

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 9th 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 Livestream goes LIVE from Baltimore, Maryland USA

Welcome & Introductions

Amal Mattu, MD

8:00 am Soundwaves of Survival: ECHO in the Peri-Arrest Patient

Leen Alblaihed, MBBS, MHA

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.

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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.

9:45 am **15-Minute 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. 1st DCCV attempt in critically ill patient w/structural heart dz often fails.
5. Magnesium + antiarrhythmic prior to the 2nd 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.

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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

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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

Gabriella Miller, MD

Clinical Instructor, University of Maryland School of Medicine Department of Emergency Medicine
Faculty Development Fellow, University of Maryland Department of Emergency Medicine
Chief Resident, University of Maryland Department of Emergency Medicine
Moderator

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

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CME Statement

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

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

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- 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
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