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Penn State Hershey Life Lion Emergency Services Colloquium 2013



Cardiac Emergencies

Friday, February 8, 2013

University Conference Center
on the campus of
Penn State Milton S. Hershey Medical Center
500 University Drive
Hershey, Pennsylvania 17033

PENNSTATE HERSHEY
 College of Medicine

A continuing education service of Penn State College of Medicine

Overview

This program is a collaborative effort between Penn State Hershey Life Lion and Penn State Hershey Heart & Vascular Institute. The purpose of this educational program is to provide EMTs, paramedics, and pre-hospital registered nurses with information regarding specific cardiac emergencies including, interpretation of 12-lead, mechanical CPR devices, hypothermia following cardiac arrest, congenital heart defects, and left ventricular assist devices.

Audience

EMTs, paramedics, and pre-hospital registered nurses may benefit from attending this program.

Credit

4.5 contact hours awarded. Penn State Milton S. Hershey Medical Center, Nursing Education and Professional Development is an approved provider of continuing nursing education by PA State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

This course has been approved for 1.5 hours of pre-hospital Medical/Trauma CME for First Responders and EMTs and 4.5 hours of pre-hospital Medical/Trauma CME for paramedics, pre-hospital RNs and pre-hospital physicians.

It is our policy to ensure balance, independence, objectivity, and scientific rigor in all of our sponsored educational programs. Faculty and course directors have disclosed relevant financial relationships with commercial companies, and Penn State has a process in place to resolve any conflict of interest. Complete faculty disclosure will be provided to program participants at the beginning of the activity.

Penn State has approved this program for 0.4 Continuing Education Units (CEUs).

Fee

The fees for this program are \$29 per person for EMS providers and \$59 per person for registered nurses. These fees include instruction, handout materials, refreshment breaks, and lunch. You may pay for your registration by check, request to bill employer, or VISA, MasterCard, or American Express (AMEX).

Access

Penn State encourages persons with disabilities to participate in its programs and activities. If you anticipate needing any type of special accommodation or have questions about the physical access provided, please contact Continuing Education at least one week in advance of your participation or visit.

For More Information or to Register Online

- Call: 717-531-6483
- Email: ContinuingEd@hmc.psu.edu
- Web: pennstatehershey.org/ce

Agenda

NOTE: The bulleted items found in the program are the learner objectives for the session.

- 7:00 a.m. Registration for Emergency Challenge participants
- 7:30–8:30 **Emergency Challenge**
Jeffrey Lubin, MD, MPH*
Associate Professor of Emergency Medicine;
Division Chief, Transport Medicine,
Life Lion EMS, and Critical Care Transport
- Describe the approach to evaluating and treating a patient with a cardiac emergency
 - Identify critical actions needed to resuscitate a patient with a cardiac emergency
- 8:00 Registration for all participants
- 8:30 **Congenital Cardiology for EMS Providers**
Elizabeth Adams, DO, EMT-B*
Congenital Cardiology Fellow
Department of Medicine
- Discuss most common cyanotic congenital heart lesions—Tetralogy of Fallot, Transposition of the Great Arteries, single ventricle lesions
 - Discuss pre-hospital management of these lesions, approach to treatment, and transport
- 9:15 **Mechanical CPR Devices**
Jeffrey Lubin, MD, MPH*
- Discuss the history of cardiopulmonary resuscitation
 - Describe the cardiac pump theory and thoracic pump theory of chest compression
 - Review commercially available mechanical CPR devices
 - Analyze the current literature surrounding the use of mechanical CPR devices
- 10:00 Break
- 10:15 **Emergency Services and Left Ventricular Assist Devices: What you need to know**
Tina Kline, BSN, RN*
Mechanical Circulatory Support/ Heart Transplant Coordinator
- Identify left ventricular assist device basic indications/contraindications, components, and goals of therapy
 - Identify unique elements of emergency care and appropriate interventions with a patient who has a left ventricular assist device

- 11:00 **Hypothermia Following Cardiac Arrest: What to do in the field**
Thomas E. Terndrup, MD, FACEP, FAAEM*
Distinguished Professor and Chair of Emergency Medicine
Associate Dean for Clinical Research
- Describe the benefits achieved with induced system hypothermia (SH) after cardiac arrest
 - Discuss the specific benefits derived by pre-hospital interventions
 - Explain the future benefits of pre-hospital system hypothermia
- 11:45 Break/Participants pick up boxed lunch
- 12:00 noon **EKG Interpretation Challenges**
John M. Field, MD*
Professor of Medicine and Surgery, Division of Cardiology
- Describe ECG confounders leading to false cath lab activation
 - Explain clinical correlation of ECG confounders for rapid STEMI assessment
- 12:45 p.m. **Emergency Challenge Finals**
Jeffrey Lubin, MD, MPH*
- 1:30 Conclusion/Program Evaluation/Adjournment
- * Penn State Milton S. Hershey Medical Center, Penn State College of Medicine

Registration

Register online, by fax, or by mail. Registrations will be confirmed by email upon receipt of payment, authorization to bill, or a credit card guarantee.

If you do not receive a confirmation within two weeks, call 717-531-6483 to confirm your registration. Walk-ins and late registrations will be accepted if space is available.

Cancellation Policy

Cancellations received after February 1, 2013, will be assessed a \$25 processing fee. No refunds will be made for cancellations that are received after February 6, 2013. Substitutes are accepted at any time.

The University reserves the right to cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances.

Please provide a cell phone number so we can reach you in the event of last-minute change or cancellation. If a program is canceled or postponed, the University will refund registration fees but cannot be held responsible for any related costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies. Preregistered participants will be notified if a program is filled or canceled.

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Email Address (Print legibly. We use this for confirmation/registration status/
program materials.)

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City State Zip Code

Daytime Phone Cell Phone (for last-minute change/cancellations)

Hospital or Organization Specialty/Position

Address (HMC/COM employees—dept. name/mail code)

City State Zip Code

Special needs (dietary, access, etc.)

Choose the appropriate fee:

- \$29 per person for EMS providers
 \$59 per person for registered nurses

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