

International Center for Studies and Training "Germana Gaslini"

Provider Nazionale Accreditato ECM n. 856

Certificazione ISO9001:2008



CISEF Director: **Antonio Infante**

G. Gaslini Institute Executive Board

Paolo Petralia, MD, CEO

Lorenzo Moretta, MD, Scientific Director

Silvio Del Buono, MD, CMO

Ubaldo Rosati, MD, Head, Quality Office

AIMS

The course will cover the main principles and applications of extracorporeal life support in newborns and children. Some of the most innovative aspects of ECMO treatment will be treated as well (congenital diaphragmatic hernia, septic shock, bridge to lung transplant, trauma), including ECMO transport. Participants will acquire the theoretical principles of extracorporeal life support and will consolidate their knowledge through practical hands on sessions in small groups. The course will include frontal lessons and practical work on the ECMO pumps and circuits. Case scenarios will be administered to the participants and discussed. The course is directed to: neonatal and pediatric intensivists, nurses and ECMO specialists.

Scientific Committee of the Meeting

E. Lampugnani, F. Lerzo, M. Marasini, F. Santoro, R. Thiagarajan, J. Zalieckas, L. Zannini

Local Organizing Committee

Andrea Moscatelli

Neonatal and Pediatric ICU, G. Gaslini Children's Hospital, Genoa - Italy

andreamoscatelli@ospedale-gaslini.ge.it

andreamoscatelli@me.com

US Contact person

Peter Betit

Department of Respiratory Care, Children's Hospital Boston, Boston, MA - USA

peter.betit@childrens.harvard.edu

Organizing Secretariat

Maria Caterina Cogorno

C.I.S.E.F. International Center for Studies and Training "Germana Gaslini", Genoa

tel.: 010 5636.873/.805; fax: 010 5636885

e-mail: caterinacogorno@cisef.org

**We acknowledge the unrestricted support of
Chiesi Farmaceutici
Tecnohealth**

GENERAL INFORMATION

Registration

The full course is open to up to 30 neonatal and pediatric intensivists, cardiac surgeons, perfusion technicians, nurses and ECMO specialists. **30 additional participants can attend the morning sessions.** Applications will be accepted on a first come-first served basis.

Deadline for registration: July 31st, 2013

Fill in the registration form to be downloaded from the course website and return it to the organizing secretariat.

Registration fees

The full course registrations fee of **450,00 Euros**, covers: access to the morning and afternoon practical sessions, didactic material, 6 coffee breaks, 3 lunches and attendance certificate. The morning sessions registration fee of **200,00 Euros**, covers access to morning sessions, didactic material, 3 coffee breaks, 3 lunches and attendance certificate. The fee can be paid after receiving confirmation from the organizing secretariat.

Official language

English

Italian CME Accreditations n. 856-56374, 57187

Full course attendants: 23,5 CME credits.

Morning sessions attendants: 11 CME credits

Details at the course website.

Practical training will be on centrifugal pumps.

Venue

Villa Quartara, Badia Benedettina della Castagna
Via Romana della Castagna 11 A, 16148 Genoa, Italy.

How to reach the venue

Plane: from the International Airport Cristoforo Colombo, shuttle bus n. 100 (runs every hour) takes you to Genova Brignole railway station, where you can take bus n. 17 to Via Romana della Castagna.

Train: get off at Genova Brignole railway station, take bus n. 17 and get off in Corso Europa, in front of Via Romana della Castagna.

Car: motorway exit Genova-Nervi, take Corso Europa westwards, take the overpass to change direction and drive eastwards, pass the Hotel AC and ESSO gas station on the right, after 50 mts. turn right into Via Romana della Castagna, go straight 80 mts., enter the gate and follow the dust lane up to the parking lot.

Accommodation

Please make your arrangement well in advance.

Special rates at the AC Marriot Hotel**** - Genova-Quarto +39-010-3071180 located at walking distance from the Badia as well as at the Hotel Iris *** - Genova-Quarto +39-010-3773914. Always mention the CISEF course.

Website: www.ECMOGenoa2013.cisef.org



ECMOGenoa2013: INTERNATIONAL HANDS-ON COURSE ON NEONATAL AND PEDIATRIC ECMO



Course Directors

J. Arnold, P. Betit, A. Moscatelli, P. Tuo



**Under the auspices of
Società Italiana di Pediatria
Società Italiana di Neonatologia**

October 1-3, 2013

**Villa Quartara, Badia della Castagna
Genoa, Italy**



Faculty

John H. Arnold MD

Dept of Anesthesia & Critical Care, Boston Children's Hospital
Professor of Anaesthesia (Pediatrics), Harvard Medical School

Peter Betit RRT-NPS, FAARC

ECMO Program Manager, Boston Children's Hospital
Associate in Anesthesia, Harvard Medical School

Kevin Bullock RRT-NPS

ECMO Specialist, Boston Children's Hospital

Silvia Buratti MD

Dept of Critical Care and Perinatal Medicine
G. Gaslini Children's Hospital, Genoa

Nancy Craig RRT-NPS

ECMO Specialist, Boston Children's Hospital

Elisabetta Lampugnani MD

Dept of Critical Care and Perinatal Medicine
G. Gaslini Children's Hospital, Genoa

Franco Lerzo MD

Director, Cardiovascular Intensive Care Unit
Dept of Critical Care and Perinatal Medicine
G. Gaslini Children's Hospital, Genoa

Maurizio Marasini MD

Director, Cardiology Unit, Dept of Cardiovascular Surgery
G. Gaslini Children's Hospital - Genoa

Andrea Moscatelli MD

Director, Neonatal and Pediatric Intensive Care Unit
Dept. Critical Care and Perinatal Medicine
G. Gaslini Children's Hospital, Genoa

Francesco Santoro MD

Dept. of Cardiovascular Surgery
G. Gaslini Children's Hospital, Genoa

Ravi Thiagarajan MD, MBBS, MPH

Dept of Cardiovascular Critical Care, Boston Children's Hospital
Associate Professor Cardiology (Pediatrics), Harvard Medical School

Pietro Tuo MD

Head, Department of Critical Care and Perinatal Medicine
G. Gaslini Children's Hospital, Genoa

Jill Zalieckas MD, MPH

Dept. of Surgery, Boston Children's Hospital
Assistant in Surgery, Harvard Medical School

Lucio Zannini MD

Head, Dept of Cardiovascular Surgery
G. Gaslini Children's Hospital, Genoa

Tuesday October 1st

8.00	Registration
8.30	Welcome address A. Infante, P. Petralia, S. del Buono, L. Moretta, U. Rosati
	Program Introduction and Essentials
8.45	Introduction to ECMO - P. Betit
9.15	The Physiology of Extracorporeal Support J. Arnold
9.45	Modes of ECMO Support - K. Bullock
10.15	Coffee break
10.45	Cannulae and Cannulation Techniques J. Zalieckas
11.15	ECMO for Respiratory Support N. Craig
12.00	ECMO for Circulatory Support R. Thiagarajan
12.45	Lunch
13.45	Pre-ECMO Strategies A. Moscatelli
14.15	Instructions to work groups
14.30	Circuit and Equipment Practicum P. Betit, K. Bullock, F. Lerzo
15.30	Coffee break
15.45	Circuit and Equipment Practicum P. Betit, K. Bullock, F. Lerzo
16.45	End of session

Wednesday October 2nd

8.30	Anticoagulation & Management of Bleeding R. Thiagarajan
9.00	Monitoring the ECMO patient - J. Arnold
9.45	Fluid Management & Renal Replacement Therapy - J. Zalieckas
10.15	Coffee break
10.45	Monitoring the ECMO Circuit - P. Betit
11.30	ECMO Circuit Complications - K. Bullock
12.00	Patient Complications - J. Zalieckas
12.30	Intra- and Inter-facility Transport A. Moscatelli
13.00	Lunch

14.15 **Troubleshooting Practicum**
P. Betit, K. Bullock, F. Lerzo

15.30 Coffee break

15.45 **Troubleshooting Practicum**
P. Betit, K. Bullock, F. Lerzo

16.45 Panel Discussion

17.15 End of session

Thursday October 3rd

8.30 Special Considerations
- Persistent pulmonary hypertension of the newborn
A. Moscatelli
- Congenital diaphragmatic hernia - **N. Craig**
- Congenital heart disease - **R. Thiagarajan**
- Sepsis & OR Applications - **J. Arnold**

10.00 Coffee break

10.30 General Care of the ECMO Patient - **N. Craig**
11.00 Ventilator Management & Airway Clearance
K. Bullock
11.30 Liberation from ECMO
- The Respiratory Patient - **J. Zalieckas**
- The Cardiac Patient - **R. Thiagarajan**

12.30 Lunch

13.30 Bridge to Lung Transplantation. Focus on cystic fibrosis - **A. Moscatelli**

14.00 Post-ECMO Follow-up
S. Buratti

14.30 **INTERACTIVE CASE PRESENTATIONS**
N. Craig, R. Thiagarajan, P. Betit, J. Arnold

15.30 Coffee break

15.45 **INTERACTIVE CASE PRESENTATIONS**
N. Craig, R. Thiagarajan, P. Betit, J. Arnold

16.45 Closing Remarks & Evaluation

17.15 *Quality assessment questionnaire*
Release of certificates of attendance