

Continuing Medical Education



Center for Resuscitation Science  
The Department of Emergency Medicine  
Hospital of the University of Pennsylvania

*Presents*

# **HYPOTHERMIA AND RESUSCITATION TRAINING INSTITUTE AT PENN (HART)**



A CME/CE-CERTIFIED COURSE

**Thursday-Friday  
October 29-30, 2015**

Loews Philadelphia Hotel  
1200 Market Street  
Philadelphia, PA 19107

**COURSE CO-DIRECTORS**

Benjamin S. Abella, MD, MPhil  
Marion Leary, MPH, MSN, RN

**GUEST FACULTY**

Jon C. Rittenberger, MD, MS  
Associate Professor of Emergency Medicine  
University of Pittsburgh  
Post Cardiac Arrest Service Attending  
UPMC Presbyterian

**In Conjunction with**  
Hospital of the University of Pennsylvania,  
Department of Nursing Education,  
Innovation and Professional Development



## PROGRAM OVERVIEW & TARGET AUDIENCE

*Hypothermia and Resuscitation Training Institute at Penn (HART)* is an intensive two-day “boot camp” designed to educate relevant care providers on the use of targeted temperature management in critical illness and post-arrest and resuscitation care, as well as CPR quality, cardiac catheterization, internal cardiac defibrillator (ICD) consideration and advanced ICU care. In addition to scholarly presentations and discussions regarding targeted temperature management usage, a key goal is to help each attendee explore the various methods and protocols currently being used around the country and to have hands-on technical experience with the equipment used, as well as CPR “challenge” simulations. By the conclusion of the course, each attendee will have a firm grasp of the practical issues surrounding the implementation of targeted temperature management (TTM) and its range of applications and uses, and will gain an understanding of how to best develop and implement a comprehensive high-quality in-hospital resuscitation program.

This activity has been designed for physicians (cardiologists, neurologists, emergency medicine physicians, intensive care physicians), physician assistants, registered and advanced practice nurses, and emergency medical service directors and paramedics.

### Learning Objectives

At the conclusion of this program, learners should be able to:

- Review the history, evidence and pathophysiology surrounding the use of TTM
- Create a working TTM protocol for their respective institutions
- Determine appropriate inclusion and exclusion criteria for patients being considered for comprehensive care including temperature and hemodynamic management
- Implement TTM for patients at their respective institutions
- Develop a “post-cardiac arrest bundle” of care for their organization including the use of automatic external defibrillators, CPR quality improvement, and debriefing arrest events

### Hosting Department

*Hypothermia and Resuscitation Training Institute at Penn (HART)* is hosted by the Center for Resuscitation Science, Department of Emergency Medicine, Hospital of the University of Pennsylvania.

### Accreditation

**Physicians:** The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**Nurses:** The Hospital of the University of Pennsylvania, Department of Nursing Education, Innovation and Professional Development is an approved provider of continuing nursing education by the PA State Nurses Association, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation.

### Designation of Credit

**Physicians:** The Perelman School of Medicine at the University of Pennsylvania designates this live activity for a maximum of 15.5 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nurses:** The program will award 15.5 contact hours.

**Certificates and Transcripts:** A few days prior to the symposium, pre-registered participants will receive an email containing directions, additional symposium information and a link to the symposium pre-test, a short questionnaire that will be used to gauge participant knowledge. After the symposium has concluded, all participants will receive a follow-up email containing a link to the post-test, symposium evaluation and request for credit. Once participants submit the request for credit, the credit can be viewed on a transcript or a certificate can be printed by logging onto [www.penncmehonline.com](http://www.penncmehonline.com) once the conference concludes. Paper certificates will no longer be mailed from the Office of Continuing Medical Education.

### Disclosures

Perelman School of Medicine at the University of Pennsylvania, Office of Continuing Medical Education, adheres to the *ACCME Standards for Commercial Support*. Faculty disclosure information will be made available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products within their presentations.

### Registration Fees

The registration fees for *Hypothermia and Resuscitation Training Institute at Penn (HART)* are \$795 for physicians and industry and \$595 for other healthcare professionals, residents, and fellows. The registration fees for the 2-day conference include tuition, course syllabus on a flash drive, continental breakfasts, morning and afternoon breaks and lunch on both days as well as a reception on Thursday, October 29, 2015.

Registration forms may be mailed or faxed to the Office of Continuing Medical Education or you may register on-line at [www.penncmehonline.com](http://www.penncmehonline.com) and click on CME Activities/Live Events. Please see the bottom of the registration form for contact information. All registrations will be confirmed via e-mail if the necessary form and fee are received by the Office of Continuing Medical Education.

### Cancellation and Refund Policy

In order to process refunds for course withdrawals, cancellations must be received in writing by Thursday, October 15, 2015, (subject to a service charge equivalent to 10% of the registration fee). No refunds will be issued thereafter.

The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund any registration fees but is not responsible for any related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.

### Meeting Location

*Hypothermia and Resuscitation Training Institute at Penn (HART)* will take place on Thursday and Friday, October 29-30, 2015, at the Loews Philadelphia Hotel, 1200 Market Street, Philadelphia, PA.

If you require overnight room reservations, please call the LOEWS Reservation Center, 888-575-6397 and please identify as being part of the group UPenn Hypothermia Training. You may also register online using the following link: [https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=12682614](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=12682614) A block of rooms has been reserved for October 28-30 at the special rate of \$239 plus applicable taxes at the time of checkout, currently 15.5%. This rate will remain effective until Wednesday, September 30, 2015, or when the room block is full, whichever occurs first. Parking is available at the hotel. Current valet charges are \$38.00 per night plus tax. The parking fee is your responsibility and is not included or reimbursed by the conference.



Except as otherwise indicated, the course directors and faculty are from Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

## COURSE DIRECTORS

### Benjamin S. Abella, MD, MPhil

Associate Professor  
Department of Emergency Medicine  
Perelman School of Medicine  
at the University of Pennsylvania  
Clinical Research Director  
Center for Resuscitation Science  
Attending Physician, Emergency Department  
Hospital of the University of Pennsylvania

### Marion Leary, MPH, MSN, RN

Assistant Director of Clinical Research  
Center for Resuscitation Science  
Associate Course Director  
School of Nursing at the University of Pennsylvania  
Nurse, Medical Intensive Care Unit  
Hospital of the University of Pennsylvania

## GUEST FACULTY

### Jon C. Rittenberger, MD, MS

Associate Professor of Emergency Medicine  
University of Pittsburgh  
Post Cardiac Arrest Service Attending  
UPMC Presbyterian

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**Services for the Disabled** If special arrangements are required for an individual with a disability to attend this meeting, please contact the Center for Resuscitation Science no later than October 15, 2015, at 215-662-6912.

**Nondiscrimination Statement** The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East Suite 228, Philadelphia PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD). [www.upenn.edu/affirm-action](http://www.upenn.edu/affirm-action)

## FACULTY

### Cassandra Bellamy, PharmD, BCPS

Clinical Specialist, Critical Care  
Medical Intensive Care Unit  
Hospital of the University of Pennsylvania

### Lance B. Becker, MD

Professor of Medicine  
Perelman School of Medicine  
at the University of Pennsylvania  
Director, Center for Resuscitation Science  
Attending Physician, Emergency Department  
Hospital of the University of Pennsylvania

### Gail Delfin, MSN, RN

Clinical Research Nurse  
Center for Resuscitation Science  
Hospital of the University of Pennsylvania

### Barry D. Fuchs, MD, MS, FCCP

Associate Professor of Medicine  
Department of Medicine  
Perelman School of Medicine  
at the University of Pennsylvania  
Medical Director of MICU and Respiratory Care  
Hospital of the University of Pennsylvania

### David F. Gaieski, MD

Associate Professor  
Thomas Jefferson University  
Vice Chair, Resuscitation Services  
Director, Emergency Critical Care  
Attending Physician, Emergency Department  
Thomas Jefferson University Hospitals

### Daniel M. Kolansky, MD

Associate Professor of Medicine  
Department of Medicine  
Perelman School of Medicine  
at the University of Pennsylvania  
Director, Cardiac Care Unit  
Cardiovascular Division  
Hospital of the University of Pennsylvania

### Joshua M. Levine, MD

Associate Professor of Neurology  
Perelman School of Medicine  
at the University of Pennsylvania  
Co-director, Neurocritical Care Program  
Departments of Neurology, Neurosurgery and Anesthesiology  
Hospital of the University of Pennsylvania



Thursday – Friday, October 29-30, 2015

# AGENDA

## Thursday, October 29, 2015

7:30 AM – 8:00 AM **Registration and Continental Breakfast**

8:00 AM – 8:15 AM **Welcome and Course Orientation**  
*Benjamin S. Abella, MD, MPhil*

### DIDACTIC LECTURE BLOCK

8:15 AM – 9:00 AM **Review of Post-resuscitation Care Evidence and Trials**  
*Benjamin S. Abella, MD, MPhil*

9:00 AM – 9:45 AM **Review of Therapeutic Temperature Management and FDA Approved Indications**  
*David F. Gaieski, MD*

9:45 AM – 10:05 AM **Break and Exhibits**

10:05 AM – 10:45 AM **How to be a Champion: Knowledge Translation and Roadblocks**  
*Gail Delfin, MSN, RN*

10:45 AM – 11:15 AM **Breaking the Barriers to Raising the Dead**  
*Lance B. Becker, MD*

11:15 AM – 11:30 AM **Survivor Story**  
*Mark A. Malangoni, MD*

11:30 AM – 12:20 PM **Lunch With Q & A Faculty Panel:**  
*Benjamin S. Abella, MD, MPhil*  
*Lance B. Becker, MD*  
*Gail Delfin, MSN, RN*  
*David F. Gaieski, MD*

12:20 PM – 12:30 PM **Simulation Information**  
*Marion Leary, MPH, MSN, RN*

### BREAKOUT SESSIONS AND SIMULATIONS (FIVE TEAMS WITH ROTATIONS)

12:30 PM – 4:00 PM **Station 1: Q&A on the 33 vs 36 TTM Trial**  
*Benjamin S. Abella, MD, MPhil*

**Station 2: Patient Selection and Implementation of Protocol**  
*Gail Delfin, MSN, RN*

**Station 3: “Hands-on” CPR Quality Stations**

**Station 4: Post-arrest Simulation**

**Station 5: Post-arrest Simulation**

4:00 PM – 6:00 PM **Reception / Lecture**  
*Benjamin S. Abella, MD, MPhil*

## Friday, October 30, 2015

7:30 AM – 8:00 AM **Registration and Continental Breakfast**

### DIDACTIC LECTURE BLOCK

8:00 AM – 8:45 AM **TTM and Cardiovascular Management**  
*Daniel M. Kolansky, MD*

8:45 AM – 9:30 AM **TTM and Neurological Monitoring**  
*Joshua M. Levine, MD*

9:30 AM – 9:45 AM **Break and Exhibits**

9:45 AM – 10:15 AM **Pharmacological Considerations With Cooling**  
*Cassandra Bellamy, PharmD, BCPS*

10:15 AM – 10:45 AM **Adverse Effects of TTM: Managing Side Effects**  
*Barry D. Fuchs, MD, MS, FCCP*

10:45 AM – 11:15 AM **Post-arrest Care and the 2015 AHA Guidelines**  
*Benjamin S. Abella, MD, MPhil*

11:15 AM – 12:30 PM **Lunch Lecture After the Hospital: A Coordinated Program for Post-arrest Assessment and Rehabilitation**  
*Jon C. Rittenberger, MD, MS*

### BREAKOUT SESSIONS AND SIMULATIONS (FIVE TEAMS WITH ROTATIONS)

12:30 PM – 4:00 PM **Station 1: Monitoring of Post-arrest Patients and Potential Pitfalls**  
*Gail Delfin, MSN, RN*

**Station 2: Using TTM for Neurologic Injury, Other Applications**  
*Atul Kalanuria, MD*

**Station 3: Certification Exam**  
*Benjamin S. Abella, MD, MPhil*

**Station 4: Post-arrest Simulation**

**Station 5: Post-arrest Simulation**

4:00 PM

**Adjournment**

**HYPOTHERMIA AND RESUSCITATION  
TRAINING INSTITUTE AT PENN (HART)**

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October 29-30, 2015

To register online for the course please visit [www.penncmeonline.com](http://www.penncmeonline.com)  
and click on CME Activities

You May Also Mail or Fax Payment and Registration Information to:

Conference Coordinator, Perelman School of Medicine at the  
University of Pennsylvania, Office of Continuing Medical Education  
150 Anatomy/Chemistry Building, 3620 Hamilton Walk  
Philadelphia, Pennsylvania 19104-6061  
Phone: 215-898-8005 | Fax: 215-898-1888 | [penncme@mail.med.upenn.edu](mailto:penncme@mail.med.upenn.edu)

Please print or type

Name (First) \_\_\_\_\_ (Last) \_\_\_\_\_

Academic Degree \_\_\_\_\_

Medical Specialty \_\_\_\_\_

Affiliation (Hospital, Office, or Company) \_\_\_\_\_

Address (  Affiliation or  Home) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail\* \_\_\_\_\_

**Registration Fee** (pre-payment is required to be officially registered)

- \$795 Physicians and Industry
- \$595 Other Healthcare Professionals, Residents and Fellows

**Optional Purchase**

You must register and pay for the course in order to purchase any additional options

**Optional DVD – March 15-16, 2012 Hypothermia Lecture Series**

- \$50 for all registrants

**Optional Black and White Syllabus (wire bound) for this Session**

- \$50 for all registrants

**Payment Method**

Make check payable to **The Trustees of the University of Pennsylvania/CME**

- Visa
- MasterCard
- Discover
- American Express

Authorization Signature \_\_\_\_\_

Cardholder Name \_\_\_\_\_

Card # \_\_\_\_\_ Security Code \_\_\_\_\_ Exp. Date \_\_\_\_\_

Promotional Code Number \_\_\_\_\_

Please Note: Walk-in registrants must bring payment to the program.  
Seating may be limited for walk-in registrants.

\*is a mandatory field