

Mayo Clinic's Current Concepts in Extracorporeal Life Support:
Medical Management and High-Fidelity Cannulation Simulations
December 5-7, 2019

Thursday, December 5, 2019 Ponte Vedra Inn and Club - Terrace A/B		
7:00 a.m.	Registration & Continental Breakfast	
7:30	Welcome & Course Highlights	Gregory J. Schears, M.D.
7:45	ECMO History and Overview	Gregory J. Schears, M.D.
VV ECMO		
8:15	Physiology of VV ECMO	Pramod K. Guru, M.B.B.S., M.D.
8:35	Selection/Evidence from Latest Trials on VV ECMO	J. Kyle Bohman, M.D.
8:55	Essentials of Anticoagulation during ECMO	Troy G. Seelhammer, M.D.
9:15	Cannulation for VV ECMO	Gabor Bagameri, M.D.
9:35	Weaning Strategies for VV ECMO	Suraj M. Yalamuri, M.D.
9:55	Break	
VA ECMO		
10:10	Physiology of VA ECMO	Wesley L. Allen, M.D.
10:30	Selection/Evidence from Latest Trials on VA ECMO	J. Kyle Bohman, M.D.
10:50	Cannulation for VA ECMO	Gabor Bagameri, M.D.
11:10	Managing the Hemorrhaging Patient	Troy G. Seelhammer, M.D.
11:30	Judging Readiness for Removal	Devang K. Sanghavi, M.B.B.S., M.D.
11:50	How Does Echo Help in Weaning?	James A. Nelson, M.B.B.S.
12:10 p.m.	Common Weaning Mistakes to Avoid	Gregory J. Schears, M.D.
12:30	Lunch & Keynote Lecture – Out of Hospital ECPR	Melissa Brunsvold, M.D.
Low Fidelity Simulations and Case Based Scenarios		
1:15 – 3:45	A. Circuit Emergencies: Cory M. Alwardt, C.C.P./Bhavesh Patel, M.D./Tammy P. Friedrich, M.S.N., R.N./Erica L. Beach, C.C.P. B. Hypoxia on VV ECMO: J. Kyle Bohman, M.D./Amanda M. Cornelius, C.C.P./Errin L. Kalvelage C. Heart Failure: Wesley L. Allen, M.D./James A. Nelson, M.B.B.S./Misty A. Radosevich, M.D. D. Respiratory Failure: Pramod K. Guru, M.B.B.S., M.D./Nathan D. Peffley, M.D./Rachel M. Hannon, APRN, M.S.N., R.N., Joseph Shiber, M.D. E. Coagulation Management: Troy G. Seelhammer, M.D./Devon O. Aganga, M.D. Maggie Zhao, Pharm.D., R.Ph. F. Ethics and Palliative Care: Devang K. Sanghavi, M.B.B.S., M.D./W. Brian Beam, M.D.	
3:45 p.m.	Adjourn	
4:00 - 5:30 p.m.	Networking and Skills Stations *Recommended for Individuals Registered for Saturday A. Cannulation: Suraj M. Yalamuri, M.D./Matthew Read, M.D. B. Ultrasound Station: Gregory J. Schears, M.D./Misty A. Radosevich, M.D. C. Wet/Wet Connection: Cory M. Alwardt, C.C.P./Rachel M. Hannon, APRN, M.S.N., R.N. D. Sterile Thrombus Removal: Erica L. Beach, C.C.P./Amanda M. Cornelius, C.C.P. E. Securing Cannula: Basar Sareyyupoglu, M.D./Gabor Bagameri, M.D. F. Know your Ps and Qs: Tammy P. Friedrich, M.S.N., R.N./Errin L. Kalvelage G. Coding the ECMO Patient: W. Brian Beam, M.D./Bhavesh M. Patel, M.D./Nathan D. Peffley, M.D. H. Pharmacotherapy & ECMO: Scott D. Nei, Pharm.D., R.Ph./Maggie Zhao, Pharm.D., R.Ph.	

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Friday, December 6, 2019 Ponte Vedra Inn and Club - Terrace A/B		
7:00 a.m.	Continental Breakfast with the Experts Join our Faculty for Breakfast to discuss hot topics in anticoagulation, selection/building a practice, echo, cannulation/weaning	
ECPR		
8:15	Physiology of ECPR/Going On	Pramod K. Guru, M.B.B.S., M.D.
8:35	Selection Considerations	J. Kyle Bohman, M.D.
8:45	Evidence from Latest Trials on ECPR	Suraj M. Yalamuri, M.D.
8:55	Cannulation Considerations	Basar Sareyyupoglu, M.D.
9:15	Distal Perfusion Cannula	Patrick A. DeValeria M.D.
9:30	VA ECMO for Lung Transplant	Archer K. Martin, M.D.
9:50	Break	
ECMO Potpourri		
10:05	What does the Circuit Eat? Drug Dosing Considerations on ECMO	Scott D. Nei, Pharm.D., R.Ph.
10:25	Refractory Hypoxemia on VV ECMO	Devon O. Aganga, M.D.
10:45	Harlequin Syndrome	Misty A. Radosevich, M.D.
11:05	Transportation of the ECMO Patient	Erica L. Beach, C.C.P
11:25	HIT and ECMO	Maggie Zhao, Pharm.D., R.Ph.
11: 35	Salvage Therapy: Factor Products on ECMO	Maggie Zhao, Pharm.D., R.Ph.
11:45	CRRT on ECMO	Nathan D. Peffley, M.D.
12:05 p.m.	Dollars and Cents	J. Kyle Bohman, M.D.
12:25	Lunch & Keynote Lecture – Battlefield ECMO	Matthew Read, M.D.
Abstract Presentations and Q&A Stations		
1:15 – 2:45	A. E-Posters & Abstract Presentations: Pramod K. Guru, M.B.B.S., M.D./ Devang K. Sanghavi, M.B.B.S., M.D./Misty A. Radosevich, M.D. B. LV Vents: Gabor Bagameri, M.D./ Nathan D. Peffley, M.D. C. Bivalirudin for ECMO: Maggie Zhao, Pharm.D., R.Ph./ Troy G. Seelhammer, M.D./Scott Nei, Pharm.D., R.Ph. D. ECPR Cannulation – How to get the team onboard: Gregory J. Schears, M.D./ J. Kyle Bohman, M.D. E. Other Mechanical Support Devices and their role in ECMO: Patrick A. DeValeria M.D./ Parag Patel, M.D. F. Pediatric ECMO: Michael E. Nemergut, M.D., Ph.D./ Devon O. Aganga, M.D. G. Ambulatory ECMO: Tammy P. Friedrich, M.S.N.,R.N./ Si M. Pham, M.D./Rachel M. Hannon, APRN, M.S.N., R.N.	
2:45	Question and Answer Panel Discussion	
3:45 p.m.	Adjourn	

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Saturday, December 7, 2019 Hands-On Workshops (Limited Registration) Mayo Clinic Simulation Center	
7:30 a.m.	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 and bridging strategies
8:15	Introduction to the day <i>Gregory J. Schears, M.D.</i>
8:30	You're On! What's next? <i>Suraj M. Yalamuri, MD</i>
8:45	Expert ECPR Cannulation: Set the time to Beat! <i>Gabor Bagameri, M.D. and Melissa Brunsvold, M.D.</i>
Skill Stations and Low Fidelity Simulations <i>* Rotating Groups; All Attendees Participate in Every Session</i>	
Rotation #1 9:00 – 10:00 Rotation #2 10:15 – 11:15 Rotation #3 11:30 – 12:30	A. Cannulation Suraj M. Yalamuri, M.D./Matthew Read, M.D./Gabor Bagameri, M.D./Melissa Brunsvold, M.D. <i>Amanda M. Cornelius, C.C.P./Errin L. Kalvelage</i> B. VV ECMO Cannulation J. Kyle Bohman, M.D./Gregory J. Schears, M.D./ Devon O. Aganga, M.D. <i>Erica L. Beach, C.C.P./Cory M. Alwardt, C.C.P.</i> C. TEE/POCUS and Crisis Management TEE: James A. Nelson, M.B.B.S./Wesley L. Allen, M.D./Misty A. Radosevich, M.D (POCUS) Crisis Management: Nathan D. Peffley, M.D./W. Brian Beam, M.D./ Pramod K. Guru, M.B.B.S., M.D.
12:30-1:15	Lunch with Q&A
High Fidelity Simulations <i>* Rotating Groups; All Attendees Participate in Every Session</i>	
Rotation #1 1:30 – 2:30 Rotation #2 2:45 – 3:45 Rotation #3 4:00 – 5:00	A. ECPR Simulations and Debrief Suraj M. Yalamuri, M.D./Gabor Bagameri, M.D. /Errin L. Kalvelage/Erica L. Beach, C.C.P. B. Circuit Reconfiguration Surgical: Bhavesh M. Patel, M.D./Basar Sareyyupoglu, M.D./Gregory J. Schears, M.D./ J. Kyle Bohman, M.D./ Joseph Shiber, M.D. Medical: Devon O. Aganga, M.D./Nathan D. Peffley, M.D./Amanda M. Cornelius, C.C.P. Cory M. Alwardt, C.C.P. C. Emergent Decision Making W. Brian Beam, M.D./ Pramod K. Guru, M.B.B.S., M.D./Misty A. Radosevich, M.D /Wesley L. Allen, M.D./ Tammy P. Friedrich, M.S.N.,R.N./James A. Nelson, M.B.B.S.
5:00	Debrief and Q&A
5:15 p.m.	Adjourn