

Leading ECMO Globally

September 15th-17th, 2022 Boston Marriott Copley Place Boston, MA



Mission

Providing global leadership in extracorporeal life support through innovation, advocacy, and advancing knowledge.

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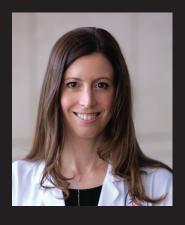
Welcome

On behalf of the Organizing Committee, we are excited to welcome you to Boston for the 33rd Annual Extracorporeal Life Support Organization Conference. A robust and innovative scientific program has been assembled around the theme of Leading ECMO Globally, with distinguished speakers from around the world. Supporting this theme, as a pioneer in global critical care medicine and innovation, we are proud to have Dr. Derek Angus as our keynote speaker. We encourage you to engage and participate in the sessions and learn about the state of the art in ECMO science, physiology, program development, team management, and ethics. This is the first in person ELSO meeting in North America since the COVID-19 pandemic began and we are thrilled to reconnect as a global ELSO community. We hope you take advantage of this time together to collaborate and learn from each other, as it is our relationships that allow us to truly provide exceptional global ECMO care.

As always, we could not come together like this without the support of our sponsors. Not only do our sponsors help foster an environment to share knowledge, they are often on the leading edge of improvements in technology that matter at the bedside. Please take a moment to visit them throughout the conference.

Welcome!

Cara Agerstrand, MD Chair, Conference Committee



Matthew Paden, MD President, ELSO



Network: Marriott_CONFERENCE

Wi-Fi password: ELSO2022

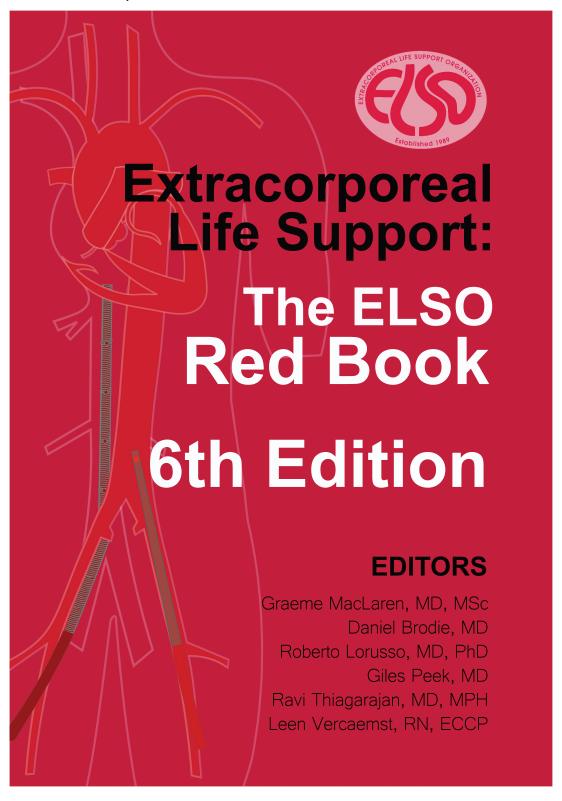
Share your experience across social media channels with #ELSO2022.

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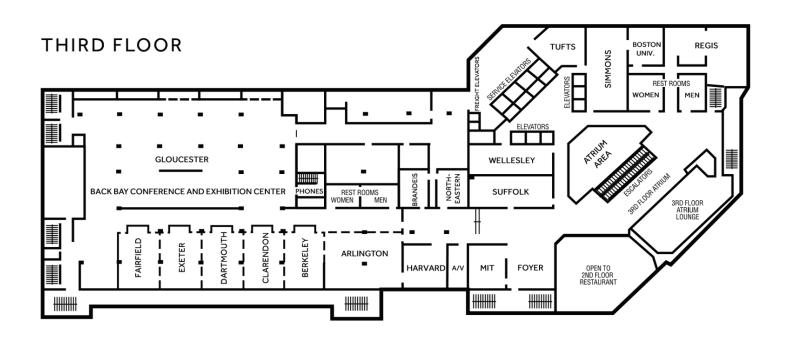
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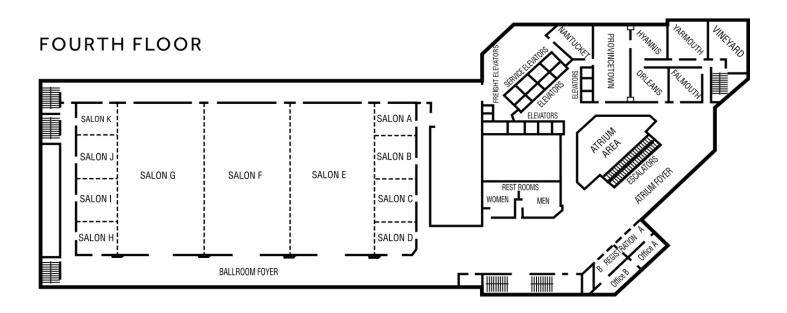
ELSO Red Book 6th Edition

ELSO is excited to launch the 6th Edition of the Red Book at our Annual Conference! Please come and pick up your copy, available at a discounted rate during the conference. With over 230 authors contributing to this edition, it is an important update to our field. Thank you to the Editor-in-Chief, Graeme MacLaren, and the entire Editorial Board for the vision, and all authors for your contribution.

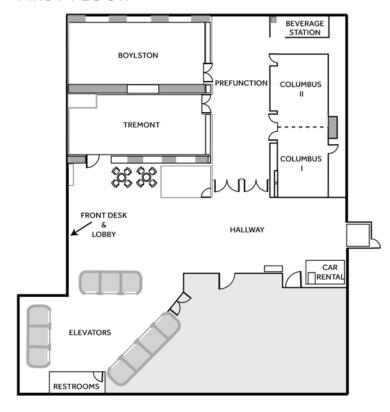


Marriott Copley Center Floor Maps

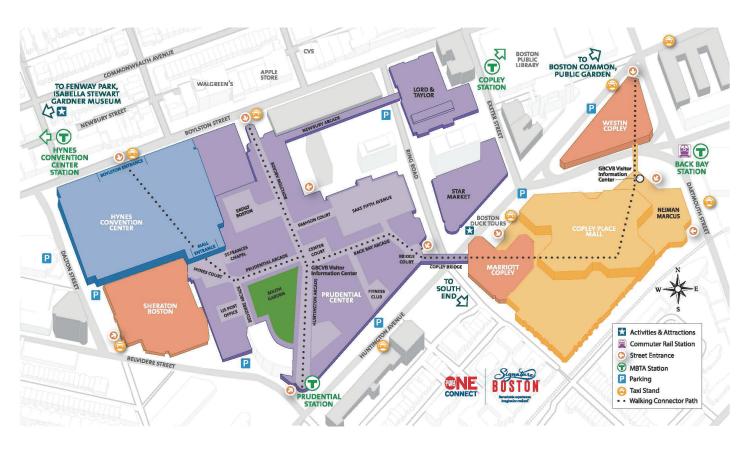




FIRST FLOOR



Walking Route Between Marriott and Sheraton Hotels



AT A GLANCE AGENDA

ELSO 33RD ANNUAL CONFERENCE BOSTON, MA, USA

Pre-Conference - From Pumps to Program: How to Build (and Grow) a High Quality ECMO Program

Pre-Conference Day 1 - Wednesday September 14

Salon E-G

1:00-2:00 PM Starting from Scratch: The Patient Population and Access to ECMO

2:00-3:00 PM Program Structure, Staffing, and Policy Development

3:00 -3:30 PM Breal

3:30-4:45 PM Basics of ECMO: Preparing Your Team to Care for These Patients

4:45-5:15 PM Small Group Discussions

Pre-Conference Day 2 - Thursday September 15

Salon E-G

7:00-8:00 AM Breakfast

8:00-9:00 AM Education, Training and Competency 9:00-10:15 AM Advanced Management Strategies

10:00-11:30 AM Separate Registration Required for Heart Labs Heart Lab #1 Heart Lab #2

Boylston Room Tremont Room

10:15-10:45 AM Break

4:00-4:10 PM

10:45-11:45 AM Would You or Wouldn't You? Interactive Cases

11:45 AM Pre-Conference Concludes

ELSO 33rd Annual Conference - "Leading ECMO Globally"

Day 1 - Thursday September 15, 2022 (1:00 PM to 5:30 PM)

1:00-2:30 PM Opening Remarks & Keynote Address

Plenary Session: Science at the Cutting Edge: ECLS and Beyond

Salon A-K

2:30-3:00 PM Break with Exhibitors and Poster Presentations

Exhibit Hall

3:00-4:00 PM Breakout 1, Salon A-E Breakout 2, Salon F Breakout 3, Salon G-K

ECMO and the Pregnant Patient:
Two Lives at Stake

Congenital Heart Disease: From Cradle to Drivers Licenses and Beyond

Maintaining a High Functioning ICU Team: What the Pandemic Revealed

Transition Time

4:00-5:30 PM Separate Registration Required Heart Lab #3 Heart Lab #4

for Heart Labs

Boylston Room

4:10-5:30 PM

Breakout 4, Salon A-E

Breakout 5, Salon F

Breakout 6, Salon G-K

Cutting Edge in ARDS: The Science

Cardiogenic Shock Demystified

All About the Oxygen: Optimizing

5:30-7:00 PM Poster Presentations

5:30-6:30 PM PediECMO Meeting, Salon E

Day 2 - Friday September 16, 2022

7:00-8:00 AM Breakfast Meet and Greet with the Steering Committee

Exhibit Hall

8:15-9:30 AM Plenary Day 2: Critical Care in the Media

and the Management

Salon A-K

9:30-10:00 AM Break with Exhibitors and Poster Presentations

10:00-11:00 AM Breakout 7, Salon A-E Breakout 8, Salon F Breakout 9, Salon G-K

ECCO2R: State of the Science for Respiratory Failure

Challenges in Venoarterial ECMO and MCS

Congenital Diaphragmatic Hernia: ECMO Challenges & Considerations

Perfusion During ECMO

At A Glance Agenda (continued)

11:00-11:10 AM		Transition Time	
11:10-12:10 PM	Breakout 10, Salon A-E	Breakout 11, Salon F	Breakout 12, Salon G-K
	COVID-19: What's the Evidence in 2022?	Leveraging Data for Management of the Sickest Patients in the ICU	Adventures in ECMO: Bedside Essentials
12:10-1:30 PM	Lunch E	reak, Exhibit Hall and Poster Prese	ntations
12:30-1:15 PM	Sponsored Talk #1, Salon A-E	ı	Sponsored Talk #2 Salon G-K
	Future Trends in ECLS and Post- Pandemic Transitions (Talk Sponsored by Getinge)		ECpella™ Therapy: Optimal Timing & Management to Rest & Recover with Impella (Talk Sponsored by Abiomed)
1:30-2:50 PM	Breakout 13, Salon A-E	Breakout 14, Salon F	Breakout 15, Salon G-K
	Innovation in ECMO	State of the Art in Resuscitation: ECPR at the Cutting Edge	Humanity in the ICU: Ethics and Palliative Care
2:50-3:20 PM		with Exhibitors and Poster Present	
3:20-4:20 PM	Breakout 16, Salon A-E	Breakout 17, Salon F	Breakout 18, Salon G-K
	Surgical Controversies in ECMO: Management Strategies and Expert Discussion	Expanded Uses for VA ECMO: A New Weapon in Our Hands for Complex Conditions	ELSO Research Grant and Oral Abstract Presentations
4:20-4:30 PM		Transition Time	
4:30-5:30 PM	Breakout 19, Salon A-E	Breakout 20, Salon F	Breakout 21, Salon G-K
	ECMO in Pandemics: Preparing for the Next One	Neurologic Injury During ECMO	Neonatal ECMO: Next Gen Approaches for the Next Gen - Expert Panel and Moderated Discussion
6:00-7:00 PM 7:00-8:00 PM	Evening Reception, Exhibit Floor Award Ceremony, Salon E - F- G		
Day 3 - Saturday	y September 17, 2022 (8 AM to 12 P	M)	
7:00-8:00 AM	Directors' Meeting with Breakfast,		Breakfast - For All Other
8:30-9:30 AM	Salon E	Breakfast, Salon G	Attendees, Exhibit Hall
6.5U-5.5U AIVI	Breakout 22, Salon A-E	Breakout 23, Salon F	Breakout 24, Salon G-K
	ECMO for Lung Transplantation	ECMO, VAD, and Everything in Between: How Can Evidence Inform the Best MCS Strategy for Children with Heart Failure	ELSO Registry Session
9:30-9:40 AM		Transition Time	
9:40-10:40 AM	Breakout 25, Salon A-E	Breakout 26, Salon F	Breakout 27, Salon G-K
	A Breath of Fresh Air: Hot Topics in Pediatric Respiratory ECMO	Award of Excellence	Let's Get Moving: Physical Rehabilitation During ECMO
10:40-10:50 AM		Transition Time	
10:50-11:50 AM	Closing Remarks Salon A-E		

AGENDA

ELSO 33RD ANNUAL CONFERENCE BOSTON, MA, USA

Pre-Conference - From	Pumps to Program	: How to Build (and Grow)) a High Quality ECMO Program

Pre-Conference Day	1 -	Wednesda	ay	Septemb	er	14
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Salon E-G	
1:00-2:00 PM	Starting from Scratch: The Patient Population and Access to ECMO
1:00-1:05 PM	Welcome and Introduction
	Elizabeth Moore, RN, MBA Iowa City, IA, USA
1:05-1:20 PM	If We Build It, Will They Come? Is Starting an ECMO Program Right for Your Hospital?
	Susan Tanzi-Pfeifer, MBA Morristown, NJ, USA
1:20-1:35 PM	EC-YES or EC-NO: Indications and Contraindications for ECMO
	Joseph Tonna, MD, MS Salt Lake City, UT, USA
1:35-1:50 PM	ECMO on Wheels: Considerations in ECMO Transport Program
	Jason Bartos, MD Minneapolis, MN, USA
1:50-2:00 PM	Panel Discussion
2:00-3:00 PM	Program Structure, Staffing, and Policy Development
2:05-2:20 PM	It Takes a Team: Structuring Your Program for Success
	Elizabeth Moore, RN, MBA Iowa City, IA, USA
2:20-2:35 PM	How Do I Know What Staffing Paradigm is Right for Our Program?
	Jayne Sheldrake, MSc, RN Melbourne, Australia
2:35-2:50 PM	Always in Fashion: All You Need to Know About ECMO Circuits and ECMO Accessories
	Justin Sleasman, CCP Stanford, CA, USA
2:50-3:00 PM	Panel Discussion
3:00-3:30 PM	Break
3:30-4:45 PM	Basics of ECMO: Preparing Your Team to Care for These Patients
3:30-3:45 PM	Oxygen In, CO2 Out: ECMO Physiology and Gas Exchange
	Robert Bartlett, MD, FELSO Ann Arbor, MI, USA
3:45-4:00 PM	Essential Patient Management in VV ECMO
	Cara Agerstrand, MD New York, NY, USA
4:00-4:15 PM	When the Heart Fails: Managing a Patient on VA ECMO
	Raj Ramanan, MD Pittsburgh, PA, USA
4:15-4:30 PM	Anticoagulation: Dealing with Bleeding and Thrombosis
	Troy Seelhammer, MD Rochester, MN, USA
4:30-4:45 PM	Panel Discussion
4:45-5:15 PM	Small Group Discussions
Pre-Conference	Day 2 - Thursday September 15
Salon E-G	
7:00-8:00 AM	Breakfast
8:00-9:00 AM	Education, Training and Competency
8:05-8:20 AM	What is the Value of Global, Standardized ECMO Education?
	Bishoy Zakhary, MD Portland, OR, USA
8:20-8:35 AM	The E-AEC: Everything You Need to Know About Certification
	Jenelle Badulak, MD Seattle, WA, USA
8:35-8:50 AM	ECMO Simulation: It's More than Technical Training
	Mateusz Puslecki, MD, PhD, DBA and Marek Dabrowski, DBA, PhD, MPH, MSc Poznan, Poland
8:50-9:00 AM	Panel Discussion
9:00-10:15 AM	Advanced Management Strategies

9:15-9:30 AM Help! Critical Response to ECMO Emergencies

Velia Antonini, MS, CCP | Cesena, Italy

9:00-9:15 AM Imaging on ECMO: What, How, and When

9:30-9:45 AM Unique Issues: The Awake or Extubated ECMO Patient

Phillip Mason, MD | San Antonio, TX, USA

Adam Dalia, MD, MBA | Boston, MA, USA

9:45-10:00 AM All You Need to Know About ECMO Weaning

10:00-10:15 AM Panel Discussion

Craig Rackley, MD | Durham, NC, USA

10:00-11:30 AM Heart Lab #1, Boylston Room

10:00-11:30 AM Heart Lab #2, Tremont Room

Karol Mudy, MD

Michael McMullan, MD

Separate Registration Required for Heart Labs

Kasia Hryniewicz, MD Jonathan Haft, MD

10:15-10:45 AM Break 10:45-11:45 AM Would You or Wouldn't You? Interactive Cases 10:45-11:00 AM Challenging Cases in Neo-Peds ECMO Natalie Rintoul, MD | Philadelphia, PA, USA 11:00-11:15 AM Challenging Cases - VV ECMO Kiran Shekar, MBBS, PhD | Brisbane, Australia 11:15-11:30 AM Challenging Cases - VA ECMO E. Wilson Grandin, MD | Boston, MA, USA 11:30-11:45 AM Panel Discussion **Pre-Conference Concludes** 11:45 AM

Sydney, Australia

ELSO 33rd Annual Conference - "Leading ECMO Globally"								
Day 1 - Thursda 1:00-2:30 PM	y September 15, 2022 (1:00 PM to Opening Remarks & Keynote Ad	•						
1:00-1:05 PM	Salon A-K Welcome Remarks Matthew Paden, MD Atlanta, G	GA LISA						
1:05-1:35 PM	Keynote Address Derek Angus, MD, MPH Pittsbu	·						
	•	Plenary Session: Science at the Cutting Edge: ECLS and Beyond Moderators: Susanna Price, MD London, UK and Navin Kapur, MD Boston, MA, USA						
1:35-1:45 PM	50th Anniversary of 1st ECMO Ca J. Donald Hill, MD, FELSO San F							
1:45-1:55 PM	New Frontiers of ECLS in Cardiov Roberto Lorusso, MD, PhD, FELSO	ascular Medicine						
1:55-2:05 PM	Pediatric ECMO Research and Tri Peta Alexander, MBBS Boston,	ū						
2:05-2:15 PM	Pushing Boundaries: Experience Bart Griffith, MD Baltimore, MI	in Xenotransplan	tation					
2:15-2:30 PM	Panel Discussion	.,						
2:30-3:00 PM		Break v	with Exhibitors and Poster Presen	tations				
3:00-4:00 PM	Breakout 1, Salon A-E		Breakout 2, Salon F		Breakout 3, Salon G-K			
	ECMO and the Pregnant Patient: Two Lives at Stake		Congenital Heart Disease: From Cradle to Drivers Licenses and Beyond		Maintaining a High Functioning ICU Team: What the Pandemic Revealed			
	Bjorn Frenckner, MD, PhD, FELSO Stockholm, Sweeden Kollengode Ramanathan, MBBS, Singapore		René Gómez Gutiérrez, MD Monterrey, Mexico Ravi Thiagarajan, MD, FELSO Boston, MA, USA		Jim Fortenberry, MD, FELSO Atlanta, GA, USA			
3:00-3:08 PM	ECMO in Pregnancy: Evidence and Management Approaches	3:00-3:08 PM	How Does a Robust ECMO Service Support Congenital Cardiac Surgery Programs?	3:00-3:08 PM	The Shadow Side: PTSD and Moral Injury in Critical Care			
	Cara Agerstrand, MD New York, NY, USA		Michael McMullan, MD Seattle, WA, USA		Ahmed Labib, MB, BCh, MSc Doha, Qatar			
3:10-3:18 PM	A Dangerous Combination: Management Considerations in the Pregnant Patient with Pulmonary Hypertension	3:10-3:18 PM	How are we Approaching Neonatal ECMO for Babies with Congenital Heart Disease?	3:10-3:18 PM	Pandemic Challenges and Solutions in ECMO Nursing			
	Erika Berman, MD New York, NY, USA		Eleonore Valencia, MD Boston, MA, USA		TBD			
3:20-3:28 PM	Looking After the Little One: Fetal Monitoring and Physiologic Optimization	3:20-3:28 PM	TBD	3:20-3:28 PM	Creating a Culture of Resilience in Your ECMO Team			
	Farah Siddiqui, MD London, UK		Diana Geisser, MD Boston, MA, USA		Katherine Porterfield, PhD New York, NY, USA			
3:30-3:38 PM	The Baby's Coming: Delivery Planning on ECMO and Consultation for High Risk Deliveries	3:30-3:38 PM	How do we Support Patients and Families as They Return for Planned Surgeries After a Complicated Post-Op Course?	3:30-3:38 PM	Where Do We Go From Here: How the Pandemic Will Change ICU Care			
	Priya Nair, MD		Nneka Alexander, PhD		Heidi Dalton, MD, FELSO			

Atlanta, GA, USA

Scottsdale, AZ, USA

	Remarkable Case: The Power of		How is ECMO for Congenital		
3:40-3:48 PM	What's Possible	3:40-3:48 PM	Heart Disease Different When		
			My Patient Has a Beard?	3:40-4:00 PM	Panel Discussion
	Peter Barrett, MD		Marc Anders, MD		
2 5 2 4 2 2 5 4 4	Atlanta, GA, USA	2 5 2 4 2 2 5 1 4	Houston, TX, USA		
3:50-4:00 PM	Panel Discussion	3:50-4:00 PM	Panel Discussion		for the state of
			Separate Registr	•	
4:00-4:10 PM	Transition Time	4:00-5:30 PM	Heart Lab #3, Boylston Room	4:00-5:30 PM	Heart Lab #4, Tremont Room
			Kasia Hryniewicz, MD		Karol Mudy, MD
			Jonathan Haft, MD		Michael McMullan, MD
4:10-5:30 PM	Breakout 4, Salon A-E		Breakout 5, Salon F		Breakout 6, Salon G-K
	Cutting Edge in ARDS: The Science and the Management		Cardiogenic Shock Demystified		All About the Oxygen: Optimizing Perfusion During ECMO
	Daniel Brodie, MD, FELSO New York, NY, USA		Alain Combes, MD, PhD, FELSO Paris, France		Justin Sleasman, CCP Stanford, CA, USA
	Duele and FCNAO for ADDC.		Pathophysiology of Cardiogenic		Tissue Oxygenation During
4:10-4:18 PM	Prolonged ECMO for ARDS: Clinical Strategies for Success	4:10-4:18 PM	Shock: From Bench to Simulation Modeling		ECMO: Monitoring and Clinical Impact
	Eddy Fan, MD, PhD		Daniel Burkhoff, MD, PhD		Dana Mullin, CCP
	Toronto, Canada		New York, NY, USA		New York, NY, USA
			The Inflammatory Field of		Gotting Pid of Limb Isabamia in
4:20-4:28 PM	Prone Positioning During	4:20-4:28 PM	Microcirculatory Disturbance in		Getting Rid of Limb Ischemia in Peripheral VA ECMO: Utopia or
7.20-4.20 FIVI	ECMO: To Flip or Not To Flip	7.20-4.20 PIVI	Cardiogenic Shock: How ECMO	7.20-4.20 PIVI	Fact
			Can Win This Battle		ract
	Kollengode Ramanathan, MBBS, L	ONB	John Fraser, MB, ChB, PhD, FELSO		Giles Peek, MD, FELSO
	Singapore		Brisbane, Australia		Gainesville, FL, USA
	Personalized Approaches to				Transfusion Practices in ECMO:
4:30-4:38 PM	Protective Ventilation and	4:30-4:38 PM	Cardiogenic Shock Definitions:		What We've Learned from
	Respiratory Mechanics in ARDS		SCAI Criteria Revised		PROTECMO
			Jameifor Courses AAD AAC		
	Sarina Sahetya, MD, MHS		Jennifer Cowger, MD, MS		Gennaro Martucci, MD
	Baltimore, MD, USA		Detroit, MI, USA		Palermo, Italy
	Impact of Spontaneous		VA FCNAO James II		Refractory Hypoxemia on VV
4:40-4:48 PM	Breathing During Ventilation on Lung Injury, with and without	4:40-4:48 PM	VA ECMO, Impella, or Both: What is the Algorithm?		ECMO: Medical and Mechanical Solutions
	ECMO		Mayin Kanur AAD		
	Ewan Goligher, MD, PhD		Navin Kapur, MD		Heidi Dalton, MD, FELSO
	Toronto, Canada		Boston, MA, USA		Scottsdale, AZ, USA
	Debate: Prolonged COVID-19		Biventricular Dysfunction:		Debate: Bivalirudin vs Heparin
4:50-5:18 PM	ARDS: Bridge to Recovery or		Pitfalls, Approach, and		for ECMO Anticoagulation: Are
	Bridge to Transplant?		Management		We Ready To Go to DTIs?
	Ankit Bharat, MD		Leonardo Salazar, MD		Bishoy Zakhary, MD
	Chicago, IL, USA		Bucaramanga, Colombia		Portland, OR, USA
	Nicholas Barrett, MD		Future Therapies in Cardiogenic		Gail Annich, MD, FELSO
	London, UK	5:00-5:08 PM	Shock: Next Gen Approaches		Toronto, Canada
			Susanna Price, MD		
			London, UK		
5:20-5:30 PM	Panel Discussion	5:10-5:30 PM	Panel Discussion	5:20-5:30 PM	Panel Discussion
	Exhibit Hall		Salon E		
5:30-7:00 PM	Poster Presentations	5:30-6:30 PM	PediECMO Meeting		
Day 2 - Friday S	eptember 16, 2022				
7:00-8:00 AM	Breakfast Meet and Greet with the	ne Steering Com	mittee		
, .oo o.oo Aivi	Exhibit Hall	.c steering colli			
8:15-9:30 AM	Plenary Day 2: Critical Care in the Salon A-K	Media			
			SO Singapore and Cara Agerstra	nd, MD New Y	ork, NY, USA
8:15-8:35 AM	The Influence of Media and Socia		ractices		

Daniel Brodie, MD, FELSO | New York, NY, USA

8:35-8:55 AM	A Journalist's Perspective: What Gideon Gil, MS Boston, MA, US		ders Need to Know		
8:55-9:10 AM	Update from ELSO				
9:10-9:30 AM	Christine Stead, MHSA Ann Arb Panel Discussion	or, IVII, USA			
9:30-10:00 AM		Break v	vith Exhibitors and Poster Presen	tations	
10:00-11:00 AM	Breakout 7, Salon A-E		Breakout 8, Salon F		Breakout 9, Salon G-K
	ECCO2R: State of the Science for Respiratory Failure		Challenges in Venoarterial ECMO and MCS		Congenital Diaphragmatic Hernia: ECMO Challenges & Considerations
	Jenelle Badulak, MD Seattle, WA, USA Thomas Mueller, MD, FELSO Regensburg, Germany		Kasia Hryniewicz, MD Minneapolis, MN, USA Vincent Pellegrino, MD Melbourne, Australia		Holly Hedrick, MD Philadelphia, PA, USA Matteo Di Nardo, MD Rome, Italy
10:00-10:08 AM	ECCO2R for ARDS: Where do we go from REST?		Supporting, Bridging, Weaning: A Practical Approach to Patients Receiving Temporary MCS	10:00-10:08 AM	What We Know About Center Volume and ECMO Outcomes
	TBD		Alain Combes, MD, PhD, FELSO Paris, France		Yigit Guner, MD Orange, CA, USA
10:10-10:18 AM	What's Next in Clinical Trials in ECCO2R for COPD		When to Think of Myocardial Recovery: Unloading and Reloading	10:10-10:18 AM	Surgery on ECMO: Timing and Technique
	TBD		Jane Wilcox, MD, MSc Chicago, IL, USA		Holly Hedrick, MD Philadelphia, PA, USA Katie Russell, MD Salt Lake City, UT, USA
10:20-10:28 AM	On the Horizon: Device Development in ECCCO2R	10:20-10:28 AM	Axillary Access: When and How	10:20-10:28 AM	How to Manage the Neonatal Lung: Ventilator Strategies on ECMO
	Steven Keller, MD, PhD, MPhil Baltimore, MD, USA		Koji Takeda, MD, PhD New York, NY, USA		Diana Vargas, MD New York, NY, USA Matteo Di Nardo, MD Rome, Italy
10:30-10:38 AM	Impact of ECCO2R on Pulmonary Hypertension and the Right Ventricle	10:30-10:38 AM	ECMO in Extreme Obesity: Does BMI Matter?	10:30-10:38 AM	On the Road to Recovery: The Threshold for Decannulation
	Corey Ventetuolo, MD, MS Providence, RI, USA		Roberto Lorusso, MD, PhD, FELSO Maastricht, Netherlands)	Thomas Schaible, MD Mannheim, Germany
10:40-11:00 AM	Panel Discussion	10:40-11:00 AM	Panel Discussion	10:40-11:00 AM	Panel Discussion
					Thomas Schaible, MD Diana Vargas, MD Matteo Di Nardo, MD Lakshmi Raman, MD
11:00-11:10 AM			Transition Time		
11:10 AM- 12:10 PM	Breakout 10, Salon A-E		Breakout 11, Salon F		Breakout 12, Salon G-K
	COVID-19: What's the Evidence in 2022?		Too Much of a Good Thing? Leveraging Data for Management of the Sickest Patients in the ICU		Adventures in ECMO: Bedside Essentials
	Eddy Fan, MD, PhD Toronto, Canada		Joseph Tonna, MD, MS Salt Lake City, UT, USA		David Hebert, RRT, NPS New Orleans, LA, USA Erik Osborn, MD Fairfax, VA, USA

11:10-11:18 AM	ECMO for ARDS in COVID-19: Effective Therapy or Wishful Thinking?	11:10-11:15 AM	QI to Come: Improving Care with Machine Learning Models	11:10-11:18 AM	Patient Assessment, Head to Toe: What I Want My Team to Know
	Martin Urner, MD		Joshua Fuller		Whitney Gannon, MSN, ACNP- BC
	Toronto, Canada		New York, NY, USA		Nashville, TN, USA
11:20-11:28 AM	Phenotypes in COVID-19 ARDS: What We've Learned	11:15-11:23 AM	How Can we Innovate ECMO Components to Leverage and Support AI at the Bedside?	11:20-11:28 AM	Continuous Renal Replacement Therapy and Plasmapheresis on ECMO: Bedside Essentials
	David Furfaro, MD Boston, MA, USA		James Beck, CCP New York, NY, USA		Leen Vercaemst, CCP Leuven, Belgium
11:30-11:38 AM	Cytokine Storm in COVID-19: Fact or Fiction	11:25-11:33 AM	How Can EHR-Derived AI Inform Learning Healthcare Models in ECMO?	11:30-11:38 AM	Protecting the Largest Organ: Skin and Cannula Care
	Daniel Leisman, MD Boston, MA, USA		Shelly DeForte, PhD, MS Columbus, OH, USA		Erin August, RN, MSN Hollywood, FL, USA
		11:35-11:43 AM	What Are the Barriers to Al Informed Management Models of ECMO at Payer and Corporate Governance Levels?		
11:40-11:48 AM	Severe COVID in the Pediatric		Jeffrey Geppert, JD, MEd	11:40-11:48 AM	Managing the Awake Patient on
	Population Melania Bembea, MD, PhD, MPH Baltimore, MD, USA	,	Columbus, OH, USA		Jayne Sheldrake, MSc, RN Melbourne, Australia
	24		Standardized Clinical		The south of the south and
			Assessment and Management		Lessons Learned in ECMO
		11:45-11:53 AM	Plans (SCAMPs): A Learning Healthcare Model Applied to ECMO	11:50-11:58 AM	Transport: Specialists on the Move
			Peta Alexander, MBBS		Bradley Kuch, RRT, NPS
11:48 AM- 12:10 PM	Panel Discussion	11.55 004	Boston, MA, USA	11.50 004	Pittsburgh, PA, USA
12.10 F W		11:55 AM- 12:10 PM	Panel Discussion	11:58 AM- 12:10 PM	Panel Discussion
12:10-1:30 PM			all and Poster Presentations, Lun		
	Sponsored Talk #1 (Sal	•	onsored Talks Salon A-E, Salon G 12:30 - 1:15 PM		red Talk #2 (Salon G-K)
	Future Trends in ECLS and Po Transitions (Talk Sponsored	st-Pandemic		Management t	herapy: Optimal Timing & o Rest & Recover with Impella ponsored by Abiomed)
	Jason Bartos, MD Minneapolis,	MN, USA		Speakers TBD	
	Christina Creel-Bulos, MD Atlan	ta, GA, USA			
1:30-2:50 PM	Breakout 13, Salon A-E		Breakout 14, Salon F State of the Art in		Breakout 15, Salon G-K
	Innovation in ECMO		Resuscitation: ECPR at the Cutting Edge		Humanity in the ICU: Ethics and Palliative Care
	Palle Palmer, MD Solna, Sweden		Simon Finney, MB, ChB, PhD London, UK		Luiz Caneo, MD, PhD Sao Paulo, Brazil Mark Ogino, MD, FELSO Wilmington, DE, USA
4 20 4 22	The Next Frontier in ECMO	4 20 4 55 50	Pathophysiology and	4 20 4 55 5	Palliative Care: Integrative
1:30-1:38 PM	Devices and Non-Invasive Monitoring	1:30-1:38 PM	Hemodynamics of Cardiac Arrest	1:30-1:38 PM	Approaches in ECMO and Critical Care
	James Beck, CCP		Andrea Elliot, MD		Whitney Kiker, MD
	New York, NY, USA		Minneapolis, MN, USA		Seattle, WA, USA
1:40-1:48 PM	Innovations in the ECMO Lab: Insights from Dr. Bartlett	1:40-1:48 PM	ECPR for OHCA: Time to Change the Practice?	1:40-1:48 PM	Organ Donation from ECMO: Brain Death and DCD
	Robert Bartlett, MD, FELSO		Jan Belohlavek, MD, PhD		Emily Vail, MD, MSc
	Ann Arbor, MI, USA		Prague, Czech Republic		Philadelphia, PA, USA

1:50-1:58 PM	Translating Your Ideas to Patient Care		There's no "I" in ECPR: Developing a High Functioning ECPR Team	1:50-1:58 PM	Challenging Case: End of Life in Pediatric ECMO
2:00-2:08 PM	Janene Fuerch, MD Stanford, CA, USA It Takes a Village (and a Grant): Getting Your ECMO Study Funded	2:00-2:08 PM	Vincent Pellegrino, MD Melbourne, Australia Pediatric ECPR: Where we Stand with Research and Trial Design	2:00-2:08 PM	Grace van Leeuwan, MD Doha, Qatar From the Family's Perspective: What I Would Want the ICU to Know
	Melania Bembea, MD, PhD, MPH Baltimore, MD, USA		John Kheir, MD Boston, MA, USA		David Furfaro, MD Boston, MA, USA
2:10-2:18 PM	Innovation in ECMO from the FDA's Perspective	2:10-2:28 PM	Debate : ECPR versus Opening the Chest for Post-Cardiotomy Arrest? Is there a Gold Standard?	2:10-2:28 PM	Debate - How Do We Justly Allocate ECMO in Resource Limited Settings: Should Expected Surival and Quality of Life Impact ECMO Candidacy?
	Nicole Gillette, BS Silver Spring, MD, USA		Karol Mudy, MD Minneapolis, MN, USA Jonathan Haft, MD Ann Arbor, MI, USA		Wynne Morrison, MD, MBE Philadelphia, PA, USA Kiran Shekar, MBBS, PhD Queensland, Australia
2:20-2:50 PM	Panel Discussion	2:30-2:50 PM	Panel Discussion	2:30-2:50 PM	Panel Discussion
2:50-3:20 PM		Break	with Exhibitors and Poster Presenta	ations	
3:20-4:20 PM	Breakout 16, Salon A-E		Breakout 17, Salon F		Breakout 18, Salon G-K
	Surgical Controversies in ECMO: Management Strategies and Expert Discussion		Expanded Uses for VA ECMO: A New Weapon in Our Hands for Complex Conditions		ELSO Research Grant and Oral Abstract Presentations
	Heidi Dalton, MD, FELSO Scottsdale, AZ, USA Bishoy Zakhary, MD Portland, OR, USA		Roberto Lorusso, MD, PhD, FELSO Maastricht, Netherlands Pranya Sakiyalak, MD Bangkok, Thailand		Eddy Fan, MD, PhD Toronto, Canada
3:20-3:28 PM	Put a Tube In It? Chest Tubes and Management of the Pleural Space	3:20-3:28 PM	Prophylactic MCS in Cardiac Surgery: A New Weapon in Our Hands in Complex Procedures	3:20-3:25 PM	Association between Disrupted Cerebral Autoregulation and Radiographic Neurologic Injury for Children on ECMO: A Pilot Study
	Nathalie Roy, MD Boston, MA, USA		Scott Silvestry, MD Orlando, FL, USA	3:25-3:30 PM	Ethan Sanford Dallas, TX, USA Platelet Function in Pediatric ECMO Patients Colin Mowrer
3:30-3:38 PM	Tracheostomy: Timing & Technique	3:30-3:38 PM	Mechanical Complications of MI: Timing of Repair	3:30-3:35 PM	Family Priorities in Pediatric ECMO Recovery: A Single Center Survey Study
	Philippe Lemaitre, MD, PhD New York, NY, USA		Jonathan Haft, MD Ann Arbor, MI, USA	3:35-4:00 PM	Elizabeth Herrup Pittsburgh, PA, USA Improving Neurologic Outcomes After Respiratory Arrest Using a Porcine ECPR Model
3:40-3:48 PM	RV Failure in ARDS: When to Convert to VA or VPA Phillip Mason, MD San Antonio, TX, USA	3:40-3:48 PM	ECMO in Septic Shock? When is VA the Answer? Graeme MacLaren, MBBS, MSc, FELSO Singapore	4:00-4:05 PM	Alejandro Garcia Baltimore, MD, USA Does an Educational Video Improve Parental Understanding of ECMO? Rachael Sundland Chicago, IL

MCS as a Bridge to

Cannulation Complications and

3:50-3:58 PM 4:00-4:20 PM	Surgical Mishaps: What Can Happen & How to Avoid Michael McMullan, MD Seattle, WA, USA Panel Discussion		Transplantation: Lessons from New Allocation System Amy Hackmann, MD Dallas, TX, USA Panel Discussion	4:05-4:10 PM 4:10-4:20 PM	Automated pupillometry for the prediction of neurologic outcomes in children requiring ECMO Nicolle Diaz Dallas, TX, USA Panel Discussion
4:20-4:30 PM			Transition Time		
4:30-5:30 PM	Breakout 19, Salon A-E		Breakout 20, Salon F		Breakout 21, Salon G-K
	ECMO in Pandemics: Preparing for the Next One		Neurologic Injury During ECMO		Neonatal ECMO: Next Gen Approaches for the Next Gen - Expert Panel and Moderated Discussion
	Gail Annich, MD, FELSO Toronto, Canada		Ravi Thiagarajan, MD, FELSO Boston, MA, USA Aparna Hoskote, MD London, UK		Natalie Rintoul, MD Philadelphia, PA, USA Javier Kattan, MD Santiago, Chile
4:30-4:38 PM	Coordination of a National ECMO Infrastructure: Challenges and Lessons Learned	4:30-4:38 PM	Strategies for Early Recognition of Brain Injury in the ECMO Patient	4:30-4:38 PM	Update on the Venovenous Dual Lumen Cannula in Neonates
	Rodrigo Diaz, MD, FELSO Santiago, Chile		Lakshmi Raman, MD Dallas, TX, USA		Brian Gray, MD Indianapolis, IN, USA Panel Discussion:
4:40-4:48 PM	Why Don't We Coordinate ECMO Services Across Regions?	4:40-4:48 PM	Beyond Medical Management in Embolic CVA	4:40-5:30 PM	Time to Change from Roller to Centrifugal Pumps? Contemporary Approaches to Anticoagulation in the Neonate.
4:50-4:58 PM	Vincent Pellegrino, MD Melbourne, Australia ECMO Research in Pandemics: What We Need in Place Ewan Goligher, MD, PhD Toronto, Canada	4:50-4:58 PM	Alfred See, MD Boston, MA, USA Neurologic Complications on Pediatric ECMO Aparna Hoskote, MD London, UK		Robert Digeronimo, MD Seattle, WA, USA Francesca Miquel-Verges, MD Little Rock, AR, USA John Daniel, MD, MS
5:00-5:08 PM	Considerations in ECMO Access and Equity	5:00-5:08 PM	Rare but Devastating: Anterior Spinal Cord Stroke in VA ECMO		Kansas City, KS, USA
	Anna Condella, MD, MA Seattle, WA, USA		Simon Finney, MB, ChB, PhD London, UK		Carly Heyrend, PharmD Salt Lake City, UT, USA
5:10-5:18 PM	ELSO's Role in Future Pandemics	5:10-5:18 PM	Optimization of Cerebral Perfusion on ECMO after Cardiac Arrest		Nicholas Carr, DO Salt Lake City, UT, USA
5:20-5:30 PM	Matthew Paden, MD Atlanta, GA, USA Panel Discussion	5:20-5:30 PM	Thomas Mueller, MD, FELSO Regensburg, Germany Panel Discussion		Kathleen Ryan, MD Stanford, CA, USA
6:00-7:00 PM Exhibit Floor	Evening Reception				
7:00-8:00 PM Salon E-F-G	Award Ceremony Award of Excellence, FELSO, Best	Abstract			

Day 3-Saturday September 17, 2022 (8 AM to 12 PM)	
7.00-8.00 AM	

7:00-8:00 AM					
Salon E	Directors' Meeting with Breakfast	Salon G	Coordinators' Meeting with Breakfast	Exhibit Hall	Breakfast - For All Other Attendees
8:30-9:30 AM	Breakout 22, Salon A-E		Breakout 23, Salon F		Breakout 24, Salon G-K
	ECMO for Lung Transplantation		ECMO, VAD, and Everything in Between: How Can Evidence Inform the Best MCS Strategy for Children with Heart Failure		ELSO Registry Session
	Amy Hackmann, MD Dallas, TX, USA William Lynch, MD Ann Arbor, MI, USA		Peta Alexander, MBBS Boston, MA, USA Giles Peek, MD, FELSO Gainesville, FL, USA Decision Making for Control vs.		Joseph Tonna, MD, MS Salt Lake City, UT, USA
8:30-8:38 AM	A New Indication? Lung Transplant in the Post-COVID Patient Marcelo Cypel, MD, MSc	8:30-8:38 AM	Decision-Making for Central vs Peripheral (and Upper vs Lower Body) VA-Cannulation Francis Fynn-Thompson, MD	8:30-8:38 AM	Updates to the SOC Data Request Process and Proposal Reviews Kollengode Ramanathan,
	Toronto, Canada		Boston, MA, USA		MBBS, DNB Singapore Aparna Hoskote, MD London, UK Marc Anders, MD Houston, TX, USA
8:40-8:48 AM	BTT Consults from Afar: Pre- Transplant Evaluation of Patients on ECMO	8:40-8:48 AM	Patients with Cardiogenic Shock Should be Supported with VAD	8:40-8:48 AM	Using the ELSO Registry for Research
	Anil Trindade, MD Nashville, TN, USA		Angela Lorts, MD, MBA Cincinnati, OH, USA		E. WIlson Grandin, MD Boston, MA, USA Erika O'Neil, MD
8:50-8:58 AM	Optimizing Physiologic Support for BTT: Why the RV Matters	8:50-8:58 AM	The Case for Patients with Cardiogenic Shock Being Supported with ECMO		Industry use of the ELSO Registry to Support Device Approval and Surveillance
	Jasleen Kukreja, MD, MPH San Francisco, CA, USA New Frontiers in ECLS for Donor		Graeme MacLaren, MBBS, MSc, F Singapore Patients with Cardiogenic Shock	FELSO	Phil Boonstra, PhD Ann Arbor, MI, USA
9:00-9:08 AM	Organ Preservation and Recovery	9:00-9:08 AM	Need Impella (With or Without ECMO)	9:00-9:08 AM	Clinical Practice
	Rei Ukita, PhD Nashville, TN, USA		Sebastian Tume, MD Houston, TX, USA		Elliott Cohen, MD Nashville, TN, USA
9:10-9:30 AM	Panel Discussion	9:10-9:30 AM	Panel Discussion	9:10-9:30 AM	Panel Discussion
9:30-9:40 AM			Transition Time		
9:40-10:40 AM	Breakout 25, Salon A-E		Breakout 26, Salon F		Breakout 27, Salon G-K
	A Breath of Fresh Air: Hot Topics in Pediatric Respiratory ECMO		Award of Excellence		Let's Get Moving: Physical Rehabilitation During ECMO
	Thomas Brogan, MD, FELSO Seattle, WA, USA		Tracy Morrison, RN, FELSO Dayton, OH, USA		Craig Rackley, MD Durham, NC, USA Dana Mullin, CCP New York, NY, USA
9:40-9:48 AM	ECMO in Bone Marrow / Stem Cell Transplant: Expert Consensus Review	9:40-9:50 AM	The ELSO Award of Excellence: Blueprint for Building a Quality Centric Program	9:40-9:48 AM	Physical Therapy in Critical Illness: Standard of Care in ECMO?
	Matteo Di Nardo, MD Rome, Italy		Cory Ellis, CCP, FELSO Aurora, CO, USA		Hussein Kanji, MD Vancouver, Canada
9:50-9:58 AM	Airway and Tracheostomy Management in Pediatric ECMO	9:52-10:05 AM	The ELSO Quality Reporting Platform: Arbormetrix and Excellence	9:50-9:58 AM	Safety First: Developing a Rehabilitation Program for ECMO Patients
	Joseph Kohne, MD Ann Arbor, MI, USA		Harry Kallas, MD Fresno, CA, USA		Bernadette Elliott, RN, CEN San Antonio, TX, USA

10:00-10:08 AM	PEACE Out: The Pediatric ECMO Anticoagulation Collaborative (PEACE) Consensus	10:05-10:20 AM	Achieving Excellence: Designing Safe Staffing Strategies During a Surge	10:00-10:08 AM	The Next Hurdle: Mobilization During VA ECMO
	Jennifer Muszynski, MD, MPH Columbus, OH, USA		Vincent Pellegrino, MD Melbourne, Australia		Darryl Abrams, MD New York, NY, USA
10:10-10:18 AM	What Comes Next: What We Know About Long-Term Outcomes in Pediatric ECMO			10:10-10:18 AM	Mobility in Pediatric ECLS Patients
	Laurance Lequier, MD Edmonton, Canada				Desiree Bonadonna, MPS, CCP Durham, NC, USA
10:20-10:40 AM	Panel Discussion	10:20-10:40 AM	Panel Discussion	10:20-10:40 AM	Panel Discussion
10:40-10:50 AM			Transition Time		

10:50-11:50 AM Closing Remarks, Salon A-E

Matthew Paden, MD | Atlanta, GA, USA and Grame MacLaren, MBBS, MSc, FELSO | Singapore

Conference Highlights

Keynote Address

Derek Angus, MD, MPH Chair, Department of Critical Care Medicine Associate Vice Chancellor for Healthcare Innovation University of Pittsburgh & UPMC

When:

Thursday, September 15th, 2022 1:00 PM EST Salon A-K



Derek Angus oversees UPMC's clinical research, implementation science and data analytics, with a particular emphasis on UPMC's learning health system initiatives. He also is associate vice chancellor for Healthcare Innovation at the University of Pittsburgh Schools of the Health Sciences. He is a distinguished professor and holds the Mitchell P. Fink Endowed Chair in Critical Care Medicine at the University of Pittsburgh, with secondary appointments in Medicine, Health Policy and Management, and Clinical and Translational Science. Since 2008, Dr. Angus has served as chair of the Department of Critical Care Medicine. Since 2015, he also has been the physician director of the UPMC ICU Service Center, responsible for the provision of ICU services across the 30-plus hospital system. He also is a senior editor at JAMA.

Heart Lab

Join ELSO faculty in an immersive lab experience and discussion of heart anatomy and cardiac complications of ECMO cannulation. Learners will work in small groups to implant an LVAD cannula as part of this integrated learning opportunity. The Heart Lab is ideal for proceduralists and anyone wishing for a deeper understanding of heart anatomy, function & ECMO complications.

There are four Heart Lab sessions, and each is limited to 50 learners. An additional fee applies. Please see the Registration Desk for additional information.



Plenary Sessions

1st Session: Thursday September 15, 2022 Science at the Cutting Edge: ECLS and Beyond

1:00 - 2:30 PM

Global experts in ECMO and ECLS technology present the latest trends in cardiovascular medicine, pediatric ECMO, and xenotransplantation. In this session, we are proud to feature legendary ECMOlogist and seminal figure in life support technology J. Donald Hill, MD, FELSO. This session is moderated by Susanna Price, MD and Navin Kapur, MD.

Highlights:

50th Anniversary of the First ECMO Case featuring J. Donald Hill, MD, FELSO New Frontiers of ECLS in Cardiovascular Medicine, Roberto Lorusso, MD PhD FELSO Pediatric ECMO Research and Trial Design , Peta Alexander, MBBS Pushing Boundaries: Experience in Xenotransplantation, Bart Griffith, MD Panel Discussion

Conference Highlights

Plenary Sessions

2nd Session: Friday September 16, 2022

Critical Care in the Media

8:15 - 9:30 AM

Leading experts discuss the influence of media and social media in COVID-19 and critical care medicine practice with leading physicians & journalists. Also presented are an update on ELSO's global work and a sneak preview of the recently released Sixth Edition of The Red Book. This session is moderated by Graeme MacLaren, MBBS, MSc, FELSO and Cara Agerstrand, MD.

We are pleased to have Gideon Gil share the Journalist's Perspective in this session. Gideon is the Managing Editor at STAT, overseeing STAT's investigative journalism, special projects, and science coverage. He joined STAT at its founding in 2015. He previously was the Boston Globe's health and science editor for a decade, with a hand in three Pullitzer Prizes.

Session Title: Critical Care in the Media

The Influence of Media and Social Media on our Practices, Dan Brodie, MD FELSO A Journalist's Perspective: What Healthcare Providers Need to Know, Gideon Gil, MS Update from ELSO, Christine Stead, MHSA Special Preview of The Red Book, 6th Edition, Graeme MacLaren, MBBS, MSc, FELSO

Sponsored Talks

Friday September 16: 12:30 - 1:15 PM

Sponsored Talk #1 Future Trends in ECLS and Post-Pandemic Transitions

Sponsored by Getinge

Salon A-E

Featured Speakers: Jason Bartos, MD (University of Minnesota, Minneapolis, MN, USA) and Christina Creel-Bulos (Emory Healthcare, Atlanta, GA, USA)

Sponsored Talk #2 ECpella™ Therapy: Optimal Timing & Management to Rest & Recover with Impella Sponsored by Abiomed

Moderated by Dr. Sanjeev Aggarwal, Vice President - Global Clinical and Medical Affairs, Surgical Therapies, Abiomed, Inc.

Salon G-K

Talk Description: An increasing evidence and publications have noted the clinical benefits of LV-unloading with Impella 5.5® and Impella CP® in conjunction with VA ECMO configurations. With clinical benefit established, the MCS community is now discussing the optimal timing to introduce Impella, managing ECpella in the ICU, and how and when to wean ECMO with recovery in mind. Join this event to engage in the discussion with leading global physicians at the forefront of ECpella adoption and learn how they use ECpella at their institutions to advance patients to recovery or as a bridge to transplant.

During Friday's Lunch Break, please join our sponsors for a lunch and learn opportunity. These sponsored talks are not eligible for continuing education; however, they are excellent opportunities to connect with the very latest ECLS technology. Attendees will have time to get lunch from the buffet prior to these concurrent sessions.

Conference Highlights

Social Events

Throughout our time in Boston, ELSO has planned a variety of social events. Some are well-established favorites, as well as a few new opportunities to gather. We look forward to celebrating with you!

Thursday September 15, 2022
Poster Presentations (see next page for details)
5:30 – 7:00 PM
Exhibit Floor

Friday September 16, 2022 Breakfast Meet and Greet with the Steering Committee 7:00 – 8:00 AM Exhibit Floor

Evening Reception

6:00 – 7:00 PM Exhibit Floor

Awards Ceremony: FELSO, Award of Excellence, Best Abstract, Past Steering Committee & Board Members
7:00 – 8:00 PM
Salon E – F – G

Saturday September 17, 2022
Directors' Meeting with Breakfast
7:00 – 8:00 AM
Salon E

Coordinators' Meeting with Breakfast 7:00 – 8:00 AM Salon G



Poster Presentations Abstracts and Select Centers of Excellence

Congratulations to ELSO's abstract submitters and select Centers of Excellence. ELSO received ~300 abstracts for review this year; the most ever. Posters are available for viewing next to the Exhibit Hall on the 3rd Floor.

Please join us for a social event with cash bar on Thursday, Sepbember 15, from 5:30 - 7:00 PM.

Authors are looking forward to sharing their work with you!

Doctor	Author/Name	Title
Poster 1	Ascension Seton Medical Center Austin	ELSO Center of Excellence Blue Ribbon Poster
_	ECMO Centrum Karolinska	ELSO Center of Excellence Blue Ribbon Poster
	Advocate Children's Hospital Oak Lawn	ELSO Center of Excellence Blue Ribbon Poster
	Memorial Regional Hospital	ELSO Center of Excellence Blue Ribbon Poster
	Vancouver General Hospital	ELSO Center of Excellence Blue Ribbon Poster
6	Ashok Babu	Novel Technique for Off Pump Implantation of Ambulatory Central ECMO with Left Ventricular
		Unloading
7	Malgorzata Celinska-Spodar	Arterial hyperoxia and mortality in patients undergoing venoarterial extracorporeal membrane
		oxygenation.
8	Ignazio Condello	Micro Embolic Activity During Cavitation and type of Gas involved on ECMO and Minimal Invasive
		Extracorporeal Circulation.
9	Adam Dalia	Nighttime and Weekend Adult Venoarterial ECMO cannulation is not associated with Increased 1-
		year Mortality
	Ben Deverett	Clinical trajectories of neurologic complications on ECMO
11	Hussam Elmelliti	Outcomes of patients with cardiac arrest on extracorporeal cardiopulmonary resuscitation: A
- 10		Single Center Retrospective Study in the Middle East
12	Tony Espinoza	Utilization of Veno-Arterial Extracorporeal Membrane Oxygenation (VA ECMO) in the setting of
40		beta-blocker, calcium channel blocker, and combined overdoses: A single-center case series
13	Tony Espinoza	Improved Survival with Use of Veno-Arterial Extracorporeal Membrane Oxygenation (VA ECMO)
1.1	Kara Francisk	in Patients with Acute Pulmonary Embolism Presenting with Severe Cardiogenic Shock
14	Kay Everett	Left ventricular unloading reduces right ventricular preload and afterload in patients with acute decompensated heart failure and cardiogenic shock
15	Neil Harwani	ECMO Use and In-Hospital Mortality Among Patients in Cardiogenic Shock: Insights from the
13	Nell Hal Walli	Cardiogenic Shock Working Group
16	Keri Hickman	Arterial cannula position monitoring by daily femoral head x-ray
	Inseok Jeong	Hypoalbuminemia during extracorporeal membrane oxygenation support is associated with in-
	miscok scong	hospital mortality
18	Akhil Kallur	The Impact of Different Stages of Acute Kidney Injury on Mortality and Discharge Outcomes for
		Patients on Venoarterial Extracorporeal Membranous Oxygenation
19	Andrew Kalra	Racial and Ethnical Disparity in Hypoxemia Detection in Patients Receiving ECMO
20	Andrew Kalra	Discrepancy in Pulse Oximetry (SpO2) and Arterial Gas Oxygen Saturation (SaO2) Levels in ECMO
		Cannulation Strategies
21	Jason Kalvelage	Retrospective Cohort Analysis of Platelet Inhibitor Therapy in Children and Adults Supported on
		Extracorporeal Membrane Oxygenation
22	Barkın Kültürsay	Impact of extracorporeal cardiopulmonary resuscitation on neurologic outcome in patients with
		acute coronary syndrome: Single centre experience
23	Ryan Ling	Extracorporeal cardiopulmonary resuscitation for cardiac arrest: a systematic review and meta-
		analysis
24	Ryan Ling	Extracorporeal membrane oxygenation for pulmonary embolism: A systematic review and meta-
25	Pyan Ling	analysis Immunomodulators in patients receiving extracorporeal membrane oxygenation for COVID-19: a
25	Ryan Ling	propensity-score weighted analysis of the ELSO registry.
26	Kaitlyn Lingle	Location of Cardiac Arrest Does Not Correlate with Survival in Extracorporeal Cardiopulmonary
20	Training C	Resuscitation
27	Kaitlyn Lingle	Initial Recorded Cardiac Rhythm Does Not Correlate with Survival in Extracorporeal
		Cardiopulmonary Resuscitation
28	Kaitlyn Lingle	Targeted Temperature Management Does Not Correlate with Neurological Outcome in
_	, · ·	Extracorporeal Cardiopulmonary Resuscitation
29	Kaitlyn Lingle	Awake Femoral Venoarterial Extracorporeal Membrane Oxygenation is Safe and Reproducible
	Terapia Pasantes	Outcomes in Extracorporeal Membrane Oxygenation (ECMO) single-center experience in Latin
		America.
31	Susanna Price	Long-term survival post-cardiogenic shock using acute mechanical circulatory support
32	Susanna Price	Improvement of patient outcomes through implementation of a comprehensive cardiogenic
		shock programme
	Narmathan Rajeswaran	Life-threatening bradycardias in COVID-19 patients whilst supported on venous-venous ECMO
34	Aakash Shah	MANTA Decannulation for Femoral Veno-Arterial Extracorporeal Membrane Oxygenation Is Safe
		and Effective
35	Jorik Simons	Unilateral versus Bilateral Femoral Cannulation in Adult Peripheral Veno-Arterial Extracorporeal
		Membrane Oxygenation
36	Shahana Uddin	Post-cardiotomy: evolution of selection criteria for post-operative MCS

oster	Author/Name	Title Title
37	Shahana Uddin	Potential benefit from intra-aortic balloon pump in cardiogenic shock: too soon to discard
		entirely?
38	Kristopher Urrea	The Effect of Nutrition Supplementation on Heart Performance During Normothermic Ex Vivo
	·	Heart Perfusion
39	Erica Bak	Breaking Boundaries: Going Home for a Compassionate Discontinuation of ECMO
	Emory Buck	Outcomes Associated with Timing of Renal Failure in Adult Patients with Acute Respiratory
.0	Emery Back	Distress Syndrome Requiring Venovenous Extracorporeal Membrane Oxygenation
/11	Nicole Cavaliere	The effect of renal dysfunction on mortality rates for patients on VV-ECMO for ARDS due to
41	TVICOLE CAVAILELE	COVID-19 infection.
42	Sagar Dave	Outcomes in Adults Requiring Transport for Venovenous Extracorporeal Support – Does Distan
42	Sagai Dave	from ECMO Center Matter?
42	Cuiffin Daving	Change in anticoagulation management to Anti-Xa monitoring during COVID-19 Pandemic to
43	Griffin Devine	
		avoid ICH in VV ECMO patients
44	JK Garcia	Clinical Profile And Treatment Outcomes Of Patients With Leptospirosis And Acute Respiratory
		Failure Who Underwent Extracorporeal Membrane Oxygenation
	Sydney Hansen	ECMO Survivorship: Comparing V-V and V-A Timing of Return to Home and Work
_	Thomas Jasny	Results from 242 ECMO runs in drowned patients. A nationwide retrospective study.
47	Hason Khan	ECMO in Patients with Unexplained ARDS- Case Definition and Recommendations for
		Trimethoprim Sulfamethoxazole ARDS
48	Neil Kumar	ECMO Duration for COVID-19 Patients – Does it Matter?
49	Anthony Lubinsky	Association of Ventilator Settings and Lung Mechanics During VV-ECMO Treatment with Short
		Term Pulmonary Function and Lung Imaging Outcomes in COVID-19 Survivors; a Retrospective
		Cohort Study
50	Alexandra May	Predictors of Mortality in Acute Respiratory Failure Patients Treated with Extracorporeal CO2
	•	Removal
51	Valentina Obreja	Process and Outcomes of Prone Position Therapy (PPT) for Extracorporeal Membrane
01	t arenema e ar eja	Oxygenation (ECMO) Patients with COVID-19
52	Valentina Obreja	Advanced Nurse Training Program for Extracorporeal Membrane Oxygenation (ANTP4ECMO):
32	valentina obreja	What's the evidence?
E 2	Shinichiro Ohshimo	Impact of high/low-volume hospitals of ECMO before the COVID-19 pandemic era on ECMO
23	Similarino Orisinino	outcomes in patients with fatal COVID-19
Γ 4	Chwistonhau O'Nail	Quantifying Ventilator Rest During ECMO Support Using Mechanical Power
	Christopher O'Neil	Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation: Patient Outcomes
55	Hannah Rando	by Underlying Diagnosis
F.C	0 0 1	Lactate Dehydrogenase is Associated with Hemorrhagic Stroke During Extracorporeal Membra
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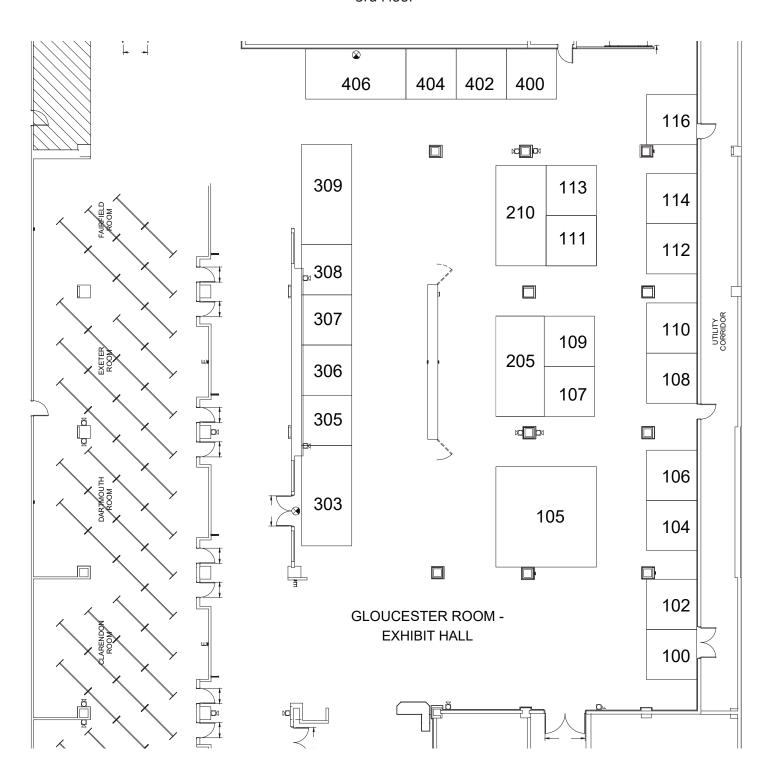


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References

1. Shin,TG et al., "Extracorporeal Cardiopulmonary Resuscitation in Patients with Inhospital Cardiac Arrest: A Comparison with Conventional Cardiopulmonary Resuscitation." Crit Care Med 39, no. 1 (January 2011): 1-7.

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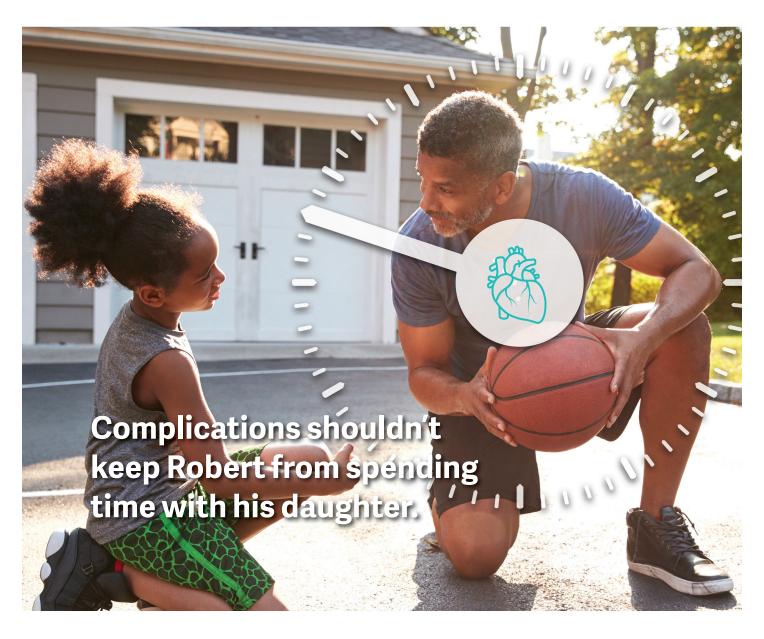
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