

3rd Advanced Residential Course in **Neonatal Epileptology and Neurophysiology**

Multidisciplinary Meeting on Neonatal Neurology

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

April 1-3, 2020 - Catania





Multidisciplinary Meeting on Neonatal Neurology

SUPPORTED BY



Ordine dei Medici Chirurghi
e degli Odontoiatri
della provincia di Catania



SIN Working Study Group in
Neonatal Pharmacotherapy

SIN Working Study Group in
Neurology and Follow Up

3rd Advanced Residential Course in **Neonatal Epileptology and Neurophysiology**

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COURSE ATTENDEES

Neonatologists, Child and Adolescent Neuropsychiatrists,
Neurophysiology Technicians, Pediatric Neurologists.

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 AND COURSE METHODS

The course will last three days and will be divided into thematic sessions, with:

- 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 neurophysiopathology technicians to provide the appropriate cultural tools on the management of infants with epileptic disorders.

The idea is to give a 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 multicentric research networks.

We hope you will enjoy our program.

Multidisciplinary Meeting on Neonatal Neurology

FACULTY

Rino Agostiniani - Pistoia

Gina Ancora - Rimini

Maria Giovanna Aguglia - Catania

Arco Alessandro - Messina

Maria Bastianelli - Florence

Giuseppe Belfiore - xxx

Lidia Broglio - Rome

Caterina Cacace - Patti, Me

Rosario Caci - Gela, CI

Francesco Cali - Troina, En

Maurizio Carta - Palermo

Nicola Cassata - Palermo

Roberta Cilio - San Francisco (US)

Roberto Cinelli - Naples

Maria Sole Coletta - Patti, Me

Giovanni Corsello - Palermo

Giulia Cupitò - Catania

Francesco Cusumano - Milazzo, Me

Carlo Dani - Florence

Paola De Lisio - Rome

Antonello Del Vecchio - Bari

Massimo De Vivo - xxx

Matteo Di Capua - Rome

Robertino Dilena - Milan

Maurizio Elia - Troina, En

Claudio Fabris - Turin

Raffaele Falsaperla - Catania

Vassilios Fanos - Cagliari

Daniele Farina - Turin

Alfonsa Farruggia - Agrigento

Marco Fichera - Catania

Emilio Franzoni - Bologna

Monica Fumagalli - Milan

Simonetta Gabbanini - Florence

Eloisa Gitto - Messina

Soumya Ghosh - Perth (AU)

Paola Lago - Treviso

Silvia Lori - Florence

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Luca Maggio

Janette Mailo - Edmonton, Alberta (CA)

Giovanna Mangili - Bergamo

Silvia Marino - Catania

Simona Marino - Catania

Massimo Mastrangelo - Milan

Emanuele Mastretta - Turin

Luigi Memo - Belluno

Eugenio Mercuri - Rome

Paolo Montalto - Rome

Fabio Mosca - Milan

Lakshmi Nagarajan - Perth (AU)

Ferdinando Nicoletti - Rome

Luigi Orfeo - Rome

Piermichele Paolillo - Rome

Deb Pal - London (UK)

Ettore Piro - Palermo

Francesco Pisani - Parma

Andrea Praticò - Catania

Georgia Ramantani - Zurich (CH)

Luca Ramenghi - Genoa

Cristiano Rizzo - Verona

Valerio Rocchi - Rome

Claudio Romano - Messina

Martino Ruggieri - Catania

Fabrizio Sandri - Bologna

Marco Andrea Nicola Saporito - Catania

Gregorio Serra - Palermo

Gianfranco Scarpelli - Cosenza

Alessandro Scoppa - Naples

Mauro Stronati - Pavia

Agnese Suppiej - Ferrara

Michele Vecchio - Caltanissetta

Giovanni Vento - Rome

Antonio Vetro - Agrigento

Alberto Villani - Rome

Federico Vigevano - Rome

Sameer Zuberi - Glasgow, Wales (UK)

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SCIENTIFIC PROGRAM

Wednesday, April 1

09.00 - 11.00

Practical Course on Neonatal Neuroimaging

Giuseppe Belfiore, Roberto Cinelli, Monica Fumagalli, Gregorio Serra

Responsabile Scientifico: Martino Ruggieri

11.30 - 13.30

Practical Course on EEG

Gina Ancora, Maria Sole Coletta, Massimo De Vivo, Simona Marino

Responsabile Scientifico: Raffaele Falsaperla

15.00 **Welcome Speech from Scientific Societies**

Alberto Villani

President of the Italian Society of Paediatrics (SIP)

Fabio Mosca

President of the Italian Society of Neonatology (SIN)

Emilio Franzoni

President of the Italian Society of Paediatric Neurology (SINP)

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Section 1

Epileptogenesis & Brain Development in Neonatal Brain

Chairman: **Martino Ruggieri**

Discussant: **Daniele Farina, Giovanna Mangili**

15.30 **Network Maturation During Brain Development**

Luca Ramenghi

15.50 **Epileptogenesis from Fetal to Newborn**

Andrea Praticò

16.10 **GABA Mystery**

Ferdinando Nicoletti

16.30 **Discussion**

Chairman: **Mauro Stronati**

17.00 *Lecture:* **Epigenetics and Neonatal Epileptic Syndromes**

Giovanni Corsello

Special Section on Nutrition

Chairman: **Francesco Cusumano**

Discussant: **Caterina Cacace, Luca Maggio**

17.30 **Special Diets for Special Neonates**

Claudio Romano

17.50 **Not All Milks Are the Same**

Maurizio Carta

18.10 End of the day

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SCIENTIFIC PROGRAM

Thursday, April 2

Section 2

Neurophysiopathology Technicians, Neurophysiological Tricks

Chairman: **Lidia Broglia**

Discussant: **Alfonsa Farruggia, Valerio Rocchi**

09.00 **EEG Record in NICU: Criticism**

Giulia Cupitò

09.20 **Technological Advises During Therapeutic Hypothermia**

Simonetta Gabbanini

09.40 **Short Monitoring EEG & SSEP: When and Why**

Maria Bastianelli

10.00 **Discussion**

Section 3

Hypoxic Ischemic Encephalopathy & EEG pattern

Chairman: **Rino Agostiniani**

Discussant: **Giovanni Vento, Antonio Vetro**

11.00 **HIE: EEG Pattern Compared to a EEG**

Raffaele Falsaperla

11.20 **Electro Clinical Seizures in HIE**

Massimo Mastrangelo

11.40 **Doubts EEG Pattern**

Paola De Lisio

12.00 **Discussion**

12.30 *Focus:* **Movement Disorders on Neonatal Age**

Soumya Ghosh

13.00 Lunch

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Multidisciplinary Synergies

Chairman: **Claudio Fabris**

Discussant: **Antonello Del Vecchio, Gianfranco Scarpelli**

- 14.00 **Neurological Examination for Diagnosing Cerebral Palsy Early in High-Risk Infants**
Eugenio Mercuri
- 14.20 **Metabolomics in HIE: from Metabolites to Bedside Diseases**
Vassilios Fanos
- 14.40 **Brain Prenatal Malformations: Clue for a Neonatologist**
Martino Ruggieri
- 15.00 **Discussion**

Section 4

Genetic Epilepsies with Neonatal Onset

Chairman: **Luigi Memo**

Discussant: **Francesco Calì, Marco Fichera**

- 15.30 **Genetic Syndromes with Neonatal Epilepsy**
Roberta Cilio
- 15.50 **Selecting a Genetic Testing Strategy**
Deb Pal
- 16.10 **WES: When and Why**
Sameer Zuberi
- 16.30 **Genetic Neonatal Epilepsies: Challenges and Opportunities for Personalized Medicine**
Federico Vigevano

Section 5

Chairman: **Piermichele Paolillo**

- 17.00 *Focus:* **Quantitative EEG with NIRS and Continuous Video EEG**
Janette Mailo

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Section 6

Neonatal Epilepsy: from NICU to Follow up

Chairman: **Maurizio Elia**

Discussion: **Fabrizio Sandri, Michele Vecchio**

17.30

Incidence

Maria Giovanna Aguglia

17.50

Prognostic Factors

Robertino Dilena

18.10

Outcome of Neonatal Seizures

Francesco Pisani

Chairman: **Francesco Pisani**

18.30

Lecture: Update on Neonatal Seizures

Lakshmi Nagarajan

19.00

End of the day

Friday, April 3

Section 7

New Neurophysiological Strategies in NICU

Chairman: **Carlo Dani**

Discussant: **Paola Lago, Luigi Orfeo**

09.30

Combined Neuromuscular Study (Ultrasounds and EMG) in Infancy

Silvia Lori

09.50

The Added Value of Event-Related Potentials in NICU

Agnese Suppiej

10.10

Data Implementation Acquisition and Integration Device in the Neurologic Intensive Care Unit (MOBERG)

Cristiano Rizzo

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10.30 **Moebius Syndrome: a Neurophysiological Light
in a Diagnostic Path**

Matteo Di Capua

10.50 **Discussion**

Section 8

**NICU Area: Efficacy of Amplitude-Integrated
Electroencephalography in the Screening of Newborns**

Chairman: Nicola Cassata

Discussant: Alessandro Arco, Rosario Caci

11.30 **Metabolic Disorders**

Emanuele Mastretta

11.50 **Infective Disorders**

Alessandro Scoppa

12.10 **HIE Versus Congenital Encephalopathy**

Marco Andrea Nicola Saporito

12.30 **Discussion**

Section 9

Do We Know That

Chairman:

Discussant:

13.00 **Levetiracetam Efficacy: Term Versus Preterm Neonates**

Georgia Ramantani

13.20 **New Neuroprotection Strategy**

Eloisa Gitto

13.40 **NGS Neuroprotection Trials in HIE**

Paolo Montalto

14.00 **Neurophysiological Differences Between Twin**

Ettore Piro

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, 2 lunches, certificate of attendance. Hotel accommodation 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; Paediatrics; Paediatricians; Neurophysiopathology Technician.

The course was accredited for xx participants for xx training hours. The event obtained xx 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 delivers 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

**Monastero dei Benedettini di San Nicolò l'Arena
University of Catania**

Piazza Dante Alighieri, 32 - 95124 Catania CT

Un particolare ringraziamento alle aziende che sostengono
in modo non condizionato questo evento formativo.



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