



**Penn Medicine**  
Continuing Medical and  
Interprofessional Education

# POST-ARREST CARE AND TARGETED TEMPERATURE MANAGEMENT

## A PRACTICAL TRAINING COURSE FOR HEALTH CARE PROVIDERS

CME/CE-ACCREDITED CONFERENCE



**JUNE 21-22, 2019**

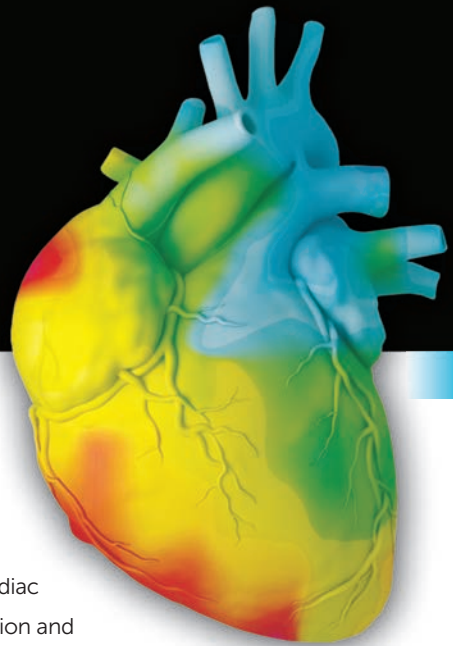
Law Auditorium  
Jordan Medical Education Center  
at Penn Medicine  
3400 Civic Center Blvd  
Philadelphia, PA 19104



<https://penmedonline.upenn.edu/ttmacademy/>

<https://upenn.cloud-cme.com/ttm2019>

# PROGRAM OVERVIEW & TARGET AUDIENCE



The purpose of this educational activity is to educate relevant care providers on emergency care of cardiac arrest patients, most specifically to teach about post-arrest care, including the use of targeted temperature management, cardiac catheterization, internal cardiac defibrillator (ICD) consideration and advanced ICU care. In addition to scholarly presentations and discussions, a key goal is to help each attendee discover an integrated, multidisciplinary system of both cardiac arrest and post-cardiac arrest care, through hands-on experience with cardiac arrest scenarios and exploration of various protocols currently being used around the country. By the conclusion of the course, each attendee will have a firm grasp of developing and implementing a comprehensive in-hospital high quality post-arrest care resuscitation program.

This conference is designed to meet the educational needs of physicians, advance practice providers, physician assistants, nurses, residents, fellows and students specializing in or with interest in the evaluation and management of targeted temperature management.

## LEARNING OBJECTIVES

Upon completion of this activity, participants should be able to:

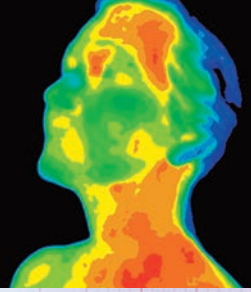
- Review the history, evidence and pathophysiology surrounding the use of therapeutic hypothermia in the post-arrest population
- Determine appropriate inclusion and exclusion criteria for post-arrest patients being considered for therapeutic hypothermia
- Implement therapeutic hypothermia as a therapy for post-cardiac arrest patients at their respective institutions
- Create a working post-resuscitation care and hypothermia protocol for their respective institutions
- Develop a “post-cardiac arrest bundle” of care for their organization
- Explain therapeutic hypothermia in the context of a comprehensive resuscitation program to improve cardiac arrest survival, including the use of automatic external defibrillators, CPR quality improvement, and debriefing arrest events

## HOSTING DEPARTMENT

*Post-arrest Care and Targeted Temperature Management – A Practical Training Course for Health Care Providers* is hosted by the Department of Emergency Medicine at the University of Pennsylvania.

**JUNE 21-22, 2019**

**Law Auditorium  
Jordan Medical Education Center at Penn Medicine  
3400 Civic Center Blvd., Philadelphia, PA 19104**



## ACCREDITATION



JOINTLY ACCREDITED PROVIDER<sup>®</sup>  
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, Penn Medicine 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.

## DESIGNATION OF CREDIT

**Physicians:** Penn Medicine designates this live activity for a maximum of 15.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



**ABIM MOC:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 15.0 MOC points in the American Board of Internal Medicine's (ABIM)

Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

**Nurses:** This program provides 15.0 contact hours.

**Physician Assistants:** AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*<sup>™</sup> from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 15.0 Category 1 credits for completing this activity.

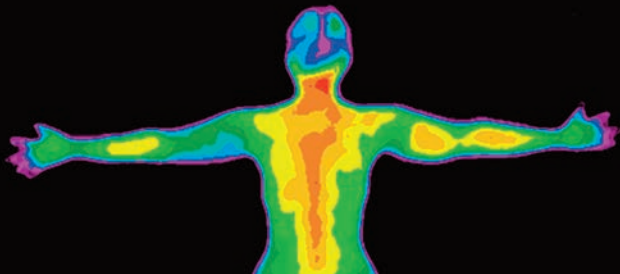
**Certificates and Transcripts:** After the conference has concluded, all participants will receive a follow-up email with instructions and a link with instructions on how to claim their credit. Once participants submit the request for credit, the earned credits will be available for viewing on your transcript or available for printing at <https://upenn.cloud-cme.com>. Please note that the individual certificate will not be mailed.

## REGISTRATION FEES

The registration fees for *Post-arrest Care and Targeted Temperature Management – A Practical Training Course for Health Care Providers* are \$595 for physicians and industry employees; \$395 for advance practice providers, physician assistants, nurses, residents, fellows and students. Penn Medicine & affiliate employees, faculty and staff will receive a 50% discount off the registration fee. A valid Penn Medicine email address is required to receive the special rate.

The registration fee includes attendance to the conference, conference materials and a link to view the presentations online, credit certificate, continental breakfast, mid-morning and afternoon refreshments and lunch for both days.

If you are registering with a credit card, please register online at <https://upenn.cloud-cme.com/ttm2019>. You must log-in with your Penn ID or your email and password or if you do not already have a profile, you must create one before you can register for this conference. We cannot accept faxed or mailed registration forms with credit card information. To pay by check, complete the registration form and mail it in with your check. Please see the registration form for mailing information. Please note: mailed registrations can take up to 5-10 business days before they are received. All registrations will be confirmed by email as long as your registration is received no later than June 7, 2019.



## DISCLOSURES

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

## CONFERENCE LOCATION

*The Post-arrest Care and Targeted Temperature Management – A Practical Training Course for Health Care Providers* will be held Friday-Saturday, June 21-22, 2019 in the Law Auditorium at the Jordan Medical Education Center (located on the 5th floor of the Smilow Translational Research Center (TRC) and Perelman Center for Advanced Medicine), 3400 Civic Center Boulevard, Philadelphia, Pennsylvania, 19104.

**Directions:** We strongly recommend you use GPS or an online driving directions site (such as [googlemaps.com](http://googlemaps.com)) for directions to and from your starting point. If you prefer to take public transportation to and from campus, please visit <http://www.upenn.edu/services/transportation> for options. The University City station is the stop closest to the Jordan Medical Education Center.

**Parking** On Friday, June 21st, the 3600 Civic Center Blvd Parking Garage is open for public parking. This garage is accessible from Civic Center Blvd and is located at Civic Center Blvd and West Service Drive (next to the Colket Research Center). Smilow TRC is about a 5 minute walk from this parking garage. Parking is \$20 per day. This garage is only open Monday-Friday. It is closed on weekends.

On Saturday, June 22nd, the Perelman Center for Advanced Medicine garage (3400 Civic Center Blvd) is open to those attending this conference. Parking is about \$20 per day. Parking fees on Friday and Saturday are the responsibility of the attendee.

## Overnight Accommodation

A block of rooms has been reserved at the Study Hotel at University City at a special group rate of \$209 per night (single or double occupancy). Taxes are 16.36% per room per night and are subject to change. The Study Hotel requires a credit card to hold the reservation. They accept all major credit cards. Hotel check-in is at 3 pm, check-out is at noon. To make hotel reservations, please contact the Study Hotel at University City at 215-387-1400 or make your reservation online using this link: <https://reservations.travelclick.com/99716?groupID=2542416> (Use Booking code 2874481)

**Deadline for Reservations:** May 24, 2019. **Parking at The Study:** valet-parking is available for \$20 per car for the day or \$42 for overnight guests. Parking costs are not validated or reimbursed.

The Study is about a 10 minute walk to/from the Jordan Medical Education Building.

### The Study at University City Hotel

20 South 33rd Street, Philadelphia, PA 19104 • 215-387-1400  
<https://www.thestudyatuniversitycity.com/>

## Alternative Options:

### Homewood Suites by Hilton

4109 Walnut Street, Philadelphia, PA 19104  
215-382-1111  
[www.HomewoodUnivCity.com](http://www.HomewoodUnivCity.com)

\*Homewood Suites offers a complimentary shuttle service

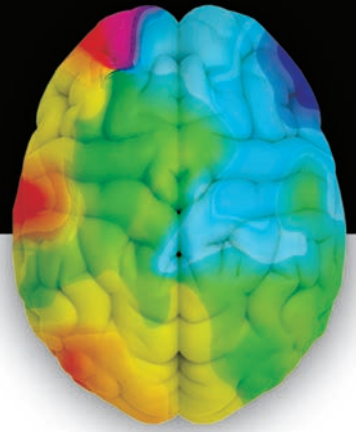
### The Inn at Penn

3600 Sansom Street, Philadelphia, PA 19104  
215-222-0200  
[www.theinnatpenn.com](http://www.theinnatpenn.com)

### Sheraton University City Hotel

3600 Chestnut Street, Philadelphia, PA 19104  
215-387-8000  
[www.sheraton.com/universitycity](http://www.sheraton.com/universitycity)

# FACULTY



*With the exception of the guest faculty, the Course Directors & Faculty hold academic and/or clinical appointments from the Perelman School of Medicine at the University of Pennsylvania and Penn Medicine, Philadelphia, PA*

## CONFERENCE DIRECTOR

### **Benjamin S. Abella, MD MPhil**

*Professor, Emergency Medicine*

*Attending Physician, Emergency Medicine*

*Associate Scholar, Center for Clinical Epidemiology and Biostatistics*

*Vice Chair of Research, Department of Emergency Medicine*

*Director, Center for Resuscitation Science*

*Medical Director, Penn Acute Research Collaboration (PARC)*

## GUEST SPEAKERS

### **David F. Gaieski, MD**

*Professor & Vice Chair, Resuscitation Services*

*Director, Emergency Critical Care*

*Sidney Kimmel Medical College at Thomas Jefferson University*

*Philadelphia, PA*

### **Julie Jablonski, DNP, RN, CCRN, CCNS**

*Critical Care Nurse Systems Strategist*

*University of Pennsylvania*

## SPEAKERS

### **Ramani Balu, MD/PhD**

*Assistant Professor of Neurology*

*Attending Physician, Neuro ICU*

### **Abhishek Bhardwaj, MD**

*Resuscitation Fellow*

*Physician Hospitalist*

*Penn Presbyterian Medical Center*

### **John C. Greenwood, MD**

*Assistant Professor*

*Clinical Emergency Medicine*

*Assistant Professor, Anesthesiology and*

*Critical Care Medicine*

*Medical Director, Resuscitation & Critical Care*

*Unit, Department of Emergency Medicine*

### **Daniel M. Kolansky, MD**

*Director, Cardiac Care Unit*

*Hospital of the University of Pennsylvania*

*Associate Chief of Clinical Affairs*

*Cardiovascular Medicine*

### **Josh Levine, MD**

*Associate Professor of Neurosurgery*

*Associate Professor of Neurology*

*Associate Professor of Anesthesiology*

*and Critical Care*

### **Thomas Levins, RN**

*Clinical Coordinator*

*PennStar Flight, Trauma and*

*Surgical Critical Care*

### **Felipe Teran-Merino, MD**

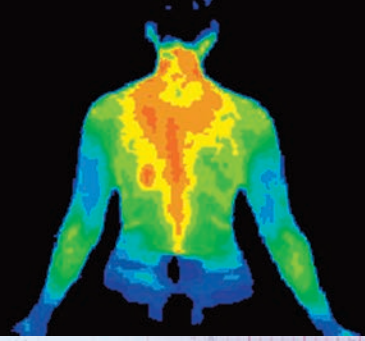
*Attending Physician*

*Department of Emergency Medicine*

*Director, Resuscitative TEE Program*

**TTM ACADEMY LIVE: POST-ARREST CARE  
INTENSIVE TRAINING PROGRAM**

**AGENDA**



FRIDAY, JUNE 21, 2019

- 7:30 AM – 8:00 AM **Registration and Continental Breakfast**
- 8:00 AM – 8:15 AM **Welcome and Course Orientation**  
*Benjamin Abella, MD, MPhil*
- 8:15 AM – 9:00 AM **Review of Post-resuscitation Care Evidence and Trials**  
*Benjamin Abella, MD, MPhil*
- 9:00 AM – 9:45 AM **Review of Targeted Temperature Management & Applications**  
*Ramani Balu, MD, PhD*
- 9:45 AM – 10:05 AM Break
- 10:05 AM – 10:45 AM **How to be a Champion: Knowledge Translation and Roadblocks**  
*Julie Jablonski, RN*
- 10:45 AM – 11:15 AM **ECMO and its Role in Resuscitation**  
*John Greenwood, MD*
- 11:15 AM – 11:30 AM **Survivor Story**  
TBA
- 11:30 AM – 12:25 PM **Lunch with Faculty Panel Q & A**  
*Julie Jablonski, RN*  
*Ramani Balu, MD*  
*John Greenwood, MD*
- 12:25 PM – 12:30 PM **Orientation to Break Out Sessions**  
*Benjamin Abella, MD*
- 12:30 PM – 4:00 PM **Breakout Sessions and Simulation (Five Teams with Rotations)**  
**Dose selection: 33 vs 36 C and duration**  
*Benjamin Abella, MD, MPhil*
- Patient Selection and Implementation of Protocol**  
*Julie Jablonski, RN*
- "Hands-on" CPR Quality Stations**  
*Staff TBA*
- Post-arrest Case Discussion #1**  
*Felipe Teran, MD*
- Post-arrest Case Discussion #2**  
*Josh Levine, MD*
- 4:00 PM – 6:00 PM **Reception**

**TTM ACADEMY LIVE: POST-ARREST CARE  
INTENSIVE TRAINING PROGRAM**

**AGENDA**



SATURDAY, JUNE 22, 2019

- 7:30 AM – 8:00 AM **Registration and Breakfast**
- 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
- 9:45 AM – 10:15 AM **Pharmacological Considerations with Cooling**  
*Hospital pharmacist TBA*
- 10:15 AM – 10:45 AM **Adverse Effects of TTM: Managing Side Effects**  
*Abhishek Bhardwaj, MD*
- 10:45 AM – 11:15 AM **Post-arrest Care and the 2015 AHA Guidelines**  
*Benjamin Abella, MD, MPhil*
- 11:15 AM – 11:30 AM **Lunch Break**
- 11:30 AM – 12:30 PM **Lunch Lecture from Guest Speaker**  
**In-hospital Arrest and TTM**  
*David F. Gaieski, MD*
- 12:30 PM – 4:00 PM **Breakout Sessions and Simulation (Five Teams with Rotations)**
- Monitoring of Post-arrest Patients and Potential Pitfalls**  
*Tom Levins, RN*
- Using TTM for Neurologic Injury: Other Applications**  
*Josh Levine, MD*
- Certification Exam**  
*Benjamin Abella, MD, MPhil*
- Post-arrest Case #3**  
*Abhishek Bhardwaj, MD*
- Post-arrest Case #4**  
*David F. Gaieski, MD*
- 4:00 PM **Evaluation and Adjournment**

**SERVICES FOR THE DISABLED** If special arrangements are required for an individual with a disability to attend this meeting, please contact the Office of Continuing Medical and Interprofessional Education no later than June 7, 2019, at 215-898-6400.

**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).

## Registration Form

# POST-ARREST CARE AND TARGETED TEMPERATURE MANAGEMENT

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Friday and Saturday  
June 21-22, 2019

If you are registering using your credit card, please register online at:  
<https://upenn.cloud-cme.com/ttm2019>

### Questions? Contact us at:

Phone: 215-898-6400 or 215-898-8005 • [penncme@penmedicine.upenn.edu](mailto:penncme@penmedicine.upenn.edu)

Please note we are unable to accept faxed registration forms.

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)

- Practicing Physicians and Industry – \$595
- Advance practice providers, physician assistants, nurses, residents, fellows and students – \$395

### Penn Medicine Rates

- Penn Medicine Practicing Physicians – \$297.50
- All other Penn Medicine Employees or Staff – \$100

Penn Medicine ID # \_\_\_\_\_

### PAYMENT METHOD

- If you are paying by credit card, please register online at <https://upenn.cloud-cme.com/ttm2019>
- If you are paying by check, you may mail your completed registration form and check made payable to **The Trustees of the University of Pennsylvania/CME** to:  
Conference Coordinator  
Penn Medicine, Office of Continuing Medical and Interprofessional Education  
150 Anatomy/Chemistry Building  
3620 Hamilton Walk, Philadelphia, PA 19104-6061
- Do not include any credit card information on the registration form or email any credit card information

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