

**University of Maryland Department of Emergency Medicine: Emergency Cardiology Symposium**  
**“Cardiology Challenges”**  
Wednesday, April 3, 2024

**Description**

Emergency cardiac conditions are very common in the emergency department (ED), and they also represent high-risk conditions. Cardiac conditions constitute the greatest cause of death in developed countries, and they also account for a significant percentage of money paid out in medical malpractice cases against emergency physicians in the United States. For these reasons, emergency physicians and any other acute care providers *must* commit themselves to staying up-to-date on advances in optimal care of patients presenting with emergency cardiac conditions.

This year I am pleased to present our 9<sup>th</sup> Annual Emergency Cardiology Symposium, which will focus on a potpourri of challenging cardiac presentations to the emergency department. Our speakers all have special training and expertise in emergency cardiology and they will focus their efforts on bringing you the most cutting-edge information on an assortment of topics. I am confident that you will enjoy our sessions and learn the latest best practices to provide optimal care to your patients.

Amal Mattu, MD, FAAEM, FACEP  
Professor and Vice Chair of Academic Affairs  
Co-Director, Emergency Cardiology Fellowship  
Department of Emergency Medicine  
University of Maryland School of Medicine  
Baltimore, Maryland

**Objectives**

At the conclusion of this symposium, each participant should be able to:

1. List some can't-miss ECHO findings in the peri-arrest patient.
2. List ECG findings in the patient with syncope that predict worse outcomes.
3. Describe a rational approach to managing atrial fibrillation in patients with critical illness.
4. Describe a protocol in which a single troponin can be used in ruling out myocardial infarction.

**Symposium Agenda**

**7:45 am**      **Welcome & Introductions**  
Amal Mattu, MD

**8:00 am**      Soundwaves of Survival: Echocardiography's Role in Peri-Arrest Cases  
Leen Alblaihed, MBBS, MPH

*Learning objectives:*

1. The participant will be able to recognize the ultrasound findings suggestive of pericardial tamponade.
2. Identify the presence of a pulse utilizing bedside ultrasound.
3. Utilize bedside ultrasound to look for findings suggesting pulmonary embolism as a cause of cardiac arrest.

University of Maryland Department of Emergency Medicine: Emergency Cardiology Symposium  
“Cardiology Challenges”  
Wednesday, April 3, 2024

**8:35 am**      **R.A.D. Rescues in the ED: Saving Lives by Finding New Right Axis Deviation!**  
Ali Farzad, MD

*Learning objectives:*

1. To equip participants with advanced skills in emergency ECG interpretation, emphasizing the ability to accurately identify right axis deviation and understand critical differential diagnoses and their clinical implications.
2. To enable attendees to adopt an approach in evaluating right axis deviation, correlating these findings with patient history and physical examination to refine diagnostic acumen in effort to save and improve more lives.
3. To enhance the practitioner's capacity to correlate specific ECG patterns, with relevant clinical syndromes, thereby improving the anticipation of emergent care needs and the formulation of appropriate treatment strategies.
4. To inspire participants to continue learning about ECGs and use their expertise to help make a difference.

**9:10 am**      **Landscapes of Syncope**  
Susy DeMeester, MD

*Learning objectives:*

1. Review basics of syncope.
2. Highlight can't miss ECG findings.
3. Emphasize why a thoughtful syncope evaluation in the ED is critical.
4. Encourage audience to experience ECGs of syncope with an artistic alternative mindset.

**9:40 am**      **Break**

**10:00 am**      **Sick AF: Atrial Fibrillation in Critical Illness**  
Semhar Tewelde, MD

*Learning objectives:*

1. Consider AF w/RVR a sinus tach equivalent during critical illness; avoid heart rate control until treating any inciting triggers.
2. Very fast HRs can impair diastolic filling time ultimately dropping SV & BP.
3. Use of a rate vs. rhythm control strategy depends on patient specifics.
4. 1<sup>st</sup> DCCV attempt in critically ill patient w/structural heart dz often fails.
5. Magnesium + antiarrhythmic prior to the 2<sup>nd</sup> DCCV improves success.

**10:35 am**      **Third Time's NOT the Charm?! Management of Electrical Storm**  
Rohit Menon, MD

*Learning objectives:*

1. Define Electrical Storm.
2. Overview Etiologies of Ventricular Tachydysrhythmias.
3. Review the Medical Management of Electrical Storm.

University of Maryland Department of Emergency Medicine: Emergency Cardiology Symposium  
**“Cardiology Challenges”**  
Wednesday, April 3, 2024

**11:10 am**      **Let’s Get You Home! ADPs & Troponins in the ED**  
Maite Huis in ‘t Veld, MD

*Learning objectives:*

1. At the end of this lecture, you will be familiar with which accelerated diagnostic pathway is best for your chest pain patient.
2. You will learn the latest on the use of high sensitivity troponins, and how to use them.
3. You will be aware of the most recent developments pertaining to single and prehospital troponins.

**11:45 am**      **Panel Discussion**  
All Speakers

**University of Maryland Department of Emergency Medicine: Emergency Cardiology Symposium**  
**“Cardiology Challenges”**  
Wednesday, April 3, 2024

**Faculty/Speakers**

**Amal Mattu, MD**

Professor, University of Maryland School of Medicine Department of Emergency Medicine  
Vice Chair of Academic Affairs, University of Maryland Department of Emergency Medicine  
*Conference Director*

**Michael Bond, MD**

Professor, University of Maryland School of Medicine Department of Emergency Medicine  
Associate Designated Institutional Official, University of Maryland Medical Center  
Director of Multimedia & Virtual Education, University of Maryland Department of Emergency Medicine  
*Conference & Faculty Support*

**Doreen Lucadamo, CMP, DES, HMCC**

Senior Program Coordinator, Courses/Conferences  
University of Maryland School of Medicine Department of Emergency Medicine  
*Administrative Support*

**Leen Alblaihed, MBBS, MHA**

Assistant Professor, University of Maryland School of Medicine Department of Emergency Medicine

**Susy DeMeester, MD**

Attending Physician, Emergency Department  
St. Charles Medical Center, Bend, Oregon

**Ali Farzad, MD**

Clinical Associate Professor, Texas A&M Health Science Center  
Medical Director of Quality & Emergency Cardiovascular Medicine  
Core Faculty, BUMC EM Residency Program  
Baylor University Medical Center, Dallas, Texas

**Maite Huis in 't Veld, MD**

Senior Policy Advisor on Acute Care, The Netherlands Zorginstituut (National Health Care Instate The Netherlands)  
Board Member, Dutch Emergency Physician Association

**Rohit Menon, MD**

Clinical Instructor, University of Maryland School of Medicine Department of Emergency Medicine  
Emergency Cardiology Fellow, University of Maryland Department of Emergency Medicine

**Semhar Tewelde, MD**

Associate Professor, University of Maryland School of Medicine Department of Emergency Medicine  
Assistant Residency Program Director, University of Maryland Department of Emergency Medicine  
Program Director, EM/CVS Fellowship, University of Maryland Department of Emergency Medicine

**University of Maryland Department of Emergency Medicine: Emergency Cardiology Symposium**  
**“Cardiology Challenges”**  
Wednesday, April 3, 2024

**CME Statement**

“This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Center for Emergency Medical Education and University of Maryland Department of Emergency Medicine.”

“The Center for Emergency Medical Education (CEME) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.”

The Center for Emergency Medical Education (CEME) designates this live activity for a maximum of 3.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.”

**NPs, RNs, LPNs, and PAs:** You may claim a certificate of participation. ANCC and AAPA accept medical *AMA PRA Category 1 Credits*<sup>™</sup> for nursing and physician assistant re-licensure.

**CME Disclosure**

The Center for Emergency Medical Education adheres to ACCME Essential Areas, Standards, and Policies regarding industry support of continuing medical education. It is the policy of Center for Emergency Medical Education (CEME) to insure balance, independence, objectivity, and scientific rigor in all its sponsored educational activities, and that all contributors present information in an objective, unbiased manner without endorsement or criticism of specific products or services and that the relationships that contributors disclose will not influence their contributions. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations.

**Resolution of Conflicts of Interest**

In accordance with the ACCME Standards for Commercial Support of CME, the Center for Emergency Medical Education implemented mechanisms, prior to the planning and implementation of this CME activity, to identify and resolve conflicts of interest for all individuals in a position to control content of this CME activity. All individuals in a position to control the content of a CME activity (planning committee members, speakers, authors, etc.) are required to complete CEME’s CME disclosure and attestation form in which they disclose their financial relationships as well as attest that any and all clinical recommendations made for patient care will be based on the best available evidence, that a balanced view of therapeutic options will be given, and that the content will be developed in accordance with the ACCME Content Validation Statement.

All faculty, planners, and staff in a position to control the content of this CME activity have indicated that he/she has no relevant financial interest or relationship(s) with any commercial interest, as defined by ACCME, which, in the context of this conference activity, could be perceived as a potential conflict of interest.

- Amal Mattu, MD
- Michael Bond, MD
- Doreen Lucadamo
- Leen Alblaihed, MBBS, MHA
- Susy DeMeester, MD
- Ali Farzad, MD
- Maite Huis in 't Veld, MD
- Rohit Menon, MD
- Semhar Tewelde, MD