

Saturday, October 19, 2013

Congress on **ECMO** Therapy

4th International Conference

ALY EL-BANAYOSY, MD
Chairman of the Congress

Course Director
CHRISTOPH BREHM, MD



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325 University Drive
Hershey, PA 17033

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

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Purpose

The 4th International Congress on ECMO Therapy is presented by Penn State College of Medicine.

- ▶ This program 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 technologies and advanced techniques for cannulation and circuitry will be presented
- ▶ Explore unique and effective methods for managing long-term ECMO patients in the ICU

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

- ▶ **7.5 AMA PRA Category 1 Credit(s)[™]**
- ▶ **PAs, NPs, and many RNs can use AMA credits for professional continuing education requirements**
- ▶ **Approved for 7.45 contact hours Continuing Respiratory Care Education (CRCE) credit**
- ▶ **Approved for 9.0 Category 1 CEU hours by the American Board of Cardiovascular Perfusion**

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 7.5 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

PAs, NPs, and many RNs can use AMA credits for professional continuing education requirements. Check with your professional board if you have any questions.

This program has been approved for 7.45 contact hours Continuing Respiratory Care Education (CRCE) credit by the American Association for Respiratory Care, 9425 North MacArthur Blvd Suite 100 Irving TX 75063.

This program has been approved for 9.0 Category 1 CEU hours by the American Board of Cardiovascular Perfusion.

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.



Faculty

Matthew Bacchetta, MD, MBA, MA

Assistant Professor of Surgery, Division of Thoracic Surgery
Columbia University College of Physicians & Surgeons
Director, Adult Extracorporeal Membrane Oxygenation Program
New York Presbyterian Hospital/Columbia University Medical Center
New York, NY

Christian Bermudez, MD

Associate Professor of Cardiothoracic Surgery
Chief, Division of Cardiothoracic Transplantation
Surgical Director, ECMO Program
University of Pittsburgh Medical Center
Pittsburgh, Pennsylvania

Christoph Brehm, MD^o*

Assistant Professor of Medicine, Division of Cardiology
Intensive Care Unit

Vikki Cicchillo, RN, BS, CCRN^o

Staff Nurse

Michael H. Creer, MD*

Professor and Chief of Clinical Pathology
Director, Clinical Laboratory

Steven A. Conrad, MD, PhD, FCCM

Professor of Medicine, Emergency Medicine
Director, Critical Care Medicine
Director, ECLS Service
Louisiana State University Health Sciences Center
Shreveport, Louisiana

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

Jackie Gordon, CNS, CCRN, MSN^o

Clinical Nurse Specialist

Christopher K. Gordon, CRNP^o

Nurse Practitioner

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

Kane M High, MD*

Associate Professor
Director, Cardiac & Vascular Anesthesia

Morgan Le Guen

Researcher
Université de Versailles Saint Quentin
Anesthesiology, Foch Hospital
Versailles, France

Nader Moazami, MD

Surgical Director of the Kaufman Center for Heart
Transplantation and Mechanical Circulatory Support
Staff Surgeon, Department of Thoracic and Cardiovascular Surgery
The Department of Biomedical Engineering
Lerner Institute of Research Cleveland Clinic
Cleveland, Ohio

Joseph G. Rogers, MD

Associate Professor of Medicine, Division of Cardiology
Duke University School of Medicine
Durham, North Carolina

Holly Roush, BSN, RN, CCRN^o

Practice Director

Christof Schmid, MD

Head of the Department of Cardiothoracic Surgery
University Hospital Regensburg
Regensburg, Germany

Christopher Stark, DO^o*

Assistant Professor, Emergency Department
Medical Director

Yoshiya Toyoda, MD, PhD

Professor of Surgery
Vice Chief, Cardiovascular Surgery
Surgical Director, Heart and Lung Transplantation
Director, Mechanical Circulatory Support
Temple University
Philadelphia, Pennsylvania

Patti A. Wengert, MHA, RN, BSN^o

Director of Nursing/Operations

Margaret M Wojnar, MD*

Professor of Medicine, Division of Pulmonary,
Allergy, and Critical Care Medicine

Karl Woitas, CCP^o

Perfusionist

^o Penn State Hershey Heart & Vascular Institute

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

Why not come
a day early and
attend...



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General Information

Call 717-531-6483
Email ContinuingEd@hmc.psu.edu

Register Today!

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hvcontinuinged](http://pennstatehershey.org/hvcontinuinged)

OBJECTIVES

- ▶ Discuss the use of ECMO therapy in extended resuscitation efforts in and out of the hospital as well as identify the potential ethical issues associated with the use of ECMO therapy in extended resuscitation
- ▶ Distinguish the roles of each member of an inter-professional collaborative practice intensivist team in the management of an ECMO patient
- ▶ Discuss the factors associated with ECMO patient selection and management for the patient in cardiogenic shock
- ▶ Identify factors associated with ECMO therapy and its use in patients with lung transplantation
- ▶ Discuss the factors associated with ECMO patient selection and management for the patient in acute respiratory failure

Program

7:30 a.m. Registration

8:00 Opening Remarks

SESSION I:

8:15 Update from the ELSO Registry
Steven Conrad, MD, PhD, FCCM

8:35 Patient Selection
Aly El-Banayosy, MD

8:55 Anti-Coagulation Management in ECMO Therapy
Michael H. Creer, MD

9:15 Traumatic Soldiers' Injuries and ECMO
Christof Schmid, MD

9:35 Technology Update:
Future Requests from the Industry
Bartley P. Griffith, MD

9:55 Session I Panel Discussion

10:20 Morning Break

SESSION II:

INTER-PROFESSIONAL—APPROACH TO ECMO PATIENT MANAGEMENT

10:45 The Building Blocks of an ECMO Program

- Intensivist—*Kane M. High, MD*
- Nurse Practitioner—*Christopher Gordon, CRNP*
- Perfusion—*Karl Woitas, CCP*
- Nursing—*Jackie Gordon, CNS, CCRN, MSN*
Vikki Cicchillo, RN, BS, CCRN
- Administrative/Financial—*Holly Roush, BSN, RN, CCRN*
Patti A. Wengert, MHA, RN, BSN

Noon Session II Panel Discussion

12:30 Lunch (no lecture)



SESSION III A:

THE USE OF ECMO WITH ONGOING RESUSCITATION EFFORTS

- 1:30 Resuscitation Efforts In and Out of the Hospital
Morgan Le Guen
- 1:50 ECMO in the Emergency Department
Christopher Stark, DO
- 2:10 The Use of ECMO Therapy in Organ Donation
Michael M. Koerner, MD, PhD
- 2:30 Ethical Discussion Regarding the Use of ECMO in Organ Donation/Panel Discussion
Speaker TBA
- 3:20 Afternoon Break

SESSION III B:

PATIENT MANAGEMENT—PULMONARY FAILURE

- 1:30 The Latest Updates in the Medical Management of ARDS
Margaret M. Wojnar, MD
- 1:50 The Use of a Double Lumen Catheter in the Management in the Patient with ARDS
Christian Bermudez, MD
- 2:10 Double Lumen Catheter Placement Strategies (video) *Christoph E. Brehm, MD*
- 2:30 CO₂ Elimination
Matthew Bachetta, MD
- 2:50 Session III B Panel Discussion
- 3:20 Afternoon Break

SESSION IV A:

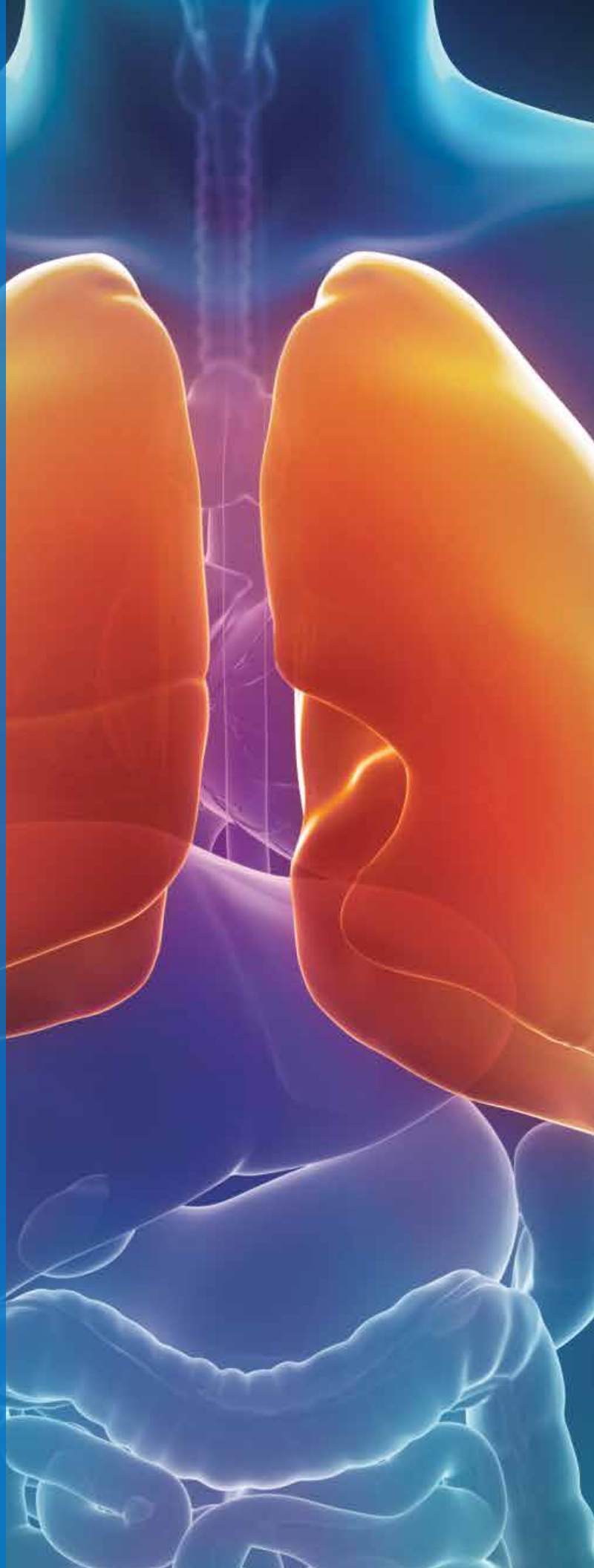
PATIENT MANAGEMENT—CARDIOGENIC SHOCK

- 3:40 INTERMACS 1 and Beyond
Joseph Rogers, MD
- 4:00 Predictors of Survival in Those with A/V ECMO
Nader Moazami, MD
- 4:20 Case Presentations
- Canulation Issues
 - Left Ventricular Unloading
- 5:00 Session IV A Panel Discussion

SESSION IV B:

PATIENT MANAGEMENT—LUNG TRANSPLANT

- 3:40 ECMO as a Bridge to Lung Transplant: What is Next?
Christian Bermudez, MD
- 4:00 The Latest in Lung Transplant
Yoshiya Toyoda, MD
- 4:20 Pulmonary Case Presentation
- 5:00 Session IV B Panel Discussion
- 5:30 Closing Remarks/Program Adjournment



Join us in Hershey

Hershey is conveniently located in central Pennsylvania, just 90 minutes from Baltimore and Philadelphia, two hours from Washington, DC, and three hours from New York City. Come and visit the town that has been named, "the sweetest place on earth."

There are many attractions in a close radius, including:

- HersheyPark
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- Hotel Hershey and its Chocolate Spa
- Antique Automobile Club of America Museum
- PA State Capital of Harrisburg
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- Historic Gettysburg
- ...and more!



For additional information about Hershey, PA, please visit HersheyPA.com or call 1-800-HERSHEY (437-7439)

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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 Sept. 17, 2013.

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

Fees

ECMO October 19

▶ \$399 Physician ▶ \$199 Others

If attending both:

DIMENSIONS and ECMO October 18-19

▶ \$599 Physician ▶ \$349 Others

Fees include the cost of instruction, handouts, break refreshments and lunch.

Cancellation

Cancellations received later than October 11, 2013

will incur a \$25 processing fee.

No refunds

After October 16, 2013

Substitutes are accepted at any time.

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.

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, phone 717-531-6483 to confirm. Walk-ins and late registrations can be accepted only if space is available.

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Congress on **ECMO** Therapy

4th International Conference • J5228-14-Y

Name (First Name, MI, Last Name)

☐ Male ☐ Female

Degree(s)/Credential(s)

Email (Print legibly. Used for confirmation, registration status, and program materials.)

Home Address

City

State

Zip Code

Cell Phone (Last-minute change/cancellation only)

Daytime Phone

Evening Phone

Hospital/Organization

Specialty/Position

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

City

State

Zip Code

Special Needs (Dietary, access, etc.)

► **ECMO:**

☐ \$399 Physician ☐ \$199 Others

► **Both DIMENSIONS and ECMO:**

☐ \$599 Physician ☐ \$349 Others

**Choose one from each
afternoon session:**

Session III

- ☐ A Use of ECMO with Ongoing Resuscitation Efforts
☐ B Patient Management—Pulmonary Failure

Session IV

- ☐ A Patient Management—Cardiogenic Shock
☐ B Patient Management—Lung Transplant

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

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ECMO Therapy

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Optional Hands-On Lab

This lab is intended to train experienced teams on percutaneous cannulators in specific skills required to safely insert large ECMO cannulae and minimize bleeding and leg ischemia.

OBJECTIVES

- Demonstrate methods to safely insert large ECMO cannulae and minimize bleeding and leg ischemia
- Apply ECMO therapy to the cardiogenic shock patient
- Demonstrate hemodynamic management using ECMO therapy and inotropic support

Fee

\$1500 per person

Group Rate (four+)
\$1000 per person

Program

Noon	Registration at HERSHEY LODGE® and Convention Center
12:30	Transition to Lab at the Milton S. Hershey Medical Center
12:45	Lab
1:45	Break
2:00	Lab
3:30	Evaluation and Adjournment

Participants will perform the following under supervision:

1. Arterial Cannulation
2. Venous Cannulation
3. Antegrade Cannulation of the Femoral Artery on a Simulator
 - Create a Circulatory Support Model
 - Start with ECMO
 - Demonstrate the Challenges on Different Hemodynamic Parameters on Full Support and 50% ECMO Support
 - Arterial
 - Central Venous Pressure
 - Left atrial Pressure
 - Left Ventricular Pressure
 - Pulmonary Artery Pressure
 - Mixed Venous Saturation
4. Induced Cardiogenic Shock Hemodynamic Management on Animal Model
5. Apply Inotropic Support to Assist Left Ventricular Unloading

