



2nd Nordic Status Epilepticus Meeting

Bergen, 1-2 juni 2023

Hotel Norge by Scandic
Bergen
Norway

The meeting is financially supported by Desitin.

Program

Overarching theme: From bad to worse: Therapeutic and ethical challenges in super-refractory status epilepticus.

Bergen, 1-2.06.2022

Faculty:

Erik Taubøll (Head of committee, Norway), Johan Zelano (Sweden), Christoph P Beier (Denmark), Reetta Kälviäinen (Finland). From Norway: Kjell Heuser, Line Bédos Ulvin, Bernt Engelsen, Gyri Veiby, Kjersti Nesheim Power, Christian Samsonsens, Ketil Berg Olsen, Ellen Molteberg, Morten Horn

Day 1

Basic mechanisms of status epilepticus (SE) - from single seizures to refractory SE

Chair: Erik Taubøll, Oslo

- 10.00-10.05 Opening and welcome. *Erik Taubøll*
- 10.05-10.15 Epileptogenesis – definitions and basic principles. *Erik Taubøll*
- 10.15-10.55 Epileptogenesis and the role of inflammation. *Annamaria Vezzani*
- 10.55-11.20 Astrocyte-driven epileptogenesis and its role in development of refractory SE. *Kjell Heuser*
- 11.20-11.40 DNA methylation as a preventive treatment target of epileptogenesis. *Toni C Berger*
- 11.40-12.00 Discussion
- 12.00-13.00 **Lunch**

SE after anoxic brain damage

Chair: Christian Samsonsens, Trondheim

- 13.00-13.20 Postanoxic convulsions – a clinical challenge. SE or not SE, that's the question. *Kjersti Nesheim Power*
- 13.20-13.50 How useful is EEG in the early phase? *Erik Westhall*
- 13.50-14.10 What is the place for radiology in postanoxic SE? *Mona Kristiansen Beyer*
- 14.10-14.40 Postanoxic convulsions. To treat or not to treat – and with what? *Johan Zelano*
- 14.40-15.00 Discussion
- 15.00-15.30 **Break**



Program

Prognostication

Chair: Bernt Engelsen, Bergen

- 15.30-16.00 Prognostication of long-term mortality after SE.
Christoph P Beier
- 16.00-16.30 Differences in prognosis after anoxic SE – the insight from two cases.
Christian Samsonsen
- 16.30-16.55 Discussion. How should this information be handled in everyday practice?
Bernt Engelsen (panel leader), Christoph P Beier, Christian Samsonsen
Discussion with the audience.
- 16.55-17.00 Closing remarks, Day 1, *Erik Taubøll*
- 20.00 **Dinner**

Day 2

Challenges in SE treatment in complex epilepsy syndromes – case-based presentations

Chair: Ellen Molteberg, Oslo

- 08.30-09.30 POLG disease and status epilepticus. *Omar Hikmat and Gyri Veiby*
- 09.30-10.15 SE in mental retardation – what is different? *Morten Horn*
- 10.15-10.45 **Break/ coffee**
- 10.45-11.30 SE in progressive myoclonic epilepsy syndromes. *Reetta Kälviäinen*
- 11.30-12.30 **Lunch**

Chair: Morten Horn, Oslo

- 12.30-13.15 Case presentations.
- 12.30-12.45 FIRES syndrome in a child. Possible effect of anakinra.
Inger Sandvig
- 12.45-13.00 SE in a child with a new glutamate receptor mutation.
Marianne Ullestad Huun
- 13.00-13.15 SE in an adult successfully treated with hemispherectomy.
Kjell Heuser
- 13.15-14.15 Ethical roundtable discussion.
SE treatment – how long, how many alternatives, to what price?
Morten Horn (panel leader). Panel from organising committee and representatives from the Norwegian Epilepsy Foundation - the norwegian branch of IBE
- 14.15-14.30 Closing remarks. *Erik*



Faculty and speakers



Erik Taubøll

Professor of Neurology and Senior Consultant, Department of Neurology, Oslo University Hospital - Rikshospitalet, Oslo, Norway. Head of ERGO, Epilepsy Research Group of Oslo, in Department of Neurology. The group is active in both clinical, translational and basic epilepsy research, see: <https://www.ous-research.no/ergo/>



Johan Zelano

Section Head and assistant professor, Department of Neurological Care, Sahlgrenska university hospital, Gothenburg, Sweden. He has a special interest in epilepsy with emphasis on poststroke epilepsy, and biomarkers in neurology.



Christoph Patrick Beier

Professor of neurology and consultant for general neurology with specialist interest in epilepsy. Head of the epilepsy research group and affiliated to the Center for Innovative Medical Technology at the Odense University Hospital, Denmark. His research interest are prognostication and optimization of treatment of status epilepticus, pathophysiology of drug resistant idiopathic generalized epilepsies, and new approaches for optimized ambulatory patient care.



Erik Westhall

is senior consultant in clinical neurophysiology at Skane University Hospital and associate professor at Lund University, Sweden. His research area is electrophysiological measurements in critically ill patients suffering from acute brain injury, mainly focusing on neuroprognostication and assessment of electrographic seizures in comatose patients resuscitated after cardiac arrest.



Gyri Veiby

MD, PhD, is a senior consultant neurologist at Haukeland University Hospital in Bergen, working at the section for acute neurological diseases. Veiby has a special clinical interest in the treatment of refractory status epilepticus, and specifically in relation to POLG disease. Main scientific research is focused on different female aspects of epilepsy, and in particular the investigation of teratogenic effects of antiepileptic drugs based on large register-based studies.



Reetta Kälviäinen

is Full Professor and Chair of Neurology in the University of Eastern Finland and Director of the Kuopio Epilepsy Center in Kuopio University Hospital. Her special research interest is clinical epileptology including identifying biomarkers of seizure activity and drug-resistancy in cohorts of newly diagnosed and drug-resistant chronic patients. These aspects of scientific projects are combined with therapeutic neuropharmacological interventions. She serves in the executive committee of the European Reference Network for rare and complex epilepsies EpiCARE (of which Kuopio Epilepsy Center is a member) and in the management group of the Epilepsy Scientific Panel of the European Academy of Neurology. She is the chair of the board of the Neurocenter Finland and the Finnish Neurological Society.



Annamaria Vezzani

PhD in Neuropharmacology, Head of the Laboratory of Experimental Neurology, Department of Neuroscience at the Mario Negri Institute in Milano. Main research focus is on mechanisms of seizures and epileptogenesis for developing new treatments and biomarkers. Author of over 200 original papers, several book chapters and reviews in peer-reviewed high impact scientific journals. Past Chair of the Commission on Neurobiology of ILAE (2005-2009). Member of the Innovative Medicine Initiative (IMI) Scientific Committee (2018-2019). Member of the ILAE Commission on European Affairs (2013-2017). Serving in several editorial boards of scientific journals and American Epilepsy Society (AES) and ILAE committees. Recipient of the Research Recognition Award for translational research in 2009 by the AES.



Kjell Heuser

MD, PhD, is a Senior Consultant and Clinical epileptologist in Department of Neurology, Oslo University Hospital. He is Head of Translational Epilepsy Research Group which is part of ERGO (Epilepsy Research Group of Oslo), with a special interest in translational and clinical epilepsy research.



Bernt Engelsen

Professor of Neurology since 1989. Research background; neurotransmission research on glutamate in the 1980ies-90ies, and since 1994 head of the clinical epilepsy unit at Haukeland University Hospital. Research interests; clinical epileptology, POLG related epilepsy and Status epilepticus.

Faculty and speakers



Kjersti Nesheim Power

is a neurologist with a PhD in cognitive consequences of status epilepticus. She is a member of Bergen Epilepsy Research Group and works at Department of Neurology at Haukeland University Hospital.



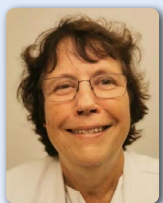
Christian Samsonsen

Head of department/neurologist at Department of Neurology and Clinical Neurophysiology, St Olav's hospital; Associate professor, INB, NTNU.
Special fields of interest: Clinical epileptology, seizureprecipitants.



Morten Horn

MD, PhD, is a consultant in neurology at Oslo University Hospital. He is a lecturer in medical ethics at the University of Oslo, and a member of the Medical Ethics Council for the Norwegian Medical Association.



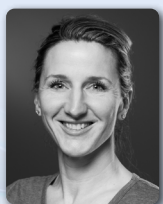
Inger Sandvig

is a medical doctor currently working at Oslo University Hospital as Senior Consultant, Department of Child Neurology. Her area of special interest is epilepsy and autoimmune neurological diseases.
She graduated from Copenhagen University in Denmark in 1980. Before taking on this position at Oslo University Hospital in 1997, she worked at various hospitals as a paediatrician. Sandvig has co-authored several publications, with topics ranging from the causes of febrile seizures to multiple sclerosis in children and adolescents.



Ellen Molteberg

MD, Neurologist and Head of the Adult Department at the National Center for Epilepsy in Norway. Special interest in non-medical treatment, i.e modified Atkins diet for adult patients.



Marianne Ullestad Huun

Consultant Pediatrician, PhD, Department of Child Neurology, Oslo University Hospital, Rikshospitalet, Norway.



Ketil Berg Olsen

Senior Consultant in Neurology and Clinical Neurophysiology, Østfold Hospital Trust and Oslo University Hospital, Rikshospitalet. Member of ERGO, Epilepsy Research Group of Oslo. Many years experience in epileptology/neurology/clinical neurophysiology, about 7 years experience in SEEG and IOM.



Line Bédos Ulvin

is a neurologist and clinical neurophysiologist working at Oslo University Hospital. Her field of interest is epilepsy and EEG, and she is involved in several research projects on status epilepticus.



Mona Kristiansen Beyer

Professor of Neuroradiology, Division of Radiology and Nuclear Medicine, Oslo University Hospital, Oslo, Norway. Research leader at the University of Oslo for Radiology and nuclear medicine. Main areas of research are within translational research in Parkinson's disease, Post stroke dementia, Multiple sclerosis and Lyme Neuroborreliosis.



Omar Hikmat

MD, PhD, is a senior consultant in paediatric neurology, working at the Paediatric Neurology section- Paediatric Department, Haukeland University Hospital, Bergen, and researcher at the Mitochondrial Medicine and Neuro-genetic research group, Clinical Institute 1, University of Bergen, Norway.
Hikmat has a special interest in paediatric neuro-metabolic, mitochondrial disorders and complex epilepsies with focus on POLG disease. He is responsible for the National Norwegian POLG registry and the multi-national POLG database.



Toni Berger

MD, PhD student, Department of Neurology, Oslo University Hospital - Rikshospitalet, Oslo, Norway. After working one year in the Department of Neurology, Østfold hospital trust, he joined ERGO (Epilepsy Research Group of Oslo in Department of Neurology, OUS-RH) in 2017. His PhD is financed by a Marie-Curie scholarship as part of the "EU Glia PhD" project - a European network for brain research.

For registration see NES website:
www.epilepsiselskapet.no

