

Mayo Clinic's Current Concepts in Extracorporeal Life Support:
 Medical Management and High-Fidelity Cannulation Simulations
 December 2nd – December 5th, 2025
 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 2nd, 2025 Simulation Center (<i>In-Person Only</i>)	
7:00 a.m.	Registration & Continental Breakfast
7:50	Opening Remarks <i>Hari Kalagara, MBBS, MD; Govind Panda, MD</i>
8:00	Basic Cardiac – <i>Hari Kalagara, MBBS, MD (8:00 - 8:15am)</i> Lung Ultrasound – <i>Prasant Balasubramanian, MBBS, MD (8:15 – 8:30am)</i>
8:30	Hands on Session <i>Govind Panda, MD; Hari Kalagara, MBBS, MD; Juan Ripoll Sanz, MD; Dereddi Raja Reddy, MD – MD Anderson</i>
9:30-9:45 a.m.	Break
9:45	Advanced Cardiac Views <i>Govind Panda, MD</i>
10:00	Hemodynamics and VExUS <i>Nathan Waldron, MD</i>
10:30	Hands on Session <i>Juan Ripoll Sanz, MD; Nathan Waldron, MD; Govind Panda, MD; Hari Kalagara, MBBS, MD</i>
12:00-1:00 p.m.	Lunch
1:00	Basic TEE <i>Christoph Nabzdyk, MD</i>
1:15	Advanced TEE <i>Wesley Allen, MD</i>
1:30	Hands on Session <i>Christoph Nabzdyk, MD; Juan Ripoll Sanz, MD, Wesley Allen, MD</i>
2:30	Break
2:45	POCUS for ECMO <i>Govind Panda, MD</i>
3:15	Vascular Ultrasound <i>Juan Ripoll Sanz, MD</i>
3:30	Hands on Session <i>Govind Panda, MD; Hari Kalagara, MBBS, MD; Ricardo Diaz Milian, MD</i>
4:30 p.m.	Concluding Remarks/Q&A – <i>Hari Kalagara, MBBS, MD; Govind Panda, MD</i>

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Wednesday, December 3 rd , 2025 Mayo Clinic Kinne Auditorium – Cannaday Building (<i>In-Person & Livestream</i>)	
7:00 a.m.	Registration, Continental Breakfast & Exhibit Hall
7:20	Welcome & Course Highlights <i>Gregory Schears, MD</i>
7:30	ECMO History and Overview <i>Gregory Schears, MD</i>
ECMO Introduction	
8:00	ECMO Nuts & Bolts: Basics of Cannulas, Oxygenators, Pumps, & Configurations <i>Heidi Dalton, MD - Virtual</i>
8:30	Management of VV-ECMO <i>Kyle Bohman, MD</i>
9:05	Essentials of Anticoagulation during ECMO <i>Troy Seelhammer, MD</i>
9:35-9:45 a.m.	Break & Exhibits
9:45	Avoiding the “Bloody Mess”: Transfusion and ECMO <i>Sanjay Chaudhary, MBBS</i>
10:15	ECPR Rational/Trials <i>Pramod Guru, MBBS, MD</i>
10:45	Cannulation Reassessment and Reconfiguration <i>Nishant Saran, MD</i>
11:15	ECMO program Design and Development <i>Troy Seelhammer, MD & Gregory Schears, MD</i>
11:45	ECMO for PE <i>Omar Elmadhoun, MD, MPH</i>
12:00-12:45 p.m.	Lunch Break & Exhibits
Afternoon Simulations/Small Groups Mayo Clinic Kinne Auditorium – Cannaday Building	
Rotation #1 1:00 – 1:45	A. Selection – (Kinne A) <i>Gregory Schears, MD / Michael Nemergut, MD, PhD / Pablo Moreno Franco, MD</i>
Rotation #2 1:50 – 2:35	B. Hemostatic Management – (Kinne B) <i>Troy Seelhammer, MD / Anna Shapiro, MD / Allison Strong, RN</i>
Break 2:35– 2:50	
Rotation #3 2:50 – 3:35	C. ECPR: Emergent Initiation, DPC, Approaches for Optimization, Disposition – (Kinne 1106) <i>Alex Finch, MD / Pramod Guru, MBBS, MD / Jill Zimmerman, RN</i>
Rotation #4 3:40 – 4:25	D. Hypoxia on VV ECMO – (Kinne 1107) <i>Sanjay Chaudhary, MBBS, MD / Ryan Craner, MD / Layton White Jr, PA-C</i>
4:30 – 4:40 p.m.	Q&A & Debrief – Troy Seelhammer, MD
5:00 – 6:00 p.m.	Fellow Abstract Presentations and Welcome Reception at the Kinne Auditorium

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Thursday, December 4th, 2025 Mayo Clinic Kinne Auditorium – Cannaday Building (In-Person & Livestream)	
ECMO Intermediate	
6:45 a.m.	Continental Breakfast & Exhibit Hall
7:00	Levers to Pull: Vasoactive Pharmacotherapy Optimization <i>Troy Seelhammer, MD</i>
7:25	Heart Failure: Physiology and Management <i>Parag Patel, MD</i>
7:50	Application of Pharmacotherapy on ECMO <i>Patrick Wieruszewski, PharmD, RPh</i>
8:20	RV dysfunction and ECMO <i>John Haney, MD, MPH</i>
8:50	ECMO and Heart Transplant <i>Parag Patel, MD</i>
9:20-9:35 a.m.	Break & Exhibits
Mechanical Circulatory Support Rapid Fire	
9:35	Role of AI in ECMO <i>Anirban Bhattacharyya, MD, MS</i>
9:50	LV Vent: Who, What, Where, When, & How <i>Trina Augustin, MD</i>
10:05	What About the Liver and Kidneys? – CRRT and MARS on ECMO (Virtual) <i>Nathan Peffley, MD</i>
10:20	Contemporary Role of ECMO in Lung Transplant <i>Juan Ripoll Sanz, MD</i>
10:35	ECCO2R: Is it Still an Option? <i>Thomas Comfere, MD</i>
10:50-11:05 a.m.	Break & Exhibits
11:05	ECMO beyond the conventional indications – toxicology, upper airway procedures, thoracic procedures <i>Christina E. Saikus, M.D., Ph.D.</i>
11:25	Role of ECMO in Obstetrics <i>Juan Ripoll Sanz, MD</i>
11:45	Role of ECMO in Sepsis <i>Juan Diaz Soto, MD</i>
12:05	Play Nice – Mixed Mechanical Circulatory Support Devices & ECMO, ECPella <i>Trina Augustin, MD</i>
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) <i>Trina Augustin, MD / Thomas Brown, CCP / Stephanie Zhang, APRN</i>

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Rotation #2 1:50 – 2:35	B. Circuit Emergencies – (ICU) Bhavesb Patel, MD / <i>James Johnson, Jr, CCP / Megan Osterhaus, RN / Pramod Guru, MBBS, MD / Joseph Shiber, MD / Rachel Hannon, APRN</i>
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 / Ryan Craner, MD / Pavel Mishin, CCP
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 / Austin Boyd, RN, CCRN
4:30 – 4:40 p.m.	Q&A & Debrief – Pramod Guru, MBBS, MD
4:40 p.m.	Adjourn

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Friday, December 5 th , 2025 Mayo Clinic Simulation Center – Stable 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 <i>Troy Seelhammer, MD</i>
8:05	Live Guided Case Discussions with Experts (Learning Center B) Moderator: <i>Troy Seelhammer, MD, Trina Augustin, MD, Nishant Saran, MD</i>
High Fidelity Simulations <i>* Rotating Groups; All Attendees Participate in Every Session</i>	
Rotation #1 9:00 – 9:50	A. Cannulation Basics – (Procedural Skills Lab) Gregory Schears, MD / <i>Trina Augustin, MD / Allison Strong, RN / Ruggero Bruzzzone, CCP / Pavel Mishin, CCP</i>
Rotation #2 10:00 – 10:50	B. VV ECMO Cannulation – (Emergency Department) Randy Mielke, MD, MPH / <i>Christina Saikus, MD, PhD / Sanjay Chaudhary, MBBS / James Johnson, Jr, CCP / Jill Zimmerman, RN / Megan Osterhaus, RN</i>
Rotation #3 11:00 – 11:50	C. Extended Reality –VR; AR TEE; Immersive Table – (Learning Center A&B)/ <i>Troy Seelhammer, MD / Nishant Saran, MD / Daniel Fiterman Molinari, MD (Immersive Table), Govind Panda, MD (TEE)</i>
12:00 - 12:30	Lunch with Q&A - Pramod Guru, MBBS, MD
High Fidelity Simulations <i>* Rotating Groups; All Attendees Participate in Every Session</i>	
Rotation #1 12:45 – 1:50	A. ECPR Simulations and Debrief – (Procedural Skills Lab) John Haney, MD, MPH / <i>Trina Augustin MD / Alex Finch, MD / Ruggero Bruzzzone, CCP / Pavel Mishin, CCP</i>
Rotation #2 2:00 – 3:05	B. Circuit Reconfiguration: Each Portion 30-min duration – (Emergency Department) <i>Medical: Quintin Quinones, MD, PhD / Jill Zimmerman, RN / Thomas Brown, CCP</i> <i>Surgical: Sanjay Chaudhary, MBBS / Tammy Friedrich, MSN, RN / Layton White Jr, PA-C / Megan Osterhaus, RN</i>
Rotation #3 3:15 – 4:20	C. Non-Emergent Cannulation (Periprocedural, Bridge to Transplantation) – (OR) <i>Nishant Saran, MD / Pablo Moreno Franco, MD / Troy Seelhammer, MD / Daniel Fiterman Molinari, MD / Austin Boyd, RN, CCRN</i>
4:20 – 5:00	Q&A and Debrief – Sanjay Chaudhary, MBBS
5:00 p.m.	Adjourn