UPMC Adult ECMO Review and Training Course
September 7 – 8, 2012
University Club and UPMC Biomedical Science Tower South • Pittsburgh, Pennsylvania

Sponsored by:
University of Pittsburgh School of Medicine
Center for Continuing Education in the Health Sciences and Department of Cardiothoracic Surgery and Critical Care Medicine

For additional information, contact:
Lauren Wilson
email: wilsonle@upmc.edu

Course Directors
Christian A. Bermudez, MD
Assistant Professor, Cardiothoracic Surgery
Division Chief, Cardiothoracic Transplantation
Surgical Director, ECMO Program

Penny Lynn Sappington, MD
Assistant Professor, Critical Care Medicine
Medical Director, ECMO Program

Peter D. Wearden, MD, PhD
Assistant Professor, Pediatric Cardiac Surgery
Director, Pediatric Mechanical Cardiopulmonary Support

Visiting Faculty
Matthew Bacchetta, MD
Assistant Professor of Surgery,
Division of Cardiothoracic Surgery
Columbia University Medical Center
Director, Adult Extracorporeal Membrane Oxygenation Program
Director, Pulmonary Thromboendarterectomy
New York Presbyterian Hospital/ Columbia University Medical Center
New York, NY

Aly El Banayosy, MD
Professor of Medicine and Surgery
Director of Heart and Vascular ICU
Program Director of Mechanical Circulatory Support
Penn State Hershey Medical Center
Hershey, PA
Intent and Objectives

The two-day program will consist of a series of lectures as well as a wet lab on day two. Experts on the subject will present technical aspects on use of extra corporeal membrane oxygenation along with risks, benefits, and outcomes.

Who Should Attend

This course is designed for 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/cardiac care anesthesiologists; nurse practitioners; physician assistants; and perfusion, nursing and ECMO teams as well as allied health care professionals (RN, PA, NP).

Continuing Education Credit

The University of Pittsburgh School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of **13.75 AMA PRA Category 1 Credits™**. Each physician should only claim credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded **1.3** continuing education units (CEU’s) which are equal to **13.75** contact hours.

Meeting Locations

**The University Club**
123 University Place
Pittsburgh, PA 15260
Phone: (412) 648-8213

**Thomas E. Starzl Biomedical Science Tower**
203 Lothrop Street
Rooms: S100 A and S123
Pittsburgh, PA 15213

Accommodations

For hotel reservations, contact the Hilton Garden Inn–University Place Hotel and ask for the UPMC Cardiothoracic Surgery Department – ECMO Course room block before **Friday, August 24, 2012** or go to this link to book your room: [http://tinyurl.com/DEPTOFCARDIOTHORACECMO](http://tinyurl.com/DEPTOFCARDIOTHORACECMO).

Hilton Garden Inn – University Place
University Place, 3454 Forbes Avenue
Pittsburgh, PA 15213
Phone: (412) 683-2040
Schedule ~ Friday, September 7, 2012 (at University Club)

7:30 am  Registration and Breakfast

8:00 am  Introduction and Welcome
Arthur J. Boujoukos, MD

8:25 am  Historical Perspective of ECMO Support
Harvey Borovetz, MD

8:50 am  Establishing an ECMO Program: The Columbia University Experience
Matthew Bacchetta, MD

9:15 am  ECMO at UPMC: Program Overview
Christian A. Bermudez, MD

9:40 am  Pediatric ECMO Support at Children's Hospital: 30 Years After
Peter Wearden, MD, PhD

10:05 am  BREAK

ECMO Use in Advanced Respiratory Failure

10:15 am  ECMO Use in Patients with Adult Respiratory Distress Syndrome (ARDS), Including H1N1 and Other Infections
Penny Lynn Sappington, MD

10:40 am  ECMO in Lung Transplantation: Bridge to Transplant and Primary Graft Dysfunction
Christian A. Bermudez, MD

11:05 am  Ambulatory ECMO: Myth or Reality
Matthew Bacchetta, MD

11:30 am  Panel Discussion
Penny Lynn Sappington, MD; Christian A. Bermudez, MD; and Matthew Bacchetta, MD

11:55 am  BREAK

ECMO in Acute Cardiac Failure

12:05 pm  How Do We Manage, Select and Support Patients in Cardiogenic Shock?
Aly El Banayosy, MD

12:30 pm  Use of Percutaneous Assist Devices in Cardiogenic Shock
Suresh Mulukutla, MD

12:50 pm  Outcomes of ECMO Support as a Bridge to Decision or Bridge to a More Permanent Support System
Christian A. Bermudez, MD

1:10 pm  Panel Discussion
Aly El Banayosy, MD; Suresh Mulukutla, MD; and Christian A. Bermudez, MD

1:45 pm  LUNCH

An Integrated Approach for Patient Care on ECMO Support

2:30 pm  Physician’s Perspective: Management and Complication Prevention
Aly El Banayosy, MD

2:55 pm  Nursing Perspective: Dealing with Patient from Head to Toe
Janet Hadricky, RN

3:20 pm  Perfusionist Perspective: System Management and Replacement
Peter Arlia, BS, CCP, LP

3:45 pm  Anticoagulation on ECMO Support and Thromboembolic Complications
Penny Lynn Sappington, MD

4:10 pm  Panel Discussion
Aly El Banayosy, MD; Janet Hadricky, RN; Peter Arlia, BS, CCP, LP; and Penny Lynn Sappington, MD

4:35 pm  BREAK

3:20 pm  Perfusionist Perspective: System Management and Replacement
Peter Arlia, BS, CCP, LP
4:45 pm  ECMO Case Presentations (3)  
Penny Lynn Sappington, MD and Christian A. Bermudez, MD

5:45 pm  Friday Adjournment

6:15 pm  Technology Displays and Exhibitor Fair (University Club)

7:30 pm  Conference Dinner (University Club)

Schedule ~ Saturday, September 8, 2012 (at University Club)

7:30 am  Registration and Breakfast

Technical Considerations

8:00 am  Technology Updates: The Latest on Pumps, Oxygenators, and Cannulas  
Jay K. Bhama, MD

8:25 am  Biological Response to ECMO: Getting a Handle on Inflammation and Coagulation  
Timothy M. Maul, PhD

8:50 am  Cannulation Techniques  
Jay K. Bhama, MD

9:15 am  Setting up an ECMO System and Trouble Shooting  
Peter Arlia, BS, CCP, LP

9:40 am  Concomitant Procedures While on ECMO Support  
Penny Lynn Sappington, MD

10:05 am  Panel Discussion  
Jay K. Bhama, MD; Timothy M. Maul, PhD; Peter Arlia, BS, CCP, LP; and Penny Lynn Sappington, MD

10:20 am  BREAK  
(at Biomedical Science Tower)

10:30 am – Break-out Session – Wet Laboratory
1:30 pm  Set up and Troubleshooting of Different ECMO Systems

1:30 pm  Course Adjournment
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Medical Director, ECMO Program

Peter D. Wearden, MD, PhD  
Assistant Professor, Pediatric Cardiac Surgery  
Director Pediatric Mechanical Cardiopulmonary Support

UPMC Faculty

Peter Arlia, BS, CCP, LP  
Staff Perfusionist

Jay K. Bhama, MD  
Assistant Professor of Cardiothoracic Surgery  
Associate Director, Artificial Heart Program  
Associate Director, Lung & Heart/Lung Transplantation

Harvey Borovetz, PhD  
Distinguished Professor and Chair, Department of Bioengineering  
Robert L Hardesty Professor of Surgery, University of Pittsburgh

Arthur J. Boujoukos, MD  
Clinical Vice Chair, Department of Critical Care Medicine  
Medical Director, Cardiothoracic ICU, UPMC Presbyterian  
Professor, Department of Critical Care Medicine

Janet Handricky, RN  
Critical Care Nurse Clinician, CTICU

Timothy M. Maul, PhD  
Research Assistant Professor, University of Pittsburgh  
EXMO/VAD Specialist, Children’s Hospital of Pittsburgh of UPMC

Suresh Mulukutla, MD  
Assistant Professor, Medicine & Epidemiology  
Director, HVI Center for Quality, Outcomes, and Clinical Research  
Associate Director, UPMC Provider Analytics  
Director, Interventional Cardiology

Visiting Faculty

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Columbia University Medical Center  
New York, NY

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Penn State Hershey Medical Center  
Hershey, PA

Faculty are affiliated with the University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, unless noted otherwise.

In accordance with Accreditation Council for Continuing Medical Education requirements on disclosure, information about relationships of presenters with commercial interests (if any) will be included in materials distributed at the time of the conference.

Registration Information

Registration for this course will be accepted as long as space is available, so register early. Registering online is the quickest and easiest way to reserve your space at this conference:

1. Visit our online registration site at: https://ccews.upmc.com/liveFormalCourses.jsf
2. Scroll down to “Sep 7, 2012 – UPMC Adult ECMO Review and Training Course”
3. Click the Registration button and enter all the requested information.
4. After registering, an electronic confirmation will be sent to the email address you provided during registration.

Please note: Registration is not complete until you receive the confirmation email. If you do not receive this email within 5-7 days of registration, please contact us at (412) 648-6342.

You must bring this confirmation with you to the conference.

Registration by Fax or Postal Mail

If you are unable to register online, please contact Lauren Wilson at (412) 648-6342 or wilsonle@upmc.edu to request a paper registration form. Registration forms must be received no later than Friday, August 24, 2012.

Registration is not accepted without payment.

Cancellation

All cancellations must be in writing and sent to us via U.S. mail, email or fax (see contact information below). Tuition for cancellations postmarked or date stamped before August 24, 2012 will be refunded in full. After August 24, 2012, a $35 administrative fee will be assessed, the remaining amount refunded, and no refunds will be made after August 30, 2012. Cancellation requests can be sent to:

Lauren Wilson  
UPMC Presbyterian  
The Department of Cardiothoracic Surgery  
200 Lothrop Street, Suite C-700 • Pittsburgh, PA 15213  
Phone: (412) 648-6342 • Fax: (412) 692-2184  
Email: wilsonle@upmc.edu

The UPMC Center for Continuing Education in the Health Sciences reserves the right to cancel this program if sufficient registrations are not received. In the case of cancellation, the department will fully refund registration fees.
Registration Fees

$100 Outside physicians
$75 Outside residents, nurses, and other health care professionals
Fee Waived for all UPMC Employees

Registration fee includes:
• Continuing education credit
• Registration and course materials
• Continental breakfast, refreshments, lunch and course dinner

Conference Dinner (optional) — Friday, September 7, 2012
University Club • 123 University Place • Pittsburgh, PA 15260 • (412) 648-8213
• Technology Display and Exhibitor Fair: 6:15 pm – 7:30 pm
• Course Dinner: 7:30 pm
Please RSVP for Course Dinner when registering.

For Additional Information, Contact:
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Special Needs

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs by August 24, 2012 by calling (412) 648-6342.

Visit the Center for Continuing Education in the Health Sciences Web Site

Our Internet address is: https://ccehs.upmc.com

The UPMC Center for Continuing Education in the Health Sciences invites you to visit our web location. Receive information on CE programs, earn CE credits on the Internet, and access information about our formal courses and much more. Discover who we are and how you can contact us. Please visit our web location often to get updated information on upcoming programs.

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