



# Newsletter

October 2014

## Announcements

Greetings ELSO Members,

I am writing this after returning from the tremendously successful ELSO 25th Annual Meeting in Ann Arbor. The sounds of "Hail to the Victors" are finally fading a bit from my ears. From the keynote introduction and addresses of Drs. Bartlett and Gattinoni, and the experiences of Esperanza (the first infant to receive ECMO support), to the tremendous science shared, we had a chance to reflect on how far the delivery of ECMO has come in a relatively short period of time. We are in the midst of a new era of ECMO growth, technology and global enthusiasm. ELSO is working to strike while the iron is hot, to insure we meet our member centers' needs for an enhanced registry, rapid global chapter growth, the best education, and new opportunities for online educational content. You will be hearing more about these developments over the next year.

It is an honor to be asked to serve as the new ELSO Steering Committee Chair, and tough shoes to step into from Bill Lynch. I want to thank Bill for all he has done to shepherd ELSO, including the development of a new nonprofit structure that will help us more nimbly meet the ECMO community's needs. I look forward to working with all of you.

Sincerely,

Jim

Jim Fortenberry MD, MCCM, FAAP  
ELSO Steering Committee Chair 2014-2016

## **ELSO Position Statement on ECMO and Ebola**

Post Date: October 20, 2014

Position Statement on the Use of Extracorporeal Life Support in Patients with Ebola Virus Disease from the Steering Committee, Extracorporeal Life Support Organization

Extracorporeal life support, also known as Extracorporeal Membrane Oxygenation (ECMO), can successfully provide temporary circulatory and pulmonary support for a variety of severe illnesses. To date, use of ECMO has not been reported in a patient with severe Ebola virus disease. Severe Ebola cases may develop cardiac or pulmonary failure. In general, patients are considered for ECMO support with cardiac or respiratory failure that is refractory to conventional therapy (such as fluid resuscitation, vasoactive administration and mechanical ventilation) if the potential for benefit outweighs the potential risks of applying ECMO. Cardiorespiratory failure in Ebola infection appears to be related to multiple organ failure and uncontrolled hemorrhage, for which ECMO may be contraindicated in other diseases. As Ebola is spread via contact with bodily fluids and is often accompanied by coagulopathy, risk of bleeding and fluid exposure to healthcare staff is extremely high given requirements for constant monitoring and significant time in direct patient contact. Such significant potential risks must be weighed against any theoretical benefits of ECMO support in Ebola virus. **Based on lack of current experience or evidence, the Extracorporeal Life Support Organization (ELSO) Steering Committee does not at present recommend use of ECMO for treatment of severe Ebola virus disease.**

ELSO Steering Committee members are available to discuss issues related to Ebola and extracorporeal support.

Jim Fortenberry M.D. - james.fortenberry@choa.org  
ELSO Steering Committee Chairperson

Giles Peek M.D. - giles.peek@uhl-tr.nhs.uk  
Euro-ELSO Steering Committee Chairperson

Graeme MacLaren, M.D. - graeme\_maclaren@nuhs.edu.sg  
Asia-Pacific ELSO (APELSO) Steering Committee Chairperson

Rodrigo Diaz, M.D. - rdiaz@anestesiologia.cl  
Javier Kattan, M.D. - kattan@med.puc.cl  
Latin-America ELSO (LAELSO) Co-Steering Committee Chairpersons

Suneel Pooboni, M.D. - poobonisk@gmail.com

South and West Asia ELSO (SWACELSO) Steering Committee Chairperson

Please contact the ELSO office at 734 998-6601 for further comment or questions. Centers are also encouraged to contact ELSO with any information or experience regarding a patient with Ebola who receives ECLS/ECMO, or other extracorporeal techniques, as we seek to learn more about this disease process and treatment possibilities that could change future recommendations.

### **ELSO Registry**

The Data Registry Web Application has been down since April so that ELSO could make upgrades and changes. To complete this process would require a few more months. It is not practical to continue having the Registry Application disabled to facilitate these updates. Centers need to be able to enter data and have reports created. For that reason, I have decided to reactivate the Data Registry Application as of September 12 2014 with the same functionality that was present in April.

ELSO will continue to work on the revised Data Registry Web Application with the intent of upgrades in early January. ELSO will make you aware of the timing of upgrades. We intend to be in a position that will allow the upgrades and changes to require only a few days, as opposed to having the system disabled for months.

I apologize for this inconvenience. I appreciate your patience and understanding. Please let me know if you have any concerns.

Sincerely,

William R. Lynch

ELSO Chairman 2012-2014

### **ELSO 2015 Research Grant Application**

All applications must be received by November 1, 2014! Notifications will be announced around December 15, 2014. Applicants may apply for one of two levels of award: awards with a maximum total budget of \$5,000 or a maximum of \$10,000, depending on the scope of work the research involves. Most grants are not anticipated to require the

maximum amount in either category and all budgets should be justified by the investigators and will be reviewed by the ELSO Grants Subcommittee. Please note that applicants for the \$5,000 option will have increased odds of acceptance given the limited number of grants to be awarded.

## **2014 Meeting**



Thanks everyone for making the 25<sup>th</sup> ELSO Anniversary meeting a huge success!

## **ELSO Chapters**

ELSO now has four active chapters operating throughout the world! Euro-ELSO, APELSO (Asia-Pacific), LAELSO (Latin-America) and SWACELSO (South and West Asia). Please visit our website for information on our chapters.



## **Facebook**

If you use Facebook please visit our sites and “like” us! We intend to use Facebook as a way to present information to not only ELSO members but to anyone who is interested in our organization.

[www.facebook.com/ELSO.org](http://www.facebook.com/ELSO.org)

Euro-ELSO Facebook page:

[www.facebook.com/EuroELSO](http://www.facebook.com/EuroELSO)



## **Twitter**

Follow us on twitter! [www.twitter.com/ELSOOrg](http://www.twitter.com/ELSOOrg)



# MEETINGS

26<sup>th</sup> Annual ELSO Conference  
[www.else.org](http://www.else.org)  
September 17-20, 2015  
Atlanta GA USA



1<sup>st</sup> Latin-America ELSO Chapter Meeting  
[www.elsolatam2014.com](http://www.elsolatam2014.com)  
December 4-6, 2014  
Sao Paulo, Brazil



ECMO Training/Management Course  
Jan 16-17, 2015  
U of Arizona Phoenix Simulation Center  
Phoenix, Arizona  
Details at [sccm.org](http://sccm.org)

2<sup>nd</sup> SWACELSO Meeting  
Bangalore, India.  
February 6-8, 2015

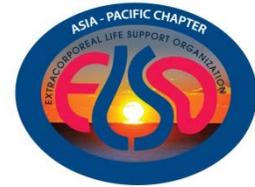


31<sup>st</sup> Annual Keystone Meeting  
[www.ecmomeeting.com](http://www.ecmomeeting.com)  
February 22-26, 2015

4<sup>th</sup> Euro-ELSO Meeting  
[www.regensburg-euroelso2015.com](http://www.regensburg-euroelso2015.com)  
May 7-10, 2015  
Regensburg, Germany



2<sup>nd</sup> Annual Asia-Pacific ELSO Meeting  
[www.apelso2015.com](http://www.apelso2015.com)  
July 17-19, 2015  
Kyoto, Japan





# TRAININGS

## Extracorporeal Life Support in Adult Critical Care An ELSO Course

This intense four day course is designed for physicians and specialists caring for adult patients with severe acute respiratory and cardiac failure who may be candidates for Extracorporeal Respiratory Support. Common diagnoses considered for adult ECLS support include: H1N1, other viral or bacterial pneumonias, burn and inhalation injury, traumatic lung injury, pulmonary contusion, pulmonary embolism, post-shock or sepsis associated ARDS, or other forms of reversible acute lung injury or illness.

Course content includes indications and contraindications, cannulation techniques, initiation of support, patient and circuit physiology of ECMO, programmatic design and management, and all aspects of patient management and decision making for patients on ECMO. Complementing the twelve hour didactic course is an eighteen hour high fidelity simulation lab with an ECMO circuit utilizing centrifugal pump technology. All learners will participate in a four hour “ECMO Essentials 101” simulation workshop before the didactic sessions to review the fundamentals of bedside ECMO, such as, a circuit check, equipment components, alarms, pressure monitoring, stopcocks and pigtails, drawing samples from the circuit, de-airing the circuit, and hand cranking the pump. The goal is to immerse the learner in ECMO terminology and concepts before the didactic course to enhance the learning process. In the conference simulation workshop, small groups will participate in scenarios reviewing emergency procedures and highlighting adult ECMO physiology with a learner to instructor ratio of 2:1. Simulation education will allow participants to develop skills in common bedside procedures and to learn key assessments for decision making by “hands on” experience. The course is appropriate for centers setting up new programs, or for existing centers expanding into adult services.

Registration per person is \$2,500 and includes the ECMO Specialist Training Manual and the Red Book.

Space limited to 48 registrants!

Information will soon be available on our website with details about upcoming dates and locations.



# *Award of Excellence*

ELSO is pleased to showcase this year's centers who received the award of excellence is life support!

The 2015 application will soon be available on our website.

## **2014 – 2017**

Ann & Robert H. Lurie Children's Hospital of Chicago  
Chicago, Illinois

University of Maryland Medical Center  
Baltimore, Maryland

All Children's Hospital  
Saint Petersburg, Florida

Cook Children's Medical Center  
Fort Worth, Texas

Children's Hospital at Yale-New Haven  
New Haven, Connecticut

Le Bonheur Children's Hospital  
Memphis, Tennessee

University of Virginia Medical Center  
Charlottesville, Virginia

Arnold Palmer Medical Center  
Orlando, Florida

Montefiore Medical Center  
Bronx, New York

National Taiwan University Hospital  
Taipei, Taiwan

Children's Medical Center Dallas  
Dallas, Texas

Arkansas Children's Hospital  
Little Rock, Arkansas

Rainbow Babies and Children's Hospital  
Cleveland, Ohio

The Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania

Ronald Reagan UCLA Medical Center  
Los Angeles, California

Children's Hospitals and Clinics of Minnesota  
Minneapolis, Minnesota

Children's Hospital of Georgia (aka MCG Health Inc.)  
Augusta, Georgia

St. Christopher's Hospital for Children  
Philadelphia, Pennsylvania

University of North Carolina Hospitals  
Chapel Hill, North Carolina

Carolinas Medical Center / Levine Children's Hospital  
Charlotte, North Carolina

Wake Forest Baptist Health  
Winston-Salem, North Carolina

Our Lady's Children's Hospital  
Crumlin, Dublin, Ireland

Miami Children's Hospital  
Miami, Florida

Children's Hospital Los Angeles  
Los Angeles, California

Children's Mercy Hospital  
Kansas City, Missouri

University of Kentucky Medical Center  
Lexington, Kentucky

Aarhus University Hospital  
Aarhus, Denmark

University Medical Center Regensburg  
Regensburg, Germany

St. Louis Children's Hospital  
St. Louis, Missouri

Children's Hospital & Medical Center  
Omaha, Nebraska

Mayo Clinic Hospital  
Phoenix, Arizona

CHOC Children's Hospital  
Orange, California

Children's Hospital of San Antonio  
San Antonio, Texas

University of California Davis Children's Hospital  
Sacramento, California

Aberdeen Royal Infirmary  
Aberdeen, United Kingdom

Children's Hospital Colorado  
Aurora, Colorado

Birmingham Children's Hospital NHS Trust  
Birmingham, United Kingdom

Children's Hospital of Wisconsin  
Milwaukee, Wisconsin

Monroe Carell Jr. Children's Hospital at Vanderbilt  
Nashville, Tennessee

UCSF Benioff Children's Hospital  
San Francisco, California

Mayo Clinic Rochester  
Rochester, Minnesota

The Johns Hopkins Hospital - Charlotte R. Bloomberg Children's Center  
Baltimore, Maryland

UF Health and Shands Children's Hospital  
Gainesville, Florida

Children's Memorial Hermann Hospital and Memorial Hermann - TMC  
Houston, Texas

Medical University of South Carolina  
Charleston, South Carolina

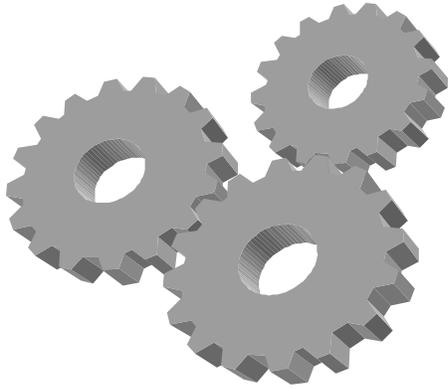
Hanuola ECMO Program of Hawaii  
Honolulu, Hawaii



# SURVEYS



At the request of several centers, the steering committee has decided to include links to center surveys in ELSO's periodic newsletter. Each time we will describe the purpose of the study, who is asked to participate, and who is collecting the data. All surveys will be linked to "survey-monkey" which will collect the data. If you have a survey you would like to submit, please send the information to ELSO via Peter Rycus, MPH ([prycus@umich.edu](mailto:prycus@umich.edu)).



## ***ELSO Corporate Member Announcements***

This section will allow ELSO's corporate members an opportunity to pass on important information.