



ILAE International League
Against Epilepsy

INDIAN EPILEPSY ASSOCIATION
Kochi

Great Ormond Street
Hospital for Children
NHS Foundation Trust



Necker
ENFANTS MALADES
HÔPITAL UNIVERSITAIRE
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PUBLIQUE HÔPITAUX
DE PARIS

**Comprehensive ILAE teaching course with a combination of
lectures and expert - led practical sessions**

IMA House, Cochin, Kerala, India

3rd - 5th March, 2023

EEG in the First Year of Life - from newborn to toddler



Course directors

Dr. Ronit Pressler

Great Ormond Street Hospital for Children, London, UK

Dr. Vinayan K.P

Amrita Institute of Medical Sciences, Cochin, Kerala, India

Dr. Monika Eisermann

Necker Enfants Malades Hospital, Paris, France

ILAE Teaching course

EEG in the first year of life - from newborn to toddler 3rd - 5th March 2023

Course description

This is a 3-day residential EEG course with an emphasis on interactive, hands-on experience. This annual course is now running for the fifth year and for the second time outside of Cambridge, UK. Previous courses were greatly appreciated by the international delegates (see testimonies below). In view of the high demand, the course will be held again in Asia in 2023 to reach a wider audience from resource limited settings. The content covers normal maturational aspects, abnormal EEG patterns and grapho elements in neonates and infants as well as the range of seizures and epilepsies encountered in day to day practice in the first year of life. It consists of a standardized teaching module with lectures and practical workshops during which EEG examples will be reviewed by participants in small groups under the supervision of a faculty tutor.

The course is targeted at neurologists (pediatric and adult), clinical neurophysiologists, and neonatologists who deal with neonates and infants with seizures or epilepsy. It is limited to a maximum of 100 participants, so early booking is strongly recommended. Basic EEG knowledge is a requirement for the course and applicants will be selected on the basis of their CVs.

The course is organized under the auspices of the ILAE Academy and is supported by the Indian Epilepsy Association Kochi.

Timetable

Friday, 03rd March 2023

11:00 - 12:15	Registration and Buffet lunch
12:15 - 12:30	Ronit Pressler, Vinayan K.P & Monika Eisermann Welcome
12:30 - 13:00	Rachel Thornton (UK) Technical aspects, Challenges, and Pitfalls
13:00 - 14:00	Fabrice Wallois (France) Normal maturation in newborns
14:00 - 14:30	Alexandre N. Datta (Switzerland) Normal EEG in infancy-Wake and Sleep
14:30 - 15:00	Coffee break
15:00 - 17:00	Workshop I - Normal and abnormal EEG in newborns & infants
19:00 - 20:30	Dinner

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Saturday, 04th March 2023

09:00 - 09:30	Sushma Goyal (UK) EEG in Brain injury of prematurity & prediction of outcome
09:30 - 10:00	Geraldine Boylan (Ireland) EEG in Hypoxic ischemic encephalopathy
10:00 - 11:00	Workshop II - Brain injury in term infants
11:00 - 11:30	Coffee break
11:30 - 12:30	Ronit Pressler (UK) EEG of neonatal seizures and classification
12:30 - 13:00	Vinayan K.P (India) Neonatal seizures - Diagnosis and management in resource limited Countries
13:00 - 14:00	Lunch
14:00 - 14:30	Ronit Pressler (UK) aEEG in neonatal ICU
14:30 - 15:00	Monika Eisermann (France) Early-Infantile Developmental / Epileptic Encephalopathies (DEE)
15:00 - 15:30	Coffee break
15.30 - 17.30	Workshop III - Neonatal seizures & Early infantile DEE-EEG & aEEG

Sunday, 05th March 2023

08:30 - 09:00	Monika Eisermann (France) EEG Abnormalities in inborn error of metabolism
09:00 - 09:30	Maria Ángeles Perez-Jimenez (Spain) Infantile Spasms and Hypsarrhythmia
09:30 - 10:10	Nicola Specchio (Italy) Self-Limited epilepsy syndromes in infancy
10:10- 10:30	Vinayan K .P Non - Epileptic Events in newborn and Infancy
10:30 - 11:00	Coffee break
11:00 - 13:00	Workshop IV - Seizures in infancy
13:00 - 13:45	Lunch
13:45- 14:30	Ronit Pressler & Monika Eisermann Quiz
14:30	END OF COURSE

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Course Directors



Ronit M Pressler, PhD MD, London, UK

Dr. Ronit Pressler is Consultant in Clinical Neurophysiology and clinical lead of the Telemetry Unit at Great Ormond Street Hospital for children, London and Associate Professor at the UCL-GOS Institute of Child Health.

Her research interests include neonatal seizures, particularly their diagnosis and treatment, as well as the effect of epilepsy on cognition and pre-surgical evaluation in children with complex epilepsy. She published widely on neonatal seizures and childhood epilepsy and is the Associate Editor at *Epilepsia Open*. She was the coordinator of NEMO, an EU funded study on the safety and efficacy of bumetanide for the treatment of neonatal seizures. Since 2015 she has been on the council of the British Society for Clinical Neurophysiology

(BSCN) and currently serves as international secretary. She is chair of the ILAE neonatal seizure classification task force as well as co-chair of the ILAE neonatal guidelines update task force.



Monika Eisermann, MD, Paris, France

Dr. Monika Eisermann is working as Consultant Clinical Neurophysiologist at the Pediatric University Hospital Necker Enfants Malades Hospital in Paris, France. Her clinical work involves all types of pediatric neurophysiological exploration, with the main emphasis on epilepsy monitoring. As member of the research unit INSERM 1129 "Infantile Epilepsies and Brain Plasticity" of the René Descartes University she works on rare epilepsies, especially on neonatal epilepsies and epileptic spasms at all ages.

She has a vast national and international teaching experience and organizes regular national seminar's and workshops in pediatric clinical neurophysiology. She is the director of the internet-based VIREPA pediatric EEG course since 2013. She is a member of the executive committee of the French Society of Clinical

Neurophysiology Society, acting as delegate and liaison officer to the International Societies. She is also member of the Epilepsy Certification Taskforce of the ILAE.



Vinayan K.P, MD, DM Cochin, India

Professor Vinayan K.P is head of the department of Pediatric Neurology and Epilepsy at the Amrita Institute of Medical Sciences, Cochin, India. He was trained in Pediatrics & Neurology in India and also in Epilepsy at the National Epilepsy Center, Shizuoka, Japan and Children's Hospital, Sydney, Australia.

Dr. Vinayan serves in the terminology commission of the ILAE. He is a core member of the Asian Epilepsy Academy (ASEPA). He is also a part of the EEG, research advocacy, neonatal seizure classification, neonatal seizure management guideline update and plant based therapy task forces of ILAE. He had been a member of the governing boards of the Indian Epilepsy Society and the Indian Epilepsy Association and also serves currently as the treasurer of the IES. He is the national convener of the pediatric neurology subsection

of the Indian Academy of Neurology. He was a member of the Pediatric s commission of ILAE and editor of *Epilepsy India* from 2013 to 2017.

Faculty



Geraldine Boylan, PhD, Cork, Ireland

Geraldine Boylan is Director of the INFANT Research Centre (www.infantcentre.ie) and Professor of Neonatal Physiology in the Department of Paediatrics & Child Health, University College Cork, Ireland. She has a career-long track record in clinical neurophysiology and since 1996 she has worked exclusively in the field of neonatal neurophysiology. Her PhD thesis from Kings College London focused on EEG and cerebral blood flow velocity during neonatal seizures. She is a Science Foundation Ireland and Wellcome Trust funded Principal Investigator. At the INFANT centre, she leads the neonatal brain research group. This is a multidisciplinary research team that has established an international reputation in the area of neurological monitoring in the neonatal intensive care unit, particularly for seizure detection and early diagnosis of brain

injury. Researchers in Geraldine's group are developing automated algorithms for monitoring brain activity and novel monitoring tools for physiological data acquisition in the neonatal intensive care unit. One such innovation, an automated seizure detection algorithm for newborn babies, is the focus of a large multicentre trial (ANSeR) funded by a Strategic Translational Award from the Wellcome Trust (www.anserstudy.com).

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Alexandre N. Datta, MD, Basel, Switzerland

PD Dr. Alexandre Datta is vice - head of Pediatric Neurology and Developmental Medicine Department and Head of Epileptology and Sleep Department at the University Children's Hospital Basel, Switzerland.

He was trained in Pediatrics and Pediatric Neurology at University Children's Hospital Basel and University Children's Hospital Geneva and undertook a fellowship in Pediatric Epileptology at Hôpital Necker-Enfants Malades and INSERM unity U663 CEA in Paris from 2007-2008.

He has a particular clinical and scientific interest in childhood epilepsy and is involved in many national and international research projects, currently in brain plasticity and functional imaging in childhood epilepsy (in particular BECTS), sleep and circadian rhythm in preterm and term babies and genetic causes of epileptic encephalopathy.

He is in the executive board of the Swiss Epilepsy League, the Swiss Society of Clinical Neurophysiology as well as the Swiss Society of Pediatric Neurology.



Sushma Goyal, MD, London, UK

Dr. Sushma Goyal was trained as a medical doctor in India. She came to London to train in clinical neurophysiology at King's College Hospital, where her background in pediatrics and neurology helped her to become one of the very few children's clinical neurophysiologists in the country.

Currently a children's clinical neurophysiologist at Evelina London, Sushma enjoys being part of a dedicated team and dealing with challenging cases. Her specialist interests include seizures and epilepsy in newborn babies and children as well as the evaluation of children for epilepsy surgery and home video telemetry.

Sushma teaches in the National Clinical Neurophysiology and Pediatric Epilepsy Training programmes. She is an active member of the British and South East Epilepsy Interest Groups.



María Ángeles Pérez-Jiménez, MD, PhD, Madrid, Spain

María Ángeles Pérez-Jiménez, MD, PhD is a Clinical Neurophysiologist (1994) and epileptologist, trained in paediatric epileptology at the Childhood Neuropediatric Department, Verona University (1993-1995), and childhood epilepsy surgery at the Cleveland Clinic Foundation (1999). Since 1999, she is responsible for the Paediatric Epilepsy Monitoring Unit, Niño Jesús Paediatric University Hospital. She coordinates the comprehensive presurgical multimodal evaluation of children and adolescents (epilepsy surgery program), and conducts non-invasive and invasive video-EEG monitoring studies. Since 2011, she has been involved as principal investigator of collaborative institutional research projects in paediatric epilepsy and focal cortical dysplasias, as well as researcher associated to other projects on the subject. She has special clinical

interest in the study of video-EEG findings in paediatric epilepsy syndromes, epileptic encephalopathies, and non-epileptic paroxysmal events. She actively collaborates in educational activities; member of the organizing committee of the international annual course on video-EEG in paediatric epilepsies in Madrid, and is responsible for the educational section of the Spanish Epilepsy Society.



Nicola Specchio, MD, PhD, Rome, Italy

Dr. Specchio is MD, PhD in the Department of Neuroscience at Bambino Gesù Children's Hospital in Rome, Italy. Dr. Specchio main activity is the diagnosis and treatment of pediatric epileptic patients, with main interest in seizure semiology, classification of epileptic seizures and syndromes. He works in the field of pre-surgical evaluation of patients with drug resistant epilepsy and in the selection of patients with genetic epilepsies.

Dr Specchio has published papers in International journals with main interest on epilepsy at *Epilepsia*, *Epilepsy Research*, *Epilepsy and Behavior*. Dr. Specchio currently is responsible for different clinical research projects regarding invasive monitoring of epileptic patients and the genetic etiology of epileptic encephalopathy in the first three years of life.

Dr. Specchio is representative of the executive board of ILAE Europe.

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Rachel Thornton, PhD, London UK

Dr. Rachel Thornton is Consultant Clinical Neurophysiologist at Great Ormond Street Hospital, London and Cambridge University Hospitals NHS Trust. Her main clinical interests are pre-surgical evaluation in children with Complex Epilepsy including Stereo electro encephalography and EEG monitoring in pediatric and neonatal intensive care settings.

Research interests include evaluation of brain networks using EEG in focal epilepsy in collaboration with groups at UCL and Kings College London. She sits on the Council of the British Society for Clinical Neurophysiology. She has a keen interest in education and training, having co-founded an annual pediatrics EEG workshop and as well as developing the UK ILAE EEG and semiology course.



Fabrice Wallois

MD PhD, PU-PH, director of INSERM U1105 and of the
Unite pediatrique d'explorations fonctionnelles neurologiques

Professor Fabrice Wallois (Hindex=20, i10 index=42 google scholar) is a specialist of clinical neurophysiological investigations in children and premature infants. His research relates to the analysis and the maturation of the neural networks whatever they are respiratory or cortical, physiological or pathological in the child and in the animal. More recently, the development of acquisition and analysis tools allowing the characterization of the electric (EEG) and metabolic (NIRS) activities and their modulations in certain pathological situations as well as the localization of the sources of these cerebral activities in the child and

notably in premature infants are in the centre of the research To meet this goal he aims for development of tools allowing simultaneous analysis of modification in electric (High resolution EEG) and local hemodynamic (High Resolution NIRS, Optical imaging) cerebral activity, under physiological (cerebral maturation) and pathological conditions (anoxic ischemia of the premature baby, neurological suffering of the preborn, convulsion and epilepsy of the child). He developed the GRAMFC in 2004 as a multidisciplinary group and unifies since then a team of neuropsychologists, intensive care paediatricians and specialists in signal processing. It is recognized by the minister and by the Inserm (French National Institute of Health and Research in Medicine) (Inserm U 1105).

Tutors



Dr. Rachana Dubey Gupta, Indore, India

Dr. Rachana Dubey Gupta is Consultant Pediatric Neurology at Medanta Super speciality Hospital Indore India. Her main clinical interests are neonatal and pediatric epilepsy and movement disorders. Research interests include lesional epilepsy, electrophysiology and management. She is faculty for recurring epilepsy and electrophysiology workshops in the country.



Dr. Arushi Gahlot Saini, Chandigarh, India

Dr. Arushi Gahlot Saini is a consultant in Pediatric Neurology at the Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India. She has done her DM in Pediatric Neurology from PGI and is currently working as an Associate Professor.

Her clinical work involves all types of pediatric epilepsies, their diagnosis, management and follow-up, including pre-surgical evaluation and long-term V-EEG assessments. She is part of the faculty team for DM Pediatric Neurology and Pediatric Epilepsy fellowship training programs at her center. Her research interests include neonatal seizures, metabolic epilepsies and childhood epileptic encephalopathies especially CSWS. Dr Saini has published several papers in Pediatric epilepsies and has a keen interest in education and training.

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Registration Fee

Early fee (until 15.01.2023)	INR 10,000 + GST	\$ 220 (for international delegates)
Standard fee (from 16.01.2023)	INR 15,000 + GST	\$ 300 (for international delegates)
Includes lunch and dinner, along with access to all educational activities (lectures, tutorials and USB with course material)		
Accommodation (3 nights plus breakfast)	INR 12,000	\$ 250 (for international delegates)
A limited number of bursaries are available on request which might include partial waiver of registration fee and support for accommodation.		

Venue

IMA House, Kochi
Palarivattom PO, Cochin - 682025
Kerala, India
www.imahouse.in



Feedback from last year's course:

- What a brilliant three days!
- All sessions extremely useful!
- Excellent course, very clear presentations - congratulations!!
- Workshops were brilliant, small groups with wonderful tutors.
- Excellent course! Very good with the combination of lectures followed by workshops on the topics, which improved the learning experience
- It was great so leave it as it is! Thanks for every input! My EEG reports will improve certainly! Great Videos! Good Talks! A lot of practical clues!



For more information, visit

<https://www.ilae.org/congresses/ilae-sponsored-meetings-and-courses/eeg-in-the-first-years-of-life>

For Registration, Contact Ms. Anu Nair with your updated CV

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