FIFTH ANNUAL
Principles of Critical Care Medicine
for Non-Intensive Care Specialists

SEPT. 15-17, 2017
PLUS AN OPTIONAL COMMUNICATION WORKSHOP ON SEPT. 14
THE SEAPORT HOTEL, BOSTON, MASSACHUSETTS
THE CARL J. SHAPIRO SIMULATION AND SKILLS CENTER (SASC) AT BETH ISRAEL DEACONESS MEDICAL CENTER

DIAGNOSTIC SKILLS AND PROCEDURES
- Hands-on skills practice — ultrasound-guided vascular access and IO placement
- Principles of mechanical ventilation
- Differential diagnosis of shock and best practices for vasopressor use
- Best practices for sedation to minimize delirium
- Utilization of point-of-care ultrasound for real-time patient care
- Updates in the management of ARDS in 2017
- New approaches to common toxicology challenges
- Communication Workshop — tangible skills for practicing patient-centered care and guidance on having difficult conversations with the families of dying patients
- Advanced Echo Workshop — individualized echocardiography training on live patient models
- Advanced high-fidelity simulation cases in our state-of-the-art simulation center at BIDMC

THERAPEUTIC ADVANCES
- Interventions

SAFETY AND QUALITY IMPROVEMENT
- Earn up to 27.50 AMA PRA Category 1 Credits™
- 4.75 Risk Management Credits

REGISTER AT CRITICALMEDBOSTON.COM
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:

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

Keeping pace with the rapid changes in evidence-based critical care medicine is a challenge for specialty-trained intensivists; for non-intensivists, the challenge of staying up-to-date may 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. The topics include a variety of intensive care issues, such as mechanical ventilation, ultrasound, family meetings, shock and vasopressors, toxicology, sedation, delirium, ARDS, bleeding and transfusions, infections, antimicrobials and cardiopulmonary arrest.

Our outstanding faculty, recognized as experts in the field, will use diverse teaching methodologies including: didactic sessions, interactive case-based discussions, Q&As and direct hands-on simulation, procedural and clinical management practice sessions. These sessions will assess your reasoning and strategies for incorporating, synthesizing and applying core critical knowledge.

LEARNING OBJECTIVES

1. Review the basic principles of mechanical ventilation and describe indications for noninvasive and invasive ventilation
2. Identify specific causes of delirium in critically ill patients, interpret signs of delirium in the critically ill and characterize appropriate sedation goals to prevent delirium
3. Describe evidenced-based management of the bleeding patient in the intensive care unit
4. Categorize different types of shock, describe the pathophysiologic mechanism behind each and formulate appropriate treatment strategies
5. Rapidly assess causes and determine appropriate initial treatment for patients in cardiopulmonary arrest and identify best practices for post-arrest treatment
6. Identify appropriate steps for ultrasound-guided cannulation of the internal jugular vein
7. Demonstrate increased understanding of contemporary evidence-based practice in critical care

Customize Your Learning Experience
Master the skills you need to practice modern critical care medicine by customizing your learning experience. Choose from hands-on training sessions and specific-population workshops that are included in your tuition, or take advantage of our advanced optional workshops to enhance your skills.
How to Register

CORE COURSE

<table>
<thead>
<tr>
<th>Physicians and Allied Health Professionals</th>
<th>REGISTER ON OR BEFORE JUNE 16</th>
<th>REGISTER AFTER JUNE 16</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$849</td>
<td>$899</td>
</tr>
<tr>
<td>Residents and Fellows in Training</td>
<td>$549</td>
<td>$600</td>
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OPTIONAL ADVANCED WORKSHOPS — LIMITED AVAILABILITY

Communication Symposium: A Workshop to Improve Communication in Your ICU: $200
Advanced Echocardiography Workshop: $250
Simulation and Skills Lab Workshop at BIDMC: $450

REGISTRATION, PAYMENT, CONFIRMATION AND REFUND POLICY

You may register by credit card (Visa, MasterCard or American Express) or check using Harvard Medical School’s secure online registration system. A processing fee of $5 (USD) will be assessed per transaction. Upon receipt of your paid registration, an email confirmation from the HMS-DCE office 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 $150, will be issued for all cancellations received two weeks before the start of the course. Refund requests must be received by postal mail, email or fax. No refunds 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 conference has started.

VENUE

All sessions for this activity will be held at:
The Seaport Hotel
One Seaport Lane
Boston, MA 02210
Tel: 617-385-4000
www.seaportboston.com

ACCOMMODATIONS AND TRAVEL

A limited number of rooms have been reserved at the Seaport Hotel. Please call 617-385-4000 or 1-877-SEAPORT and specify that you are attending the HMS Critical Care Medicine course to take advantage of the reduced group rate of $289 single/double. This rate is available on a first-come, first-serve basis until Aug. 14. Please do not make non-refundable airline reservations until you have received an email from our office confirming your paid registration.

INQUIRIES

By phone at 617-384-8600, Monday-Friday, 9:00am - 5:00pm (EDT), or by email at ceprograms@hms.harvard.edu.

ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Harvard Medical School designates this live activity for a maximum of 27.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

RISK MANAGEMENT

This activity meets the criteria of the Massachusetts Board of Registration in Medicine for 4.75 credits of Risk Management Study. This includes 1.75 credits of End-of-Life Studies. Please check with your individual state licensing board requirements before claiming Risk Management Credits.

EUROPEAN ACCREDITATION

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert AMA PRA Category 1 Credits™ to an equivalent number of European CME Credits® (ECMECs®). Information on the process of converting AMA PRA Category 1 Credits™ to ECMECs® can be found at www.eaccme.eu.

CANADIAN ACCREDITATION

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

ACGME COMPETENCIES

This course is designed to meet the following Accreditation Council for Graduate Medical Education competencies: patient care and procedural skills, medical knowledge, practice-based learning and improvement, systems-based practice and interpersonal and communication skills.

IOM COMPETENCIES

This course is designed to meet the following Institute of Medicine competencies: provide patient-centered care, work in interdisciplinary teams, employ evidence-based practice and apply quality improvement.
Thursday, Sept. 14

2:00 PM - 2:40 PM Registration
2:40 PM - 2:50 PM Welcome and Workshop Goals
2:50 PM - 3:35 PM Is Your Care Patient-Centered or Doctor-Centered? Understanding Patient Centeredness to Improve Your Communication

BREAKOUT SESSIONS

Do You Want Us to Do Everything? Strategies to Improve Code Status and Consent Discussions
Using the “D” Word: Overcoming Challenges in Family Meetings

3:35 PM - 3:40 PM Transition
3:40 PM - 4:10 PM Rotation 1
4:10 PM - 4:15 PM Transition
4:15 PM - 4:45 PM Rotation 2

4:45 PM - 5:15 PM Mindfulness Break: Using Mindfulness Techniques to Respond to Emotion and Your Communication
5:15 PM - 5:30 PM Refreshment Break
5:30 PM - 6:15 PM Can You Hear Me Now? How to Incorporate Families on Rounds and Ensure Accurate and Clear Messaging
6:15 PM - 6:30 PM Let’s Discuss – Q&A and Discussion

Communication Symposium:
A Workshop to Improve Communication in Your ICU
(additional fee applies)

Being a great doctor requires not only knowledge and clinical expertise but also, perhaps even more importantly, communication skills and empathy. Fortunately, both can be taught and can be learned. Join your peers and experts in the field during this interactive workshop to discover how to improve patient-centered care and communication in your ICU. You will walk away with tangible strategies to overcome your communication challenges as well as mindfulness techniques for enhancing empathic communication. Space is limited for this highly interactive and engaging workshop!

Reasons to Attend This Symposium

- Learn tangible skills to communicate better with your patients and their surrogates
- Understand the importance of patient-centered care and discover tangible strategies to make your ICU patient-centered, NOT doctor-centered
- Practice your end-of-life communication skills and learn tips to talk with loved ones about dying
- Learn and practice mindfulness techniques to improve your communication skills

Register at CriticalMedBoston.com
**Friday, Sept. 15**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td><strong>7:00 AM - 8:00 AM</strong></td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td><strong>8:10 AM - 8:20 AM</strong></td>
<td>Introduction and Welcome</td>
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<tr>
<td><strong>8:20 AM - 9:10 AM</strong></td>
<td>Principles of Mechanical Ventilation: What You Need to Know to Manage the Ventilator</td>
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<td><strong>9:10 AM - 9:15 AM</strong></td>
<td>Transition to Breakouts</td>
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<tr>
<td><strong>9:15 AM - 10:00 AM</strong></td>
<td><strong>Rotation 1</strong></td>
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<tr>
<td><strong>10:00 AM - 10:20 AM</strong></td>
<td>Refreshment Break</td>
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<tr>
<td><strong>10:20 AM - 11:05 AM</strong></td>
<td><strong>Rotation 2</strong></td>
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<tr>
<td><strong>11:05 AM - 11:10 AM</strong></td>
<td>Transition</td>
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<tr>
<td><strong>11:10 AM - 11:55 AM</strong></td>
<td><strong>Rotation 3</strong></td>
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<tr>
<td><strong>11:55 AM - 1:10 PM</strong></td>
<td>Lunch Break (on your own)</td>
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<tr>
<td><strong>12:25 PM - 1:10 PM</strong></td>
<td><strong>Hands-On Skills Lab</strong> (pre-registration required)</td>
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<td><strong>1:10 PM - 2:00 PM</strong></td>
<td>Bugs and Drugs in the ICU: A Guide to Choosing the Right Antibiotics for Your Patient</td>
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<td><strong>2:00 PM - 2:35 PM</strong></td>
<td>Deadly and Underdiagnosed: Strategies to Recognize and Minimize Delirium</td>
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<td><strong>2:35 PM - 3:20 PM</strong></td>
<td>State-of-the-Art Sedation Practices in 2017</td>
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<td><strong>3:20 PM - 3:40 PM</strong></td>
<td>Refreshment Break</td>
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<tr>
<td><strong>3:40 PM - 4:25 PM</strong></td>
<td>To Transfuse or Not to Transfuse: Evidence-Based Guidelines for Transfusion in the ICU</td>
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<td><strong>4:25 PM - 4:50 PM</strong></td>
<td>Reversing the NOACs</td>
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<td><strong>4:50 PM - 5:15 PM</strong></td>
<td>Red Alert: Creating and Activating a Massive Transfusion Protocol</td>
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<tr>
<td><strong>6:00 PM - 7:00 PM</strong></td>
<td><strong>Hands-On Skills Lab</strong> (pre-registration required)</td>
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<tr>
<td><strong>6:00 PM - 7:00 PM</strong></td>
<td><strong>Advanced Echocardiography Workshop</strong></td>
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<td><strong>6:00 PM - 7:00 PM</strong></td>
<td><strong>Advanced Critical Care Echocardiography:</strong> Individualizing Care Featuring Live Patient Models</td>
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**ADVANCED WORKSHOP (pre-registration required; additional fee applies)**

Basic critical care echocardiography is an essential skill for management of critically ill patients. Point-of-care echocardiography is key in the rapid assessment of the hypotensive patient, allowing for evaluation of cardiac function, tamponade and volume status. At this workshop, you will receive hands-on, individualized critical care echo training. You will also learn and practice the basic views in focused critical care echo on live patient models. Discover how to improve patient care in your ICU by integrating focused echo into your bedside evaluation. Don’t miss this unique opportunity. Registration is limited in order to ensure ample practice time and instructor attention.
Saturday, Sept. 16

7:00 AM - 8:00 AM  Registration and Continental Breakfast

**HANDS-ON SKILLS LAB** *(pre-registration required)*
7:00 AM - 8:00 AM  SUNRISE SESSION II
Ultrasound-Guided Vascular Access and IO Placement (access training)

8:00 AM - 8:10 AM  Break

**SEPSIS, SHOCK, RESUSCITATION**
8:10 AM - 9:00 AM  Shock and Awe: A Case-Based Approach to Diagnosing Shock and Managing Vasopressors
9:00 AM - 9:45 AM  Sepsis Management from the ED to the ICU: What You Need to Know
9:45 AM - 10:05 AM  Refreshment Break

**ULTRASOUND: LIVE PATIENT DEMONSTRATION**
10:05 AM - 11:00 AM  Not Just for Lines: An Overview of Point-of-Care Ultrasound
11:00 AM - 11:40 AM  Questions and Discussion
11:40 AM - 1:10 PM  Lunch Break (on your own)

**HANDS-ON SKILLS LAB** *(pre-registration required)*
12:10 PM - 1:10 PM  MIDDAY SESSION II
Ultrasound-Guided Vascular Access and IO Placement (access training)

**OPTIONAL SESSIONS: Specific Populations**
*Customize your learning experience and choose one of the following*

12:10 PM - 1:10 PM  ■ Updates in Pediatric Critical Care: What Every General Intensivist Should Know
■ What to Do While the OB/GYN Is on the Way: Management of the Critically Ill Pregnant Patient
■ Teaching Critical Thinking in Critical Care

1:10 PM - 1:15 PM  Transition

**ADVANCED CARDIAC LIFE SUPPORT**
1:15 PM - 2:00 PM  Controversies in ACLS and Critical Care

**ICU MANAGEMENT OF COMMON PROBLEMS**
2:00 PM - 2:45 PM  Management of Commonly Encountered Electrolyte Abnormalities in Your ICU

2:45 PM - 3:05 PM  Refreshment Break

3:05 PM - 3:50 PM  Update in the Management of Overdoses and Toxidromes

**RISK MANAGEMENT AND QUALITY IMPROVEMENT**
3:50 PM - 4:40 PM  Reverence for Life at the End of Life

4:40 PM - 5:30 PM  Game Changers: The Top 5 Things You Can Do in Your ICU Right Now to Improve Outcomes

**HARVARD MEDICAL SCHOOL COURSE DIRECTORS**

- **Margaret M. Hayes, MD**
  Director
  Instructor in Medicine
  Harvard Medical School
  Director of Medical Critical Care Education
  Beth Israel Deaconess Medical Center

- **Peter F. Clardy, MD**
  Co-Director
  Assistant Professor of Medicine
  Harvard Medical School
  Chair, Department of Medical Education
  Staff Intensivist
  Mount Auburn Hospital

- **J. Woodrow Weiss, MD**
  Co-Director
  Professor of Medicine
  Harvard Medical School
  Chief, Division of Pulmonary, Critical Care, and Sleep Medicine
  Beth Israel Deaconess Medical Center

- **Jakob I. McSparron, MD**
  Co-Director
  Instructor in Medicine
  Harvard Medical School
  Director of Medical Critical Care Operations
  Associate Program Director Internal Medicine Residency
  Associate Program Director Harvard Pulmonary and Critical Care Medicine Fellowship
  Beth Israel Deaconess Medical Center

- **Morgan Soffler, MD**
  Director of Skills-Based Training
  Research Fellow in Medicine
  Harvard Medical School
  BIDMC/MGH Combined Pulmonary and Critical Care Fellowship Program
Simulation and Skills Lab Workshop

Test out the skills you learned during the course in our state-of-the-art simulation center. During this highly energetic and interactive hands-on workshop, you will work in a team to take care of an ICU patient during a high-fidelity critical care simulation. You will learn and practice how to place hemodialysis lines and learn tips for ensuring proper venous placement. Plus, learn pleural procedures from an interventional pulmonary expert and hone your airway management skills under the expert guidance of an anesthesiologist and a respiratory therapist. Our multidisciplinary group of trained educators will bring you a high-yield and interactive educational experience that you cannot miss.

Register early, as space is limited!

Reasons to Attend This Workshop

- Practice airway management on high-fidelity models with both a respiratory therapist and an anesthesiologist
- Refine your central line skills by practicing placing hemodialysis lines and learning how to ensure proper (venous) line placement
- Consolidate the knowledge you’ve gained over the last two days by participating in a high-fidelity integrative simulation case in which you ARE the doctor
- Test out the skills you’ve learned over the last two days
Customize Your Learning Experience

Master the skills you need to practice modern critical care medicine by customizing your learning experience.

- Hands-on Skills Training
- Specific-Population Workshops
- Optional Advanced Workshops
  - Communication Symposium: A Workshop to Improve Communication in Your ICU
  - Advanced Critical Care Echocardiography: Individualizing Care (featuring live patient models)
  - Simulation and Skills Lab Workshop (at Beth Israel Deaconess Medical Center)

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Plus an Optional Communication Workshop on Sept. 14