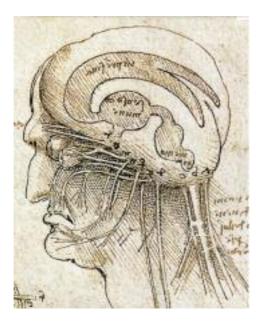






Advances in the Treatment of Focal Cortical Dysplasia



Florence, June 6th - 8th 2013 Children's Hospital A. Meyer University of Florence

Final Program

Under the auspicies of





Dear Colleagues,

since the first meeting on Dysplasia of the Cerebral Cortex and Epilepsy, held in Pisa in 1994, it has become obvious that focal cortical dysplasia is the main cause of intractable focal epilepsy both in children and in adults.

A relevant number of issues have been clarified concerning histopathological classification, imaging, epileptogenesis, and results of surgical treatment.

Despite this, for many patients only limited or no improvement can be obtained because either the eloquent cortex is involved, the dysplastic cortex is not visible on imaging or the clinical presentation is too complex and proper assessment impossible.

Recent advances in ultra high field imaging and electrophysiology might, however, help to overcome current limitations and allow a higher number of patients to be properly treated. A relevant amount of information has also been gathered concerning nonsurgical approaches to the treatment of epilepsy in FCD.

We felt that organizing a meeting with a focus on treatment issues would be timely and useful for stimulating cross links amongst experts who are approaching this topic from different perspectives.

Renzo Guerrini

Michael Duchowny



Chairpersons Michael Duchowny Renzo Guerrini

Scientific Board

Helen Cross Jean Gotman Prasanna Jayakar Philippe Kahane Laura Tassi

Local Organizing Committee

Carmen Barba Flavio Giordano Renzo Guerrini Federico Melani

List of Invited Speakers and Chairpersons

Véronique M. André Carmen Barba Fabrice Bartolomei Andrea Bernasconi Ingmar Blumcke Carlos Cepeda Francine Chassoux Mirco Cosottini Helen Cross **Olivier** Delalande **Bertrand Devaux** Michael Duchowny Stefano Francione Lorenzo Genitori Flavio Giordano Jean Gotman Renzo Guerrini Hans Holthausen Prasanna Jayakar Philippe Kahane Pavel Krsek Darcy A. Krueger Francesco Mari Federico Melani Ian Miller Imad Naim Tilman Polster Philippe Ryvlin Roberto Spreafico Hermann Stefan Laura Tassi Kristl Vonck

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Introduction 09:00	Introduction: Seizure-freedom in patients with FCD: the holy grail of treatment <i>Michael Duchowny, Renzo Guerrini</i>
Session I	Why is FCD treatment-resistant? Chairpersons: M. Duchowny, P. Kahane
09:15 - 09:45	Cellular histopathology of FCD - clues to epileptogenicity Ingmar Blumcke
09:45 - 10:15	Outcome in relation to histopathology Pavel Krsek
10:15 - 10:45	Intrinsic hyperexcitability of dysplastic tissue - are the features unique? <i>Philippe Kahane</i>
10:45 - 11:15	Dysplastic neural networks and the problem of localization <i>Michael Duchowny</i>
11:15 - 11:30	Coffee break
	Chairperson: I. Blümcke
11:30 - 12:00	FCD and Dual Pathologies - Double trouble? Laura Tassi
12:00 - 12:30	Co-localization of FCD and eloquent cortical regions: challenges, strategies and relationship to surgical failure <i>Prasanna Jayakar</i>
12:30 - 13:00	Life threatening FCD Federico Melani
13:00 - 13:30	Panel discussion Coordinator: P. Kahane Is epilepsy associated with FCD uniquely different from other etiologies? All Speakers of the morning session
13:30 - 14:30	Working Lunch
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Thursday, June 6th

Session II Medical Therapy of FCD Chairpersons: *C. Cepeda, H. Cross*14:30 - 15:00 Response of FCD to AED treatment in clinical trials *Tilman Polster*15:00 - 15:30 What do we know about synaptic responses in FCD? Any insight towards targeted AED treatment? *Veronique M. Andrè*15:30 - 16:00 Experimental AEDs: are potential agents for FCD on the horizon? *Carlos Cepeda*

16:00 - 16:15 Coffee break

Chairperson: T. Polster

- 16:15 16:45 Everolimus : a drug for FCD? Darcy A. Krueger
- 16:45 17:15 Alternative therapies for FCD (ketogenic diet) Helen Cross

17:15 - 17:45 Panel discussion

Coordinator: *H. Cross* Should we conduct comparative AED trials in FCD? Pros and Cons. *All Speakers of the afternoon session*

17:45 - 18:30 Evening session

Chairpersons: *H. Holthausen, L. Tassi* Two carefully prepared illustrative case studies of patients with FCD.

- Hans Holthausen
- Francesco Mari



Thursday, June 6th

Session III	Diagnostic modalities in FCD Chairpersons: F. Bartolomei, R. Guerrini
09:00 - 09:30	Scalp EEG: Unique features of FCD and diagnostic pitfalls <i>Renzo Guerrini</i>
09:30 - 10:10	Anatomic MR imaging and FCD: What have we learned so far? in vivo and ex-vivo ultra high field MRI studies <i>Mirco Cosottini, Roberto Spreafico</i>
10:10 - 10:40	HFOs and epileptogenic zone Jean Gotman
10:40 - 11:10	fMRI versus invasive cortical mapping Stefano Francione
11:10 - 11:30	Coffee break
	Chairpersons: S. Francione, J. Gotman
11:30 - 12:10	 Functional Imaging: Role in the pre-surgical evaluation Can FDG-PET reduce the need for invasive recordings? <i>Francine Chassoux</i> Neuroreceptor PET and SPECT <i>Philippe Ryvlin</i>
12:10 - 12:40	Invasive EEG recording: Why is surgical outcome still not equal to other etiologies? <i>Fabrice Bartolomei</i>
12:40 - 13:10	Panel discussionCoordinator: L. TassiWhat is the optimal work-up of FCD?All Speakers of the morning session

13:10 - 14:10 Working Lunch



Friday, June 7th

Session IV Novel techniques for evaluating FCD and improving outcome Chairperson: *R. Spreafico*

- 14:10 14:40 Imaging processing methods Andrea Bernasconi
- 14:40 15:10 EEG fMRI Jean Gotman
- 15:10 15:40 MEG and EEG Source Localization *Hermann Stefan*
- 15:40 16:00 Coffee break

Chairperson: A. Bernasconi

- 16:00 16:30 Digital Co-registration and Image Fusion *Ian Miller*
- 16:30 17:00 Multi-modal evaluation: Is it always required? *Carmen Barba*

17:00 - 17:30 Panel discussion

Coordinator: *M. Duchowny* Analysis of the level of evidence: pathways for the future *All Speakers of the afternoon session*

17:30 - 18:15 Evening session

Chairperson: H. Stefan

Two carefully prepared illustrative case studies of patients with FCD.

- Stefano Francione
- Herman Stefan



Friday, June 7th

Session V	Surgical perspective on FCD Chairpersons: B. Devaux, L. Genitori
09:00 - 09:30	What information should the surgeon receive from the medical team? <i>Bertrand Devaux</i>
09:30 - 10:00	Resection of dysplastic tissue: Less or more? <i>Olivier Delalande</i>
10:00 - 10:30	Surgical therapy for FCD in proximity to eloquent cortex <i>Imad Najm</i>
10:30 - 11:00	Minimizing postoperative complications after surgery for FCE <i>Flavio Giordano</i>
11:00 - 11:30	Brunch
11:30 - 12:30	Neurostimulation in FCD Kristl Vonck

12:30 - 13:00 Panel discussion Coordinator: *H. Stefan* Where do we go from here? *All Speakers of the morning session*

13:00 - 13:15 Conclusions Michael Duchowny - Renzo Guerrini



Saturday, June 8th

Workshop Venue

Aula Magna Children's Hospital A. Meyer – University of Florence Viale Gaetano Pieraccini, 24 50141 Firenze

Official language

The official language of the workshop is English. No simultaneous translation will be provided

CME - Provider PTS n° 1293 (for Italian delegates only)

All'evento sono stati assegnati 19 crediti per le seguenti discipline: Anatomia Patologica, Genetica Medica, Neurochirurgia, Neurologia, Neurofisiopatologia, Neuropsichiatria Infantile, Neuroradiologia e Pediatria.

Per l'ottenimento dei Crediti formativi si debbono osservare le seguenti norme: - ritirare e compilare (in ogni sua parte) la scheda che verrà consegnata dal personale all'ingresso (schede riconsegnate incomplete non verranno prese in considerazione) Tale scheda riporterà i dati anagrafici, il modulo di valutazione dell'evento e il questionario

- riconsegnare la scheda formativo

- garantire il 100% della propria presenza

Organizing Secretariat

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Registration fees - VAT included

From March 31st 2013

Standard Registrants € 250,00 Young Registrants (up to 35 years-old) € 210,00 One day Standard Registrants € 110,00 One day Young Registrants € 90,00

Registration fees include

o Admission to the scientific sessions

- o Certificate of attendance
- o CME credits for Italian attendees only

o Coffees and lunches as indicated in the programme



General Information

The Organizing Committee gratefully thanks the support of

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