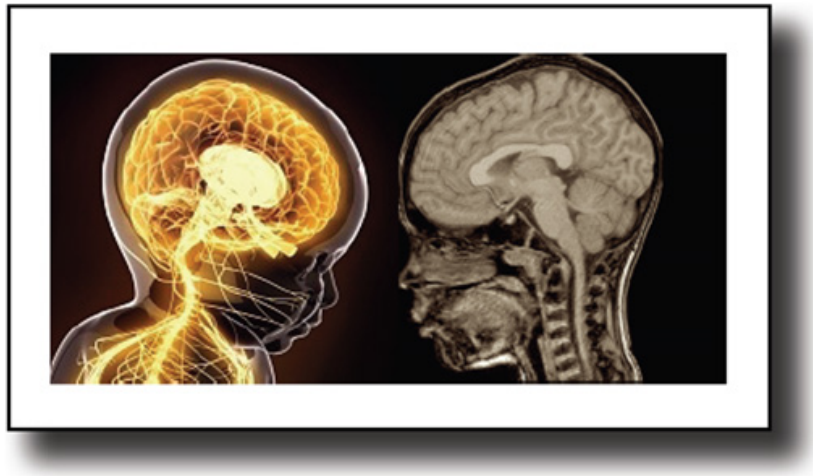
CISEF GASLINI
Centro Internazionale di Studi e Formazione
Germana Gaslini
Villa Quartara, Via Romana della Castagna, 11 A
16148 Genova - Italia

Director: Maurizio Luvizone

Provider Nazionale Accreditato ECM n. 856
Certificazione ISO9001:2008

INTERNATIONAL COURSE ON NEONATAL AND PEDIATRIC NEUROCRITICAL CARE

7-11 November 2016
Ist. G. Gaslini, Genoa, Italy



VENUE

CISEF Gaslini - Villa Quartara, Via Romana della Castagna, 11A - 16147 Genoa, Italy
Ph.+39 010.56.36.2855

HOW TO REACH CISEF Gaslini

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.

REGISTRATION AND FEES

Deadline for registration: October 16th, 2016.
Please, register on the website **http://www.cisef.org/evento.php?IDE=2171**

Registration fee
€ 800 covers access to scientific sessions, coffee breaks, and lunches for five days

HOTEL SPECIAL RATES

AC HOTEL - Corso Europa, 1075 16148, Genova - Tel. 0039 010 3071180 - Fax 0039 010 3071275
acgenova@ac-hotels.com - http://it.ac-hotels.com
HOTEL IRIS - Via Gabriele Rossetti, 3-5 16148 Genova - Tel. 010 376 0703 - http://www.hoteliris.it

ENDORSED BY

S.A.R.N.e P.I. Società di Anestesia e Rianimazione Neonatale e Pediatrica Italiana
SINP Società Italiana di Neurologia Pediatrica
SIN Società Italiana di Neonatologia
AMIETIP
SINch Società Italiana Neurochirurgia

Course Directors

Silvia Buratti
Andrea Moscatelli
Armando Cama
Pietro Tuo

ORGANIZING SECRETARIAT

Lena Cosulich
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ACCREDITAMENTO ECM – ITALIAN CME

Codice ECM: 856-174425
Crediti Assegnati: 32,7
Medico chirurgo (Anestesia e rianimazione, Neonatologia, Pediatria, Neuroradiologia, Neurochirurgia, Neurologia, Neuropsichiatria Infantile, Medicina Fisica e Riabilitativa), **Infermiere Pediatrico, Infermiere, Tecnico di Neurofisiopatologia.**
Codice ambito: 18 - contenuti tecnico-professionali (conoscenze e competenze) specifici di ciascuna professione, di ciascuna specializzazione e di ciascuna attività ultraspecialistica. Malattie rare.

FACULTY & INFO

FACULTY

Aldo Amantini - Neuromuscolar Department, AOU Careggi, IRCCS Don Carlo Gnocchi, Florence, Italy
Laura Banov -Gaslini Children's Hospital Genoa, Italy
Silvia Buratti - Gaslini Children's Hospital Genoa, Italy
Armando Cama - Gaslini Children's Hospital Genoa, Italy
Taeun Chang - Children's National Washington, USA
Arturo Chieregato - Ospedale Niguarda Ca' Granda Milan, Italy
Maria Roberta Cilio - University of California, San Francisco, USA
Paola Cogo - Azienda Ospedaliera Universitaria Udine, Italy
Marek Czosnyka - Department of Clinical Neurosciences - University of Cambridge, UK
Zofia Czosnyka - Department of Clinical Neurosciences - University of Cambridge, UK
Robertino Dilena - Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico Milan, Italy
Luca Doglio - Gaslini Children's Hospital Genoa, Italy
Antonello Grippo - Neuromuscolar Department, AOU Careggi, IRCCS Don Carlo Gnocchi, Florence, Italy
Paola Lanteri - Gaslini Children's Hospital Genoa, Italy
Silvia Lori - Neurophysiology Unit, Department of Neuroscience, Careggi University Hospital of Florence, Italy
Gian Michele Magnano - Gaslini Children's Hospital Genoa, Italy
Sandra Magnoni - Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico Milano, Italy
Fabio Minicucci - Unità INSPE, Ospedale San Raffaele Milano, Italy
Mahendra Moharir - The Hospital for Sick Children Toronto, Canada
Giovanni Morana - Gaslini Children's Hospital Genoa, Italy
Paolo Moretti - Gaslini Children's Hospital Genoa, Italy
Andrea Moscatelli - Gaslini Children's Hospital Genoa, Italy
Marco Pallavidino - Gaslini Children's Hospital Genoa, Italy
Alessandro Parodi - Gaslini Children's Hospital Genoa, Italy
Gianluca Piatelli - Gaslini Children's Hospital Genoa, Italy
Luca Ramenghi - Gaslini Children's Hospital Genoa, Italy
Marco Ranucci - I.R.C.C.S. Policlinico San Donato, Milan, Italy
Chiara Robba - Addenbrookes Hospital, Cambridge, UK
Andrea Rossi - Gaslini Children's Hospital Genoa, Italy
Maria Savina Severino - Gaslini Children's Hospital Genoa, Italy
Nino Stocchetti - Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico Milano, Italy
Sandra Strazzer - Istituto Scientifico Eugenio Medea Bosisio Parini, Lecco, Italy
Pasquale Striano - Gaslini Children's Hospital Genoa, Italy
Agnese Suppiej - MD PhD - Paediatric University Hospital Padova, Italy
Robert Tasker - Boston Children's Hospital, USA
Domenico Tortora - Gaslini Children's Hospital Genoa, Italy
Pietro Tuo - Gaslini Children's Hospital Genoa, Italy

SCIENTIFIC COMMETTEE

Silvia Buratti
Paola Lanteri
Chiara Robba
Agnese Suppiej
Andrea Moscatelli
Luca Ramenghi
Andrea Rossi
Robert Tasker

AIMS

Neonatal and pediatric neurocritical care is an evolving subspecialty that integrates neuroscience and critical care specialties. Rapid advances in knowledge and perspectives are challenging and specific training is key to develop the high level expertise required in the clinical practice.
Brain-oriented critical care involves in-depth understanding of cerebral metabolism and pathophysiologic processes that lead to secondary injury in the developing brain. Established and new brain monitoring principles, including neuroelectrophysiologic techniques, and neuroimaging assessment are essential and complementary components to clinical evaluation in the prevention and management of acute brain injury. The principles of neuromonitoring and neuroprotection can be widely applied in the heterogeneity of neurologic disorders in the neonatal and pediatric intensive care unit.
The course will include sessions on specific disorders, such as head trauma, hypoxic-ischemic encephalopathy, stroke, status epilepticus, and congenital heart disease.
The course is targeted to intensivists, neurologists, neurosurgeons, critical care nurses who wish to learn the essentials of neurocritical care in the neonatal and pediatric setting.
The course is a broad collaborative project held by skilled neonatal and pediatric intensivists, neurologists, neuroradiologists, and neurosurgeons with clinical and research expertise in neurocritical care.

TOPICS

General principles
Brain oriented critical care, neuroprotection, neuromonitoring.

Neuroelectrophysiologic evaluation and monitoring
From theory to practice: EEG, aEEG, Evoked Potentials, Nerve Conduction Velocity and Electromyography.

Neuroimaging
Head ultrasound, Transcranial Doppler, brain MR and CT: principles, normal anatomy and pathology.

Neuromonitoring, diagnostic and therapeutic strategies in
Hypoxic ischemic encephalopathy, stroke, traumatic brain injury, congenital heart disease, refractory status epilepticus.

Special sessions

PROGRAM

November 7 Monday

08.30 Registration
09.00 Welcome address

General Principles

Chairs: *P. Tuo, A. Moscatelli*

09.15-09.45 Opening lecture: Brain oriented critical care - *R. Tasker*
09.45-10.15 Brain physics of brain injury - *M. Czosnyka*
10.15-10.45 Neuroprotection in acute brain injury - *N. Stocchetti*
10.45-11.00 Discussion
11.00-11.30 *Coffee break*
11.30-11.50 Neurologic examination in neonatal ICU - *T. Chang*
11.50-12.10 Neurologic examination in critically ill patients. When potentially useful and when potentially dangerous - *A. Chieregato*
12.10-12.30 Discussion
12.30-13.45 *Lunch*

Clinical Monitoring

13.45-14.05 Intracranial pressure monitoring and waveform analysis - *C. Robba*
14.15-14.35 Cerebral blood flow monitoring and autoregulation (PRX) - *M. Czosnyka*
14.35-15.00 Cerebral oxygenation and metabolism monitoring - *N. Stocchetti*
15.00-15.30 *Coffee break*
15.30-15.50 Multimodality monitoring in neurocritical care - *S. Magnoni*
15.50-16.10 CSF dynamics in hydrocephalus - *Z. Czosnika*
16.10-16.30 Sodium balance and hyperosmolar therapy - *A. Moscatelli*
16.30-16.50 Discussion

PROGRAM

November 8 Tuesday

Neuroelectrophysiologic evaluation and Monitoring

From theory to practice

Chairs: *A. Suppiej, P. Lanteri*

09.00-09-20 Neurophysiological monitoring in adult and pediatric intensive care - *A. Amantini*
09.20-09.40 ABC of conventional and integrated EEG - *A. Suppiej*
09.40-10.00 Continuous conventional and integrated EEG (cEEG) monitoring in the NICU and PICU - *T. Chang*
10.00-10.20 Evoked Potentials (EP) - *A. Suppiej*
10.20-10.40 Discussion
10.40-11.10 *Coffee break*
11.10-11.30 Event related potentials (ERP) - *A. Grippo*
11.30.11.50 Nerve Conduction Velocity (NCV) and Electromyography (EMG) *P. Lanteri, S. Lori, R. Dilena*
11.50-12.10 Neurophysiological strategies for the diagnosis of disorders of the neuromuscular junction in children - *P. Lanteri, S. Lori, R. Dilena*
12.10-12.30 Critical illness polyneuropathy and myopathy in PICU - *A. Grippo*
12.30-12.50 Discussion
12.50-14.00 *Lunch*

Neuroimaging

Chairs: *L. Ramenghi, A. Rossi*

14.00-14.20 Head ultrasound: principles and normal anatomy - *G. Magnano*
14.20-14.40 Peculiar HUS presentations in newborns - *A.Parodi*
14.40-15.00 Transcranial Doppler - *C. Robba*
15.00-15.20 Discussion
15.20-15.50 *Coffee break*
15.50-16.10 Normal brain anatomy and development on CT & MRI - *G. Morana*
16.10-16.40 Brain CT & MRI: principles, pitfalls and practical issues in critically ill children - *A. Rossi*
16.40-17.00 General pathologic findings on brain MRI: how to differentiate cytotoxic edema from vasogenic edema on MRI – how to evaluate brain hemorrhages on MRI – *D. Tortora*
17.00-17.20 Neuroimaging after neurosurgical procedures (brain tumors, hydrocephalus, congenital anomalies, epilepsy surgery, spine surgery, etc.) - *G. Morana*
17.20-17.40 Discussion

PROGRAM

November 9-10 Wednesday-Thursday

November 9th

Update on specific disorders

Diagnostic and therapeutic strategies Hypoxic ischemic encephalopathy

Chair: *R. Tasker*

08.30-09.00 The encephalopatic newborn and his lesions - *L. Ramenghi*
09.00-09.20 Pathophysiology of pediatric HIE - *R. Tasker*
09.20-09.40 MRI findings in newborns and pediatric patients - *M.Severino*
09.40-10.00 Update on management of neonatal HIE - *L. Ramenghi*
10.00-10.20 Update on management of pediatric HIE - *R. Tasker*
10.20-10.40 Discussion
10.40-11.10 *Coffee break*
11.10-11.30 Neurophysiology in hypotermic hypoxic-ischemic brain injury: clinical features and outcome - *A. Grippo, S. Lori*
11.30-11.50 Neurodevelopmental outcome in neonatal hypoxic-ischemic brain injury: the role of integrated neurophysiological approach - *A. Suppiej*
11.50-12.10 The prognostic role of ERP in neonatal and pediatric hypoxic-ischemic insult - *A. Grippo*
12.10-12.30 Discussion
12.30-13.40 *Lunch*

Stroke

Chair: *M. Moharir, L. Ramenghi*

13.40-14.00 Neonatal stroke: pathogenesis, clinical features and diagnosis - *M. Moharir*
14.00-14.20 Neonatal stroke: clinical, electrophysiologic and neuroimaging correlates - *M. Cilio*
14.20-14.40 Suspecting sinovenous thrombosis in neonates - *L. Ramenghi*
14.40-15.00 Focus on pediatric stroke - *M. Moharir*
15.00-15.20 Update on management - *L. Banov*
15.20-15.40 Discussion
15.40-16.10 *Coffee break*
16.10-16.50 **Special session**
Brain death: clinical determination and pediatric perspectives - *S. Buratti*

November 10th

Traumatic brain injury

Chairs: *A. Cama, A. Moscatelli*

08.30-09.00 Physiopathology and clinical aspects of traumatic brain injury. Learning from age related differences - *A. Chieregato*
09.00-09.30 Neuromonitoring: review and application in TBI - *S. Magnoni*
09.30-09.50 Neuroradiologic assessment in TBI - *D. Tortora*
09.50-10.10 The prognostic role of different pattern somatosensory evoked potentials and ERP in traumatic brain injury - *P. Lanteri*

PROGRAM

November 10-11 Thursday-Friday

10.10-10.30 Discussion
10.30-11.00 *Coffee break*
11.00-11.20 Guidelines for management of severe TBI - *M. Pallavidino*
11.20-11.40 Learning which treatment works for severe TBI - *R. Tasker*
11.40-12.00 Neurosurgical strategies in TBI - *G. Piatelli*
12.00.12.20 Spinal cord injuries: pathology and management - *G. Piatelli*
12.20-12.40 Discussion
12.40-14.00 *Lunch*

Congenital heart disease

Intra and post operative and ECMO neuromonitoring

Chair: *P. Cogo*

14.00-14.20 Neuropathology in CHD newborns - *S. Buratti*
14.20-14.50 Intra and post operative neuromonitoring - *M. Ranucci*
14.50-15.10 ECMO neuromonitoring - *A. Moscatelli*
15.10-15.25 Video EEG and status epilepticus in ECMO - *M. Cilio*
15.20-15.40 MRI correlates - *M. Severino*
15.40-16.00 Discussion
16.00-16.20 *Coffee break*
16.20-17.20 Interesting and complex cases

November 11th

Refractory status epilepticus

Chairs: *A. Suppiej, P. Striano*

08.30-08.50 Super refractory status epilepticus: pathophysiology and clinical features - *R. Tasker*
08.50-09.20 Electrophysiology - *F. Minicucci*
09.20-09.40 CT versus MRI: epilepsy related changes and diagnostic role - *A. Rossi*
09.40-10.00 Critical care management and proposal of a treatment protocol - *S. Buratti*
10.00-10.20 Discussion
10.20-10.50 *Coffee break*

Neurorehabilitation

Chair: *P. Moretti*

10.50-11.20 Rehabilitative management - *S. Strazzer*
11.20-11.40 Clinical cases - *L. Doglio*
11.40-12.00 Discussion
12.00-12.30 Closing Lecture: Ethical issues in Neurointensive Care - *R. Tasker*
12.30-13.00 CME questionnaire