2019 Shock Symposium
The Latest in Resuscitation and Critical Care

Conference Agenda & Registration Information

May 31, 2019
Joseph B. Martin Conference Center at Harvard Medical School
77 Avenue Louis Pasteur, Boston, MA

Presented by
The American Heart Association
In Partnership with
Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center

For Physicians, Residents, Fellows, Nurses, Allied Health Professionals, EMTs and Full Time Students

https://tinyurl.com/shock2019
2019 Shock Symposium
The Latest in Resuscitation and Critical Care

Program Overview | The diagnosis and management of shock, critical illness, and cardiac arrest remains a constant challenge. Both the basics of management and the latest advances in the literature require continued review and updating. In this symposium, we will provide up-to-date and cutting edge information for clinicians and investigators alike. The concise didactic sessions and interactive discussions will provide current best practices in diagnosis and treatment of shock/critical illness to assist the learners in development of new strategies they can apply in practice. Individual participants will also have the opportunity to assess how new forms of treatment can best serve the care of their patients through shared dialogue. The Symposium will also provide the knowledge base and practical experience of experts in the field to address the challenges of managing critically ill patients. The information imparted by these experts will provide the opportunity for caregivers of patients with shock/critical illness to build up their own expertise and ability to implement treatments.

Course Learning Objectives
- Apply appropriate drug therapy regimens (epinephrine, antiarrhythmics) and airway management strategies for patients with cardiac arrest
- Discuss the advantages and disadvantages of using eCPR and ECMO for resuscitation from shock states
- List newly-identified risk factors for cardiac arrest in the ICU and apply specific tools for prevention
- Provide appropriate interventions for shock states including vaspressors, fluids and metabolic interventions
- Provide appropriate interventions for hemorrhagic shock and associated coagulopathic states

Target Audience | The target audience is clinicians and researchers focused on the diagnosis and management of critically ill patients with shock/cardiac arrest. These can include but are not limited to Physicians (Hospitalists, ED, Intensive Care, Medical, Surgical, Anesthesia); Registered Nurses/Nurse Practitioners (ED, Intensive Care, Medical, Surgical, Anesthesia); EMS Professionals (EMT, EMT-I/P); and other health care professionals who treat shock.

Joint Accreditation Statements

In support of improving patient care, this activity has been planned and implemented by The American Heart Association and Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center. The American Heart Association is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

AMA Credit Designation Statement – Physicians | The American Heart Association designates this live activity for a maximum of 6.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAPA Credit Acceptance Statement – Physician Assistants | AAPA accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 6.50 hours of Category I credit for completing this program.

AANP Credit Acceptance Statement – Nurse Practitioners | American Academy of Nurse Practitioners (AANP) accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

**AMA Credit must be claimed within 6 months of attendance. Credit will no longer be available to claim after November 30, 2019.

ANCC Credit Designation Statement – Nurses | The maximum number of hours awarded for this CE activity is 6.50 contact hours.

**ANCC Credit must be claimed within 6 months of attendance. CME/CE will no longer be available to claim after November 30, 2019.

Continuing Education Accreditation – Emergency Medical Services | This continuing education activity is approved by the American Heart Association, an organization accredited by the Commission on Accreditation of Pre-Hospital Continuing Education (CAPCE), for 6.50 Advanced CEHs, activity number 19-AMHA-F1-0011.

By claiming CAPCE credit, the claimant acknowledges the following: I understand that the American Heart Association as a requirement of CAPCE accreditation will submit a record of my course completions to the CAPCE AMS. I further understand that my course completion records may be accessed by or shared with such regulators as state EMS offices, training officers, and NREMT on a password-protected, need-to-know basis. In addition, I understand that I may review my record of CAPCE-accredited course completions by contacting CAPCE.

**CAPCE credit must be claimed within 6 months of attendance. CME/CE credit will no longer be available to claim for this activity after November 30, 2019.

Disclosure Policy | All persons who develop and/or control educational content in CME/CE activities provided by the American Heart Association will disclose to the audience all financial relationships with any commercial supporters of this activity as well as with other commercial interests whose lines of business are related to the CME/CE-certified content of this activity. In addition, presenters will disclose unlabeled/unapproved uses of drugs or devices discussed in their presentations. Such disclosures will be made in writing in course presentation materials.

Lifelong Learning | Please visit learn.heart.org to learn more about educational opportunities provided by the AHA
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30-8:00 am</td>
<td>Continental Breakfast and Registration</td>
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<tr>
<td>8:00-8:05 am</td>
<td>Welcome and Introductions</td>
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<tr>
<td>8:05-9:20 am</td>
<td><strong>Updates in Cardiac Arrest: The Max Harry Weil Memorial Session</strong></td>
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<td><strong>Moderator: Michael N. Cocchi MD</strong></td>
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<td>Epinephrine (Intra- and Post-Arrest)</td>
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<td></td>
<td><strong>Michael W. Donnino MD</strong></td>
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<td>Antiarrhythmics in Cardiac Arrest</td>
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<td><strong>Katherine Berg MD</strong></td>
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<td>8:45-9:05 am</td>
<td>Intubation, SGA, or BVM – which should I do?</td>
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<td><strong>Jerry Nolan FRCA FRCP FFICM FRCEM</strong></td>
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<td>9:05-9:20 am</td>
<td>Panel Discussion, Audience Q and A</td>
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<td>9:20-9:35 am</td>
<td>Break and Visit with Exhibitors</td>
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<td>9:35-11:00 am</td>
<td><strong>Advanced Therapies in Shock (ECMO, Impella) Case Presentations and Discussion</strong></td>
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<td><strong>Moderator: Kathryn A Hibbert MD</strong></td>
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<td>9:35-9:45 am</td>
<td>Case Studies for Advanced Therapies in Shock:</td>
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<td>Case 1: 43 year old with refractory VF Arrest</td>
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<td>Case 2: 55 year old presents with severe ARDS</td>
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<td>Panelists: Jason Bartos MD (Case Presenter), Wilson Grandin MD MPH MEd, Michael N. Cocchi MD, Nathalie Roy MD, Katelyn Rick BSN RN</td>
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<td>10:45-11:00 am</td>
<td>Audience Q and A</td>
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<td>11:00-12:00 pm</td>
<td><strong>Prevention of Cardiac Arrest and Adverse Events in the ICU</strong></td>
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<td><strong>Introduction: Michael W. Donnino MD</strong></td>
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<td>11:00-11:45 am</td>
<td>Case Presentation: Prevention of Cardiac Arrest and Adverse Events in the ICU: The I-CAP program at BIDMC</td>
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<td>Panelists: Jennifer Sarge RN, Ari Moskowitz MD, Michael N. Cocchi MD, Michael Silverman MD, Catherine Ross MD</td>
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<td>11:45 am-12:00 pm</td>
<td>Audience Q and A</td>
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<td>12:00-1:00 pm</td>
<td>Lunch, Poster Presentations and Visit with Exhibitors</td>
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<td>1:00-1:30 pm</td>
<td>Oral Abstract Presentations (Breakout Session)</td>
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<td>1:30-2:45 pm</td>
<td><strong>Management in Distributive Shock</strong></td>
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<td><strong>Shelley Calder, DNP, RN,CEN</strong></td>
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<td>1:30-1:50 pm</td>
<td><strong>Which Vasopressor to Use? Advantages and Disadvantages of Methylene Blue, Angiotensin II</strong></td>
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<td><strong>Margaret Hayes MD</strong></td>
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<td>1:50-2:10 pm</td>
<td><strong>Metabolic Resuscitation</strong></td>
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<td><strong>Ari Moskowitz MD</strong></td>
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<td>2:10-2:30 pm</td>
<td><strong>Is there an emerging role for midodrine?</strong></td>
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<td><strong>Shahzad Shaefi MD</strong></td>
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<td>2:30-2:45 pm</td>
<td>Panel Discussion, Audience Q and A</td>
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<td>2:45-3:00 pm</td>
<td>Break</td>
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<td>3:00-4:15 pm</td>
<td><strong>Hemorrhagic Shock</strong></td>
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<td><strong>Moderator: Maureen Chase MD</strong></td>
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<td>3:00-3:20 pm</td>
<td>REBOA for trauma and cardiovascular emergencies</td>
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<td><strong>David R King MD FACS, LTC US Army</strong></td>
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<td>3:20-3:40 pm</td>
<td><strong>Optimal Resuscitation Strategies</strong></td>
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<td><strong>Noelle Saillant MD</strong></td>
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<td>3:40-4:00 pm</td>
<td><strong>Reversal agents for life-threatening hemorrhage – what do I use?</strong></td>
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<td><strong>TBD</strong></td>
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<td>4:00-4:15 pm</td>
<td>Panel Discussion, Audience Q and A</td>
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<td>4:15-4:30 pm</td>
<td>Closing Remarks</td>
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<td><strong>Michael W. Donnino MD, Michael N. Cocchi MD</strong></td>
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**ADA Statement** | We encourage participation by all individuals. If you have a disability, advance notification of special needs will help us to serve you better.
Faculty

Jason Bartos, MD, PhD
Cardiology and Critical Care,
University of Minnesota Medical School
Assistant Professor of Medicine
Minneapolis, MN

Katherine Berg, MD
Assistant Director, Center for
Resuscitation Science
Beth Israel Deaconess Medical Center
Attending Physician, Pulmonary
and Critical Care
Assistant Professor of Medicine,
Harvard Medical School

Shelley Calder, DNP, RN, CEN
Program Director Ambulatory & Emergency
Nursing Education
Clinical Specialist, Emergency Department
Beth Israel Deaconess Medical Center

Maureen Chase, MD, MPH
Associate Director, Center for
Resuscitation Science
Beth Israel Deaconess Medical Center
Assistant Professor of Emergency Medicine
Harvard Medical School

Michael N. Cocchi, MD
Director, Critical Care Quality
Beth Israel Deaconess Medical Center
Assistant Professor of Emergency Medicine
Harvard Medical School

Michael W. Donnino, MD
Director, Center for Resuscitation Science
Beth Israel Deaconess Medical Center
Associate Professor of Emergency Medicine
Harvard Medical School

Wilson Grandin, MD, MPH, MEd
Director, ECMO and Temporary Mechanical Circulatory Support
Advanced Heart Failure and Transplant Cardiology
Instructor in Medicine, Harvard Medical School
Beth Israel Deaconess Medical Center

Margaret Hayes, MD
Attending Physician, Pulmonary and Critical Care
Beth Israel Deaconess Medical Center
Assistant Professor of Medicine
Harvard Medical School

Kathryn A. Hibbert, MD
Veitch-Chief for Critical Care
Director, Medical ICU
Massachusetts General Hospital

David R. King, MD, FACS, LTC US Army
Associate Professor of Surgery, Harvard Medical School
Director, Trauma & Acute Care Surgery Fellowship Program
Massachusetts General Hospital

Ari Moskowitz, MD
Assistant Director, Center for Resuscitation Science
Attending Physician, Pulmonary, Critical Care, and Sleep Medicine
Beth Israel Deaconess Medical Center
Instructor in Medicine,
Harvard Medical School

Jerry Nolan, FRCA, FRCP, FFICM, FRCEM
Professor of Resuscitation Medicine
University of Warwick, UK
Consultant in Anaesthesia and Intensive Care Medicine
Royal United Hospital, Bath, UK

Katelyn Rick, BSN, RN
Mechanical Circulatory Support and Shock Team Coordinator
Beth Israel Deaconess Medical Center

Nathalie Roy, MD
Boston Children’s Hospital
Instructor in Surgery,
Harvard Medical School

Catherine Ross, MD
Attending Physician, Division of Critical Care Medicine
Boston Children’s Hospital
Instructor in Pediatrics,
Harvard Medical School

Noelle Saillant, MD
Attending Physician, Surgery,
Massachusetts General Hospital
Instructor in Surgery,
Harvard Medical School

Jennifer Sarge, RN
Clinical Nurse and Unit Based Educator,
Medical ICU
Beth Israel Deaconess Medical Center

Shahzad Shaefi, MD, MPH
Anesthesiology, Critical Care, and Pain Medicine
Beth Israel Deaconess Medical Center
Assistant Professor of Anesthesiology, Harvard Medical School

Michael Silverman, MD, MPH
Internal Medicine, Cardiology, Critical Care
Massachusetts General Hospital
Instructor in Medicine
Harvard Medical School

Regulation

PLEASE NOTE ON-LINE, PRE-REGISTRATION IS REQUIRED
Visit the course website for more details and submission form.
We suggest that you register now to take advantage of the early registration fees and ensure a seat. Once you have completed your registration form, you will be automatically rerouted to a payment page. Your registration is not complete until payment is received.

REGISTRATION FEES
Includes: Continuing Education Credits, Continental Breakfast & Lunch

Physicians | $270 ($290 after Friday, May 3, 2019)
Residents/Fellows | $140 ($160 after Friday, May 3, 2019)
Nurses/Allied Health Professionals | $140 ($160 after Friday, May 3, 2019)
EMTs | $85 ($105 after Friday, May 3, 2019)
Full Time Students | $80 ($100 after Friday, May 3, 2019)

Students can register to attend at a discounted rate, when proof of full-time student status is provided to Francesca Montillo at fmontill@bidmc.harvard.edu

CANCELLATION POLICY: If you need to cancel your registration, please email Francesca Montillo fmontill@bidmc.harvard.edu. Refund of Registration Fee, less a $30 Administration Fee, will be given if written notice of cancellation is postmarked by May 3, 2019. Refunds will not be issued after May 3, 2019.

Course Location

The Joseph B. Martin Conference Center
77 Avenue Louis Pasteur, Boston, MA 02115
Visit our website for travel information: tinyurl.com/shock2019

Parking
There are 5 parking garages near the Joseph B. Martin Conference Center. Please refer to https://theconfcenter.hms.harvard.edu/pdf/hmscc-parking.pdf for locations and costs. These rates are subject to change and are not included in your registration fees.

For more information and registration: https://tinyurl.com/shock2019