



AGENDA

Friday, October 4, 2019

7:30 – 8:00 AM Registration and Breakfast

8:00 – 8:10 AM Welcome

Christian A. Bermudez, MD, Penn Course Director

Kasia Hryniewicz, MD, ELSO Course Director

GENERAL ECLS INTRODUCTION

Moderators: Christian Bermudez, MD, Kasia Hryniewicz, MD

8:10 – 8:25 AM Overview of Current ECLS Circuit (Pumps and Oxygenators)

Justin Sleasman

8:25 – 8:40 AM Physiology in Venous-Arterial ECLS Support

Daniel Burkhoff, MD, PhD

8:40 – 8:55 AM Current Indications and Contraindications of Venous-Arterial ECLS

Jacob Gutsche, MD

8:55 – 9:05 AM Unusual ECLS Indications – Sepsis

Cara Agerstrand, MD

9:05 – 9:15 AM Unusual ECLS Indications – Pulmonary Embolism

Taisei Kobayashi, MD

9:15 – 9:30 AM Case Discussion: Current Status of ECLS and TCS. Considerations and Current Gaps in Knowledge

Michael McMullan, MD

9:30 – 9:45 AM The Impact of ECLS on Patients with Advanced Cardiopulmonary Disease: Patient Perspective

ECMO and timely intervention for shock; a patient perspective. Patient TBD

9:45 – 10:05 AM Keynote Speaker

The Evolution of Extracorporeal Cardiopulmonary Resuscitation

Robert Bartlett, MD

10:05 – 10:20 AM Panel Discussion with Q&A

Panel: Christian Bermudez, MD, Kasia Hryniewicz, MD, Justin Sleasman,

Daniel Burkhoff, MD, PhD, Jacob Gutsche, MD, Cara Agerstrand, MD,

Michael McMullan, MD, Robert Bartlett, MD, Taisei Kobayashi, MD

10:20 – 10:40 AM Coffee Break

GENERAL TCS INTRODUCTION

Moderators: Saif Anwaruddin, MD, Karol Mudy, MD, Matthew Williams, MD

10:40 – 10:55 AM Physiology and Staging of Cardiogenic Shock

David Baran, MD

10:55 – 11:10 AM Overview of Current Temporary Right Ventricular Assist Devices

Edo Birati, MD

11:10 – 11:25 AM Overview of Current Temporary Left Ventricular Assist Devices

Saif Anwaruddin, MD



11:25 – 11:40 AM **Indications and Contraindications of TCS**

Joyce Wald, DO, FACC, DO, FACC

11:40 – 11:55 AM **Case Study: Decision Making and Work Flow of Patients on TCS:
Device Selection and Escalation Strategies**

J. Eduardo Rame, MD

11:55 AM – 12:10 PM **Panel Discussion with Q&A**

*Panel: Saif Anwaruddin, MD, David Baran, MD, Edo Birati, MD,
Karol Mudy, MD, J. Eduardo Rame, MD, Joyce Wald, DO, FACC, DO,
FACC, Matthew Williams, MD*

12:10 – 1:00 PM **Lunch**

HYBRID APPROACHES: WHEN DO WE COMBINE DEVICES?

Moderators: J. Eduardo Rame, MD, David Baran, MD, Christian Bermudez, MD

1:00 – 1:15 PM **Options to Manage LV Distention in Peripheral ECMO:
IABP, Ecpella, ECMO with Direct LV Venting and ASD.**

Karol Mudy, MD

1:15 – 1:30 PM **Supporting the Right Ventricle in LVAD Patients
(percutaneous RVAD, Central RVAD, or ECMO)**

Jonathan Haft, MD

1:30 – 1:45 PM **ECMO as a Bridge to Durable LVAD or Transplant**

Christian Bermudez, MD

1:45 – 2:00 PM **Case Study: Complex Case Presenting Possible Challenges
of Device Combination**

Karol Mudy, MD

2:00 – 2:15 PM **Panel Discussion with Q&A**

*Panel: Christian Bermudez, MD, David Baran, MD, Jonathan Haft, MD,
Karol Mudy, MD, J. Eduardo Rame, MD,*

2:15 – 2:30 PM **Coffee Break**

ESTABLISHING AN ECMO / TCS PROGRAM

Moderators: Robert Bartlett, MD, Kasia Hryniewicz, MD

2:30 – 2:45 PM **Building an ECMO / TCS Program:
The Multidisciplinary Teams and System Impact**

Elizabeth Moore, MBA, RN

2:45 – 3:00 PM **Finances: Funding, Billing and Reimbursement of an ECMO/TCS Program**

Jonathan Haft, MD

3:00 – 3:15 PM **The Shock Team: What is the Evidence and What are the Next Steps**

Joyce Wald, DO, FACC, DO, FACC

3:15 – 3:30 PM **Logistics and Transport**

Dana Mullin, MS, CCP, LP