

19th Advanced San Servolo Epilepsy Course

Early pediatric onset epilepsies: from syndrome and management to future perspectives

July 17– 28, 2023

San Servolo (Venice) Italy



Course Directors: Carla Marini (Italy) and Stéphane Auvin (France)



The Course is focussed on the pathophysiology, the diagnosis and the management of epilepsies of childhood and related research programs. Objectives of the Course are to understand i) the types, etiology and pathophysiology of epilepsies in children and adolescence, with a particular focus on early onset epilepsies, ii) the pathogenesis of the related comorbidities, iii) the current treatment options, iv) the clinical research methodology applicable to study early onset epilepsies, v) the unresolved critical issues related to the diagnosis and treatment of these forms.

The Course is open to specialists and residents in pediatric neurology, pediatrics, clinical neurophysiology and neurology; neuroscientists and PhD students are welcome to apply. To allow an optimal level of interaction with the faculty a maximum of 50 applicants will be selected on the basis of their CVs; consideration will be given to ensure participation of trainees from different geographical origins and disciplines.

Faculty – tutors

Stéphane Auvin	F
Carla Marini	I
Angel Aledo Serrano	S
Lucia Fusco	I
Hans Hartmann	D
Aristea Ganalopoulou	US
Rima Nabbout	F
Ronit Pressler	UK

Ingrid Scheffer	Aus
Nicola Specchio	I
Kette Valente	Br
Jo Wilmshurst	S Africa
Elaine Wirrell	US
Sameer Zuberi	UK

Faculty – lecturers

Simona Balestrini	I-UK
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Stéphanie Baulac	F
Nathalie Boddeart	F
Kees Braun	NL
Helen Cross	UK
Renzo Guerrini	I
Holger Lerche	D
Gaëtan Lesca	F
Massimo Mantegazza	F
Pasquale Striano	I

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The Course is endorsed by **ILAE Young Epilepsy Section**

Course Program

July 17		
6.30 pm	<i>registration</i>	
7.30 pm	<i>welcome buffet dinner</i>	
Day 1– July 18 – Neonatal and infantile epilepsies		
8.30 -8.40 am	Introduction to San Servolo course	M. de Curtis, C Marini & S Auvin
8.40-9.20 am	Neonatal seizures: ILAE classification and etiologies	R Pressler
9.20-10.00 am	Neonatal onset-epilepsies: seizure semiology and EEG patterns,	L Fusco
10.40-11.00 am coffee break		
11.00-11.40 am	Immature brain, neurotransmission and epilepsy	A Galanopoulou
11.40-12.20 am	Treatment and guidelines for neonatal seizures	H Hartmann
12.20am-1.00 pm	ILAE classification for neonates and infants: an overview	E Wirrell
1.15-2.30 pm lunch		
2.30-3.10 pm	Infantile DEE and etiology specific syndrome	S Zuberi
3.10-3.50 pm	Self-limited epilepsy in newborns and infants	J Wilmshurst
3.50-4.30 pm	Neonatal & infantile onset treatable epilepsies (antiquitin, PNPO, Biotine, GLUT1DS)	S Auvin
4.30 -5.10 pm	Pediatric onset epilepsies: when and what kind of genetic investigations?	G Lesca
5.30	<i>Student teams first meeting</i>	
6.30 -7.00 am	While in Venice: dos and don'ts	V Guarino
Day 2– July 19 - infantile epilepsies		
8.30 -9.10 am	Epileptic spasms in children and infantile spasms syndrome: etiologies and management	L Fusco
9.10-9.50 am	Animal models of spasms: what do we learn from them	A Galanopoulou
9.50-10.30 am	Non-epileptic paroxysmal disorders mimicking seizures in infants	R Pressler
10.30-11.00 am coffee break		
11.00-11.40 am	Dravet syndrome - Recent and future drug development in Dravet syndrome	I Scheffer
11.40-12.20 am	What do we learn from animal models?	M Mantegazza
1.00-2.30 pm lunch		
2.30-3.10 pm	Febrile seizure, GEFS+ and seizures in case of fever in epilepsy patients	S Zuberi
3.10-3.50 pm	How genetic research has changed the landscape of pediatric epilepsy?	C Marini
3.50-4.30 pm	Frequent comorbidities in childhood onset epilepsies (ADHD, Anxiety, Depression)	K Valente
4.45 -5.25 pm	Microbioma and epilepsy: current understanding and future	P Striano
5.25 – 6.05 pm	Precision medicine in pediatric epilepsy	R Nabbout
Day 3– July 20 – focal epilepsies in children		
8.30 -9.10 am	Epilepsy with Focal onset seizure: seizure semiology	K Braun
9.10-9.50 am	Focal cortical dysplasia and Malformation of cortical development (Imaging)	N Boddeart
9.50-10.30	Genetic advances in focal cortical dysplasia and malformation of cortical development	S Baulac
10.30-11.00 am coffee break		
11.00-11.40 am	Does seizure semiology evolve with brain maturation?	H Cross
11.40-12.20 am	How to localize the epileptogenic zone and presurgical evaluation	K Braun
12.20am-1.00 pm	Self-limited epilepsies in children	N Specchio
1.00-2.30 pm lunch		
2.30-3.15 pm	Special lecture: How to choose ASM in FOS? Cases-Interaction	S Auvin

3.15-4.30	Practical session: How to interpret genetic reports from patient (Database, VUS, functional analysis)	G Lesca, M Mantegazza
4.45-5.45 pm	Case presentation children organized by	A. Aledo Serrano
Day 4– July 21 – Childhood onset epilepsies		
8.30 -9.10 am	ILAE classification for children: an overview	J Wilmshurst
9.10-9.50 am	From SLeCTS to (D)EE-SWAS	R Guerrini
9.50-10.30	Epilepsy with myoclonic-astonic seizure	E Wirrell
10.30-11.00 am	coffee break	
11.00-11.40 am	Lennox-Gastaut syndrome	H Cross
11.40-12.20 am	Progressive myoclonic epilepsies in infants and children	P Striano
1.00-2.30 pm	lunch	
2.30-3.10 pm	TSC: clinical pictures, TAND, treatment (is there a place for epileptogenesis prevention)	A Aledo Serrano
3.10-3.55 pm	Special lecture: How to interpret MRI at different ages? Cases-Interaction	N Boddeart
3.55-4.40 pm	Special Lecture on transition	R Nabbut
4.40-5.40 pm	Clinical case presentation newborn	Fusco and Pressler
Day 5– July 22		
8.30 -9.10 am	Absence epilepsies: genetic background, management and related comorbidities	S Balestrini
9.10-9.50 am	Genetic generalized epilepsies	H Lerche
9.50-10.30	Status epilepticus in children	C Marini
10.30-11.00 am	coffee break	
11.00-11.40 am	Immune related epilepsy (HHE, FIRES, Autoimmune encephalitis, Rasmussen encephalitis)	N Specchio
11.40-12.30 am	Autism spectrum disorders and epilepsy	K Valente
12.30 am -2.00 pm	lunch	
2.00-3.00 pm	Special lecture: How to write a research project	I Scheffer
3.00-5.00 pm	Group work	
Days 6-10 - July 23-27		
all day	Group work	
Day 11 – July 28		
8.30-12.30 am	Working group presentations: - 45 minutes per group	all tutors
2.00 pm	Metella Prize winner and end of the Course	