

Deep Brain Stimulation in Movement Disorders

April 18 and 19, 2018
Kiel, Germany



Course Director

Prof. Günther Deuschl

Dr. Steffen Paschen

Faculty

Dr. Markus Hobert

Dr. Raluca Modreanu, Bad Segeberg

Dr. Laura Paschen

Accreditation

An application for accreditation has been submitted with Ärztekammer Schleswig-Holstein

Wednesday, April 18, 2018

Venue: Universitätsklinikum Schleswig-Holstein Campus Kiel

- 8:50 **Registration & introduction – Dr. S. Paschen, Prof. Deuschl**
Welcome to the course, ECMT introduction video
- 9:00 **DBS for Tremor – Prof. Deuschl**
Pathophysiology, classification, scoring, drug therapy, clinical results, patient selection
- 9:45 Discussion - All
- 10:00 **DBS for Parkinson's Disease – Prof. Deuschl**
Pathophysiology, clinical evaluation, indication, clinical results, predictors of outcome, which is best target: GPI or STN
- 10:45 Discussion - All
- 11:00 Coffee break
- 11:15 **DBS for Dystonia – Dr. S. Paschen**
Pathophysiology, clinical evaluation, pharmacotherapy, indication, clinical results, patient selection criteria
- 12:00 Discussion - All
- 12:15 **Video case presentations – Dr. S. Paschen, Prof. Deuschl**
Patient selection for DBS (Tremor, advanced Parkinson's disease, Dystonia)
- 12:45 Discussion - All
- 13:00 Lunch
- 14:00 **Introduction to the programming of DBS systems – Dr. S. Paschen**
Basic mechanisms electrical brain stimulation, physiological significance of different stimulation parameters, 'general philosophy' of DBS programming
- 14:30 Discussion - All
- 14:45 **Post-operative management in advanced Parkinson's disease – Dr. S. Paschen**
Adjustment of stimulation & medication, introduction to treatment algorithm, solutions for common post-operative problems
- 15:30 Discussion – All
- 15:45 Tea break
- 16:00 **Long-term treatment of Parkinson's disease patients – Dr. Modreanu, Bad Segeberg**
Common long-term problems in patients with DBS
- 16:45 Discussion – All
- 17:00 **Programming course – Dr. S. Paschen, Dr. M. Hobert**
Introduction to programmer, programming exercise using a phantom, programming exercise on a DBS patient
- 18:00 End of program day 1
- 20:00 Group dinner

Thursday, April 19, 2018

Venue: Universitätsklinikum Schleswig-Holstein Campus Kiel

9:00 **Course 'Levodopa-test in advanced PD': The MDS-UPDRS/Preoperative patient evaluation - Dr. Hobert**

9:45 Discussion – All

10:00 **Intra-operative neurological monitoring - Dr. L. Paschen**

10:45 Coffee break

Splitting the group into 2 parts

11:00 **Course 'Intra-operative neurological monitoring' - Dr. S. Paschen, Dr. Hobert**

Practical demonstration during DBS surgery in the operating theatre

Movement disorders ward round - Prof. Deuschl

Switching groups

Movement disorders ward round - Prof. Deuschl

Course 'Intra-operative neurological monitoring' - Dr. S. Paschen, Dr. Hobert

Practical demonstration during DBS surgery in the operating theatre

12:45 Lunch

13:15 **DBS and MRI - Dr. S. Paschen**

14:00 **DBS Special indications/future directions - Prof. Deuschl**

15:00 End of program