

Congress on ECMO Therapy



3rd International Conference

**Wednesday,
November 14, 2012**

Hershey® Country Club
1000 East Derry Road
Hershey, Pennsylvania 17033

A continuing education service of
Penn State Hershey Heart & Vascular Institute, Penn State Milton S. Hershey Medical
Center, and Penn State College of Medicine

Walter E. Pae Jr., MD—Chairman of
the Congress

Aly El Banayosy, MD—Course Director

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Purpose

The 3rd International Congress on ECMO Therapy is presented by Penn State College of Medicine. It is designed to discuss, define, and resolve outstanding clinical and regulatory issues related to ECMO therapy. Discussions will be led by international leaders in the field. New technology and advanced techniques for cannulation and circuitry will be presented. Unique and effective methods for managing long-term ECMO patients in the ICU will be presented as well.

Audience

Cardiothoracic surgeons; heart and lung transplant surgeons; cardiologists including interventional, acute care, heart failure, and heart transplant; cardiac and cardiothoracic fellows; pulmonologists; intensivists; cardiovascular/pulmonary/critical care anesthesiologists; nurse practitioners; physician assistants; and perfusion, nursing, and ECMO teams can benefit from attending this program.

Credit

Penn State College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Penn State College of Medicine designates this live activity for a maximum of 7.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

7.7 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.

Application has been made to the American Association for Respiratory Care (AARC) for continuing education contact hours for respiratory therapists.

Application has been made for Category 1 CEU hours by the American Board of Cardiovascular Perfusion.

Penn State has approved this program for 0.6 Continuing Education Units (CEUs).

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.

Fees

The fees for this program are \$399 per person for physicians and \$199 per person for all other participants. Fees include the cost of instruction, handouts, lunch, and break refreshments.

Registration

Register online, by fax, or by mail. Registrations will be confirmed by e-mail upon receipt of payment, authorization to bill, or a credit card guarantee. If you do not receive a confirmation within two weeks, phone 717-531-6483 to confirm. Walk-ins and late registrations can be accepted only if space is available.

Cancellation

Cancellations received later than November 7, 2012, will be assessed a \$25 processing fee. No refunds will be made for cancellations received after November 12, 2012. The University reserves the right to cancel or postpone any course. The University will refund registration fees but is not responsible for any related costs, charges, or expenses. Preregistered participants will be notified if a program is filled or canceled.

Accommodations

Accommodations are the responsibility of the participant. A block of rooms has been reserved at the *Hershey Lodge* at a rate of \$159 per room per night. To receive conference rates when making your reservation, call *Hershey Lodge* at 717-533-3311 or 800-533-3131 and mention the ECMO conference. Because rooms are available on a first-come, first-served basis, we recommend making reservations as early as possible but no later than October 12, 2012.

A list of lodging in the Hershey area is available on request or online at: pennstatehershey.org/web/guest/patientcare/patientvisitorinformation/lodging.

Program

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

7:30 a.m. Registration/Continental Breakfast

8:00 Opening Remarks

SESSION I: ECMO Overview

8:15 **ECMO: Past, Present, and Future Aspects**
Bartley P. Griffith, MD

- Review the advancements of ECMO technology and discuss the need for further research

8:30 **Inflammatory Effects of ECMO: Patient-Related/Circuit-Related**
Timothy M. Maul, PhD

- Recognize the inflammatory process which occurs in the patient receiving ECMO therapy

8:45 **Percutaneous Cannulation Aspects (VA, VV)**
Christoph E. Brehm, MD

- Discuss the strategies associated with VA and VV ECMO percutaneous cannulation

9:00 **Anticoagulation Management**
Michael H. Creer, MD

- Discuss the management of ECMO patients with no anticoagulation, low anticoagulation, and in patients with heparin-induced thrombocytopenia (HIT)

9:15 **Today's Modern ECMO Circuit: Why Smaller Is Better**
Bartley P. Griffith, MD

- Analyze the impact of the numerous elements of the present-day ECMO circuit, including oxygenator, tubing, and pumps

9:30 **Panel Discussion Session I**

- Discuss the findings presented throughout Session I

10:00 Morning Break

SESSION II: Building an ECMO Program

10:30 **Developing an ECMO Network: Why It Works**
Holly Roush, BSN, RN, CCRN

- Identify the successful elements within an ECMO network

10:45 **Intrahospital Transport of the ECMO Patient: A Team Approach**
Allana Langley, MSN, RN, CCRN

- Identify the resources and barriers associated with the intrahospital transfer of the patient receiving ECMO therapy

11:00 **Emerging ECMO Programs**
Mark J. Epler, MD
Sanjay M. Mehta, MD
Louis E. Samuels, MD
Larry L. Shears II, MD

- Referral hospitals with emerging ECMO programs discuss their success as well as barriers they have encountered and overcoming these barriers while building ECMO programs

Programs to be highlighted: Lancaster General Health, Lehigh Valley Health Network, Main Line Health, and WellSpan Health

11:45 **Panel Discussion Session II**

- Discuss the findings presented throughout Session II

12:00 noon Lunch

Psychosocial and Spiritual Support of Patients on ECMO and ECMO Patients' Perspectives
Greg Larsh, MAR, PhD

- Identify and discuss the unique psychosocial experience that being on ECMO creates for a patient's family

SESSION III: Patient Management

1:00 **Patient Selection and Pulmonary Failure and ECMO**
Christian Bermudez, MD

- Discuss factors that affect the selection of the ECMO patient in pulmonary failure

1:15 **Patient Selection and Cardiogenic Shock**
Aly El-Banayosy, MD

- Discuss factors that affect the selection of the ECMO patient in cardiogenic shock

1:30 **Monitoring and Weaning the Patient Receiving V/A ECMO**
Walter Pae Jr., MD

- Discuss factors associated with the management and weaning of the patient receiving V/A ECMO

1:45 **Monitoring and Weaning the Patient Receiving V/V ECMO**
Christoph E. Brehm, MD

- Analyze factors associated with the management and weaning of the patient receiving V/V ECMO

2:00 **Management of ECMO Complications**
Behzad Soleimani, MD

- Discuss the management of patient complications while on ECMO therapy

2:15 **Panel Discussion Session III**

- Discuss the findings presented throughout Session III

2:45 Afternoon Break

FOR MORE INFORMATION OR TO REGISTER

Call 717-531-6483, e-mail ContinuingEd@hmc.psu.edu, or visit our website at pennstatehershey.org/ce

SESSION IV: ECMO and Beyond

- 3:00** **The Nonliving Organ Donor: The Use of ECMO Therapy in Organ Allocation**
Michael M. Koerner, MD, PhD
• Discuss the use of ECMO therapy as an option in organ transplantation
- 3:15** **Unique Cases of ECMO: The Use of ECMO in Pregnancy or Polytrauma**
Edward R. Stephenson Jr., MD
• Discuss the management of the pregnant patient on ECMO therapy
• Discuss the indications and management of ECMO therapy in the trauma patient
- 3:30** **Polytechnology: Utilizing MARS & CRRT in the ECMO Patient**
Kimber Eleuteri, MSN, ACNP-BC
• Discuss the unique management and possible complications associated with utilizing molecular absorbent recirculating system and continuous renal replacement therapy
- 3:45** **The Use of ECMO Therapy in Extended Resuscitation Efforts**
Morgan Le Guen, MD
• Identify the current uses of ECMO for extended resuscitation efforts
- 4:00** **Panel Discussion Session IV**
• Discuss the findings presented throughout session IV

SESSION V: Hot Topics in ECMO Patient Management

- 4:20** **Expert Panel Discussion**
Topics include: lower limb ischemia, LV unloading, cannula selection
Panel to include:
Aly El-Banayosy, MD
Christian Bermudez, MD
Bartley P. Griffith, MD
Walter Pae Jr., MD (moderator)
• Discuss the findings presented on lower limb ischemia, left ventricular unloading, and cannula selection
- 5:15** *Program Evaluation/Adjournment*

Confirmed Faculty

Christian Bermudez, MD

Associate Director, Cardiothoracic Transplant, Division of Cardiac Surgery; University of Pittsburgh Medical Center; Assistant Professor of Surgery; University of Pittsburgh; Pittsburgh, Pennsylvania

Christoph E. Brehm, MD^{o}*

Assistant Professor of Medicine, Division of Cardiology

Aly El Banayosy, MD^{o}*

Professor of Surgery and Medicine; Medical Director, Penn State Hershey Heart and Vascular Institute Intensive Care Unit; Medical Director, Mechanical Circulatory Support; Course Director

*Michael H. Creer, MD**

Professor and Chief of Clinical Pathology; Director, Clinical Laboratory

Kimber Eleuteri, MSN, ACNP-BC^{o}*

Intensivist Team Nurse Practitioner

Mark J. Epler, MD

Cardiothoracic Surgeon, Cardiothoracic Surgeons of Lancaster General Health; Lancaster, Pennsylvania

Bartley P. Griffith, MD

Professor of Surgery; Thomas E. and Alice Marie Hales Distinguished Professor and Chief, Division of Cardiac Surgery; Director, Heart and Lung Transplantation; Co-director, UM Comprehensive Heart Center; University of Maryland Medical Center; Baltimore, Maryland

Michael M. Koerner, MD, PhD^{o}*

Professor of Medicine and Surgery, Division of Cardiology

Allana Langley, MSN, RN, CCRN^{o}*

Clinical Staff Nurse

*Greg Larsh, MAR, PhD**

Staff Chaplain

Morgan Le Guen, MD

Université Versailles-Saint Quentin
Foch Hospital
Suresnes, France

Timothy M. Maul, PhD

Research Assistant Professor; ECMO Specialist; Children's Hospital of Pittsburgh of UPMC; University of Pittsburgh; Department of Cardiothoracic Surgery; The McGowan Institute for Regenerative Medicine; Pittsburgh, Pennsylvania

Sanjay M. Mehta, MD

Staff Surgeon, Lehigh Valley Heart and Lung Surgeons; Surgical Director, Heart and Vascular Center, Lehigh Valley Hospital-Muhlenberg, Lehigh Valley Health Network, Bethlehem, Pennsylvania; Associate Professor of Surgery*

Walter E. Pae Jr., MD^{o}*

William S. Pierce Professor and Chief, Department of Surgery, Division of Cardiothoracic Surgery; Chairman of the Congress

*Holly Roush, BSN, RN, CCRN**

Practice Director^o

Louis E. Samuels, MD

Surgical Director of Heart Failure and Clinical Associate Professor of Cardiothoracic Surgery, Lankenau Medical Center; Chief of Cardiothoracic Surgery, Paoli Hospital; Private Practice; Wynnewood, Pennsylvania

Larry L. Shears II, MD

Cardiothoracic Surgeon, WellSpan Cardiothoracic Surgery; York, Pennsylvania

Behzad Soleimani, MD^{o}*

Assistant Professor of Surgery, Division of Cardiothoracic Surgery

Edward R. Stephenson Jr., MD^{o}*

Assistant Professor of Surgery, Division of Cardiothoracic Surgery

^o Penn State Hershey Heart & Vascular Institute

* Penn State Milton S. Hershey Medical Center, Penn State College of Medicine, Hershey, Pennsylvania

Third International Congress on ECMO Therapy

November 14, 2012 • E5178-13-Y

Enrollment is limited. Register online, by fax, or by mail. If you do not receive a confirmation from Penn State at your home address within two weeks, please call to confirm. Late registrations accepted only if space is available. Please provide both daytime and evening phone numbers so we can contact you should last-minute changes occur.

Name (first name, MI, last name) Degree(s)/Credential(s)

E-mail Address (Print legibly. Used for confirmation, registration status, and program materials.)

Home Address Male Female

City State Zip Code

Daytime Phone Evening Phone Fax Number

Hospital/Organization Specialty/Position

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

City State Zip Code

Special Needs (dietary, access, etc.)

Check appropriate fee:

- Physicians, \$399 per person
- All other participants, \$199 per person

Method of payment:

- Check enclosed payable to Penn State.
- Bill sponsoring organization. **Attach a letter of authorization.**
- HMC/COM employees' fees: same as above. Bill department budget. Cost center/budget #:

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