRECTIONS

**MAHEC Simulation Center, Mary C. Nesbitt Biltmore Campus
119 Hendersonville Road, Asheville NC 28803**

From I-40 E: Take Exit 50 and turn left onto Hendersonville Road.

From I-40 W: Take Exit 50B and merge onto Hendersonville Road.

At the first light, turn left into the DoubleTree Hotel complex. Turn left (away from the hotel). You will see a steep driveway on your right. Turn right and go up that driveway 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 (away from the hotel). You will see a steep driveway on your right. Turn right and go up that driveway to the MAHEC Mary C. Nesbitt Biltmore Campus.



DAY 1 AGENDA (FRIDAY)

- 3:45–4:00** Registration and Light Refreshments (*provided*)
- 4:00–4:15** Course Overview and POCUS Introduction
— Benjamin Gilmer, MD
- 4:15–4:45** POCUS Knobology and Basic Physics
— Benjamin Gilmer, MD
- 4:45–5:15** **Didactic:** eFAST
— Vivek Tayal, MD, FACEP and Margaret Lewis, MD
- 5:15–6:00** **Scan Lab:** eFAST
- 6:00–7:00** Working Dinner (*provided*) and **Didactic:** Pulmonary
— Margaret Lewis, MD
- 7:00–7:30** **Scan Lab:** Pulmonary Focused
- 7:30–7:45** Evening Wrap-Up, Q&A, and Adjourn

DAY 2 AGENDA (SATURDAY)

- 7:30–8:00** Registration and Light Breakfast (*provided*)
- 8:00–9:00** **Didactic:** Cardiovascular: PLAX, PSS, Apical 4 View
— Vivek Tayal, MD, FACEP and Margaret Lewis, MD
- 9:00–9:30** **Didactic:** AAA/IVC
— Benjamin Gilmer, MD
- 9:30–10:30** **Scan Lab:** Cardiovascular: PLAX, PSS, Apical 4 View
Scan Lab: AAA/IVC
- 10:30–11:00** **Didactic:** Liver/Gallbladder
— Andrew Beeghly, DO
- 11:00–11:30** **Scan Lab:** Liver/Gallbladder
- 11:30–12:15** Working Lunch (*provided*) and
Didactic: MSK Focus: Shoulder and Knee
— Jessica Knapp, DO, CAQSM and Sports Medicine Fellows
- 12:15–1:00** **Scan Lab:** MSK Focus: Shoulder and Knee
- 1:00–1:30** **Didactic:** DVT Screen
— Benjamin Gilmer, MD and William McLean, MD
- 1:30–2:00** **Scan Lab:** DVT Screen
- 2:00–3:00** **Concurrent Breakout Sessions**
- 2:00–2:30** **Didactic** Breakout Sessions
- 2:30–3:00** **Scan Lab** Breakout Sessions
- A.** Thyroid — Benjamin Gilmer, MD
- B.** Renal — Andrew Beeghly, DO
- C.** POCUS Procedures — Vivek Tayal, MD, FACEP and Margaret Lewis, MD
- 3:00–3:30** **Didactic** Breakout Sessions
- 3:30–4:00** **Scan Lab** Breakout Sessions
- D.** Thyroid — Benjamin Gilmer, MD
- E.** Renal — Andrew Beeghly, DO
- F.** POCUS Procedures — Vivek Tayal, MD, FACEP and Margaret Lewis, MD
- 4:00–4:30** **Didactic:** RUSH
— Vivek Tayal, MD, FACEP and Margaret Lewis, MD
- 4:30–5:15** POCUS Olympics Finale
— Margaret Lewis, MD
- 5:15–5:30** Wrap-Up, Q&A, Complete Attestations, and Adjourn

MEDICAL COURSE DIRECTOR

Benjamin Gilmer, MD, MAHEC, Asheville, NC

COURSE FACULTY

Andrew Beeghly, DO, is a board-certified Emergency Physician and Hyperbaric Physician with Mission Hospital in Asheville, NC. He has training and expertise in austere applications of ultrasound in the areas of trauma and tropical medicine. He was director of ultrasound at Blanchfield Army Community Hospital from 2012-2014 and officer in charge of forward deploying ultrasounds and training for the 5th Special Forces Group from 2013-2016. Dr. Beeghly has also applied ultrasound in remote areas of the world.

Benjamin Gilmer, MD, is 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 areas of interest include medical education and rural/global health. He is the Family Medicine Clerkship Director for UNC–Asheville 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.

Jessica Knapp, DO, CAQSM, is a former coach and collegiate runner who completed her family medicine training in NC then a sports medicine fellowship at the University of Connecticut. She recently joined us as the Assistant Sports Medicine Fellowship Director after teaching at Tufts Family Medicine Residency, Tufts School of Medicine and Harvard Medical School for several years. In addition to teaching, she is involved in research focused on female athletes for which she earned the AMSSM Young investigator's Research Grant Award.

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.

William McLean, MD, is a member of the MAHEC Family Medicine faculty where he practices full scope family medicine while also serving as medical director of Deerfield Retirement Community. He attended the University of North Carolina School of Medicine and residency at MAHEC. His academic interests include the use of ultrasound in older adults and in the nursing home setting.

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. His academic interests include new avenues in ultrasonography, resuscitation, health policy and computerization of Emergency Department (ED) operations.

MAHEC assumes permission to use audio, video and still images from this program for promotional and educational purposes. Please speak with a staff member if you have any concerns.

[CLICK HERE TO REGISTER](#)

REGISTRATION

The program registration fee is \$750.00; \$500.00 for Physician Assistants and Nurse Practitioners; \$350.00 for Medical Students and Residents; \$250.00 for EMS, EMTs, and Paramedics; and FREE for MAHEC Employees (must register in order to attend). These fees include administrative costs, educational materials, refreshments, a light breakfast, and lunch.

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.

Unless otherwise noted in course materials, the following cancellation policy applies to all programs:

- Cancellations must be in writing (via fax, email, or mail)
- Cancellations received more than 2 weeks prior to the event will receive 100% refund
- Cancellations received between two weeks and two full business days prior to the first day of the event are refunded at 70% of the registration fee subject to a minimum \$25 cancellation fee
- No refunds or credits will be given for cancellations received less than 2 full business days prior to the event
- No vouchers will be issued in lieu of a refund
- Transfers/substitute(s) are welcome (please notify us in advance of the program)

CREDITS

Continuing Medical Education

Accreditation: MAHEC is accredited by the NC Medical Society (NCMS) to provide continuing medical education for physicians.

Credit Designation: MAHEC designates this live activity for a maximum of **13.0 AMA PRA Category 1 Credit(s)**[™]. 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.

13.0 CNE Contact Hours

This continuing education activity was approved by MAHEC, an approved provider by the North Carolina Nurses Association (an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation). Participants must attend the entire activity to receive credit. No partial credit is given for this activity.

CEUs: MAHEC designates this continuing education activity as meeting the criteria for **1.3 CEUs** as established by the National Task Force on the Continuing Education Unit.

Contact Hours: MAHEC designates this live continuing education activity as meeting the criteria for **13.0 Contact Hours**.

HAVE A QUESTION?

Contact the Program Planner

Elaine Alexander, MSN, RNC-OB

elaine.alexander@mahec.net or 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 Road, Asheville, NC 28803



Special Services

828-257-4485

MAHEC Ultrasound

EM-FM POCUS CME Event

2019

SEPT 13-14, 2019 | *Space Limited!*

Updated contact information.

#201DSIM005/57527

NAME _____

CREDENTIALS _____

SOCIAL SECURITY # XXX-XX-____ (last 4 digits required)

OCCUPATION _____

EMAIL ADDRESS _____

HOME ADDRESS _____

CITY _____ STATE _____ ZIP _____

HOME COUNTY _____

HOME # _____ WORK # _____

EMPLOYER _____

DEPARTMENT _____

EMPLOYER'S ADDRESS _____

CITY _____ STATE _____ ZIP _____

WORK COUNTY _____

Program announcements will be sent to your email unless you opt out from receiving MAHEC emails. We never share our mailing lists.

Please remove my name from the MAHEC mailing list.

MEAL PREFERENCE Vegetarian Gluten-free Vegan

SELECT YOUR BREAKOUT SESSION FOR EACH TIME SLOT

2:00-3:00 A. Thyroid

B. Renal

C. POCUS Procedures

3:00-4:00 D. Thyroid

E. Renal

F. POCUS Procedures

PROGRAM FEE \$750.00 (*no late fee*)

PHYSICIAN ASSISTANTS \$500.00 (*no late fee*)

NURSE PRACTITIONERS \$500.00 (*no late fee*)

MEDICAL STUDENTS AND RESIDENTS \$350.00 (*no late fee*)

EMS, EMTs, AND PARAMEDICS \$250.00 (*no late fee*)

MAHEC EMPLOYEES FREE (*must register in order to attend*)

Full payment must accompany all submitted registrations unless a payment plan has been approved in advance. Registrations received without accompanying payment will not be processed.

Check is enclosed Credit card information provided

Visa MasterCard Discover Card American Express

ACCOUNT # _____

EXP ____ / ____ CODE ON BACK OF CARD _____ (3 digits)

NAME ON CARD _____

SIGNATURE _____



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