Mayo Clinic's Current Concepts in Extracorporeal Life Support:
Medical Management and High-Fidelity Cannulation Simulations
December 1st – December 4th, 2026
Mayo Clinic – Jacksonville, Florida
Agenda Time are Eastern Standard Time

Pre-Course Workshop – Additional Registration Required **Hands On Point-of-Care Ultrasound & Transesophageal Echocardiography for Optimizing the Care of Extracorporeal Membrane Oxygenation Patients** **Tuesday, December 1st, 2026** **Simulation Center *(In-Person Only)***	
7:00 a.m.	**Registration & Continental Breakfast**
7:50	**Opening Remarks** *Hari Kalagara, MBBS, MD; Govind Panda, MD*
8:00	**Basic Cardiac** – *Hari Kalagara, MBBS, MD (8:00 - 8:15am)* **Lung Ultrasound** – *Prasant Balasubramanian, MBBS, MD (8:15 – 8:30am)*
8:30	**Hands on Session** *Govind Panda, MD; Hari Kalagara, MBBS, MD; Juan Ripoll Sanz, MD;*
9:30-9:45 a.m.	**Break**
9:45	**Advanced Cardiac Views** *Govind Panda, MD*
10:00	**Hemodynamics and VExUS** *Nathan Waldron, MD*
10:30	**Hands on Session** *Juan Ripoll Sanz, MD; Nathan Waldron, MD; Govind Panda, MD; Hari Kalagara, MBBS, MD*
12:00-1:00 p.m.	**Lunch**
1:00	**Basic TEE** *Christoph Nabzdyk, MD*
1:15	**Advanced TEE** TBD
1:30	**Hands on Session** *Christoph Nabzdyk, MD; Juan Ripoll Sanz, MD; Wesley Allen, MD; Jon Christensen, MD*
2:30	**Break**
2:45	**POCUS for ECMO** *Govind Panda, MD*
3:15	**Vascular Ultrasound** *Juan Ripoll Sanz, MD*
3:30	**Hands on Session** *Govind Panda, MD; Hari Kalagara, MBBS, MD; Ricardo Diaz Milian, MD; Jon Christensen, MD*
4:30 p.m.	**Concluding Remarks/Q&A**

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Wednesday, December 2nd , 2026 **Mayo Clinic Kinne Auditorium – Cannaday Building *(In-Person & Livestream)***	
7:00 a.m.	**Registration, Continental Breakfast & Exhibit Hall**
7:20	Welcome & Course Highlights *Gregory Schears, MD*
7:30	ECMO History and Overview *Gregory Schears, MD*
ECMO Introduction	
8:00	ECMO Nuts & Bolts: Basics of Cannulas, Oxygenators, Pumps, & Configurations TBD
8:30	Cannulation Reassessment and Reconfiguration *Nishant Saran, MD*
9:05 (Virtual)	Status & Management of VV-ECMO *Kyle Bohman, MD*
9:35-9:45 a.m.	**Break & Exhibits**
9:45	*Progress & Management of VA-ECMO* *TBD from MCA*
10:15	ECPR Rational/Trials *Pramod Guru, MBBS, MD*
10:45	LV Vent: Who, What, Where, When, & How *Trina Augustin, MD*
11:15	Essentials of Anticoagulation during ECMO *Troy Seelhammer, MD*
11.45	Avoiding the "Bloody Mess": Transfusion and ECMO *Sanjay Chaudhary, MBBS*
12:00-12:45 p.m.	**Lunch Break & Exhibits** ECMO program Design and Development *Troy Seelhammer, MD & Gregory Schears, MD*
Afternoon Simulations/Small Groups **Mayo Clinic Kinne Auditorium – Cannaday Building**	
Rotation #1 1:00 – 1:45	A. Selection – **(Kinne A)** ***Gregory Schears, MD*** */ Michael Nemergut, MD, PhD / Pablo Moreno Franco, MD*
Rotation #2 1:50 – 2:35	B. Hemostatic Management – **(Kinne B)** ***Troy Seelhammer, MD / Anna Shapiro, MD /*** *Allison Strong, RN*
Break 2:35– 2:50	
Rotation #3 2:50 – 3:35	C. ECPR: Emergent Initiation, DPC, Approaches for Optimization, Disposition – **(Kinne 1106)** ***Alex Finch, MD*** */ Pramod Guru, MBBS, MD / Jill Zimmerman, RN*
Rotation #4 3:40 – 4:25	**D.** Hypoxia on VV ECMO – **(Kinne 1107)** ***Sanjay Chaudhary, MBBS, MD*** */ Ryan Craner, MD / Layton White Jr, PA-C*
4:30 – 4:40 p.m.	**Q&A & Debrief**
5:00 – 6:00 p.m.	**Fellow Abstract Presentations and Welcome Reception at the Kinne Auditorium**

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Thursday, December 3rd , 2026 **Mayo Clinic Kinne Auditorium – Cannaday Building *(In-Person & Livestream)***	
ECMO Intermediate	
6:45 a.m.	**Continental Breakfast & Exhibit Hall** Role of AI in ECMO *Anirban Bhattacharyya, MD, MS*
7:00	Levers to Pull: Vasoactive Pharmacotherapy Optimization *Troy Seelhammer, MD*
7:25	Heart Failure: Physiology and Management *Parag Patel, MD*
7:50	Application of Pharmacotherapy on ECMO *Patrick Wieruszewski, PharmD, RPh*
8:20	RV dysfunction and ECMO ** *TBD – Randy Mielke, M.D., M.P.H.*
8:50	*ECMO and Heart Transplant* *Parag Patel, MD*
9:20-9:35 a.m.	**Break & Exhibits**
Mechanical Circulatory Support Rapid Fire	
9:35	Contemporary Role of ECMO in Lung Transplant *TBD*
9:50	Play Nice – Mixed Mechanical Circulatory Support Devices & ECMO, ECPELLA *Trina Augustin, MD*
10:05	What About the Liver and Kidneys? – CRRT and MARS on ECMO *Nathan Peffley, MD*
10:20	ECMO beyond the conventional indications – toxicology, upper airway procedures, thoracic procedures *Christina E. Saikus, M.D., Ph.D.*
10:35	ECMO for PE *Omar Elmadhoun, MD, MPH*
10:50-11:05 a.m.	**Break & Exhibits**
11:05	Role of ECMO in Sepsis *Juan Diaz Soto, MD*
11:25	Role of ECMO in Obstetrics *Juan Ripoll Sanz, MD*
11:45	Beyond Cannulation: Ambulation & Transport *TBD*
12:05	*Ethical Evidence for ECMO* *TBD*
12:20-12:45 p.m.	**Lunch & Exhibits**
Afternoon Simulations/Small Groups **Simulation Center – Stabile Building**	
Rotation #1 1:00 – 1:45	A. LV Venting Strategies: Who, What, When, & Where – **(Learning Center A)** ***Trina Augustin, MD*** */ Thomas Brown, CCP / Stephanie Zhang, APRN*

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Rotation #2 1:50 – 2:35	B. Circuit Emergencies – **(ICU)** ***Bhavesh Patel, MD*** */ James Johnson, Jr, CCP /* ***MCR colleagues*** */ Pramod Guru, MBBS, MD / Dereddi Raja Reddy, MD / Joseph Shiber, MD / Rachel Hannon, APRN*
Break 2:35 – 2:50	
Rotation #3 2:50 – 3:35	C. Wet/Wet Connection, Sterile Thrombus Removal, Cannula Securement – **(PSL)** ***Gregory Schears, MD /*** **Tammy Friedrich, MSN, RN or MCR colleagues** ***/*** *Ryan Craner, MD / Pavel Mishin,* **CCP or MCA colleagues**
Rotation #4 3:40 – 4:25	D. Trial Off (with ECHO Assessment) / ECMO Removal – **(Learning Center B)** ***Ricardo Diaz Milian, MD / Juan Ripoll Sanz, MD*** */ Layton White Jr, PA-C*
4:30 – 4:40 p.m.	**Q&A & Debrief**
4:40 p.m.	**Adjourn**

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Friday, December 4th, 2026 **Mayo Clinic Simulation Center – Stabile Building *(In-Person Only)***	
7:30 a.m.	**Special Session:** *Continental Breakfast with the Experts* Join our faculty for breakfast to discuss DPC, integrate simulation at your center, to cath or not to cath, financial considerations/implications/billing, staffing controversies & bridging strategies
8:00	Introduction to the Day *Troy Seelhammer, MD*
8:05	Live Guided Case Discussions with Experts **(Learning Center B)** **Moderator:** *Troy Seelhammer, MD, Trina Augustin, MD, Nishant Saran, MD*
High Fidelity Simulations ** Rotating Groups; All Attendees Participate in Every Session*	
Rotation #1 9:00 – 9:50	A. Cannulation Basics – **(Procedural Skills Lab)** ***Gregory Schears, MD*** */ Trina Augustin, MD / Allison Strong, RN /* *Ruggero Bruzzone, CCP /* ***Pavel Mishin, CCP***
Rotation #2 10:00 – 10:50	B. VV ECMO Cannulation – **(Emergency Department)** ***Randy Mielke, MD, MPH, /*** *FL Surgeon TBA / Sanjay Chaudhary, MBBS /* *James Johnson, Jr, CCP / Jill Zimmerman, RN*
Rotation #3 11:00 – 11:50	C. Extended Reality –VR; AR TEE; Immersive Table – **(Learning Center A&B)**/ *Troy Seelhammer, MD / Nishant Saran, MD* (Immersive Table), *Govind Panda, MD* (TEE)
12:00 - 12:30	**Lunch with Q&A**
High Fidelity Simulations ** Rotating Groups; All Attendees Participate in Every Session*	
Rotation #1 12:45 – 1:50	A. ECPR Simulations and Debrief – **(Procedural Skills Lab)** *MCF or MCR surgeon TBD /* ***Trina Augustin MD*** */ Alex Finch, MD /* *Ruggero Bruzzone, CCP / Pavel Mishin, CCP*
Rotation #2 2:00 – 3:05	B. Circuit Reconfiguration: Each Portion 30-min duration – **(Emergency Department)** <u>Medical</u>: ***TBD*** */ Jill Zimmerman, RN /* *Thomas Brown, CCP* <u>Surgical</u>: ***Sanjay Chaudhary, MBBS*** */ Tammy Friedrich, MSN, RN /* *Layton White Jr, PA-C*
Rotation #3 3:15 – 4:20	C. Non-Emergent Cannulation (Periprocedural, Bridge to Transplantation) – **(OR)** *Nishant Saran, MD / Pablo Moreno Franco, MD / Troy Seelhammer, MD*
4:20 – 5:00	**Q&A and Debrief**
5:00 p.m.	**Adjourn**

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