

12TH UNIVERSITY OF MARYLAND EMERGENCY MEDICINE CRITICAL CARE SYMPOSIUM

Critical Care Symposium

Wednesday, May 21, 2025

8:00 am – 12:00 pm ET

Virtual Event ♦ [CCS.UMEM.ORG](https://ccs.umem.org)

Presented by the University of Maryland School of Medicine Department of Emergency Medicine
CME provided by The Center for Emergency Medicine Medical Education (CEME)

Description

The number of critically ill patients that present to emergency departments across the world continues to increase. The emergency physician (EP) is often the first physician to evaluate and resuscitate a critically ill patient. In addition to seeing more critically ill patients, EPs are frequently tasked with providing critical care long beyond the initial resuscitation. Given the continued increase in quantity of critically ill patients along with the persistence of boarding critically ill patients in the ED, it is imperative for the EP to be knowledgeable about recent trends in resuscitation and critical care medicine, so that critically ill patients continue to receive current evidence-based care. In this Critical Care Symposium, the speakers will discuss current topics in critical care and resuscitation that are applicable to the care of critically ill emergency department patients.

Mike Winters, MD, MBA

Symposium Director

Professor & Vice Chair – Clinical and Administrative Affairs

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. Discuss the difference between type 1 and type 2 thinking when resuscitating critically ill patients.
2. Discuss the pitfalls in capnography in select critical conditions.
3. Discuss recent literature comparing the effectiveness of HFNC with NIV in critically ill patients.

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Symposium Agenda

8:00 am **Welcome & Introduction**

Mike Winters, MD, MBA

8:05 am **Mastering Metacognition in the Resus Room!**

Samantha Wood, MD

Learning objectives:

1. Differentiate “system 1” from “system 2” thinking and illustrate how the dual process theory of cognition applies in the care of a critical patient.
2. Strategize ways to “train your intuition” to maximize the effectiveness and accuracy of the system 1 thought process.
3. Integrate tools to avoid cognitive error, such as the “cognitive pause,” into the task of “running the room.”

8:40 am **What You NEED to Know About High-Flow**

Michael Allison, MD

Learning objectives:

1. Learners will understand the physiological changes that occur with the provision of High Flow Nasal Oxygen.
2. Attendees will subsequently know to use High Flow Nasal Oxygen for any patients with hypoxemic respiratory failure.
3. Attendees will monitor patients on HFNC using evidence-based criteria.
4. Attendees will learn when it is safe to use High Flow Nasal Oxygen in patients with COPD or cardiogenic pulmonary edema.

9:15 am **Break**

9:25 am **Pearls & Pitfalls for the Sick Cirrhotic**

Daniel Boutsikaris, MD

Learning objectives:

1. Diagnostic considerations when evaluating a cirrhotic patient.
2. Review of cirrhotic physiology.
3. Management considerations of the critically ill cirrhotic patient.

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- 10:00 am** **Catastrophic Cases from the Critical Care Resuscitation Unit**
Jessica Downing, MD
Learning objectives:
1. Describe the use of REBOA for life-threatening, non-compressible hemorrhage outside the trauma bay, and the process of mobilizing post-REBOA care for definitive management.
 2. Discuss precipitators of cardiopulmonary collapse in the postpartum patient and the role of mechanical circulator support.
 3. Reinforce the importance of clear communication and reporting when coordinating emergent and critical care across specialties.
- 10:35 am** **Break**
- 10:45 am** **Don't Waste Your Breath: Capnography in Critical Ill Patients**
Nicholas Santavicca, MD
Learning objectives:
1. Understand the physiology of capnography.
 2. Review different roles for capnography in the critical ED patient.
 3. Review abnormal capnography waveforms.
- 11:20 am** **Cardiogenic Shock in 2025: Cutting Edge Techniques to Nail the Diagnosis!**
John Greenwood, MD, MS
Learning objectives:
1. Review how to perform a non-invasive hemodynamic profile in patients with cardiogenic shock.
 2. Discuss the SCAI cardiogenic shock criteria and its application to patients with cardiogenic shock in the ED.
 3. Examine the role of peripheral perfusion in ED Cardiogenic Shock management.
- 11:55 am** **Closing Remarks**
Mike Winters, MD, MBA

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Conference Speakers & Faculty Support

Mike Winters, MD, MBA

Professor, University of Maryland School of Medicine Department of Emergency Medicine
Vice Chair – Clinical and Administrative Affairs, University of Maryland Department of Emergency Medicine
Symposium 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
Symposium Technical Manager

Kami Hu Windsor, MD

Assistant Professor, University of Maryland School of Medicine Department of Emergency Medicine
Program Director, Combined EM/IM and EM/IM/CC, University of Maryland Medical Center
Symposium Program Support

Mark Sutherland, MD

Assistant Professor, University of Maryland School of Medicine Department of Emergency Medicine
Associate Program Director, Combined EM/IM and EM/IM/CC Residency, University of Maryland Medical Center
Division of Critical Care Medical Director Patient Placement Division, University of Maryland Access Center
Physician Informaticist, UMMS Center for Technology Innovation
Symposium Program Support

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

Michael Allison, MD

Chief of Critical Care Medicine, University of Maryland Saint Joseph Medical Center
Co-Medical Director, Saint Joseph Medical Group
Symposium Speaker

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Daniel Boutsikaris, MD

Assistant Professor of Medicine, Rutgers Robert Wood Johnson School of Medicine, Department of
Emergency Medicine, Division of Pulmonary and Critical Care
Medical Director, Robert Wood Johnson's University Hospital MICU
Symposium Speaker

Jessica Downing, MD

Assistant Professor, Department of Emergency Medicine & Program in Trauma and Critical Care, R. Adams
Crowley Shock Trauma Center
University of Maryland School of Medicine
Symposium Speaker

John Greenwood, MD, MS

Assistant Professor of Emergency Medicine, Perelman School of Medicine at the University of Pennsylvania
Assistant Professor of Anesthesiology and Critical Care, Perelman School of Medicine at the University of
Pennsylvania
Director of the Penn Center for Resuscitation Science
Symposium Speaker

Nicholas Santavicca, MD

Assistant Professor, Department of Emergency Medicine
White Plains Hospital
Symposium Speaker

Samantha Wood, MD

Associate Professor, Tufts University School of Medicine
Attending Physician, MaineHealth Main Medical Center Portland
Symposium Speaker

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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- Mike Winters, MD, MBA
- Kami Hu Windsor, MD
- Mark Sutherland, MD
- Michael Bond, MD
- Doreen Lucadamo
- Carmen Wilkins
- Michael Allison, MD
- Daniel Boutsikaris, MD
- Jessica Downing, MD
- Nicholas Santavicca, MD
- Samantha Wood, MD

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Updated 5/20/2025 at 4:10pm