



10<sup>th</sup> Annual University of Maryland Department of Emergency Medicine  
**Emergency Cardiology Symposium**  
*Keeping Your Finger on the Pulse*

**Emergency Cardiology Symposium**

**Keeping Your Finger on the Pulse**

Wednesday, March 26, 2025

Virtual Event ♦ ECS.UMEM.ORG

Presented by the University of Maryland School of Medicine Department of Emergency Medicine

CME provided by The Center for Emergency Medicine Education (CEME)

**Description**

Our symposium is designed to enhance the understanding of emergent cardiac conditions, including, acute coronary syndrome, decompensated heart failure, tamponade, valvular disease, peri-myocardial disease, dysrhythmias, device dysfunction, mechanical circulatory support, and sudden cardiac death through varied teaching styles, ensuring participants leave with actionable knowledge and practical skills.

The 10<sup>th</sup> Annual Emergency Cardiology Symposium, *Keeping Your Finger on The Pulse*, will focus on the complexities and challenges of acute cardiac presentations for the emergency medicine provider. We will deliver best practices, comprised of recent, relevant and high-quality evidence. Time has been built into the program for attendees to ask questions and receive guidance from our speakers, all experts in the field of emergency cardiology. We look forward to having you join in this valuable opportunity for learning and growth together!

**Semhar Tewelde, MD**

Associate Professor

Director, EM/CVD 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. Appreciate the concepts of unloading, support, and advanced therapies in heart failure and cardiogenic shock.
2. Recognize the varied mechanisms for cardiac device dysfunction.
3. Evaluate and manage critical valvular insufficiency and stenosis.
4. Distinguish characteristics of deadly dysrhythmias.
5. Identify high risk features in acute coronary syndrome to optimize management through risk assessment.

## Program Agenda

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- 7:55 am**                      **Welcome**  
*Semhar Tewelde, MD*
- 8:00 am**                      **Cardiogenic Shock: Fatal Errors and Assumptions to Avoid**  
*Rohit Menon, MD*  
Learning objectives:  
1. Utilize the physical exam to differentiate between right heart failure and left heart failure.  
2. Perform point of care echocardiography to assess for etiologies of cardiogenic shock.  
3. Review indications for emergent consultation and escalation to mechanical cardiac support.
- 8:45 am**                      **In Pace of Emergency: When Pacers Go Haywire in the ED**  
*Leen Alblaihed, MBBS, MHA*  
Learning objectives:  
1. Learners will be able to differentiate between problems with pacing and sensing by looking at ECG.  
2. Learners will be able to determine when to use a magnet in the setting of pacemaker emergencies.  
3. Learners will be able to distinguish the difference between overseeing and failure to pace on a paced bradycardic ECG.
- 9:30 am**                      **From Heart Failure to Success: Critical Considerations in Management of Acute Cardiogenic Pulmonary Edema**  
*Semhar Tewelde, MD*  
Learning objectives.  
1. Recognize acute severe valvular heart disease as cause of cardiogenic pulmonary edema.  
2. Utilize doppler echocardiography to determine if severe structural lesion is present.  
3. Appreciate the limitation of medical treatment alone in acute valvular disease and need for early multidisciplinary consultation.
- 10:15 am**                      **Break (10 Minutes)**
- 10:25 am**                      **Get Your ACS Together: Sneaky STEMI Equivalent**  
*Eileen Chu, MD, MS*  
Learning objectives:  
1. Understand common causes of malpractice related to chest pain.  
2. Apply best practices to mitigate risk in the evaluation and management of chest pain.  
3. Learn and recognize features of STEMI equivalent patterns.

**11:10 am**

**Unrecognized Killers in Emergency Electrocardiography**

*Amal Mattu, MD*

Learning objectives:

1. Identify mimics of ventricular tachycardia and understand why misdiagnosis can result in deadly outcomes.
2. Discuss subtle electrocardiographic findings associated with electrolyte abnormalities that predispose to malignant dysrhythmias.
3. Describe a simple but commonly ignored finding on ECG that predicts significant pericardial effusion.

**11:55 am**

**Questions & Answer Session**

*All Speakers*

## **Conference Speakers & Faculty Support**

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### **Semhar Tewelde, MD**

Associate Professor, University of Maryland School of Medicine Department of Emergency Medicine  
Program Director, EM/CVD Fellowship, University of Maryland Department of Emergency Medicine  
*Symposium Director & Speaker*

### **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  
*Symposium Technical Manager*

### **Jennifer Wang, MD**

Clinical Instructor, University of Maryland School of Medicine Department of Emergency Medicine  
Faculty Development Fellow, 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  
*Symposium Administrator*

### **Carmen Wilkins**

Administrative Assistant III, University of Maryland School of Medicine Department of Emergency Medicine  
*Symposium Administrative Support*

### **Leen Alblaihed, MBBS, MHA**

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

### **Eileen Chu, MD, MS**

Clinical Instructor, University of Maryland School of Medicine Department of Emergency Medicine  
Risk Management Fellow, University of Maryland Department of Emergency Medicine  
Chief Resident, University of Maryland Department of Emergency Medicine

### **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  
Co-Director, EM/CVD Fellowship, University of Maryland Department of Emergency Medicine

### **Rohit Menon, MD**

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

## **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™*. 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™* for nursing and physician assistant re-licensure.

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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 an ineligible company, as defined by ACCME, which, in the context of this conference activity, could be perceived as a potential conflict of interest.

- Leen Alblaihed, MBBS, MHA
- Michael Bond, MD
- Eileen Chu, MD, MS
- Doreen Lucadamo
- Amal Mattu, MD
- Rohit Menon, MD
- Semhar Tewelde, MD
- Jennifer Wang, MD
- Carmen Wilkins