



Grant agreement no. 769051

# EpiCARE – a network for rare and complex epilepsies

*HP-ERN-2016 European Reference Networks / Framework Partnership Agreement*

D14.1 Frame proposal of learning goals with respect to the network established and available on the website

Work Package: **WP III: Education and training**

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Lead beneficiary for this deliverable: 28 EpiCARE centres  
Contributors: Professor Alexis Arzimanoglou

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<b>Dissemination Level</b>		
<b>PU</b>	Public	X

## **Disclaimer**

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## 1. Version log

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Version	Date	Released by	Nature of Change
01	26/02/2018	Professor Alexis Arzimanoglou	First version
02	04/03/2018	Professor Alexis Arzimanoglou	Updated version to reflect on the changes requested from the Project Officer

## 2. Definition and acronyms

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Acronyms	Definitions
ILAE	International League Against Epilepsy
EPNS	European Paediatric Neurology Society
EAN	European Academy of Neurology

### **3. Introduction**

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The transversal WP III on Education and Training of ERN EpiCARE has the following missions:

- Assess educational and training needs (M18) in Europe and establish priorities (M48)
- Develop and propose academic training standards in epilepsy for European medical students and fellows (M36)
- Contribute to the development of educational tools developed by the ILAE, EPNS, EAN (Accomplished and ongoing)
- Develop a credit system for acknowledgement of existing course content on rare and complex epilepsies (M48)
- Develop eLearning modules in collaboration with other EpiCARE work packages (M48)

### **4. Activities carried out and results**

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***(1) An expert group on Education and Training was formed.***

***The members of the expert group of who develop ideas in relation to education and training and provide guidance on the development of WP III activities are the following:***

- ARZIMANOGLU, Coordination (FR, Lyon);
- F. VIGEVANO, Co-coordination (Italy, Ospedale Pediatrico Bambino Gesù);
- N. SPECCHIO, link to European Commission of the ILAE (Italy, Ospedale Pediatrico Bambino Gesù);
- BLÜMCKE, Chair of the Education Task Force of the ILAE (Germany, Erlangen);
- L. LAGAE, President EPNS (Belgium, University Hospital Leuven);
- R. KALVIAINEN, Link to EAN (Finland, Kuopio Univ. Hospital);
- S. BENICZKY, link to ILAE Commission European Affairs and Education Task Force (Denmark; Danish Epilepsy Centre);
- K. BRAUN, link to Neuroimaging and E-Surgery WPs (The Netherlands, UMC Utrecht);
- R. PRESSLER, link to Neonatal Seizures WP (UK, GOSH).

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(2) As a **first step for an assessment of educational and training needs** a survey was performed, involving all 28 centres of EPICARE.

The EpiCARE member-centres were asked to provide information on:

(1) Is **YOUR centre** organising a **regular** educational course (national and/or international) **related (in any way) to rare and complex epilepsies**? YES/NO

(2) If "YES", since **WHEN?** For **WHOM** (required qualifications of participants)? Please also attach the 2017 program(s) and, if available, the 2018 one.

(3) Are you aware of educational courses with the above characteristics **organised by OTHER centres or institutions in your country?**  
If "YES", Please provide a contact.

(4) Are you aware of such educational activities organised **on an occasional basis in 2018?**  
If "YES" please provide contact and/or content.

#### **Results of the Education and training survey: Registry of relevant existing courses**

Reponses of all centres are attached as an Appendix.

All EpiCARE centres provided information on local, national and international educational and training activities.

Detailed analysis in in process but the first results already provide some clues on needs.

Epilepsy being a highly complex multidisciplinary pathology related to a great number of neurological and genetic disorders in both children and adults, most of the educational courses combine teaching sessions on both the fundamentals of epilepsy diagnosis and care and sessions on rare and complex epilepsies.

National courses allow for education and training in different languages (English, French, German, Spanish, Italian, Dutch).

European and international courses are delivered in English.

### **(3) Establish criteria for credit system existing courses**

For an educational course or workshop to be endorsed by the ERN EpiCARE, at least 50% of the sessions must have a "rare and complex epilepsies" related content. Following the detailed analysis of the survey results the core group of WP III will work on a list of more detailed criteria for endorsement, in collaboration with the ILAE Commission on European Affairs.

All centres organizing educational activities were encouraged to seek for CME credits approval, when applicable.

### **(4) Development of list proposed seminars:**

A number of educational and training courses, organized or co-organized by one or more of EpiCARE centres and the ILAE or EPNS fulfil the above criterion for endorsement. They are open to EU neurologists and child neurologists working in the domain of rare and complex epilepsies.

The following are examples (most already appearing on EpiCARE website):

- Stereo-EEG Course (Lyon, France and Milano, Italy; endorsed by the ILAE)
- EEG in the First 2 years of Life (GOSH London, UK; endorsed by the ILAE)
- EPIPED training course on Treatment of Paediatric Epilepsies (Lyon, France and HSJD, Barcelona, Spain)
- epiXchange scientific conference on Epilepsy Research, involving other WPs of EpiCARE
- 2nd European Glut 1 Conference (GOSH and Matthew's Friends, UK)
- KETOCOLLEGE on Ketogenic Diet for rare and complex epilepsies (UK)
- Neuropathology Summer School (Erlangen, Germany)
- San Servolo Epilepsy Summer School (Carlo Besta, Milano, Italy and ILAE)
- Workshop on Transition in Epilepsies (Necker, Paris, France)
- 2018 ILAE British Chapter Epilepsy Neuroimaging Course (UK)
- International Residential Course on Drug Resistant Epilepsies (Tagliacozzo Course; Italy; Ospedale Pediatrico Bambino Gesù)

Seven of the courses organized by members of EPICARE and directly dealing with rare and complex epilepsies are already announced on the website:

<http://epi-care.eu/education-training-2/>

Some of the above courses provide a limited number of educational grants (in most of the cases with the support of the European Commission of the ILAE) for the participation of doctors from lower income countries. However, funding is mainly obtained through individual initiatives, limiting the possibilities for a larger attendance.



### **(5) Training Facilities on site**

Most of the EpiCARE centres do not dispose of a specific budget to financially support young EU physicians who wish to spend a 6-12 months of training.

However, both the EPNS and the EAN regularly fund training programs of 3-6 months duration for young EU neurologists and child neurologists. Some of those awarded, when interested in epilepsy, choose one of the EpiCARE centres for training.

A survey will be organized before M24 on existing facilities and mentoring capacities of each of the EpiCARE centres

### **(6) EUROPEAN JOINT PROGRAM (EJP) on RARE DISEASES**

WP III of EpiCARE is an active partner of the EJP project, represented by Pr Arzimanoglou (Lyon, France) in WP3 of EJP RD Pillar 3.

## **5 Conclusions**

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The survey performed by the EpiCARE WP III n Education and training showed that an important number of training courses, educational workshops and scientific meetings are organized by the EpiCARE centres. Also all ERN EpiCARE members are active participants at all national meetings organized by the local Chapters of the ILAE.

Based on this data our **next objective is to perform a survey, in collaboration with the European Commission of the ILAE, to better identify specific educational needs, per country and/or within the EU, in the field of rare and complex epilepsies** (Project leaded by Pr N. SPECCHIO (Italy; Ospedale Pediatrico Bambino Gesù)

In parallel, the coordinator of WP III, Pr A. ARZIMANOGLU (Lyon, France), is working together with the Chair of the Educational Commission of the ILAE, Pr. I. BLÜMCKE (Erlangen, Germany) **to establish, under the auspices of the ILAE, an international Certificate-based program for epileptologists.**

**The educational frame will be composed by at least 6 major modules:**

- 1.0 Diagnosis
- 2.0 Counseling
- 3.0 Pharmacological Treatment
- 4.0 Epilepsy Surgery
- 5.0 Emergencies
- 6.0 Comorbidities
- 7.0 Biology of Epilepsy

Each module will include webinars on up to 10 topics, each topic also being subdivided to 3 and up to 5 subtopics.

A total of nearly 100 subtopics are on the list.

**The following are examples:**

**1.2 Demonstrate whom, when and how to genetic testing should be applied**

- 1.2.1 Decide on whom to do genetic testing
- 1.2.2 Decide when to conduct genetic testing
- 1.2.3 Decide what type of genetic testing to conduct
- 1.2.4 Interpret and apply the results of genetic testing accurately in the clinical context

**2.3 Communicate information about the causes and consequences of the specific type of epilepsy and its treatments**

- 2.3.1 Communicate to patients and families as appropriate about the epidemiology of epilepsy
- 2.3.1 Educate patient and family about the disease specifics (e.g. prognosis, self-limiting, risk factors, etc.)
- 2.3.2 Educate caregivers about the treatment plans
- 2.3.3 Educate workplace or school stakeholders concerning the patient's needs

**3.4 Demonstrate up-to-date knowledge about special aspects of pharmacological treatment**

- 3.4.1 Define treatment strategies considering issues specific to pre-menopausal women
- 3.4.2 Define treatment strategies considering issues specific to neonates and very young children
- 3.4.3 Define treatment strategies considering issues specific to the elderly
- 3.4.4 Define treatment strategies considering issues specific to sexual function and dysfunction

#### **4.2 Demonstrate working knowledge of advanced techniques for pre-surgical evaluation**

- 4.2.1 Recommend and interpret video-EEG monitoring as appropriate
- 4.2.2 Recommend functional neuroimaging as appropriate
- 4.2.3 Recommend neuropsychological testing as appropriate

#### **5.1 Demonstrate the ability to implement emergency treatment plans for children and adults in and outside the hospital setting**

- 5.1.1 Articulate the conditions or elements that constitute an emergency
- 5.1.2 Appropriately manage or advise regarding prolonged or sequential seizures
- 5.1.3 Appropriately manage or advise regarding injuries
- 5.1.4 Appropriately manage or advise regarding drug intoxication or adverse reactions
- 5.1.5 Appropriately manage or advise regarding psychiatric emergencies (e.g. psychosis, self-harm, agitation, etc.)

#### **6.1 Demonstrate the ability to diagnose and manage psychiatric comorbidities**

- 6.1.1 Diagnose psychiatric comorbidities, such as depression, anxiety, attention deficit and hyperactivity disorder, psychosis and autism spectrum disorders, and adjust management of epilepsy accordingly

Acquired degree of knowledge will give access either to a degree of "**Basic Knowledge**" (for clinicians not specializing in epilepsy) and "**Advanced**" for clinicians specializing in epilepsy and having to deal with rare and complex epilepsies).

Finally, together with the ILAE and the WIKPEDIA administration members of EPICARE will contribute to a full review of all sections related to the epilepsies and accessible to patients and their families.

## **6 APPENDIX - EPICARE RELATED EDUCATIONAL COURSES**

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### **WP III SURVEY PRELIMINARY RESULTS**

#### **DENMARK-Dianalund**

Advanced EEG summer school, also covering topics on rare diseases.

<https://www.ilae.org/congresses/4th-dianalund-summer-school-on-eeg-and-epilepsy>

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#### **FRANCE (all 3 centres)**

*CHRU LILLE, Epilepsy Unit*

*Epilepsy Departments, University Hospitals of Lyon*

*Hôpital Necker – Enfants Malades France Paris*

- FRENCH UNIVERSITY DIPLOMA OF CLINICAL EPILEPTOLOGY (2 years); One of the 2 combined with the Child Neurology University Diploma (French Chapter of the ILAE and University of Nancy)
  - Annual Meeting of the French League Against Epilepsy (French Chapter of the ILAE)
  - STEREO-EEG COURSE; 1/year in Europe (Grenoble-Lyon-Milano)
  - EPIPED TRAINING COURSE (3 years cycle) ON TREATMENT STRATEGIES IN PAEDIATRIC EPILEPSIES (Lyon-HSJD Barcelona collaboration)
  - Case-discussion meetings (3/year) organized by the Rare Epilepsies National Network (coordination: Necker, Paris)
  - Paediatric Epilepsy Surgery National meeting; 4/year (organized by Lyon Centre with the participation of Grenoble; Necker; Rothschild Foundation; Roumania (Dr Mindruta), others)
  - U-TASK force on paediatric epilepsy surgery (2/year; Coordination Lyon, France; Participation of all EpiCARE centres and other major EU centres dealing with rare cases of epilepsy surgery in children)
  - The annual International Epilepsy Colloquium co-organised by the Epilepsie centres in Bielefeld-Bethel and Berlin-Brandenburg, the University Hospitals of Lyon-Grenoble (France) and UCL (London).
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#### **GERMANY (2 centres)**

**University Hospital Bonn, Department of Epileptology**

**Epilepsy Centre, University Hospital, Freiburg**

- Annual teaching courses of the German Society of Epileptology on all aspects of diagnosis and treatment including rare and complex forms of epilepsies (<http://www.epilepsie-tagung.de/>)
- Annual teaching courses of the German Society of Neurology on diagnosis and treatment of epilepsies (<http://www.neurowoche.org/der-kongress/die-fuenf-saeulen/fortbildung>)
- Annual teaching courses of the German Society of Clinical Neurophysiology and functional imaging on EEG and MRI in epilepsies (<http://www.dgkn-kongress.de/>)

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- The annual International Epilepsy Colloquium co-organised by the Epilepsie centres in Bielefeld-Bethel and Berlin-Brandenburg, the University Hospitals of Lyon-Grenoble (France) and UCL (London).
  - The annual Summer School on Imaging in Epilepsy (SuSIE) co-organised by Epilepsy centres in Bochum and Marburg
  - The annual seminar on epilepsy in Gargnano organized by the Michael foundation
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## **SPAIN**

### **(A) Hospital del Mar, Barcelona**

1) Neurologist residents training in epilepsy: We offer since 2010 a two-months training for national and international neurology residents.

Website: [http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en\\_rotacions-externes-residents.html](http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en_rotacions-externes-residents.html)

2) Stage Hospital: It is a personalized short training for certified neurologists, pediatricians and neurophysiologists interested in to deep their knowledge in epilepsy.

See attachment and website: [http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en\\_cursos-curts-neurolegs.html](http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en_cursos-curts-neurolegs.html)

3) Fellowship in epilepsy: We offer a specialization program in epilepsy since 2012 for national and international certified neurologists. We offer two places a year.

See the program at: [http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en\\_fellowship.html](http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en_fellowship.html)

4) We are also committed in the training of epilepsy nurses and technicians for all the country. : [http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en\\_formacio-infermeria.html](http://www.parcdesalutmar.cat/epilepsia/formacio-avancada/en_formacio-infermeria.html)

5) Not regularly, we organize also an International Symposium of Epilepsy Surgery since 2010 (see attachment).

### **(B) HOSPITAL SAN JUAN DE DEU & HOSPITAL CLINIC**

- Annual Scientific Day on Rare and Complex Epilepsies (since 2015)

- EPIPED TRAINING COURSE ON TREATMENT STRATEGIES IN PAEDIATRIC EPILEPSIES (Lyon-Barcelona collaboration)

- Universitat de Barcelona, Child Neurology MASTER (2 years), including a monthly teaching course on rare and complex epilepsies (Pr Arzimanoglou)

- Avances en Neuropediatria/ Annual (including ½ day update on rare epilepsies and epilepsy treatments)

### **(C) VALENCIA**

Since 2007 (Epilepsy surgery course). Attached the program for 2017

## **ROMANIA**

### **(A) "Carol Davila" University of Medicine, Pediatric Neurology Clinic, Al Obregia Hospital, Bucharest, Romania**

1. EEG course - basic - national course - since 2002; recognized as counting for National EEG competence accreditation. For Pediatric Neurologists and for Adult Neurologists; 4 weeks/year (2002 - 2016); 3 week/year (since 2017 when Ioana Mindruta started an EEG course

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in her Department and we decided together to not repeat notions, but to have complementary courses)

2. Course - Epileptic syndromes - national course - since 2015 - 1/year - 1 week
3. Course - Treatment in epilepsy - national course - since 2015 - 1/year - 1 week

**(B) University Hospital Bucharest** - adult neurology clinic - EEG - 3 weeks course since 2017

**(C) Romanian Society of Pediatric Neurology** - Course on rare epilepsies of genetic origin - october 2017

**(D) Romanian Society Against Epilepsy** - Annual Summer School - every year.

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## UNITED KINGDOM

### Oxford University Hospitals NHS Foundation Trust

Annual Oxford Masterclass in Epileptology which tackles a complex area of epileptology over the course of one day

### Matthew's Friends Clinics for Ketogenic Dietary Therapies\_Lingfield

**KETOCOLLEGE** \_THE COURSE IS FOR DOCTORS, DIETITIANS, NURSES AND OTHER HEALTH PROFESSIONALS THAT WANT TO WORK WITH MEDICAL KETOGENIC THERAPIES.

### Great Ormond Street Hospital NHS Foundation Trust, London, UK

Title	Description	Frequency
Practical Neurology Study Days	Annual five-day course with one day dedicated to epilepsy	Annual Next scheduled 16th – 20th April 2018
Children's Epilepsy Surgery Service Masterclass	One-day masterclass on epilepsy surgery evaluation for referrers	Every 1-2 years
Children's Epilepsy Surgery Service sEEG Workshop	Two-day sEEG course for UK epilepsy surgery centres providing or hoping to provide sEEG	Annual First held 17 <sup>th</sup> and 18 <sup>th</sup> March 2017 Next scheduled 28-29 <sup>th</sup> June 2018
Practical Paediatric neuro-imaging course	One-day neuro-imaging course	Every 1-2 years Last held 1 Dec 2016
Otto Wolff symposium	Annual Neuroscience Symposium	Annual Last held 3 <sup>rd</sup> Nov 2017

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Epilepsy Research Retreat	Two-day annual research retreat for academic and clinical unit extended to collaborators	Annual
CESS Clinical Workshops	NHS England National Children's Epilepsy Surgery Service one-day workshops twice yearly rotating between NHSE CESS centres	Every 2 years
<i>Paediatric Clinical Neuropsychology. MSc/PG Diploma) in Applied Paediatric Neuropsychology.</i>	Several of the modules on this course address complex epilepsies, their MDT evaluations, surgical treatments, and neuropsychological diagnosis and prognosis.	Annual One year full time, or 2 years part time providing post-doctoral training and professional diploma for clinical psychologists, and M.Sc in applied clinical psychology.

- EEG in the First 2 years of Life (GOSH London, UK; endorsed by the ILAE)

**Queen Elizabeth University Hospital, Glasgow**

SPEN Education Days, SPEN Research Days.

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## **BELGIUM**

Flemish Epilepsy League: course on EEG (every 2 years) and epilepsy (every 2 years)  
Paul Boon, University Gent

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## **PORTUGAL**

- Portuguese National Epileptology Meeting - March 2018 (Portuguese League Against Epilepsy)
- Forum Bial – October/November (Bial, Portugal)
- Dialogues in Epilepsy– January, June and November (Eisae, Portugal)
- Epilepsy Academy - Abril 2018 (Tecnifar, Portugal)

### **Hospital Santo António / Centro Hospitalar do Porto e ICBAS-Universidade do Porto**

Since 2000 within our Epilepsy Unit and now Reference Centre we organize regularly **Bienal Epilepsy Courses**. They have always been entitled as Epilepsy Douro Course. Diverse aspects of Pharmacoresistance, complex epilepsies, abnormal cortical development, among other topics have been addressed. We are preparing the 10th Edition for the 2018 Course. You can find in attach the programs of the last three. The courses are always organized addressing a specific questions, with an international (most European) based faculty and also case discussions presented by national (Portuguese) groups. The attendants (between 50 to 55 persons) are neurologists in training, credited neurologists and psychiatrists, persons from other fields with work or in training in epileptology (neuropsychology, rehabilitation, nurses, technicians). The organization has a Scientific Board and a Local Committee. The course duration is of 2 days (the first 4 courses had 2 and a half days duration) with lectures and workshops. The Course is characterized by long discussions extended all the day. At the end a Course Evaluation quantify the quality of the Course.

Annual Courses of the Portuguese League Against Epilepsy and in some groups from the Portuguese Neuropaediatrics Society

### **CHUC - Centro Hospitalar e Universitário de COIMBRA**

A basic course on metabolic diseases (with /without seizures / epilepsy)

**Lisbon (Hospital de Santa Maria/CHLN)**

**N/A**

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## **GOTHENBURG, SWEDEN**

A national regular registrar courses for physicians (child and adult neurologists neurophysiologists) and epilepsy nurses (this is an university course that gives 7.5 ECTS-poäng)

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We also organize educational courses for parents. The registrar courses are comprehensive and include rare and complex epilepsies. Together with Ågrenska National Competence Centre For Rare Diseases we provide regular educational week-courses for children, teenagers and adults and their families and professionals (see attached example program from DS 2017) **Academic hospital in Uppsala**, Sweden, Lena Westas is organising national educational courses in neonatal seizures ([lena.westas@kbh.uu.se](mailto:lana.westas@kbh.uu.se)) and at our center Niklas Darin is organising national educational courses in neurometabolic diseases ([Niklas.darin@vregion.se](mailto:Niklas.darin@vregion.se))

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## ITALY

- Fondazione Mariani: <https://www.fondazione-mariani.org/it/>
  - POLICENTRICO LICE Maura Stella [maura.stella@ptsroma.it](mailto:maura.stella@ptsroma.it)
  - Update on Epileptology, Padua 9-10 February 2018
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## FIRENZE

2016: "The genetic epileptic encephalopathies", 8-10 September 2016, Florence  
2018: "Dravet Syndrome and other sodium channel related encephalopathies", 15-17 March 2018, Verona

## BOLOGNA

Since 2000, For Neurologists, Pediatric Neurologists, EEG Technicians, training neurologists

## PAVIA-FONDAZIONE MONDINO, PAVIA

We organize about annually a course/workshop directed to the neurologists of our Institution, neurologists from the Lombardy area and trainees. I attach the programme of an event on Dravet syndrome which took place about a year ago. We are in the process of organizing a Workshop on Aicardi syndrome for 2018 (programme not finalized yet)

## MILANO\_Carlo Besta\_ De Curtis

Since 2002: yearly residential San Servolo Epilepsy Course International School of Neurological Science in Venice

Since 2005: Journal Clubs twice a week for neurologists and neuroscientists (ECM approved).

Since 2010: Epilepsy Seminars (2 per months) for neurologists, neurobiologists, ECM approved.

Since 2010: discussion of epilepsy surgery cases for neurologists and neuropediatricians (ECM approved since 2014)

Since 2012 inter-Institute discussion of epilepsy surgery cases open to the Lombardy Region (ECM approved since 2019)

2018-2020: multi-national European Marie-Curie European Project EUGliaPhD

## ROME\_BAMBINO GESU

TAGLIACCOZZO COURSE on DRUG-RESISTANT EPILEPSIES

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## FINLAND

Kuopio Epilepsy Symposium

<http://www.uef.fi/fi/web/kuopioepilepsysymposium>

ILAE chapter meeting on 17<sup>th</sup>-18<sup>th</sup> of May 2018, program not available yet.

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## THE NETHERLANDS\_UTRECHT

- 1) Since at least five years, we participate in a yearly 1-day educational/information program about epilepsy surgery (alternating: one year adult surgery, the other year pediatric surgery). This day is organized by the Dutch epilepsy patient organization (EVN) in collaboration with the UMCU and other epilepsy centers in the country. The program is more or less fixed, and the course is always held at our center. In the morning there are 2 teaching courses on epilepsy surgery; one given most frequently by me, or by another epileptologist (topic: surgical indications and outcomes), the other by our epilepsy surgeon (topic: surgical techniques). After lunch there are different workshops for patients/parents in parallel (e.g. on hemispherotomy, cognitive/psychological aspects, logistics of the trajectory). The course is attended by on average 100 persons. I don't have a previous program available.
- 2) Floor Jansen is board member of SepiON, a Dutch organization that organizes three epilepsy courses for residents each year. The basic course is given twice a year and is obligatory for every Dutch resident in paediatrics. The advanced course, organized once a year, is meant for experienced neurology residents and epilepsy nurses. Program of the basic course: Classification of seizures and syndromes. Epilepsy syndromes in children. Differential diagnostics. EEG. Workshops (treatment, status epilepticus). Case presentations. The teachers of SepiON come from the different epilepsy centers in the country, including the UMCU.
- 3) We have been members of faculties of several international teaching courses but not on a regular basis (e.g. EPNS, EPODES, CBE-ILAE residential course).

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## POLAND\_Kliniki Neurologii i Epileptologii, Instytut "Pomnik -Warszawa

Since over 20 years. We organize annual courses for residents in neurology and pediatric neurology, which are obligatory for them. We organize also annual courses on advances in pediatric neurology, with emphasis on epilepsy, for pediatric neurologists.

Yes, for adult neurologists: Joanna Jędrzejczak, [kne@cmkp.edu.pl](mailto:kne@cmkp.edu.pl)

Are you aware of such educational activities organised **on an occasional basis** in 2018 ?

1. advances in epileptology: [www.postaes.viamedica.pl/1.2018/pl/O\\_konferencji\\_5.html](http://www.postaes.viamedica.pl/1.2018/pl/O_konferencji_5.html)

2. advances in Pediatric neurology: [www.postepy2018.skolamed.pl](http://www.postepy2018.skolamed.pl)

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## AUSTRIA\_SALZBURG

- EEG-Training Course since 2010 for physicians, nurses and technicians

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- Colloquium Neurologicum Salzburg (<http://colloquium-neurologicum.org/salzburg/>) was organized the third time Salzburg 2017
- London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures (<http://www.statusepilepticus.eu/>) since 2007

**organised by OTHER centres or institutions in your country?**

- Österreichische Gesellschaft für Neurologie (ÖGN) (<https://www.oegn.at/>) → Contact persons Prof. E. Trinka and Tanja Weinhart ([wt@studio12.co.at](mailto:wt@studio12.co.at))
- Österreichische Gesellschaft für Epileptologie (OGfE) (<http://www.ogfe.at/gesellschaft.htm>) → Contact persons Prof. E. Trinka and Tanja Weinhart ([wt@studio12.co.at](mailto:wt@studio12.co.at))
- SAMBA – Salzburg Mind-Brain Annual Meeting (organized by the Centre for Cognitive Neuroscience (CCNS) at the University of Salzburg)
- Ernst Niedermeyer Preis für Epileptologie (<http://www.ogfe.at/niedermeyer.htm>) → Contact persons Prof. E. Trinka and Tanja Weinhart ([wt@studio12.co.at](mailto:wt@studio12.co.at))

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## CZECH REPUBLIC

### Brno epilepsycenter, St Anne's University Hospital

- a) ILAE Comprehensive Epilepsy Surgery Course Series, EPODES since 2008, (neurologist, neurosurgeon, epileptologist)
- b) Day of the Czech League against epilepsy – International Seizure Conference, since 2005 (neurologist, neurosurgeon, epileptologist)
- c) The course of clinical epileptology, since 2005 (neurologist, epileptologist) in the year 2018 advanced
- 4th International Congress on Epilepsy, Brain & Mind, since 2010 (neurologist, neurosurgeon, epileptologist, neuropsychologist,...)