

ELSO NEWSLETTER

Message from the President

Matthew Paden, MD

September is our month at ELSO to get together as a broad, global family of colleagues and friends. We look forward to seeing everyone at ELSO's 32nd Annual Conference on September 30th and October 1st.



We have a diverse and exciting agenda planned for you. We are also excited to share a new Lancet publication that will be discussed here first. Please make time to join us this year. We are planning on seeing each other in person at ELSO's 33rd Annual Conference in Boston. In the meantime, we look forward to engaging with everyone virtually this year. In addition, we have a free Director's and Coordinator's meeting that will be held on September 29th. We hope everyone can join us there as well. A benefit of a virtual meeting is that you can catch all the talks you are interested in!

ELSO continues to work hard to meet your changing needs. During this pandemic, we have come together to learn faster about a new disease and share that knowledge broadly. As centers have struggled with ECMO equipment, ELSO has worked hard to advocate for our centers and we developed a supply exchange to help when the normal supply chain is struggling. We have a live COVID-19 dashboard that shares data in real-time. Our ECMO capacity map is a quick view of where ECMO capacity exists to help direct those looking quickly.

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And yet, there is more that we can and should be doing to support each other. In order to do better there, we have recently sent out a member survey to get your advice. During our conference, please share more ideas and ways that we can help each other.

This Fall, we continue our strategic planning work. Your survey results, calls, emails, and interviews have created a compelling platform for us to rise to meet and beyond. We are looking forward to the very bright future we are creating together – most importantly, on behalf of our patients and the community we serve. We will continue to shape this journey together. Thank you for always making ELSO a meaningful investment.

Matt Paden, MD
President, ELSO

Editor, Omar Alibrahim, MD
Co-Editor, Kennethia Banks

ELSO Board & Steering Committee 2022

ELSO Board of Directors



Left to Right: Matthew Paden, MD, President; Mark Ogino, MD, Past-President; Daniel Brodie, MD, President-Elect; Peta Alexander, MBBS, Treasurer

Graeme MacLaren, MBBS, Global Representative; Elizabeth Maringer, JD, Director; Jay Shiland, JD, Director; Robert Bartlett, MD, Founder, Emeritus Director

ELSO Board & Steering Committee 2022

ELSO Steering Committee

Congratulations to the new ELSO Steering Committee for 2022. Welcome to new members: Rob Hyslop, Desiree Bonnadonna, re-elected: Jonathan Haft, Lakshmi Raman, and Bishoy Zachary. New terms start in January 2022.



Bishoy Zachary, MD
Education Chair



Ryan Barbaro, MD
Registry Chair



Jonathan Haft, MD
Technology Chair



Lakshmi Raman, MD
Publications Chair



Cara Agerstrand, MD
Conference Chair



Eddy Fan, MD
Research Chair



Rob Hyslop, RN
Incoming Coordinator



Jenelle Badulak, MD
Nominations &
Membership Chair



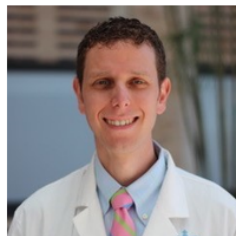
Desiree Bonadonna, CCP
Incoming Perfusion
Liaison



Justin Sleasman, CCP
Perfusion Liaison



Bradley Kuch, RRT
RT Liaison



Darryl Abrams, MD
At Large Member



Guillermo Herrera, RRT
Coordinator Liaison

Not Pictured: Tracy Morrison, RN
Quality Committee Chair

32nd Annual ELSO Conference

"Building a Future Together"

September 30th - October 1, 2021

Join us in sharing what we have learned from around the world during the COVID-19 pandemic, including system preparedness and innovations; learn cutting edge research in ECPR, ECCO2R, lung management, cardiac care, and new guidelines; be first to hear of innovations in ECMO technology and perspectives on regulatory requirements; don't miss our live great debates; and reconnect with your ELSO family.

For more information visit our website: <https://www.else.org/Education/2021ELSOMeeting.aspx>

ELSO Director's and Coordinator's Meeting

Date: Wednesday, September 29, 2021 **Time:** 7:00 PM - 8:30 PM (eastern time)

ELSO will be holding its annual director's and coordinators meeting one day prior to the 32nd Annual ELSO (Virtual) Conference which we hope you will be able to attend. There will be no cost associated with these meetings. A special link has been emailed to all directors, co-directors, coordinators and co- coordinators to join their designated meeting.

Coordinator's Meeting

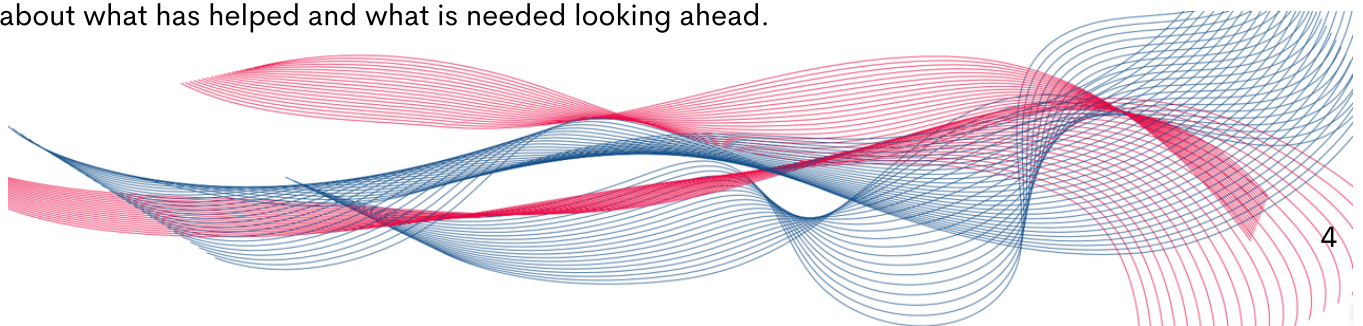
Lead by: Guillermo Herrera, RRT and Robert Hyslop, RN, CCRN

Hear from experts on how they changed their program to adapt to COVID-19. The speakers will describe the area they serve and the program changes they made to improve access to ECMO when possible. We will have 10 minute presentations followed by Q/A. Coordinators and ECMO Specialists, please join us at the Coordinator's Meeting and share your thoughts on what this pandemic means to us as a whole. Micheal Heard will give us an update on the Center of Excellence.

Director's Meeting

Lead by: President Matthew Paden, MD and President-Elect Daniel Brodie, MD

Some of the things that will be discussed are: The clinical realities we face continue to evolve, 18 months into this pandemic and new stresses and pressures are emerging as we continue on with the ever-reaching effects of the pandemic, the latest initiatives and work across our committees and regions, emerging research, increased demand for ECMO. We would like to hear from our directors about what has helped and what is needed looking ahead.





Committee Roundup

Research Committee

ELSO 2022 Research Grant Application

The ELSO Research Grant Application process is now open. Deadline to submit is September 30, 2021. Please use the link below for more detailed information. You must log in prior to applying.

ELSO Research Grant Application

Registry Committee

It has been more than a year since the COVID-19 Addendum and the live reporting dashboard launched. These tools offered meaningful data as the pandemic was unfolding because we, the ELSO community, pivoted to entering our cases of patients with COVID-19 as they were being cared for. We heard from our member centers that it is beneficial to be able to see live data, and is useful to filter the data to patients or regions of interest.

Registry Dashboard

Filters affect the data shown in the tables below:

Period

Total Last 5 Complete Years Year to Date

Initial Mode

All Modes VA VV VVA VP Other

Chapter

All Locations North America Europe Asia Pacific Latin America SWAAC

Filter

	Total	Survived to DC or Transfer
Total	166,913	54%
Neonatal	46,317	64%
Pulmonary	33,934	72%
Cardiac	10,025	43%
ECPR	2,358	42%
Pediatric	32,492	53%
Pulmonary	11,638	60%
Cardiac	14,865	53%
ECPR	5,989	41%
Adult	88,104	48%
Pulmonary	39,574	57%
Cardiac	37,087	44%
ECPR	11,443	29%

We have replicated some of these features for the entire Registry. You will find a live tally of all cases that has been submitted to the ELSO Registry as well as a running tally of how many cases have been started so far this year. A few filters have been added so that you can explore the data a bit more. We are asking you to enter all patients as soon as you are able to in order to keep live statistics updated.

As always, please let us know how we can make this better and thank you!

Ryan Barbaro, Chair and the ELSO Registry Committee

Publications Committee

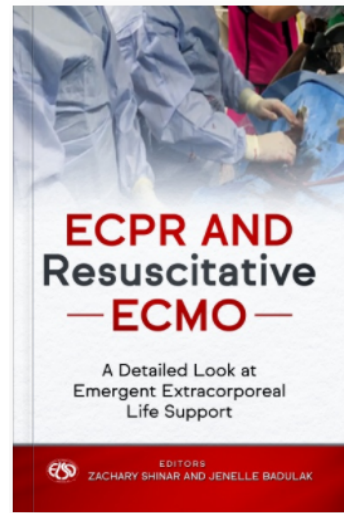
ECPR and Resuscitative ECMO

ELSO is pleased to announce our first monograph on ECPR and Resuscitative ECMO!

Emergent deployment of extracorporeal membrane oxygenation (ECMO) has revolutionized the world of resuscitation. Historically, survival from refractory cardiac arrest was dismal, but now extracorporeal cardiopulmonary resuscitation (ECPR) can be used to provide a bridge to return of spontaneous circulation. Effective incorporation of resuscitative ECMO requires a novel procedural skillset, swift operational organization and interprofessional team collaboration. This book, written by experts in the field, serves as a practical guide for implementing resuscitative ECMO.

To order yours, please visit [here](#).

Congratulations to the editors on guiding this publication into being, Zack Shinar and Jenelle Badulak. Thank you to the many contributing authors that make this a reliable source for any program considering ECPR or wanting to improve upon it.



Quality Committee

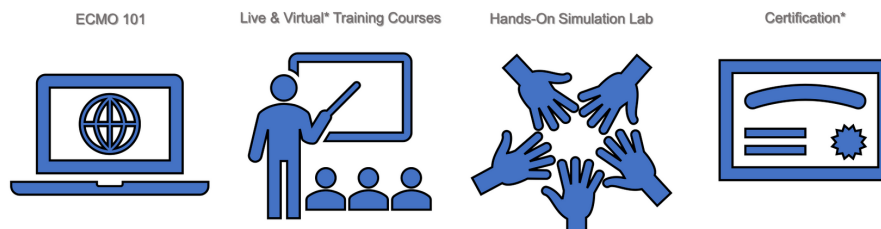
Congratulations to our 14 new platinum, 29 new gold, and 12 new silver centers!

For centers interested in applying for the Award of Excellence, the next applications admissions period opens October 15, 2021. In addition, please find our guidance document on how to have the best chance of success here (noted as Award Evaluation & Improvement Tool):

<https://www.else.org/AwardofExcellence/Resources.aspx>

Education Committee

ELSO Academy



Upcoming ELSO Training Courses

We will be announcing new courses soon. Don't miss anything by checking [here](#).

Event: Extracorporeal Life Support Adult ECMO Simulation Training Course

Dates: November 03-04, 2021 and November 05 - 06, 2021

Location: Grand Hyatt Tampa Bay, Tampa, Florida

[Registration is now open!](#)

Event: Extracorporeal Life Support Adult ECMO Training Course

Date: November 11-12, 2021

Location: Virtual

[Registration is now open!](#)

Event: Mobile ECMO Training Workshop

Date: December 09 - 10, 2021

Location: Virtual

Technology & Innovation Committee

We are interested in keeping apprised of our community's needs, especially as regulations change. In May, the European region updated regulatory requirements for device approval. We are interested in working with our industry partners to meet their needs so that innovations in technology can make its way to our patients. Our best way to help each other is to ensure we have good data in the ELSO Registry. If there are changes in your region, please let us know at support@elso.org.



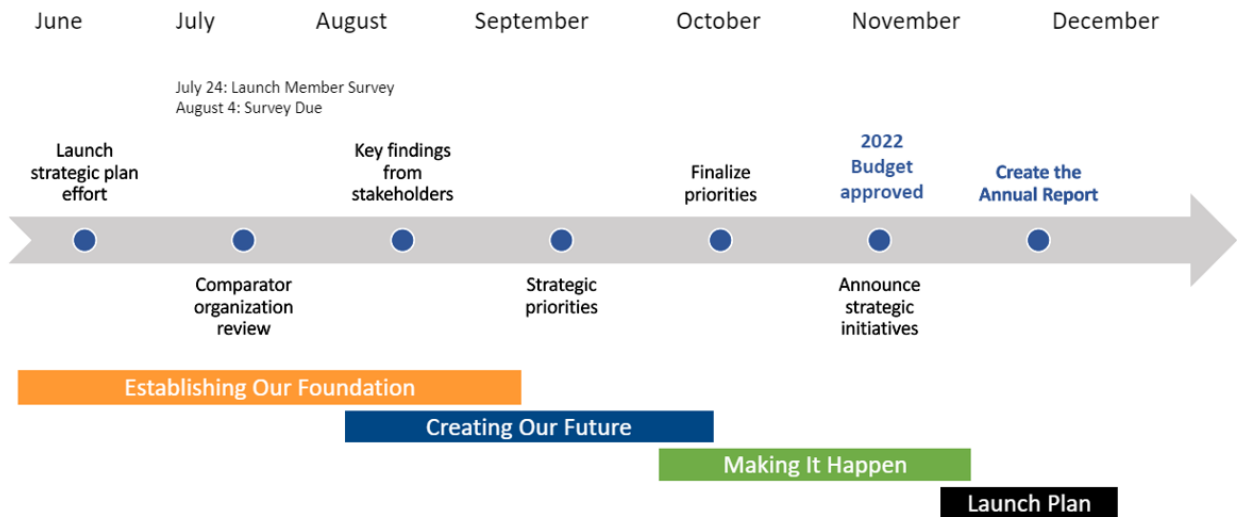
Strategic Planning

Purposefully Planning Ahead

Thank you to more than 1,000 of you that responded to our member survey in August! Based on your feedback, we are carefully crafting our strategic priorities and working on responding to the many suggestions so many of you shared.

We heard many things that would improve ELSO for you and we are working on prioritizing those things, while solidifying the priorities for the organization over the coming years. We are newly inspired by what we can do together. This work makes that more clear and we are excited to share this with our entire community.

Timeline



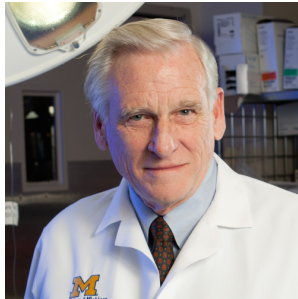
Keeping Up on the Strategic Planning Process

We will keep you apprised of our progress through our website, newsletters, and other means. We are excited about the future of the organization - our future together. Let's make some ambitious goals and exceed them - on behalf of our future patients.

Website Updates

Our website is our 'front door'. We are making some changes that we hope will make the site easier to navigate for you and a more pleasant experience. To see all the updates, **clear your web history** and go to elso.org.

Bedside with Bartlett



*Robert Bartlett, MD
Founder, Board of Directors Emeritus, ELSO
Professor Emeritus of Surgery, University of Michigan*

Case Description

Some patients need CO₂ removal only: status asthmaticus, COPD exacerbation, late recovery in ARDS ECMO patients. We have 3 such patients, but no ECCO₂R device. How can we get an ECCO₂R machine?

Answer

You have an ECCO₂R device. It is your neonatal ECMO circuit. If you don't have a pediatric ECMO program, just call your nearest pediatric ECMO team. Use a double lumen 15F cannula via the jugular. Recirculation is not a problem. Blood flow 200-400 cc/min. Sweep flow is O₂, start sweep at 2X blood flow, and titrate to PaCO₂ 40. Decreasing the PaCO₂ rapidly can cause intracranial bleeding. Adjust the sweep flow to bring the PaCO₂ down 10-20 mmHg per hour.

Research Alley

Researchers in the Section of Neonatology at Texas Children's Hospital and Baylor College of Medicine are collecting data regarding the management of "Hypertension in neonates undergoing Extra Corporeal Membrane Oxygenation (ECMO)." The study will help describe the diagnostic criteria and pharmacologic treatment modalities used by clinicians in the management of neonates who develop hypertension while on ECMO. Participants can obtain the results of the survey by including their email address in the survey.

To participate in this research, please complete the voluntary anonymous questionnaire at - <https://redcap.link/NeoECMO-Hypertension>.



Announcements

ECMO Capacity Map

With limited availability of ECMO beds in some regions, ELSO's ECMO Availability Center Map helps determine availability. Individual ELSO centers update their own status. Please remember to update your center's bed availability today!



Upcoming Conferences

The latest information on ELSO & Collaborative Meetings can be found [here](#).

CONGRESO ELSO LATAM 2021

NOVIEMBRE 26 Y 27

The Asia-Pacific Extracorporeal Life Support Organization 2021 Conference (APELSO 2021)
 The 5th Annual Scientific Meeting of Taiwan Society for Extracorporeal Membrane Oxygenation and Organ Support
 The 35th Annual Scientific Meeting of Taiwan Association of Thoracic & Cardiovascular Surgery
 The 2021 Annual Meeting of The Society of Extracorporeal Technology of Taiwan The Republic of China

By Enter promotion Code **"free30"** to enjoy **FREE REGISTRTRTION!!**
 **Deadline for Online Registration is September 30, 2021!

Abstracts will be published on **Artificial Organs Journal**

Yih-Shang Chen
 Conference Chairman
 The Asia-Pacific Extracorporeal Life Support Organization
 2021 Conference (APELSO 2021)

Chien-Sung Tsai
 President
 Taiwan Association of Thoracic & Cardiovascular Surgery

MEET OUR EXPERTS

Invited Speakers

John Fraser Australia	Carol Hogson Australia	Priya Nair Australia	Eddy Fan Canada	Xiaotong Hou China
Jan Bělohávek Czech Republic	Alain Combes France	Pauline Yeung Ng Hong Kong	Eva Miranda Marwell Indonesia	Toshiyuki Aokage Japan
Shingo Ichiba Japan	Roberto Lorusso Netherlands	Graeme MacLaren Singapore	Hwa Jin Cho South Korea	Pranya Sakiyalak Thailand
Cris Ageströmd USA	Peta Alexander USA	Robert Bartlett USA	Daniel Brodie USA	Heidi Dalton USA

Speakers are listed in alphabetical order of the country names



www.euroelso-congress.com

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and stay updated!



33RD ANNUAL ELSO CONFERENCE

**SAVE THE DATE
ELSO 2022**



**BOSTON, MA
September 14th – 17th
Boston Marriott Copley Place**



The Extracorporeal Life Support Organization

Our Mission

To provide support to institutions delivering extracorporeal life support through continuing education, guidelines development, original research, publications and maintenance of a comprehensive registry of patient data.

Guiding Principles

Innovation

Seeking to identify and promote advances for the application of extracorporeal therapies.

Expertise

Bringing together world leaders in the care of critically ill patients for collaboration to advance quality of care through education and publication.

Clinical Support

Maintaining a comprehensive registry of data to assist in reducing morbidity and improving survival of patients requiring extracorporeal therapies.

Community

Fostering communication and collaboration among professionals who apply advanced technologies in the treatment of refractory organ failure.

Our Vision

ELSO will be the premier organization providing education, training, research, and data management for the advancement of extracorporeal life support throughout the world.



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www.elseo.org

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