



Preliminary program 2nd HVT Masterclass in Copenhagen 2021

	Thursday October 28, 2021
15:00-16:00	CURRENT STATUS OF HVT • HVET during COVID 3-4 contributions • Problems in HVT in multiple models • Addressing data privacy concerns • Patient experience
16:00-16:30	<i>Break</i>
16:30-17:30	WHAT IS IN THE PIPELINE? • HVT + • Beyond seizure monitoring • Long Term subcutaneous recordings • Diary and AI based tailoring of HVT appointment
17:30-18:00	DEBATE: Pro and cons of domestic drug withdrawal
18:00-19:00	HANDS ON • Colloidium free electrode application • Water tabs • How to set up HVT

Core team:

Mrs. Lorraine Sparkes (Project manager)

Mrs. Devi Amin

Dr. Franz Brunnhuber

Prof. M Richardson

Dr. Joel Winston

Venue: Scandic Copenhagen, Vester Soegade 6, 1601 Copenhagen V

Registration: [Please click here](#)

3rd International Congress On Mobile Devices And Seizure Detection In Epilepsy



October 28, 2021

Pre-congress workshop on home video-EEG monitoring (Chairs: Mark Richardson and Franz Brunnhuber).
See preliminary program in separate file.

October 29, 2021

08:00-08:10 Welcome (Sándor Beniczky & Philippe Ryvlin)

08:10-10:00 Automated seizure detection using non-invasive devices: Which device for which patient? (Chair: Frans Leijten)

- 08:10-08:40. Andreas Schulze-Bonhage (Germany): Limited yield of in-patient video-EEG monitoring to document ictal events
- 08:40-09:10. Anouk van Westrhenen (The Netherlands): What needs do parents/caregivers have, coping and how devices fit.
- 09:10-09:40. Anouk Uiterwijk (The Netherlands): Counseling on medical devices in epilepsy – an outpatient strategy.
- 09:40-10:00. Lauren Swinnen (Belgium): Accurate detection of typical absence seizures using a two-channel EEG wearable behind the ears

10:00-10:30 Coffee break in exhibition area

10:30-12:30 New devices: Is there a disruptor? (Chair: Philippe Ryvlin)

- 10:30-10:45. Philippe Ryvlin: Why do we need new devices
- 10:45-11:20. Chris Van Hoof (Belgium): The future of wearable technology.
- 11:20-11:55. Tomas Teijeiro Campo (Switzerland): Innovative seizure detection systems.
- 11:55-12:30. Troels Kjær (Denmark): Ultralongterm recordings with subcutaneous EEG: state of the art.

12:30-14:00 Poster session and lunch break in exhibition area

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14:00-15:15 Sponsored session (UNEEG)

Ultra Long-term EEG Monitoring - Real world clinical experience (Chair: Jonas Duun-Henriksen, Denmark)

- Prof Michel van Putten, Medisch Spectrum Twente (NL)
- Prof Richardson, Kings College Hospital (UK)
- Prof Troels W Kjaer, University Hospital Zealand (DK)

15:15-15:30 Coffee break in exhibition area

15:30-16:45 EEG devices / Panel session (Chair: Michael Sperling)

- 15:30-15:45. Matthias Dümpelmann (Germany): An Optimized EEG-Based Seizure Detection Algorithm for Long-term Low-Channel Recordings
- 15:45-16:00. Pedro Viana (United Kingdom): Template matching spike detection in ultra long-term subcutaneous EEG
- 16:00-16:15. Jonathan Dan (Belgium): Automatic electrode selection in wearable electroencephalography for tele-monitoring of people with epilepsy
- 16:15-16:30. Marleen Tjepkema (Netherlands): Predicting efficacy of neuromodulation in epilepsy
- 16:30-16:45. Manfred Hartmann (Austria): Two-channel seizure detection with deep learning.

16:45-17:15 Coffee break in exhibition area

17:15-18:15 Extending the spectrum of applications (Chair: Sándor Beniczky)

- 17:15-17:30. Sándor Beniczky (Denmark): Wearable EEG for absence seizure detection: prospective validation study.
- 17:30-17:45. Jukka Peltola (Finland): Clinical utility of a video/audio-based epilepsy monitoring system Nelli.
- 17:45-18:00. Jesper Jeppesen (Denmark): Seizure detection using subcutaneous ECG in home monitoring; a prospective, proof-of-concept study
- 18:00-18:15. Borbála Hunyadi (Belgium): The power of ECG in multimodal patient-specific seizure monitoring: Added value to an EEG-based detector using limited channels.

18:30-19:30 Future research and development: in the aftermath of the clinical practice guideline on seizure detection - Panel discussion

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October 30, 2021

08:00-10:15

Seizure prediction: are we there yet? (Chair: Maxime Baud)

- 08:00-08:15. Mark Cook (Australia): Why we need seizure prediction and what we can already accomplish – introduction to the session.
- 08:15- 08:50. Maxime Baud (Switzerland): Personalized seizure risk forecasting (IS)
- 08:50-09:25. Philippa Karoly (Australia): Multiday cycles in brain and heart (IS)
- 09:25-09:50. Benjamin Brinkmann (United States): Seizure Forecasting using long-short term memory deep learning with a wrist-worn device.
- 09:50-10:15 Nicholas Greg (United States) Circadian and infradian cycles of brain excitability and cardiac activity

10:15-10:45 Coffee break in exhibition area

10:45-12:45 Automated non-EEG devices and differential diagnosis (Chair: Christoph Baumgartner)

- 10:45-11:00. Christoph Baumgartner (Austria). State of the art of non-EEG devices – introduction to the session.
- 11:00-11:35. Roland D. Thijs (The Netherlands): Wearables in the differential diagnosis between epilepsy and syncope. (IS)
- 11:35-12:10. Saara Rissanen (Finland): Reproducibility of wearable surface electromyography for myoclonus evaluation in progressive myoclonus epilepsy type 1
- 12: 10-12:45. Ewan Nurse (Australia): Multiday cycles of cardiac and cortical excitability are co-modulated at daily, weekly and monthly time scales

12:45-14:00 Poster session and lunch break in exhibition area

14:00-15:15 Sponsored session (UCB)

Predicting seizures for the less severe patients – a dream or reality.

Pro & con, followed by a panel discussion.

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15:15-15:30 Coffee break in exhibition area

15:30-16:00 How to improve the next edition of this congress?

Open discussion (Chairs: Sándor Beniczky & Philippe Ryvlin)

**16:00-18:00 Telemedicine: are changes in practice caused by COVID-19 here to stay?
(Chair: Mark Richardson)**

- 16:00-16:40. Eric Anderson (USA): Secondary/tertiary care perspective: World class telemedicine for epilepsy in the post-Covid era.
- 16:40-17:20. Charles Lowe (UK): Primary care perspective: How has Covid changed care for long-term health conditions?
- 17:20-18:00. Michael Sperling (USA): Epilepsy apps: are they really changing the game?