

DAY 1

SINGLE TRACK, ALL ATTENDEES • 7:45 AM KEYNOTE INTRODUCTIONS

Lectures & panelsHands-on & simulationBreaks & meals

Day 1 — Morning (7:45 AM – 12:00 PM)

TMC3 Helix Park, Houston TX • Single track, all attendees

7:45–7:50 AM	Keynote Introductions
7:50–8:20 AM	Journey of the Total Artificial Heart <i>(Not Designated for CME Credit)</i> <i>Billy Cohn</i>
8:20–8:50 AM	Keynote <i>(Not Designated for CME Credit)</i>

Session 1 — Understanding Shock Physiology: A Common Language for Intensivists & Perfusionists

8:50–9:00	Welcome & Opening Remarks
9:00–9:10	What Is Shock and Perfusion? <i>Miriam Freundt</i>
9:10–9:20	Cardiogenic Shock Phenotyping <i>Jacob Jentzer</i>
9:20–9:30	Understanding Venous Return: Rational Use of Fluids <i>Mourad Senussi</i>
9:30–9:40	Establishing a Shock Team
9:40–10:00	Panel Discussion <i>Subhasis Chatterjee & Jennifer Bruno (Moderator)</i>

Session 2 — From Fluids to Pressors: Resuscitation Before MCS

10:00–10:10	Invasive Hemodynamic Monitoring <i>Mourad Senussi</i>
10:10–10:20	Non-Invasive Hemodynamic Monitoring <i>Ali Omranian</i>
10:20–10:30	Fundamentals of Inotropes <i>Jacob Jentzer</i>
10:30–10:40	Rational Use of Vasopressors in Vasodilatory Shock <i>Subhasis Chatterjee</i>
10:40–11:00	Panel Discussion <i>Kartik Valluri & Toni Duculan (Moderator)</i>

11:00–11:15	Break — Vendor Interactions + Refreshments
11:15–12:00	Lunch

Session 3 — IABP in the Modern Shock Algorithm: Bridge, Bailout, or Both?

12:00–12:10	IABP Revisited: Old, Relevant, and Often Misunderstood — IABP Physiology & Waveforms <i>Samar Sheth</i>
12:10–12:20	IABP at the Bedside: Troubleshooting for Nurses and Perfusionists <i>Eric Guevara / Circ Support</i>
12:20–12:30	Axillary Balloon Pump <i>Barry Trachtenberg</i>
12:30–12:40	What's the Best Way to Wean the IABP? <i>Mohammad Merchant</i>
12:40–1:00	Panel Discussion <i>Nikolaus Diakos, Analisia Stewart</i>

Session 4 — The Impella

Day 1 — Afternoon (12:00 PM – 5:10 PM)

TMC3 Helix Park, Houston TX • Continued from morning

1:00–1:10	Pressure Volume Loops and LV Unloading <i>Ajith Nair</i>
1:10–1:20	Impella Insertion and Management Pearls <i>Joggy George</i>
1:20–1:30	VA ECMO + Impella <i>Subhasis Chatterjee</i>
1:30–1:40	Protective Cardiac Surgery with Impella <i>Ismail Salas de Armas</i>
1:40–2:00	Panel Discussion <i>Prasad Manian, JoAnn Lewis</i>

Session 5 — MCS for RV Failure

2:00–2:10	Right-Sided MCS: Centrifugal Flow Pumps <i>Manish Patel</i>
2:10–2:20	Right-Sided MCS: Axial Flow Pumps <i>Salman Bandleli</i>
2:20–2:30	Letting Go of the Right Side: When and How to Wean the RVAD <i>Adeel Ahsan</i>
2:30–2:40	One Pump Isn't Enough: When to Escalate to BiVAD <i>Joseph Rogers</i>
2:40–3:00	Panel Discussion: Real-World Resuscitation Decisions Before MCS — Applying Physiology Under Pressure <i>John Park, Mourad Senussi</i>

3:00–3:15 Break — Vendor Interactions + Refreshments

Session 6 — VAD Physiology for Non-VAD Providers

3:15–3:25	Concepts of VAD Physiology: What Everyone Must Know <i>Lola Xie</i>
3:25–3:35	Optimizing LVAD Hemodynamics in the ICU <i>Cesar Castillo</i>
3:35–3:45	VAD Complications & Troubleshooting: Recognition and Management <i>Harish Devineni</i>
3:45–3:55	How to Reduce Stroke Over the Lifetime of an LVAD Patient <i>Adeel Ahsan</i>
3:55–4:05	Panel Discussion: Optimization of LVAD

Session 7 — Biventricular Failure

4:05–4:15	Percutaneous Biventricular Support vs ECMO for BiV Failure <i>Marwan Jumean</i>
4:15–4:25	Surgical Approach to Biventricular Failure <i>Juan Marcano</i>
4:25–4:45	The Future of Total Artificial Hearts: Surgeon Perspective <i>TRD</i>
4:45–5:05	Pneumatic vs Continuous Flow Total Artificial Heart: Intensivist Perspective <i>Miriam Freundt</i>
5:05–5:25	Panel: BiVAD vs TAH — Decision-Making in End-Stage Biventricular Failure <i>Subhasis Chatterjee & Thomas Powell</i>
5:25–5:30	Closing Remarks — End of Day 1

DAY 2

REGISTRATION 7:30–7:50 AM · THREE CONCURRENT TRACKS

■ Lectures & panels ■ Hands-on & simulation ■ Breaks & meals

Track A — Main Hall

Helix Hall · ECMO & Advanced Perfusion · 8:00 AM – 4:50 PM

7:30–7:50 AM	Registration
Session 8 — ECMO	
8:00–8:10	Who, When, and Why: VV ECMO Patient Selection in 2026 <i>Analisia Stewart</i>
8:10–8:20	Bridge to Transplant, Recovery & No-Man’s Land <i>Nirmal Sharma</i>
8:20–8:30	Cannulation Strategies <i>Ramiro Fernandez</i>
8:30–8:40	Weaning VV ECMO: Extubate or Decannulate? <i>Kartik Valluri</i>
8:40–9:00	Panel Discussion <i>Adeola Omojola / Brittany Duong</i>
9:00–9:10	Break — group assignments for VV ECMO hands-on
Session 9 — ECMO Hands-On Workshop	
9:10–10:10	ECMO Circuit Review: Tip to Tip [Hands-on] <i>Faculty: Nikolaos Diakos, Sam Sheth, Matthew Nardi</i>
	■ Cannulations [Hands-on] <i>Faculty: Brent Gudenkauf, Michael Harms, Bassel Akbik, Louis</i>
	■ Monitoring Your ECMO Circuit [Hands-on] <i>Faculty: Cesar Castillo, Megan Palmer, Mohammed Merchant</i>
10:10–10:20	Break — Vendor Interactions + Refreshments
Session 10 — ECMO	
10:20–10:30	VA ECMO for Shock and Arrest: Selecting the Right Patients, Fast <i>Mourad Senussi</i>
10:30–10:50	Speaker Pending
10:50–11:00	Cannulation Strategies, Flows, Afterload & the LV: Managing the Hemodynamics of VA ECMO <i>Sam Sheth</i>
11:00–11:10	Anticoagulation and Complications in VA ECMO: What Keeps You Awake at Night <i>Arthur Bracey</i>
11:10–11:20	Weaning VA ECMO <i>Cesar Castillo</i>
11:20–11:40	Panel Discussion <i>Toni Duculan / Ed Yang</i>
11:40–12:10	Lunch
12:10–12:20	Break — group assignments for ECMO hands-on
Session 11 — ECMO Hands-On Workshop	
	Workshop Facilitators: Deborah Adams, Bassel Akbik, Louis Anzalone, Cesar Castillo, Miguel Curo, Nikolaos Diakos, Joshua Dollahite, Miriam Freundt, Sofia Garza, Brent Gudenkauf, Michael Harms, Adam Harshman, Kathy Kibler, Ross Leth, Davis Lewis, Quinlan McCollow, Mohammed Merchant, Matthew Nardi, Mourad Senussi, Sam Sheth, Kartik Valluri, Phuong Vo, Ernest Yu
12:20–1:20	Loss of Flow & Pulsatility [Hands-on] <i>Faculty: Nikolaos Diakos, Sam Sheth, Matthew Nardi</i>
	■ Cannulation [Hands-on] <i>Faculty: Brent Gudenkauf, Michael Harms, Bassel Akbik, Louis</i>
	■ North-South & East-West [Hands-on] <i>Faculty: Kartik Valluri, Mohammed Merchant, Miriam Freundt</i>
1:20–2:00	Speaker Pending
Session 12 — Advanced Perfusion Talks	
2:00–2:10	From High Volume to ELSO Center of Excellence <i>Subhasis Chatterjee</i>
2:10–2:20	ECMO with Limited Resources — International Perspective <i>Stepan Maruniak</i>
2:20–2:30	Debate: DCD Transplant & NRP — Proposition (Pro) <i>Murphy Rayle / Scott Noesges</i>
2:30–2:40	Debate: DCD Transplant & NRP — Opposition (Con) <i>Adam Harshman</i>
2:40–2:50	Establishing an ECMO Program in the Community <i>Vivekkumar B. Patel</i>
2:50–3:00	Break — Vendor Interactions + Refreshments
Session 13 — December 2026 Class Presentations	
3:00–3:10	Blood Conservation and CPB <i>Jackson Burkett</i>
3:10–3:20	Hemoconcentrator vs Spontaneous Diuresis in Patients with Preserved Renal Function <i>Auden Chang Houseworth</i>
3:20–3:30	Open — to be confirmed
3:30–3:40	Hyperoxia During CPB: How Much Is Too Much? <i>Joshua Grover</i>
3:40–3:50	Portable ECMO for Pre-Hospital Cardiac Arrest: Field to OR <i>Natalie Johnson</i>
3:50–4:00	East-West Syndrome <i>Beth Johnston</i>
4:00–4:10	Hemoconcentration Effect on Complement Levels Pre- and Post-Cross-Clamp <i>Ashley Sumpter</i>
4:10–4:20	Trans-Cervical Robotic Aortic Valve Replacement <i>Dru Wallis</i>
4:20–4:30	DO2i and TUC Effects on AKI <i>Morgan Weiss</i>
4:30–4:50	Questions / Overtime

Track B — Echo Track

Herman Hall Auditorium; Levy & Herman Conf. Rooms · 8:00 AM – 5:40 PM

Block 1 — Foundations of Critical Care Echo [8:00–10:00 AM]	
8:00–8:20	Critical Care Echocardiography as an Extension of the Physical Exam: Heart, Lungs, and Abdomen <i>Nick Villalobos</i>
8:20–9:10	Skill Stations · Rotation 1 — Lung Ultrasound · FAST Exam · Apical, Subcostal & Parasternal Windows [Hands-on]
9:10–10:00	Skill Stations · Rotation 2 — same stations, groups A ↔ B [Hands-on]
10:00–10:15	Break
Block 2 — Critical Care Echo in Undifferentiated Shock [10:15 AM–12:15 PM]	
10:15–10:35	Critical Care Echocardiography in Undifferentiated Shock <i>Dorian Alexander</i>
10:35–11:25	Skill Stations · Rotation 1 — LV Function · RV Function · Tamponade Assessment [Hands-on]
11:25–12:15	Skill Stations · Rotation 2 — same stations, groups A ↔ B [Hands-on]
12:15–1:15	Lunch + Vendor Walk
Block 3 — Hemodynamic Assessment: Fluid Responsiveness vs. Venous Congestion [1:15–3:15 PM]	
1:15–1:35	Hemodynamic Assessment with Critical Care Echo: Fluid Responsiveness vs. Venous Congestion <i>Mourad Senussi</i>
1:35–2:25	Skill Stations · Rotation 1 — Fluid Responsiveness · Cardiac Output · VExUS Protocol [Hands-on]
2:25–3:15	Skill Stations · Rotation 2 — same stations, groups A ↔ B [Hands-on]
3:15–3:30	Break
Block 4 — MCS Management & Rescue TEE [3:30–5:30 PM]	
3:30–3:40	Lecture A: The Role of Echocardiography in MCS Management <i>Kha Dinh</i>
3:40–3:50	Lecture B: When Every Beat Counts — Rescue TEE in the Critically Ill Patient <i>Kayla Knuf</i>
3:50–4:40	Skill Stations · Rotation 1 — Rescue TEE Scanning · Impella Position Under Echo Guidance [Hands-on]
4:40–5:30	Skill Stations · Rotation 2 — same stations, groups A ↔ B [Hands-on]
5:30–5:40	Final Comments and Wrap-Up

Track C — MCS Hands-On Workshops

Braeswood Room · Rotating Device Stations · 12:30–5:00 PM · In-person only

8:00 AM–12:30 PM	Attend Track A or B — workshops begin at 12:30 PM
Basic IABP	
12:30–12:40	Station 1 — Indications, Insertion, Vascular Access Strategy & Sizing [Hands-on]
12:40–12:50	Station 2 — Positioning & Imaging Confirmation [Hands-on]
12:50–1:00	Station 3 — Timing, Waveforms & Hemodynamics [Hands-on]
1:00–1:10	Station 4 — Troubleshooting & Complications [Hands-on]
1:10–1:20	Break
Impella	
1:20–1:30	Station 1 — Indications & Contraindications, Device Anatomy, Setup, Console Mastery [Hands-on]
1:30–1:40	Station 2 — Insertion, Positioning & Imaging [Hands-on]
1:40–1:50	Station 3 — Physiology & Hemodynamics [Hands-on]
1:50–2:00	Station 4 — Waveforms & Alarms [Hands-on]
2:00–2:10	Station 5 — Anticoagulation, Purge System & Hemolysis [Hands-on]
2:10–2:20	Break
RVAD	
2:20–2:30	Station 1 — RVAD Setup, Cannulation & Configurations [Hands-on]
2:30–2:40	Station 2 — RV Physiology & Hemodynamics [Hands-on]
2:40–2:50	Station 3 — Troubleshooting & Weaning [Hands-on]
LVAD	
2:50–3:00	Station 1 — Device Components & Surgical Anatomy [Hands-on]
3:00–3:10	Station 2 — Hemodynamics, Speed Optimization & Echo Integration [Hands-on]
3:10–3:20	Station 3 — Alarms [Hands-on]
3:20–3:30	Break
Total Artificial Heart	
3:30–4:00	Station 1 — Device Components & Surgical Anatomy [Hands-on]
Mega MCS Interactive Session	
4:00–5:00	Poly Device Management [Hands-on]