



**RESIDENTS
AND FELLOWS**

**Complimentary
Registration**

Epilepsy Surgery Dissection Workshop

September 12-14, 2024

**Cleveland Hilton Downtown and
Lutheran Hospital**

Cleveland, Ohio

www.ccfcmc.org/epilepsysurgery

OVERVIEW

Epilepsy surgery offers hope to patients afflicted with drug resistant seizures, and can lead to significant improvements in their quality of life, including seizure freedom. As many as one million patients are potential candidates for epilepsy surgery in the United States, and yet surgical volumes are not improving, implying that barriers continue to limit the adequate referral and surgical work-up of these patients. Moreover, with the majority of open surgical epilepsy procedures now focused to a smaller number of specialized centers, adequate training in the art of open techniques is becoming a lost skill.

The goal of the Cleveland Clinic Techniques in Epilepsy Surgery course is to provide a hands-on educational forum for seasoned epilepsy neurosurgeons to interact with young neurosurgeons in-training and junior neurosurgery faculty. Basic anatomy, historical themes, detailed epilepsy surgery techniques and representative case presentations will be reviewed in both the classroom and laboratory setting. Indications regarding open resection versus neuromodulation will be emphasized. The topics of robotic stereotactic surgery, laser ablation, vagal nerve stimulation, responsive neurostimulation, deep brain stimulation and focused ultrasound will also be reviewed, spanning the armamentarium of innovative techniques available to the aspiring epilepsy neurosurgeon of the modern era. The neurosurgical lab at Lutheran hospital will be utilized to demonstrate and offer hands-on practice of core epilepsy surgical techniques using cadaveric anatomical specimens. Additionally, strategies for developing an epilepsy surgery practice, and inherent challenges to successful epilepsy surgery, will be highlighted. Ultimately, this course is dedicated to training the next generation of emerging surgical leaders in epilepsy, in a collaborative and collegial environment, to improve care for epilepsy patients around the country.

WHO SHOULD ATTEND?

This educational activity is intended for neurosurgeons interested in epilepsy surgery.

LEARNING OBJECTIVES

After completing this educational activity, participants will be able to do the following:

- Describe the surgical anatomy of the temporal lobe and how the underlying pathology relates to the choice of surgical technique.
- Summarize the overall outcomes from surgeries for treating patients with epilepsy.
- Demonstrate the basic surgical techniques necessary to complete a functional disconnection of the epileptic cerebral hemisphere.
- Discuss the complexity of identifying ictal onsets in cortical regions outside the temporal lobe and identify specific techniques that allow safe surgical resection in eloquent cortex areas.
- Debate the rationale and show the appropriate techniques for placement of intracerebral electrodes to prove a hypothesis of seizure onset based on individual patient characteristics.
- Demonstrate the techniques of and rationale for vagus nerve stimulation, responsive neurostimulation, and deep brain stimulation therapies.

AGENDA and INVITED SPEAKERS

Thursday, September 12, 2024 | *Cleveland Hilton Hotel*

- 5:00 pm Registration
- 6:00 pm **Future Role of SEEG in Epilepsy Surgery** - Patrick Chauvel
(Conjoined with *Epilepsy Summit*)
- 7:00 pm **Dissection Workshop Welcome** - Demitre Serletis
- 7:15 pm **Technology Summit / Working Dinner**
Electrodes; Robotics; RF and Laser Ablative Technologies
- 8:30 pm Adjourn

Friday, September 13, 2024 | *Lutheran Hospital*

- 7:30 am Registration/Continental Breakfast/Exhibits
- 8:00 am **Temporal Lobe Surgical Anatomy** - Nitin Tandon
- 8:30 am **Hippocampal Function from Surgeon's Perspective** - Brad Lega
- 8:50 am **Cortico-amygdalo-hippocampectomy Operative Techniques** - Sumeet Vadera
- 9:15 am **Stereoencephalography Theory** - Juan Bulacio
- 9:50 am **Stereoencephalography Surgical Considerations** - Faculty
- 10:20 am Break
- 10:35 am **Insular Anatomy and SEEG Exploration** - Stephan Chabardes
- 11:15 am **Laser Ablation of the Mesial Temporal Lobe: Case Example** - Alex Whiting
- 11:45 am **Operating in Eloquent Cortex** - Demitre Serletis
- 12:10 pm **Group Photo and Lunch Break**
- 1:00 pm **Temporal Lobectomy** - Faculty
- 4:30 pm **Predicting Seizure Response To Neuromodulation Using Connectomic Profiling**
- George Ibrahim
- 5:15 pm Adjourn

Saturday, September 14, 2024 | *Lutheran Hospital*

- 7:30 am Continental Breakfast/Exhibits
- 8:00 am **Vagus Nerve Stimulation Therapy for Epilepsy** - Francesco Pucci
- 8:30 am **Responsive Neurostimulation for Epilepsy** - Patrick Karas
- 9:00 am **Deep Brain Stimulation for Epilepsy** - Richard Rammo
- 9:30 am **Hemispheric Surgery for Epilepsy** - William Bingaman
- 10:00 am **Special Lecture: Making A Difference** - James Rutka
- 11:30 am **Hemispherectomy Lab** - Faculty
- 1:00 pm Adjourn

CLEVELAND CLINIC COURSE DIRECTORS

William Bingaman, MD

Vice Chair
Director, Epilepsy Surgical Program
Shusterman Chair Epilepsy Surgery
Professor of Neurological Surgery
Lerner College of Medicine of Case Western
Reserve University

Richard Rammo, MD

Staff Neurosurgeon
Epilepsy Center
Center for Neurological Restoration

Demitre Serletis, MD, PhD

Cleveland Clinic Epilepsy Center & Department of Neurosurgery
Associate Professor of Neurological Surgery
Lerner College of Medicine of Case Western Reserve University
Joint Staff, Department of Biomedical Engineering,
Lerner Research Institute

CLEVELAND CLINIC FACULTY

Imad Najm, MD

Director, The Epilepsy Center
Vice Chair, Neurological Institute for Strategy
and Development
The Joe and Ellen Thomas Chair in Epilepsy

Juan Bulacio, MD

Patrick Chauvel, MD
Stephen Harasimchuk, R. EEG T.
Efstathios Kondylis, MD
Akshay Sharma, MD

GUEST FACULTY

Soha Alomar, MD

King Abdulaziz University
Jeddah, Saudi Arabia

Fawaz Alotaibi, MD

King Fahad Medical City
Riyadh, Saudi Arabia

Larry Bodden, MD

Kaiser Permanente Sacramento Medical Center
Sacramento, CA

Stephan Chabardes, MD

University of Grenoble
Grenoble, France

George Ibrahim, MD, PhD

The Hospital for Sick Children, University of Toronto
Toronto, Ontario, Canada

Patrick Karas, MD

The University of Texas Medical Branch Galveston, TX

Bradley Lega, MD

UT Southwestern Medical Center
Dallas, TX

Miguel Lopez-Gonzalez, MD

Loma Linda University
Loma Linda, CA

Andres Maldonado, MD

University of Illinois, College of Medicine Peoria
Peoria, IL

Robert McGovern, MD

The University of Minnesota
Minneapolis, MN

Amr Morsi, MD

Robert Wood Johnson Medical School at Rutgers
University Piscataway, NJ

Francesco Pucci, MD

University of Illinois Chicago
Chicago, IL

James Rutka, MD

University of Toronto
Toronto, Ontario

Nehaw Sarmey MD

University of Arizona Tucson
Tucson, AZ

Michael Sather, MD

Penn State Health
University Park, PA

Nitin Tandon, MD

UTHealth Houston
Houston, TX

Alexander Whiting, MD

Allegheny General Hospital
Pittsburgh, PA

Baltazar Zavala, MD

Barrow Neurological
Institute Phoenix, AZ

GENERAL INFORMATION

Location

Lectures and Labs

Cleveland Clinic Lutheran Hospital
1730 W. 25th Street, Cleveland, Ohio

Hotel Accommodations

Hotel reservations are separate from the course registration and are the responsibility of the participant. A block of rooms at the group rate of \$259 + tax has been reserved at:

Cleveland Hilton Downtown

100 Lakeside Ave, E, Cleveland, OH 44114
Telephone: **216-413-5000**

The cut-off date for the special rate is
August 14, 2024.

Information

For further information about this activity, contact Liz Eaton at:
Phone: **800.223.2273 x55431**
Email: **eatonl3@ccf.org**

FEES INCLUDE

Thursday dinner, Friday social event, syllabus, continental breakfasts, refreshment breaks, and lunches.

Health & Safety

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. Additional attendance requirements may be implemented to ensure attendee health and safety.

Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.

Registration and Cancellation

Registration deadline is September 4, 2024.
Must cancel by Aug 29, 2024. \$50 cancellation fee after Sept 4. **No refunds issued after Sept 4.**

For questions about registration, call **216.448.8710** or email **cmeregistration@ccf.org**

Category	Fees
Physician	\$1000
Resident*/Fellow	\$0

**Letter from program director is required to receive the discounted fee.
Cleveland Clinic employee fees and registration are available online only.*

For questions about registration, call **216.312.9101** or email **tobinm@@ccf.org**

Cleveland Clinic reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.