

International School of Neurological Sciences of Venice
 ISNV President: Giuliano Avanzini – ISNV Director: Francesco Paladin
 Epilepsy Summer School Director: Marco de Curtis



17th San Servolo Advanced Epilepsy Course

Brain exploration and epilepsy surgery at pediatric age

San Servolo, Venice (Italy), 7-18 July 2019



Course Directors: Helen Cross (UK) and Imad Najm (US)

Aim of the Course is to teach attendees (1) the effects of uncontrolled epilepsy on childhood development, (2) to utilize knowledge to select pediatric patients for epilepsy surgery using EEG, semiology, imaging and other techniques; (3) to identify patients who require invasive evaluations and be able to choose the appropriate invasive technique; (4) to understand the various surgical resective and non resective approaches in pediatric epilepsy surgery and (5) to manage a Pediatric Epilepsy Surgery team. The Course is targeted to pediatric neurologists, neurophysiologists, neuroradiologists, pediatric neurosurgeons and clinical neuroscientists interested in the pathophysiology, diagnosis and management of pharmacoresistant epilepsies in children, and in the development of pediatric epilepsy surgery programs. The Course is based on formal lectures, practical case based discussions, debates between experts, and special group activities. Attendees will be grouped in small teams to prepare a research project on pediatric epilepsy under the supervision of two faculty tutors.

Tutors:

| | | | |
|------------------|-----|-----------------|----|
| Kees Braun | NL | Julia Jacobs | D |
| Helen Cross | UK | Gary Mathern | US |
| Luca de Palma | I | Imad Najm | US |
| Petia Dimova | BG | Eliseu Paglioli | BR |
| Martha Feucht | OST | Bertil Rydenhag | S |
| William Gaillard | US | Martin Tisdall | UK |
| Hans Holtausen | D | Laura Tassi | I |

Lecturers:

| | |
|---------------------|----|
| Alexis Arzimanoglou | F |
| Ingmar Blumcke | D |
| Christine Bulteau | F |
| Rita Garbelli | I |
| Persanna Jajakar | US |
| Lara Jehi | US |
| Georgia Ramantani | CH |

The Course is supported by the **International League Against Epilepsy (ILAE)**, by the **Fondazione IRCCS Istituto Neurologico C. Besta**, by **an educational grant of the American Epilepsy Society (AES)**, by **GW Pharma** and **Dixi** unrestricted grants. The Course is endorsed by the European Reference Network **EpiCARE** for Rare and Complex Epilepsies.



Course Program

| Sunday, July 7, 2019 | | |
|--|--|---------------------------------------|
| 7.00 pm | <i>registration</i> | |
| 7.30 pm | <i>welcome buffet dinner</i> | |
| Day 1–Monday, July 8- Pediatric Epilepsy Surgery: Timing and pathology | | |
| 8.30 -9.00 am | Welcome of ISNV President and Introduction of Course Directors | |
| 9.00-10.00 am | Epilepsy Surgery in Children: Then and Now | Helen Cross |
| 10.00-11.00 | Prognosis of early onset lesional epilepsy | Martha Feucht |
| 11.00-11.15 am | coffee break | |
| 11.15-12.15 am | Epilepsy and the developing brain | Christine Bulteau |
| 12.15-1.15 pm | Selection of candidates: the case for early surgery (Cognitive, motor and psychosocial outcomes) | Georgia Ramantani |
| 1.15-2.30 pm | lunch | |
| 2.30-3.30 pm | Selection of candidates: the case for early surgery (Seizure outcome) | Kees Braun |
| 3.30-4.30 pm | Pathology of Epilepsy in Children | Ingmar Blümcke |
| 4.30-5.30 pm | Formation of project teams | |
| 5.30 -6.30 pm | How to present a clinical case | Petia Dimova |
| 6.30 -7.00 am | While in Venice: dos and don'ts | Metella Paterlini e Valentina Guarino |
| Day 2–Tuesday, July 9- Pre-surgical evaluation 1 | | |
| 9.00 -10.00 am | Procedures for selecting surgical candidates | Lara Jehi |
| 10.00-11.00 am | The role of semiology in surgical selection | Laura Tassi |
| 11.00-11.15 am | coffee break | |
| 11.15 am-1.15 pm | Case presentations and discussions: Semiology | all tutors |
| 1.15-2.30 pm | lunch | |
| 2.30-3.30 pm | Pitfalls in the interpretation of video EEG | Petia Dimova |
| 3.30-5.30 pm | Case presentations and discussions: Scalp EEG | all tutors |
| 5.30-6.30 pm | Projects discussion | |
| Day 3–Wednesday, July 10- Pre-surgical evaluation 2 | | |
| 9.00 -10.00 am | Optimising structural MRI | Kees Braun |
| 10.00-11.00 am | The role of functional imaging in paediatric pre-surgical evaluation | William Gaillard |
| 11.00-11.15 am | coffee break | |
| 11.15 am-1.15 pm | Case presentations and discussions: Imaging/pathological correlations | all tutors |
| 1.15-2.30 pm | lunch | |
| 2.30-3.30 pm | MEG/ESI | Julia Jacobs |
| 3.30-4.30 pm | Neurocognitive evaluation | Christine Bulteau |
| 4.30 – 5.30pm | The concept of the patient management conference | Alexis Arzimanoglou |
| 5.30-6.30 pm | Projects discussion | |
| Day 4–Thursday, July 11– Invasive evaluation | | |
| 9.00 -10.00 am | Invasive recordings in children; when and why | Luca de Palma |
| 10.00-11.00 am | Ins and outs of Stereo EEG and subdural grids | Imad Najm |
| 11.00-11.15 am | coffee break | |
| 11.15 am-1.15 pm | Case presentations and discussions: invasive recordings or not | all tutors |
| 1.15-2.30 pm | lunch | |
| 2.30-3.30 pm | Debate: is Stereo EEG the invasive investigation of choice in all children? | Laura Tassi vs Helen Cross |
| 3.30-5.30 pm | Small group discussions: planning invasive EEG evaluation | Laura Tassi vs Helen Cross |
| 5.30-6.30 pm | Projects discussion | |
| Day 5–Friday, July 12 Surgery | | |
| 9.00 -10.00 am | Resective surgery in children –when enough is enough | Bertil Rydenhag |

| | | |
|--|---|---------------------|
| 10.00-11.00 am | Surgery in eloquent cortex | Persanna Jajakar |
| 11.00-11.15 am | coffee break | |
| 11.15 am-12.15 pm | Hemi-disconnections & multilobar resection | Eliseu Paglioli |
| 12.15am-1.15 pm | Is there a role for corpus callosotomy and other palliative surgery? | Martin Tisdall |
| 1.15-2.30 pm | lunch | |
| 2.30-5.30 pm | Practical session on neuropathology – | Roberto Spreafico |
| 5.30-6.30 pm | Projects discussion | |
| Day 6–Saturday, July 13– Controversies in Pediatric Epilepsy Surgery | | |
| 9.00 -09.45 am | Transfer of function after resection: fact or fiction? | William Gaillard |
| 09.45-10.300 am | Extent of resection: Should it be defined by anatomy, electrophysiology or function | Eliseu Paglioli |
| 10.30 – 11.00 am | Early vs late wean of anti-epileptic medications | Kees Braun |
| 11.00-11.15 am | coffee break | |
| 11.15-12.15 am | To operate or not to operate on patients with Tuberous sclerosis? | Martin Tisdall |
| 12.15-1.15 pm | When to consider surgery – should we wait for drug resistance? | Alexis Arzimanoglou |
| 1.15-2.30 pm | lunch | |
| Day 7– Sunday, July 14 | | |
| 9.00-11.00 am | Group discussion of cases presented by the students | |
| 11.00-11.15 am | coffee break | |
| 11.15-1.15 am | Group discussion of cases presented by the students | |
| 1.15-2.30 pm | lunch | |
| 2.30-5.30 pm | Group discussion of cases presented by the students | |
| Days 8-10 –Monday, Tuesday, Wednesday, July 15-17– Project development | | |
| Breakdown into groups and development pediatric epilepsy surgery projects conditions | | all tutors |
| Day 10 - July 17th, after 7.30 pm Final party.....bring music from your Country!!! | | |
| Day 11 –Thursday July 18 | | |
| 8.30-12.30 am | Working group presentations: - 45 minutes per group | all tutors |
| 2.00 pm | Gondola Prize winner and end of the Course | |