

Agenda

Wednesday, September 11, 2024

All times in Eastern Time

- 4:30 p.m. Registration / Exhibits
- 5:30 p.m. Welcome and Introductions
- 5:45 p.m. **Opening Keynote: Pediatric Epilepsy Surgery**
- 6:45 p.m. Adjourn
- 7:00 p.m. Welcome Reception

Thursday, September 12, 2024

All times in Eastern Time

- 7:30 a.m. Continental Breakfast / Exhibits

Session I: Epilepsy Surgery – Then and Now

- 8:00 a.m. Lessons Learned From More Than 100 Years of Epilepsy Surgery
- 8:40 a.m. SEEG in the Presurgical Evaluation of Epilepsy: 15 Years of Experience at Cleveland Clinic
- 9:20 a.m. Epilepsy Surgery Candidates and Role of Invasive Evaluation
- 10:00 a.m. **Break / Exhibits**

Session II: SEEG Indications and Results from Around the World

- 10:20 a.m. France
- 10:40 a.m. Italy
- 11:00 a.m. India
- 11:20 a.m. Australia
- 11:40 a.m. China
- 12:00 p.m. Mexico
- 12:20 p.m. **Lunch / Exhibits**

Session III: SEEG – The Method

- 1:20 p.m. Principles
- 2:00 p.m. Role of Semiology

2:40 p.m. Role of Multimodal Studies

3:20 p.m. **Break / Exhibits**

Session IV:

SEEG – From Preimplantation Planning to Surgical Resection

3:40 p.m. Principles of Implantation

4:20 p.m. Principles of SEEG Analysis

5:00 p.m. How to Use the SEEG Information for Surgical Planning

5:30 p.m. Keynote Presentation: Future Role of SEEG in Epilepsy Surgery

6:30 p.m. Adjourn

Friday, September 13, 2024

All times in Eastern Time

7:30 a.m. Continental Breakfast / Exhibits

Session V:

Pediatric Epilepsy Surgery

8:00 a.m. SEEG in the Pediatric Population

8:40 a.m. Pediatric Epilepsy Surgery in Eloquent Regions in the Brain

9:20 a.m. Is Surgery an Option in Some Epileptic Encephalopathies?

10:00 a.m. **Break / Exhibits**

Session VI:

Imaging

10:20 a.m. Current State of Imaging of the Epilepsies

10:50 a.m. Novel MR Sequences

11:20 a.m. Postprocessing Technologies

11:50 a.m. Imaging and Genetics of FCD

12:20 p.m. **Lunch Break**

Session VII:

Presurgical Evaluation and Management of Epileptic Pathologies – Part I

1:20 p.m. The ILAE classification for Focal Cortical Dysplasia

2:00 p.m. Focal Cortical Dysplasia Type 1

2:40 p.m. Focal Cortical Dysplasia Type 3

3:20 p.m. **Break / Exhibits**

Session VIII:**Presurgical Evaluation and Management of Suspected FCD Epileptic Pathologies – Part II**

- 3:40 p.m. FCD Type 2
- 4:20 p.m. mMCD and MOGHE
- 5:00 p.m. No FCD on Histopathology
- 5:30 p.m. Keynote Presentation: Principles of Brain Rhythms and Synchronization: Lessons for Epilepsy
- 6:30 p.m. Adjourn

Saturday, September 14, 2024*All times in Eastern Time*

- 7:30 a.m. Continental Breakfast / Exhibits

Session IX:**SEEG – Presurgical Evaluation and Management of Epileptic Pathologies – Congenital Tumors**

- 8:00 a.m. Epilepsy Considerations in the Management of LEATs
- 8:30 a.m. Neuroimaging of Congenital Tumors: What is Desired?
- 9:00 a.m. Pathological Classification
- 9:30 a.m. Proposal for a Layered Approach to the Management of Congenital Tumors in Epilepsy
- 10:00 a.m. **Break / Exhibits**

Session X:**Presurgical Evaluation and Management of Other Epileptic Pathologies**

- 10:20 a.m. Cavernomas
- 10:50 a.m. PMG
- 11:20 a.m. PVN
- 11:50 a.m. Temporal Encephalocele
- 12:20 p.m. **Break / Exhibits**

Session XI:**Special Surgical Considerations in the Management of FCDs and Tumors**

- 1:20 p.m. FCD1 –
- 1:40 p.m. FCD2 –
- 2:00 p.m. FCD3 –
- 2:20 p.m. MOGHE
- 2:40 p.m. Congenital Tumors
- 3:00 p.m. Ablative Surgeries: LITT and RFA

3:20 p.m. Break / Exhibits

Session XII:
Non-Resective Approaches to Epilepsy Surgery

3:40 p.m. Stimulation of the Cortex vs Pathways: The Lab Perspective

4:10 p.m. RNS

4:40 p.m. DBS

5:10 p.m. VNS

5:30 p.m. Adjourn

Sunday, September 15, 2024

All times in Eastern Time

7:30 a.m. Continental Breakfast / Exhibits

Session XIII:
Emerging Role of Novel Anti-seizure Medications and Genetics in Epilepsy Management

8:00 a.m. Current State of Knowledge in Epilepsy

8:20 a.m. Epigenetics in Epilepsy

8:40 a.m. Single Gene Methylation

9:00 a.m. Towards a More Personalized Treatment with Anti-seizure Medications

9:20 a.m. Are We Ready for Gene-based Therapies? Future Perspectives

9:40 a.m. Panel Discussion of New Anti-Seizure Medications and Gene Therapy

10:00 a.m. **Break / Exhibits**

Session XIV:
Signal Processing, Engineering and AI: Trends in Epilepsy

10:20 a.m. Non-Invasive Mapping of Connectivity in Epileptic Network

10:40 a.m. Normative Brain Mapping: Scalp EEG, MEG, and Intracranial EEG

11:00 a.m. 4-Dimensional Mapping of Epileptic Networks

11:20 a.m. AI in Detection and Analysis of intracranial EEG

11:40 a.m. Taxonomy of Seizure Dynamotypes and Modeling of Epileptic Seizures

12:00 p.m. Epileptiform Dynamics in SEEG: Neuroengineering, AI and the Renaissance in Epilepsy Surgery

12:20 p.m. **Lunch / Adjourn**