



Register online at [uab.edu/ECLS](http://uab.edu/ECLS)

For more information: 205-934-5548  
or [rpholt@uabmc.edu](mailto:rpholt@uabmc.edu)

University of Alabama at Birmingham

## 2018 Extracorporeal Life Support (ECLS) Symposium

February 16-17, 2018

Grand Bohemian Hotel  
Mountain Brook Ballroom I & II

2655 Lane Park Road  
Birmingham, AL 35223

### SPONSORED BY:

UAB Department of Medicine; UAB Division of Pulmonary, Allergy, & Critical Care Medicine; UAB Division of Cardiothoracic Surgery; UAB Mechanical Circulatory Support Program; UAB Comprehensive Transplant Institute; UAB Office of Interprofessional Simulation; and Mallinckrodt Pharmaceuticals

## AGENDA – Friday, February 16, 2018

7:30–8:00 am **Registration & Breakfast**  
(Lobby and Mountain Brook Ballroom I & II)

8:00–8:05 am **Welcome/Opening Remarks**  
Keith Wille, MD

8:05–8:30 am **ECLS: Overview of the UAB Program and Models for Staffing**  
Peggy Blood, RN, MSN, and Bobby Reed, MHS

8:30–8:55 am **ECLS: The Basic Components**  
Jessica Bryant, RN

### *Session 1: Pediatric ECLS*

8:55–9:25 am **Pediatric ECLS Support: Children's of Alabama Experience**  
Joey Timpa, CCP  
Children's of Alabama ECMO Coordinator

9:25–9:50 am **ECLS in Patients with Congenital Heart Failure**  
David Mauchley, MD

9:50–10:10 am **ECLS Case Presentation: Pediatric**  
Carlisle O'Meara, CCP, Children's of Alabama

10:10–10:20 am **Panel Discussion/Question & Answer Session**

10:20–10:35 am **Break**

### *Session 2: ECLS in Advanced Respiratory Failure*

10:35–11:00 am **ECLS in Patients with Acute Respiratory Distress Syndrome (ARDS)**  
Vincent Valentine, MD

11:00–11:25 am **ECLS Regenerative Recovery Model**  
Keith Wille, MD

11:25–11:50 am **Pulmonary Embolic Disease and Pulmonary Hypertension**  
Charles Hoopes, MD

11:50–Noon **Panel Discussion / Question & Answer Session**

Noon–1:00 pm **Lunch**

### *Session 3: ECLS in Acute Cardiac Failure*

1:00–1:25 pm **ECLS vs. Other Mechanical Circulatory Support Systems in Acute Cardiogenic Shock**  
Jose Tallaj, MD

1:25–1:50 pm **ECLS in Patients with Acute Myocardial Infarction**  
Mohammad Sarraf, MD

1:50–2:15 pm **ECLS in Patients with Cardiogenic Shock: Fatality, Bridging, Recovery, Outcomes, and Cannulation Techniques and Strategies**  
Charles Hoopes, MD

2:15–2:25 pm **Panel Discussion / Question & Answer Session**

2:25–2:45 pm **Break**

### *Session 4: Caring for the Patient on ECLS*

2:45–3:30 pm **Physician Perspective: Management, Complications, and Prevention**  
Nirmal Sharma, MD, Division of Pulmonary, University of South Florida

3:30–3:55 pm **Nursing Perspective: Caring for the Patient**  
Daniel Blackwell, RN

3:55–4:20 pm **Perfusionist Perspective: System Management, Monitoring, and Replacement**  
Robert Ledbetter, CCP

4:20–4:30 pm **Panel Discussion/Question & Answer Session**

4:30–5:00 pm **Debate: Ambulatory vs. Non-Ambulatory ECLS**

5:00 pm **Adjourn**

5:30–7:00 pm **Reception/Meet & Greet (Billiard and Private Dining Room)**

7:00–9:00 pm **Symposium Dinner (Mountain Brook Ballroom I & II)**

## AGENDA – Saturday, February 17, 2018

7:30–8:00 am **Registration & Breakfast**  
(Lobby and Mountain Brook Ballroom I & II)

8:00–8:05 am **Welcome/Opening Remarks**  
Keith Wille, MD

8:05–8:30 am **Public Health Mission: Integrated Models of ECLS**  
Charles Hoopes, MD

8:30–8:50 am **Ground and Air Transport for Patients on ECLS**  
Britt McIlwain, CCP

8:50–9:15 am **Performing Concomitant Procedures While on ECLS**  
Mat Tyndal, CCP

9:15–10:15 am **Keynote Speaker: History of ECLS and Development of Current Cannulation Strategies**  
**The Absence of Evidence Base in Innovation**  
Joseph Zwischenberger, MD, FACS  
Johnston-Wright Professor  
Chair, Department of Surgery  
University of Kentucky College of Medicine

10:15–10:30 am **Break**

10:30–10:45 am **ECLS Case Presentation: Respiratory**  
Vincent Valentine, MD, and Keith Wille, MD

10:45–11:00 am **ECLS Case Presentation: Cardiac**  
Samuel McElwee, MD

11:00–11:10 am **Panel Discussion/Question & Answer Session**

11:10–11:20 am **Break**

11:20–11:45 am **Troubleshooting Different ECLS Systems**  
*Practical Application*

11:45 am–12:10 pm **ECLS System Setup and Troubleshooting**  
*Practical Application*

12:10–2:00 pm **ECLS Simulation Lab (UAB Jefferson Tower)**

2:00 pm **Adjourn**

## SPEAKER SPOTLIGHT



**Joseph Zwischenberger, MD, FACS**

Chair, Department of Surgery  
Johnston-Wright Professor  
University of Kentucky,  
College of Medicine

Joseph Zwischenberger, MD, received his Bachelor of Science and medical degree from the University of Kentucky in Lexington. Following a cardiothoracic and general surgery residency at the University of Michigan in Ann Arbor, he completed a clinical associate fellowship under Andrew Morrow, MD, in the Cardiac Division of the National Heart, Lung, and Blood Institute (NHLBI) at the National Institutes of Health (NIH) in Bethesda, Maryland. In addition, he completed an extracorporeal membrane oxygenation (ECMO)/critical care fellowship in the Section of General Surgery at the University of Michigan in Ann Arbor.

Prior to returning to the University of Kentucky, Dr. Zwischenberger was a faculty member and served as director of ECMO at the University of Texas Medical Branch (UTMB) in Galveston. He is certified by the American Board of Thoracic Surgery and the American Board of Surgery in Surgical Critical Care. His research interests are largely focused on the development of the artificial lung, and he holds two related patents.

## FACULTY

### UAB FACULTY:

**Keith Wille, MD**

Medical Director, Adult ECMO and Advanced Lung Disease  
Division of Pulmonary, Allergy, and Critical Care Medicine  
Professor

**Vincent Valentine, MD**

Medical Director, Lung Transplantation  
Division of Pulmonary, Allergy, and Critical Care Medicine  
Professor

**Charles Hoopes, MD**

Surgical Director, Mechanical Circulatory Support Program  
Division of Cardiothoracic Surgery  
Professor

**David Mauchley, MD**

Division of Cardiothoracic Surgery  
Assistant Professor

**Jose Tallaj, MD**

Division of Cardiovascular Disease  
Professor

**Mohammad Sarraf, MD**

Division of Cardiovascular Disease  
Associate Professor

**Samuel McElwee, MD**

Cardiology, Pulmonary, and Critical Care Fellow

**Marjorie White, MD, MA, MPPM**

Director, Office of Interprofessional Simulation  
Associate Professor

**Robert Reed, MHS**

Senior Director, Perioperative Services

**Rachel Schwartz, CCP**

Manager, Cardiovascular Perfusion  
Perioperative Services

**Britt McIlwain, CCP**

Perioperative Services

**Robert Ledbetter, CCP**

Perioperative Services

**Mat Tyndal, CCP**

Perioperative Services

**Peggy Blood, MSN, RN**

Nurse Manager, MCS  
Perioperative Services

**Daniel Blackwell, RN**

Perioperative Services

**Jessica Bryant, RN**

Perioperative Services

### GUEST FACULTY:

**Joey Timpa, CCP, FPP**

Perfusion Manager  
Perioperative Services  
Children's of Alabama

**Nirmal Sharma, MD**

Division of Pulmonary, Critical Care, and Sleep Medicine  
Assistant Professor  
University of South Florida, College of Medicine

**Carlisle O'Meara, CCP, FPP**

Perioperative Services  
Children's of Alabama

## SYMPOSIUM REGISTRATION

Register online at [uab.edu/ECLS](http://uab.edu/ECLS)

Online registration ends Jan. 30, 2018, at 5:00 pm

Physicians & surgeons - \$100

Fellows, nurses, RTs & perfusionists - \$60

Dinner on Friday, Feb. 16, at 7:00 pm - \$40 (*Additional guests \$40/person*)

Immersive simulation on Saturday, Feb. 17 at 2:00 pm - \$60 (*Limited space*)

## HOTEL RESERVATIONS

**Grand Bohemian Hotel**

2655 Lane Park Road  
Mountain Brook, AL 35223  
USA

**Group code for discounted hotel rate: W14**

To reserve a room, call (205) 414-0505 or visit  
[grandbohemianmountainbrook.com](http://grandbohemianmountainbrook.com)



## LEARNING OBJECTIVES

After participating in this CME activity, participants will be able to:

1. Describe the indications, contraindications, and selection guidelines for ECLS
2. Explain the physiology and mechanics of ECLS
3. Discuss the process of establishing an ECLS program and the UAB ECLS staffing model
4. Explain ground and air transportation for patients on ECLS
5. Describe physician management, complications, and complication prevention in the ECLS patient
6. Describe nursing care for the ECLS patient
7. Describe perfusion management, monitoring, and replacement therapy in the ECLS patient
8. Recognize patients with acute respiratory failure and acute heart failure who are likely to benefit from ECLS
9. Explain ECLS compared to other mechanical support systems in treating cardiogenic shock and acute myocardial infarction
10. Describe the use of ECLS in patients awaiting lung and/or heart transplantation
11. Demonstrate the use of ECLS in patients with acute respiratory distress syndrome (ARDS)
12. Discuss ECLS as a bridge to a more permanent support system
13. Identify newer technologies for long-term respiratory and cardiac support

## ACCREDITATION

The University of Alabama School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The University of Alabama School of Medicine designates this live activity for a *maximum 13 AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Board of Cardiovascular Perfusion has allotted a *maximum 16.5 Category 1 CEUs* for attending this event. Nursing Continuing Education credits have been applied for. The Extracorporeal Life Support Organization approves this event.

The University of Alabama School of Medicine is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable, and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of ethnicity, gender, faith, gender identity and expression, and sexual orientation.

## TARGET AUDIENCE

This activity is designed for pulmonologists, cardiologists, and critical care physicians as well as fellows, nurses, respiratory therapists, and perfusionists wanting to increase their knowledge and skills in the management and treatment of patients using extracorporeal life support (ECLS).

**For more information on the UAB ECMO Program:**

[uabmedicine.org/referECMO](http://uabmedicine.org/referECMO)