

2nd Advanced Residential Course in **Neonatal Epileptology and Neurophysiology**

Joint Neonatal Epileptology and Neurophysiology (Joint-NEN)

Working Study Group Neonatal Neurology SINP
Working Study Group Clinical Genetics SIN

April 11-13, 2019 - Catania





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SUPPORTED BY



Ordine dei Medici Chirurghi
e degli Odontoiatri
della provincia di Catania



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HONORARY PRESIDENTS

Lorenzo Pavone

PRESIDENT OF THE COURSE

Giovanni Corsello

SCIENTIFIC BOARD

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Eloisa Gitto

Silvia Lori

Ettore Piro

Francesco Pisani

Martino Ruggieri

Agnese Suppiej

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Marianna Bussi

Carla Cimino

Giulia Cupitò

Maria Grazia Longo

Silvia Marino

Laura Mauceri

Carla Moscheo

Marco Andrea Nicola Saporito

Gregorio Serra

COURSE ATTENDEES

- Neonatologists
- Infantile Neuropsychiatrists
- Neurophysiopathology Technicians
- Pediatric Neurologist

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PARTICIPANTS BASIC SKILLS

Participants must have the following basic expertises:

- Specialization in Pediatrics with orientation in Neonatology
- At least 6 months documented work experience in a Neonatal Intensive Care Unit
- Advanced knowledge of English language

EDUCATIONAL AIMS

Provide participants with the appropriate cultural tools in the management of infants with epileptic pathology, through interdisciplinary sessions with specialists in this field.

COURSE CONTENT

The course will consist of thematic sessions about the following topics:

- anatomical, neurophysiological, biochemical and pharmacological notions with advanced neurophysiological notions.
- interdisciplinary notions with specialists who revolve in sharing the epileptic infant with future “scenarios” of innovative therapies
- epileptic genetic diseases

JOB SKILLS ACQUISITION

With this course the participant will acquire the competence in the diagnostic-therapeutic management of the new epileptic infant.

DURATION

The course will last three days and will be divided into thematic sessions.

COURSE METHODS

- lectures in English and Italian language
- discussion and comparison between participants
- evening learning audits

LEARNING VERIFICATION

The course includes some evenings in which the participants, helped by a tutor, will discuss the topics debated during the day and will answer to questions asked by the tutor to verify the learning of the course contents.

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Dear Colleagues,

Our advanced course of Neonatal Epileptology and Neurophysiology is addressed to neonatologists, child neurologists, neuropsychiatrists, and clinical neurophysiology technicians to provide the appropriate cultural tools on the management of infants with epileptic disorders.

The idea is to start a partnership with EPNS, SINP and SIN devoted to permanent education on neonatal neurology by means of annual itinerant courses.

The course is based on anatomical, neurophysiological, biochemical and pharmacological notions together with advanced neurophysiological topics. The “gold” standard to diagnose epileptic diseases remains the EEG that in Neonatal Intensive Care Units has become a very useful tool for the diagnostic and therapeutic management of neonatal seizures.

The course includes practical interactive clinical sections on genetic epileptic encephalopathies with the intent to underline the clinical clues for diagnosis and on practical use of EEG.

In addition, we also plan interdisciplinary sessions with multidisciplinary physicians specialist on different aspects of infant epilepsy, in order to provide future scenarios of innovative therapies. We will focus on the specific features of neonatal seizures, addressing special sessions on the diagnosis of subtle seizures and their early recognition. Moreover, we will address our attention on the autonomic signs and symptoms related to neurologic diseases, as early symptoms of epilepsy, when clinical and EEG signs are not still evident.

Finally, there will be also a session on genetic diseases, which are considered an important challenge to reduce mortality and morbidity of neonates with epileptic diseases.

All these sessions will be combined with the presentation of the most recent literature data, in order to provide topics for further multicenter research networks. We hope you will enjoy our program.

Joint Neonatal Epileptology and Neurophysiology (Joint-NEN)

FACULTY

Massimo Agosti - Milan

Rino Agostiniani - Pistoia

Maria Giovanna Aguglia - Catania

Arco Alessandro - Messina

Betta Pasqua - Catania

Alessandro Borghesi - Pavia

Angelo Busacca - Catania

Marianna Bussi - Naples

Caterina Cacace - Catania

Rosario Caci - Gela, CI

Maurizio Carta - Palermo

Nicola Cassata - Palermo

Maria Roberta Cilio - San Francisco (USA)

Carla Cimino - Catania

Roberto Cinelli - Naples

Domenico Cipolla - Palermo

Giovanni Corsello - Palermo

Giulia Cupitò - Catania

Francesco Cusumano - Milazzo, Me

Pietro D'Amico - Catania

Matteo Di Capua - Rome

Robertino Dilena - Milan

Antonella Vita Di Stefano - Catania

Filippo Drago - Catania

Maurizio Elia - Troina, En

Giacomo Faldella - Bologna

Raffaele Falsaperla - Catania

Vassilios Fanos - Cagliari

Daniele Farina - Torino

Marco Fichera - Catania

Agata Fiumara - Catania

Emilio Franzoni - Bologna

Giaccone Giovanni - Ragusa

Eloisa Gitto - Messina

Mario Giuffrè - Palermo

Mariangela Gulisano - Catania

Dong Kyu Jin - Seoul (KR)

Vito Leanza - Catania

Maria Grazia Longo - Catania

Silvia Lori - Florence

Riccardo Lubrano - Rome

Janette Mailo - Edmonton (CA)

Paolo Manzoni - Biella

Silvia Marino - Catania

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Simona Marino - Catania

Luca Massenzi - Rome

Massimo Mastrangelo - Milan

Emanuele Mastretta - Turin

Laura Mauceri - Catania

Luigi Memo - Belluno

Fabio Mosca - Milan

Carla Moscheo - Catania

Ferdinando Nicoletti - Rome

Marco Palumbo - Catania

Piermichele Paolillo - Roma

Piero Pavone - Catania

Lorenzo Pavone - Catania

Franco Pepe - Catania

Diego Piazza - Catania

Maria Piccione - Palermo

Simonetta Picone - Rome

Ettore Piro - Palermo

Francesco Pisani - Messina

Francesco Pisani - Parma

Agata Polizzi - Catania

Cristoforo Pomara - Catania

Andrea Praticò - Catania

Georgia Ramantani - Zurich (CH)

Antonino Rapisarda - Catania

Federico Raviglione - Milan

Renata Rizzo - Catania

Claudio Romano - Messina

Martino Ruggieri - Catania

Marco Andrea Nicola Saporito - Catania

Gregorio Serra - Palermo

Umberto Simeoni - Lausanne (CH)

Alberto Spalice - Rome

Mauro Stronati - Pavia

Agnese Suppiej - Ferrara

Massimo Tirantello - Syracuse

Francesca Vanadia - Palermo

Giovanni Vento - Rome

Antonio Vetro - Agrigento

Alberto Villani - Rome

Giovanna Vitaliti - Catania

Sameer Zuberi - Glasgow (UK)

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SCIENTIFIC PROGRAM

Thursday, April 11

09.00 **Welcome Speech from Scientific Societies**

Diego Piazza

President, Catania Medical Order

Alberto Villani

President of the Italian Society of Paediatrics (SIP)

Sameer Zuberi

President of the European Society of Paediatric Neurology (EPNS)

Fabio Mosca

President of the Italian Society of Neonatology (SIN)

Emilio Franzoni

President of the Italian Society of Paediatric Neurology (SINP)

Section 1

Developmental Changes in Neurotransmitter Systems

Chairman: **Renata Rizzo**

Discussants: **Alessandro Arco, Alberto Spalice**

09.30 **Receptors Overview**

Marco Andrea Nicola Saporito

09.50 **GABA Signalling**

Mariangela Gulisano

10.10 *Focus on* **Consciousness and Memory in Normal vs. Epileptic Neonates**

Martino Ruggieri

10.40 *Focus on* **Metabolomics in Pediatric Neurology: from Metabolites to Bedside Diseases**

Vassilios Fanos

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Section 2

Epileptogenesis Due to Structural Causes

Chairman: **Martino Ruggieri**

Discussant: **Francesca Vanadia, Antonio Vetro**

11.30 **Neonatal Encephalopathy or Encephalopathies?
Definitions and Pathogenesis**

Francesco Pisani (Me)

11.50 **Biological Determinants of Epileptogenesis During Life**

Giovanna Vitaliti

12.10 **Ictal Fraction: Only a Suggestion?**

Francesco Pisani (Pr)

12.30 *Focus on* **Development of Treatments to Prevent
Neurodegeneration in Patients with
Lysosomal Storage Disease**

Jin Dong Kyu

13.30 Lunch

Section 3

ILAE Classification of Seizures & Epileptic Syndromes:

Modifications for Seizures in the Neonatal Age

► Proposal from the ILAE Task Force on Neonatal Seizures

Chairman: **Giacomo Faldella**

Discussant: **Nicola Cassata, Giovanni Giaccone**

14.30 *Focus on* **Strenghts and Weaknessess**

Sameer Zuberi

Discussant: **Paolo Manzoni**

14.50 **Update of Sepsis in the Intensive Care Unit and brain injury**

Simonetta Picone

15.10 **Discussion**

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Section 4

Thresholds of Metabolic Acidosis Associated with Newborn Cerebral Palsy

Chairman: **Pier Michele Paolillo**

Discussants: **Franco Pepe, Vito Leanza**

15.30 **Intrapartum Hypoxic Events**

Marco Palumbo

15.50 **Medical Legal Claims**

Cristoforo Pomara

16.10 **Legal Responsibilities of Neonatologists**

Angelo Busacca

17.00 **Interactive discussion**

18.00 **End of the day**

Friday, April 12

Section 1

Types of Seizures: Record and Classify According to the ILAE Proposals

Chairman: **Agata Fiumara**

Discussant: **Mario Giuffrè, Daniele Farina**

09.00 **Automatisms**

Federico Raviglione

09.20 **Clonic**

Matteo Di Capua

09.40 **Epileptic Spasms vs. Myoclonic**

Simona Marino

10.00 **Sequential Seizures**

Robertino Dilena

10.20 **Criticism on ILAE proposal**

Ettore Piro

10.40 *Lecture:* **Epigenetic and Neurodevelopment**

Umberto Simeoni

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Section 2

Genetic Epilepsies with Neonatal Onset

Chairman: **Rino Agostiniani**

Discussant **Marco Fichera, Massimo Tirantello**

11.30 **Genetic Syndromes with Neonatal Epilepsy**

Luigi Memo

11.50 **Selecting a Genetic Testing Strategy**

Alessandro Borghesi

12.10 **NGS: When is it Useful?**

Maria Piccione

12.30 **WES: When and Why**

Piero Pavone

12.50 **Genetic Neonatal Epilepsies: Challenges and Opportunities for Personalized Medicine**

Maria Roberta Cilio

13.30 Lunch

Section 3

New Strategies in NICUs

Chairman: **Antonino Rapisarda**

Discussant: **Emanuele Mastretta, Pietro D'Amico**

14.30 **Parent role in NICU**

Massimo Agosti

14.50 **Ideal time for Polygraphy-Video EEG**

Raffaele Falsaperla

15.10 **Multimodal Short Monitoring**

Silvia Lori

15.30 **Caveats and pitfalls of NGS in expanded newborns screening**

Agata Polizzi

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Chairman: **Giovanni Corsello**

16.00 **Focus on News on Monitoring in Neonatal Critical Care**

Janette Mailo

16.30 **Focus on Ventilation Induced Brain Injuries (VIBI)**

in Preterm Infants

Giovanni Vento

Special Section on Nutrition

Chairman: **Francesco Cusumano**

Discussant: **Caterina Cacace, Maurizio Carta**

17.00 **Special Diets for Special Neonates**

Claudio Romano

17.20 **Not All Milks are the Same**

Rosario Caci

17.40 **Chetogenic Diet in Neonatology: Useful or Not?**

Laura Mauceri

18.00 **GABA receptors and neurodevelopment**

Ferdinando Nicoletti

18.30 **End of the Day**

Saturday, April 13

Section 1

Pharmacological Treatments: Old Dogmas and Novel Evidences

Chairman: **Antonella Vita Di Stefano**

Discussant: **Paolo Manzoni, Pasqua Betta**

09.00 **Principles of Pharmacotherapy:
from Pharmacokinetics to Pharmacodynamics**

Luca Massenzi

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09.20 **Long Term Effects of AEDs on Neurodevelopment:
What are the Evidences?**
Filippo Drago

09.40 **Who Guide Lines for Neonatal Seizures:
Therapeutic Quality of Evidences**
Georgia Ramantani

Chairman: Mauro Stronati

10.00 *Lecture:* **Epigenetics and Neonatal Epileptic Syndromes**
Giovanni Corsello

Section 2

Management of Neonatal Seizures: Does Etiology Matter?

Chairman: Riccardo Lubrano

Discussant: Domenico Cipolla, Roberto Cinelli

11.00 **Hypoxic Ischemic Encephalopathy**
Agnese Suppiej

11.20 **Stroke**
Massimo Mastrangelo

11.40 **Genetic Factors**
Maurizio Elia

12.00 **Intra/Interneuronal Dysfunctioning**
Andrea Praticò

12.30 Lunch

Chairmen: Eloisa Gitto, Mauro Stronati

13.30 **Neonatal Clinical Round on Unsolved Cases
from the Regional Scientific Societies**

14.00 **End of the Course**

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REGISTRATION

To participate in the course, you must complete the application form available online at the website www.pediatriasicilia.it, submitting your resume.

Scientific committee will examine the requests received and will select the attendees. The selected participants, after receiving communication from the Organizing Secretariat, must complete their registration by paying the registration fee through the website, within 7 days from the date of communication.

Registration fees with Accommodation (VAT not included): € 550,00

Registration fees without Accommodation (VAT not included): € 350,00

Registration fee includes: Conference kit, access to ECM credits, 3 lunches, certificate of attendance. Hotel accomodation is intended for 3 nights in Catania.

ECM (Continuing Medical Education)

This educational activity is accredited by the Italian National Commission for Continuing Education, for the following professions: Doctors of the following branch of knowledge: Neonatology; Infantile Neuropsychiatry; Neurology; Pediatrics; Pediatricians; Neurophysiopathology Technician.

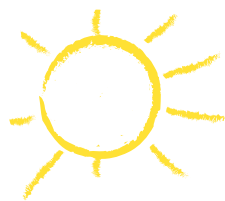
The course was accredited for 25 participants for 18 training hours. The event obtained 18 ECM credits. To issue credits attendee must: attend 90% of the total training hours of the event; register at the entrance and exit by scanning the barcode on his personal badge; pass the learning verification test at least 80% correct answers. In the event that the registration is offered by a company it is necessary that the participant deliver the invitation received from the company or fill out and sign a declaration that will be delivered at the time of registration.

Servizitalia does not assume responsibility for any failure to award credits by the Ministry in case of incorrect or partial completion of the forms

EVENT VENUE

Villa Citelli - Università degli studi di Catania

via Salvatore Tomaselli, 21- Catania



pediatriasicilia.it



Perchè iscriversi:

Iscrizioni online agli eventi in maniera comoda, rapida e sicura.

Attestati di partecipazione ed ECM scaricabili dall'area personale.

Materiale didattico degli eventi a cui ha partecipato.

Aggiornamenti periodici sugli eventi pediatrici e neonatologici.

Le operazioni di registrazione richiedono solo pochi minuti!

Lo staff Servizitalia è sempre a disposizione per fornire assistenza sia in fase di registrazione che di fruizione dei servizi del portale.



Registrati ora!



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info@pediatricsicilia.it



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