

Mayo Clinic's Current Concepts in Extracorporeal Life Support:
Medical Management and High-Fidelity Cannulation Simulations
Nov 29th – December 1st, 2023
Mayo Clinic – Jacksonville, Florida

Wednesday, November 29, 2023 Mayo Clinic Kinne Auditorium – Cannaday Building	
7:00 a.m.	Registration, Continental Breakfast & Exhibit Hall
7:20	Welcome & Course Highlights <i>Gregory Schears, M.D.</i>
7:30	ECMO History and Overview <i>Gregory Schears, M.D.</i>
ECMO Introduction	
8:00	Physiology and Evidence of VA & VV ECMO <i>Heidi Dalton, M.D.</i>
8:40	Essentials of Anticoagulation during ECMO <i>Troy Seelhammer, M.D.</i>
9:00	Avoiding the “Bloody Mess”: Transfusion and ECMO <i>Sanjay Chaudhary, M.B.B.S., M.D.</i>
9:30	Break & Exhibits
9:45	To Breathe or Not to Breathe? - Mechanical Ventilation on ECMO <i>J. Kyle Bohman, M.D.</i>
10:15	ECPR Rational/Trials <i>Pramod Guru, M.B.B.S., M.D.</i>
10:45	Cannulation Reassessment and Reconfiguration <i>Mauricio Villavicencio Theoduloz, M.D.</i>
11:15	The Human Factors of ECMO: Building High-Performance Teams <i>Ayan Sen, M.D.</i>
11:45	Lunch Break & Exhibits
Afternoon Simulations/Small Groups Kinne Auditorium – Cannaday Building	
Rotation #1 12:30 – 1:15	A. Selection <i>J. Kyle Bohman, M.D. / Gregory Schears, M.D.</i> B. Hemostatic Management <i>Troy Seelhammer, M.D. / Heidi Dalton, M.D. / Michael Nemergut, M.D., Ph.D.</i> C. Wet/Wet Connection, Sterile Thrombus Removal, Cannula Securement <i>Misty Radosevich, M.D. / Rachel Hannon, APRN / Errin Kalvelage, R.R.T., L.R.T.</i> D. ECPR: Emergent Initiation, DPC, Approaches for Optimization, Disposition <i>Alex Finch, M.D. / Cory Alwardt, C.C.P / Tammy Friedrich, M.S.N., R.N. / Cardiac Surgeon</i>
Rotation #2 1:20 – 2:05	
Break 2:05 – 2:20	
Rotation #3 2:20 – 3:05	
Rotation #4 3:05 – 3:50	
3:50 – 4:15 p.m.	Q&A & Debrief
4:15 p.m.	Adjourn

5:00 p.m. - Fellow Abstract Presentations and Welcome Reception at the Kinne Auditorium

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Thursday, November 30, 2023	
Mayo Clinic Kinne Auditorium – Cannaday Building	
ECMO Intermediate	
7:00 a.m.	Continental Breakfast & Exhibit Hall
7:30	New and Upcoming Technology on ECMO <i>Heidi Dalton, M.D.</i>
8:00	Application of Pharmacotherapy on ECMO <i>Patrick Wieruszewski, Pharm.D., R.Ph.</i>
8:30	Levers to Pull: Vasoactive Pharmacotherapy Optimization in ECMO <i>Erica Wittwer, M.D., Ph.D.</i>
9:00	Taming the Tiger: Sepsis, Multiorgan Failure, and More <i>Kai Singbartl, M.D., M.P.H.</i>
9:30	Break & Exhibits
9:45	What About the Liver and Kidneys? – CRRT and MARS on ECMO <i>Nathan Peffley, M.D.</i>
10:15	Heart Failure: Physiology and Management <i>Parag Patel, M.D.</i>
10:45	Not Just Rescue – ECMO for Lung Transplant <i>Mathew Thomas, M.B.B.S., M.D.</i>
11:15	Play Nice – Mixed Mechanical Circulatory Support Devices & ECMO, ECPella <i>Atta Behfar, M.D., Ph.D.</i>
11:45	Lunch Break & Exhibit Hall
Afternoon Simulations/Small Groups Kinne Auditorium – Cannaday Building	
Rotation #1 12:30 – 1:15	A. LV Venting Strategies: Who, What, When, & Where <i>Nathan Waldron, M.D. / Rodriguez Diaz-Milian, M.D. / James Neal, C.C.P.</i> B. Circuit Emergencies (Med/Surg) <i>Tammy Friedrich, M.S.N., R.N. / James Johnson, C.C.P. / Jill Zimmerman, RN / Pramod Guru, M.B.B.S., M.D.</i> C. Hypoxia on VV ECMO <i>Sanjay Chaudhary, M.D. / Carson Welker, M.D. / Sean Kyle, M.D.</i> D. Trial Off (with ECHO assessment) / ECMO Removal <i>Govind Panda, M.D. / Philip Spencer, M.D. / Thomas Brown, C.C.P.</i>
Rotation #2 1:20 – 2:05	
Break 2:05 – 2:20	
Rotation #3 2:20 – 3:05	
Rotation #4 3:05 – 3:50	
3:50 – 4:15 p.m.	Q&A & Debrief
4:15 p.m.	Adjourn

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Friday, December 1, 2023	
Mayo Clinic Simulation Center – Stabile Building	
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, M.D.</i>
8:05	Guided Case Discussions with Experts
High Fidelity Simulations	
* Rotating Groups; ALL Attendees Participate in Every Session	
Rotation #1 9:00 – 9:50 Rotation #2 10:00 – 10:50 Rotation #3 11:00 – 11:50	A. Cannulation Basics Gregory Schears, M.D. / <i>Mauricio Villavicencio Theoduloz, M.D. / Amanda Cornelius, C.C.P. / Errin Kalvelage, R.R.T., L.R.T. / Philip Spencer, M.D.</i> B. VV ECMO Cannulation J. Kyle Bohman, M.D. / <i>Sahar Saddoughi, M.D., Ph.D. / James Neal, C.C.P. / Cory Alwardt, C.C.P.</i> C. Extended Reality → VR; AR TEE; 3d Anatomage, Physiology Video Game <i>Jonathan Morris, M.D. (VR), Basar Sareyyupoglu, M.D. (Anatomage), James A. Nelson, M.B.B.S. (TEE)</i>
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 Rotation #2 2:00 – 3:05 Rotation #3 3:15 – 4:20	D. ECPR Simulations and Debrief Sanjay Chaudhary, M.B.B.S. / <i>Phillip Spencer, M.D. / Alex Finch, M.D. / Errin Kalvelage, R.R.T., L.R.T. / James Neal, C.C.P.</i> E. Circuit Reconfiguration: Each Sub-Portion 30-min in duration <u>Medical:</u> Quintin Quinones, M.D., Ph.D. / <i>Amanda Cornelius, C.C.P. / Bhavesh Patel, M.D.</i> <u>Surgical:</u> Si Pham, M.D. / <i>Cory Alwardt, C.C.P. / Jill Zimmerman, R.N.</i> F. Non-Emergent Cannulation (Periprocedural, bridge to transplantation) Basar Sareyyupoglu, M.D. / <i>Devang Sanghavi M.B.B.S, M.D. / Pablo Moreno Franco, M.D. / Tammy Friedrich, M.S.N., R.N. / Thomas Brown, C.C.P.</i>
4:20 – 5:00	Debrief and Q&A
5:00 p.m.	Adjourn