



HARVARD
MEDICAL SCHOOL

Beth Israel Deaconess
Medical Center

THIS SPECIAL
PROGRAM PROVIDES
EDUCATION FOR
PHYSICIANS, NPs,
NURSES, PAs AND APNs

ELEVENTH ANNUAL

Principles of Critical Care Medicine for Non-Intensive Care Specialists



MASTER THE SKILLS YOU NEED TO PRACTICE MODERN CRITICAL CARE

September 20-22, 2023 • LIVE-STREAM

- Principles of mechanical ventilation and ventilator troubleshooting
- ECMO
- Tangible strategies for managing sedation to minimize the risk of delirium
- Best practices in use of non-invasive ventilation and high-flow nasal cannula
- Management of submassive and massive PE
- Anticoagulant reversal
- Management of ID and oncologic emergencies
- Approaches to common toxicology cases
- Evidenced-based treatment of sepsis
- Current best practices for the care of the post-arrest patient
- Physiology of shock and best practices for vasopressor use
- Best practices for providing comfort-focused care in your ICU

See inside for complete agenda

OPTIMIZED FOR
REMOTE LEARNING

- Interactive sessions
- Instructive clinical cases with audience-response questions, all taught by renowned experts
- Recordings of all live-streamed sessions are made available for immediate viewing online



ADVANCED PROCEDURAL
TRAINING: INTERACTIVE
SESSIONS WITH LIVE
PATIENT DEMONSTRATIONS

- How to Troubleshoot the Ventilator at the Bedside
- Essential Skills for Thoracic Ultrasound and Electrocardiography

Earn up to 25.00 AMA PRA
Category 1 Credits™

25.00 MOC Points

7.75 Risk Management Credits

Course Overview

Keeping pace with the rapid changes in evidence-based critical care medicine is difficult for specialty-trained intensivists; for non-intensivists, the challenge of staying up to date can be overwhelming.

This cutting-edge CME course is intended to provide core clinical critical-care skills to health care providers who are not trained as intensivists but whose clinical duties involve taking care of critically ill patients. The focus of this course will be to highlight recent important evidence-based advances in the practice of modern critical care medicine and leave the audience with tangible strategies to immediately improve their practices. Hot-off-the-press emerging topics will also be addressed, arming you with the latest information.



Engaging Sessions with Prominent Experts and Colleagues

Our outstanding faculty, recognized as experts in the field, will use diverse teaching methodologies including: didactic sessions, interactive case-based discussions, Q&A sessions, panel discussions and procedural demonstrations. These sessions will test your clinical reasoning and leave you with strategies for incorporating, synthesizing and applying core critical knowledge to your intensive care practice. Our faculty come from various training backgrounds and include physicians, nurses, respiratory therapists, pharmacists, and speech and language pathologists to ensure the most up-to-date and practical content is delivered.

Master the skills you need to practice modern critical care medicine

The following intensive care problems, techniques and updates will be addressed in this comprehensive course:

- Mechanical ventilation and patient-ventilator interactions
- Non-invasive ventilation and high-flow nasal cannula
- Arrhythmias
- Nutrition in the ICU
- Point-of-care ultrasound utilization in the ICU
- Advancements in post-resuscitation care
- End-of-life care in the ICU
- Shock and vasopressors
- Sedation and delirium
- Sleep in the ICU
- Pulmonary embolism
- Palliative care in the ICU
- Post-intensive care syndrome
- Refractory hypoxemia and ARDS
- ECMO
- Neurocritical care
- Ventilator troubleshooting
- Infectious emergencies and updates in antimicrobial selection
- Toxidromes
- Oncologic emergencies
- Humanizing the ICU
- Time-limited trials in the ICU
- Severe acid-base and electrolyte disturbances

COURSE DIRECTORS



Margaret "Molly" Hayes, MD, ATSF
DIRECTOR

Assistant Professor of Medicine
Harvard Medical School
Director, Medical Intensive Care Unit
Director, External Education
Carl J. Shapiro Institute for Education
and Research
Division of Pulmonary, Critical Care and
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Beth Israel Deaconess Medical Center



Morgan I. Soffler, MD
DIRECTOR

Assistant Professor of Medicine
Associate Program Director
Pulmonary and Critical Care Medicine
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New York Medical College
Division of Pulmonary, Critical Care,
and Sleep Medicine
Westchester Medical Center



**I. Mary Eche, PharmD, BCCCP,
FCCM**
CO-DIRECTOR

Clinical Pharmacy Manager –
Critical Care/ED
Program Director, Critical Care
Pharmacy Residency
Department of Pharmacy
Beth Israel Deaconess Medical Center

FACULTY

The excellent quality of this course can be attributed to our outstanding faculty assembled from Harvard Medical School and distinguished institutions.

- Teaching practical, effective clinical reasoning and approaches that enable you to practice state-of-the-art care
- Utilizing diverse teaching methodologies to keep you engaged and involved
- Featuring highly skilled and multidisciplinary teachers who are committed to delivering the highest-quality educational experience
- Ensuring ample opportunities to ask questions of and interact with our faculty, who are continuously responding to your pressing questions via online chat

George T. Abdallah, PharmD, BCCCP, BCCP

Asha Anandaiah, MD

Elias N. Baedorf Kassis, MD

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Camille R. Petri, MD

Leonid Rabkin, RRT

Elisabeth D. Riviello, MD, MPH

Mehrnaz Sadrolashrafi, PharmD, BCCCP

Renny Sanchez, RRT

Frank M. Schembri, MD

Richard M. Schwartzstein, MD

Michael Scott, PharmD, BCPS

Andrew J. Synn, MD

Allison Trainor, MD

Jeffrey H. William, MD

Adrian Wong, PharmD, MPH, FCCM, BCCCP

Lauren M. Yang, MD

Jason Yoon, MD

Wenyi Zhu, PharmD, BCPS, BCCCP



Registration Information

Principles of Critical Care Medicine for Non-Intensive Care Specialists	Register on or before August 4 (save \$100)	Register after August 4
Live-Stream	\$850	\$950

Fees are shown in USD. Your tuition includes a complete online syllabus. All sessions will be recorded as they are live-streamed and made available for immediate viewing, at your convenience, through February 1, 2024.

General Information

Registration, Payment, Confirmation and Refund Policy

To register, please visit the course website at [CriticalMedBoston.com](https://www.criticalmedboston.com). At the end of the registration process, a \$10 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check, credit card (Visa, MasterCard or American Express) or wire transfer in USD. If you are paying by check (draft on a United States bank) or by wire transfer, the online registration system will provide you with instructions for remitting your course fees. Postal, telephone, fax and cash-payment registrations are not accepted.

Upon receipt of your paid registration, an email confirmation will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation and certificate. Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks before the start of the course. Refund requests must be received by email. No refund will be issued should cancellation occur less than two weeks before. "No shows" are subject to the full course fee and no refunds will be issued once the course has started.

Questions? By phone: 617-384-8600 Monday-Friday, 9:00am to 4:00pm. By email: CEPrograms@hms.harvard.edu.

Accreditation

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The Harvard Medical School designates this live activity for a maximum of 25.00 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ABIM Maintenance of Certification

Successful completion of this CME activity enables the participant to earn up to 25.00 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the number of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to the ACCME for the purpose of granting ABIM MOC points.

Nurse Practitioners and Registered Nurses

For the purpose of recertification, the American Academy of Nurse Practitioners Certification Board and American Nurses Credentialing Center accept *AMA PRA Category 1 Credit*[™] issued by organizations accredited by the ACCME. Please check with your individual state licensing board to ensure it accepts reciprocity with *AMA PRA Category 1 Credit*[™] for relicensure.

Physician Assistants

The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits*[™] are acceptable for continuing medical education requirements for recertification. Please check with your individual state licensing board to ensure it accepts reciprocity with *AMA PRA Category 1 Credit*[™] for relicensure.

Risk Management

This activity meets the criteria of the Massachusetts Board of Registration in Medicine for 7.75 credits of Risk Management Study. This includes 1.00 credits of Opioid Education and Pain Management Training and .75 credits of End-of-Life Care Studies. Please check with your individual state licensing board before claiming Risk Management Credits.

Canadian and European Accreditation

Please visit [CriticalMedBoston.com/Accreditation](https://www.criticalmedboston.com/Accreditation) for details.

Disclosure

CME activities accredited by Harvard Medical School are offered solely for educational purposes and do not constitute any form of certification of competency. Practitioners should always consult additional sources of information and exercise their best professional judgment before making clinical decisions of any kind.

REGISTER NOW: [CriticalMedBoston.com](https://www.criticalmedboston.com)

Agenda

Day 1: Wednesday, September 20

8:00am – 8:10am

Welcome from the Course Directors

8:10am – 8:50am

A Case-Based Approach to Shock and Vasopressors

8:50am – 9:05am

Burning Clinical Question: How Do I Get My Patient Off Pressors?*

9:05am – 9:10am

Break and Stretch

9:10am – 9:40am

We Got ROSC! Now What...? Care of the Post-Arrest Patient in 2023

9:40am – 10:25am

Diagnosis and Management of Common Arrhythmias in the ICU

10:25am – 10:45am

*Break and Guided Meditation **

10:45am – 11:20am

Updates in the Management of Massive and Submassive PE

11:20am – 11:55am

Heart Failure in the ICU: Tips and Tricks for Diagnosis and Management

11:55am – 12:50pm

Lunch Break

ADVANCED PROCEDURAL TRAINING SESSION

12:50pm – 1:35pm

Vents 101: A Review for Beginners

1:35pm – 2:00pm

Sepsis in 2023: Has Anything Really Changed?*

2:00pm – 2:30pm

After the ICU: Updates in Critical Illness Survivorship

2:30pm – 2:50pm

*Break and Rejuvenation Exercises **

2:50pm – 3:00pm

Quick Hit: The Anatomy of a Tracheostomy

3:00pm – 3:40pm

Infectious Disease Emergencies You Cannot Miss*

3:40pm – 3:50pm

Burning Clinical Question: When Do I Need to Cover Anaerobes?*

3:50pm – 3:55pm

Break and Stretch

3:55pm – 4:35pm

What the Intensivist Must Know About Hem-Onco Critical Care

4:35pm – 4:45pm

Burning Clinical Question: Does My Patient Need a Head CT?*

4:45pm – 5:10pm

Quick Hit: GI Bleeding in the ICU*

5:10pm – 5:50pm

It's 2am and Your Pager Goes Off...Challenging Cases in Critical Care

Day 2: Thursday, September 21

8:00am – 8:50am

Beyond Sedation: Multimodal Management of Pain, Agitation and Delirium

8:50am – 9:00am

Burning Clinical Question: How Do I Manage Febrile Neutropenia?*

9:00am – 9:05am

Break and Stretch

9:05am – 9:55am

Diagnosis and Management of Respiratory Failure*

9:55am – 10:25am

Critical Thinking in Critical Care: Thinking Strategies to Minimize Cognitive Errors in the ICU*

10:25am – 10:45am

*Break and Guided Meditation **

10:45am – 10:55am

Burning Clinical Question: What Is a Time-Limited Trial?*

10:55am – 11:25am

Updates on the Use of Non-Invasive Ventilation in the ICU

11:25am – 11:30am

Break and Stretch

11:30am – 11:45am

Quick Hit: Deciphering Oxygen Delivery Devices

11:45am – 12:00pm

Quick Hit: Best Practices for Ventilator Liberation

12:00pm – 12:55pm

Lunch Break

ADVANCED PROCEDURAL TRAINING SESSION

12:55pm – 1:40pm

Vents 102: Troubleshooting the Ventilator – Moving Your Knowledge from Plateau to Peak

1:40pm – 1:50pm

Burning Clinical Question: How Do I Manage the Chest Tube?*

1:50pm – 2:20pm

Practical Tips for Incorporating Palliative Care into the ICU*

2:20pm – 2:25pm

Break and Stretch

2:25pm – 2:35pm

Burning Clinical Question: Steroids for COVID? Steroids for Flu? What Should I Do?*

2:35pm – 2:50pm

Quick Hit: Tips for Anticoagulant Reversal

2:50pm – 3:00pm

Burning Clinical Question: Help, the Trach Fell Out! Can I Just Put It Back In?*

3:00pm – 3:20pm

*Break and Rejuvenation Exercises **

3:20pm – 3:55pm

Neurocritical Care for the General Intensivist

3:55pm – 4:05pm

Burning Clinical Question: Does My Patient Need Stress Ulcer Prophylaxis?*

4:05pm – 4:10pm

Break and Stretch

4:10pm – 4:50pm

Troponin Elevation in the ICU: When to Worry*

4:50pm – 5:05pm

Quick Hit: Antipsychotics – Hot or Not?

5:05pm – 5:50pm

Doubling Down on the D Word to Improve Communication Skills in Your ICU*

Day 3: Friday, September 22

8:00am – 8:45am

Toxicology in 2023 Cases: What the Intensivist MUST Know*

8:45am – 9:05am

Quick Hit: Post-Extubation Support for Difficult-to-Wean Patients

9:05am – 9:10am

Break and Stretch

9:10am – 9:20am

Burning Clinical Question: Does My Patient Need DVT Prophylaxis?

9:20am – 9:50am

Practical Tips for Assessing Volume Responsiveness at the Bedside

9:50am – 10:00am

Burning Clinical Question: How Can I Communicate with My Intubated Patient?

10:00am – 10:20am

Break and Guided Meditation *

10:20am – 10:40am

Quick Hit: Managing Opioid Withdrawal in the ICU

10:40am – 11:20am

Altered Mental Status in the ICU: A Case-Based Approach

11:20am – 11:25am

Break and Stretch

11:25am – 12:05pm

ECMO 101: The Basics of VV and VA ECMO

12:05pm – 1:00pm

Lunch Break

1:00pm – 1:10pm

Burning Clinical Question: How Can I Improve Sleep in the ICU?

1:10pm – 1:20pm

Burning Clinical Question: Does My Patient Need Bronchodilators?

1:20pm – 1:50pm

What Every Intensivist Must Know – Part 1: Acid-Base Disorders in the ICU

1:50pm – 2:20pm

What Every Intensivist Must Know - Part 2: Electrolyte Abnormalities

2:20pm – 2:40pm

Break and Rejuvenation Exercises *

ADVANCED PROCEDURAL TRAINING SESSION

2:40pm – 3:40pm

Point-of-Care Ultrasound: A Live Patient Demonstration of What the Intensivist Must Know

3:40pm – 3:55pm

Q&A

3:55pm – 4:00pm

Break and Stretch

4:00pm – 4:10pm

Quick Hit: Can't-Miss Diagnosis – TTP

4:10pm – 4:20pm

Burning Clinical Question: When Should I Start TPN?

4:20pm – 4:45pm

Quick Hit: Managing Alcohol Withdrawal in the ICU

4:45pm – 4:50pm

Break and Stretch

4:50pm – 5:00pm

Burning Clinical Question: When Do I Need to Stop Propofol for High Triglycerides?

5:00pm – 5:40pm

Humanizing the ICU: Strategies to Improve Care of Patients and Providers

Learning Objectives

1. Review the basic principles of mechanical ventilation and describe indications for noninvasive and invasive ventilation
2. Describe evidenced-based approaches to diagnosis and management of common infections in the ICU
3. Categorize different types of shock, describe the pathophysiologic mechanism behind each and formulate appropriate treatment strategies
4. Identify the evidence-based management of hypoxic failure, including the use of high-flow nasal cannula, lung-protective ventilation, PEEP optimization, proning and ECMO
5. Describe the importance of POCUS in the diagnosis of shock and volume status
6. Recognize post-intensive care syndrome and describe best practices for management
7. Identify contemporary approaches to sedation in the ICU
8. Recognize and manage common toxicology emergencies
9. Assess cardiac emergencies such as heart failure and unstable arrhythmias
10. Describe treatment options for massive and submassive pulmonary emboli
11. Diagnose and treat commonly encountered electrolyte abnormalities
12. Describe best practices for end-of-life care in the ICU

*Qualifies for Risk Management Credits

* Optimal Wellness Activity

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ADVANCED PROCEDURAL TRAINING SESSIONS

Vents 101: A Review for Beginners

Vents 102: Troubleshooting the Ventilator

Our expert faculty will build upon the principles of mechanical ventilation “at the bedside.” Basic techniques will be demonstrated followed by real patient cases, using high-fidelity test lungs and a ventilator, with a focus on patient-ventilator interactions, ventilator troubleshooting and pearls for ventilator waveform analysis. This session is instructed by a physician and a respiratory therapist.



Point-of-Care Ultrasound: A Live Patient Demonstration of What the Intensivist Must Know

This session provides ultrasound novices with knowledge and essential skills to evaluate decompensating patients in the ICU. The live patient demonstrations include basic cardiac echo for point-of-care evaluation to determine cardiac function, right heart strain, tamponade and volume assessments, as well as basic pleural ultrasound skills to detect a pneumothorax, pleural effusion and pulmonary edema. You will walk away with improved comfort and confidence to start using the ultrasound in the ICU.



Who Should Attend?

All health care professionals who are not trained as intensivists but whose clinical duties involve the care of critically ill patients, including:

- Anesthesiologists
- Cardiologists
- Critical care physicians
- Emergency medicine physicians
- Family practitioners
- Hospitalists and nocturnists
- Obstetricians-gynecologists
- PAs
- Surgeons
- Nurse practitioners
- Nurses
- Pharmacists
- Other health care professionals who are commonly involved in the care of critically ill patients in intensive care settings

Live-Streaming Education for Your Convenience



This program sold out in previous years due to limited seating, but the virtual platform provides an opportunity for everyone to attend by eliminating the need to travel.

All sessions will be live-streamed and include real-time audience-response questions, live demonstrations and interactive Q&A and discussion sessions with clinical experts. Recordings of all live-streamed sessions are made available for immediate viewing online, at your convenience, through February 1, 2024.

Program changes/substitutions may be made without notice. To view the most up-to-date version of the course program, please visit the course website.

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REGISTER EARLY AND SAVE!
Register by August 4, 2023,
for discounted pricing.

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