

## Overview and Learning Objectives

The program is an opportunity for a wide range of professionals to expand their knowledge and acquire and improve competencies for providing care to patients with epilepsy and related conditions. This course is an intensive 2.5-day course designed to introduce core clinical epilepsy and EEG, as well as cutting edge pre-surgical evaluation techniques for drug resistant (DRE) epilepsies. A didactic and interactive format includes workshops at the end of each day to encourage audience participation.

## Target Audience:

Neurologists, neurocritical care specialists, psychiatrists, neurosurgeons, internal medicine and family practice physicians, advance practice providers, technologists, and trainees in these disciplines.



**Alexandra Urban, MD, FAAN, FAES**

*Course Co-Director*

*Vice Chair for Clinical Affairs & Associate Professor, Department of Neurology  
Director, Epilepsy and Clinical Neurophysiology Fellowships*



**Anto Bagic, MD, PhD, FAES, FACNS**

*Course Co-Director*

*Professor of Neurology and Chief of Epilepsy Division  
Director, UPMC Epilepsy Monitoring Unit (EMU)  
Director, University of Pittsburgh Comprehensive Epilepsy Center (UPCEC)  
Director, UPMC MEG Epilepsy Program  
Chief Scientific Advisor, MEG Research  
Past President, American Clinical MEG Society (ACMEGS)  
Adjunct Professor, Department of Biomedical Engineering, Carnegie Mellon University (CMU)*



UPMC staff neurologists

## Procirca Center for Clinical Neurophysiology

Phone: **412-647-3450**  
[procirca.com](http://procirca.com)

A block of rooms is being held at the Hilton Garden Inn University Place for \$139 per night.

Please follow the link below to book your room.

<https://bit.ly/EEGcourse2022>

### Other area hotels include:

**Residence Inn by Marriott**  
412-621-5600

Approx. 0.4 miles  
from campus  
8 minute walk

**Wyndham Pittsburgh University Center**  
412-682-6200

Approx. 0.7 miles  
from campus  
10 minute walk

**UPMC**  
LIFE CHANGING MEDICINE

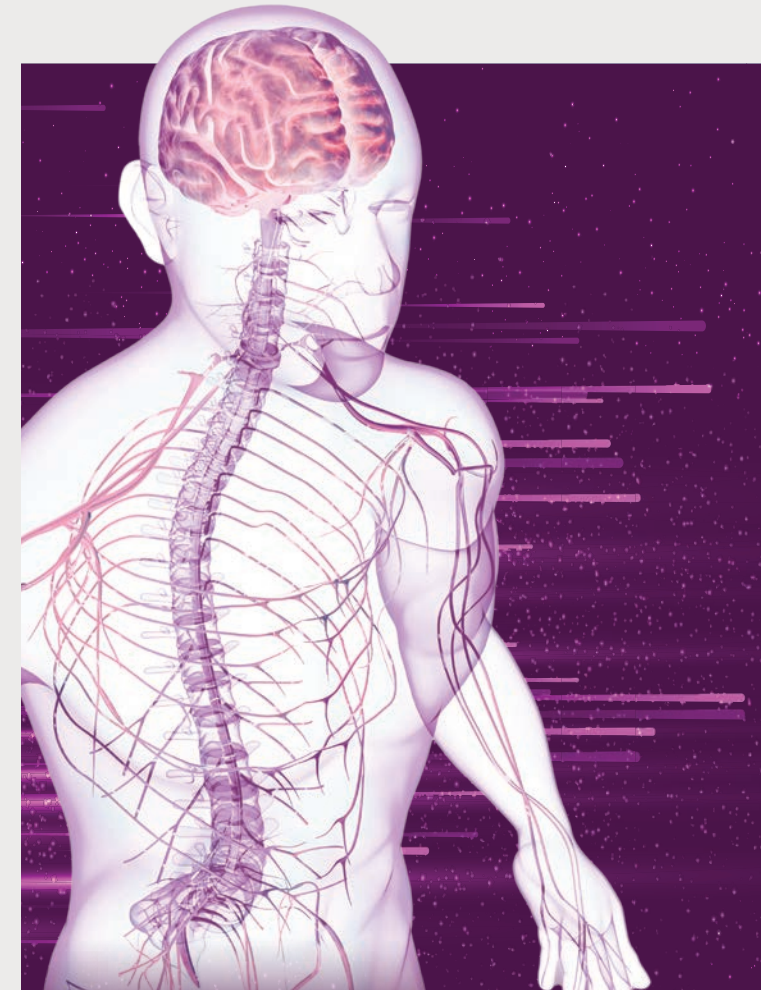


CPS525356 SR/JB 04/22



# EEG AND EPILEPSY IN CLINICAL PRACTICE

**JULY 8 - 10, 2022**



Register today at  
[procirca.com/intensive-eeeg-and-epilepsy-course/](http://procirca.com/intensive-eeeg-and-epilepsy-course/)

**UPMC**  
LIFE CHANGING MEDICINE

DAY 1 - FRIDAY, JULY 8		
7:00-7:50	Breakfast	
7:50-8:00	Introduction to EEG Course/ Announcement	Alexandra Urban, MD
8:00-8:45	Neurophysiology and Basis of EEG	Niravkumar Barot, MD, MPH
8:45-9:15	Review of International 10-20 System of Electrode Placement	Cheryl Plummer, BS, R. EEG T., NA-CLTM
9:15-10:00	Normal EEG	Anne VanCott, MD
10:00-10:15	Break	
10:15-11:15	Benign EEG variants vs Interictal epileptiform patterns	Maria Baldwin, MD
11:15-12:00	Common ictal Pattern	Niravkumar Barot, MD, MPH
12:00-13:00	Lunch	
13:00-13:45	Quantitative EEG Analysis	Mark Scheuer, MD
13:45-14:45	EEG findings in Pediatric Epilepsy	Luis Fernandez, MD
14:45-15:00	Break	
15:00-15:30	Brain death, post-anoxic EEG and prognostication	Jonathan Elmer, MD, MS
15:30-16:00	ACNS standardized ICU EEG nomenclatures	Joanna Fong, MD
16:00-17:00	<b>Workshop:</b> Interictal-ictal continuum/seizures/status epilepticus	PANEL Moderator: Joanna Fong, MD/A. Urban, MD
17:00	Adjournment Day 1	
17:00-19:00	Meet and greet – Hilton Garden Inn	

DAY 2 - SATURDAY, JULY 9		
7:00-7:50	Breakfast	
7:50-8:00	Welcome remarks/ Day 2 introduction	Anto Bagic, MD, PhD
8:00-8:45	Introduction to Epilepsy, Classification of Seizures and Epilepsies	Anto Bagic, MD, PhD
8:45-9:45	Semiology, Lateralizing and Localizing Signs of Seizures	Alexandra Urban, MD
0945-10:15	Break	
1015-11:00	Introduction to management of Epilepsy and ASM updates	James Castellano, MD, PhD
11:00-12:00	Pregnancy considerations in WWE	Page Pennell, MD
12:00-13:00	Lunch	
13:15-14:00	Treatment of Status Epilepticus	Lori Shutter, MD
14:00-14:45	Pediatric syndromes	Louis Fernandez, MD
14:45-15:00	Break	
15:00-16:00	Mimickers of epilepsy and Functional neurological disorder	Anto Bagic, MD, PhD
16:00-17:00	<b>Workshop:</b> Epilepsy treatment in diverse populations	PANEL Moderator: A. Bagic, MD, PhD/A. Urban, MD
17:00	Adjournment Day 2	

DAY 3 - SUNDAY, JULY 10		
7:00-7:50	Breakfast	
7:50-8:00	Welcome remarks/ Day 3 introduction	Alexandra Urban, MD
8:00-8:30	Introducing the concept of drug resistant epilepsy (DRE)	Anto Bagic, MD, PhD
8:30-9:15	Pre-Surgical Evaluation, defining epileptogenic zone	Thandar Aung, MD
9:15-10:30	Neuroimaging in Epilepsy Surgery evaluation	James Castellano, MD, PhD
10:30-10:45	Break- snacks	
10:45- 11:00	Neurostimulation Part I - VNS	Anto Bagic, MD, PhD
11:00 – 11:30	Neurostimulation part II – RNS & DBS	Alexandra Urban, MD
11:30-12:00	Longitudinal epilepsy surgical outcomes	Niravkumar Barot, MD
12:00 – 13:00	<b>Workshop:</b> Case based approach to DRE	PANEL: Moderators- Niravkumar Barot MD / James Castellano, MD, PhD / Alexandra Urban, MD
13:00	Course Adjournment	

**Please note: the 2022 course offers both an in-person and virtual option for participation.**

## CME Accreditation and Designation

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 19.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Nursing (CNE)

The maximum number of hours awarded for this Continuing Nursing Education activity is 19.75 contact hours.

### Physician Assistant (AAPA)

The University of Pittsburgh has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 19.75 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

## Other Healthcare Professionals

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

### ASET CEUs

ASET – The Neurodiagnostic Society has granted 19.5 Continuing Education Units [ASET-CEUs] for this program. Such crediting, however, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in these presentations.

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling 412-647-3450.

This program is presented by Procirca in conjunction with the University of Pittsburgh Department of Neurology and The Center for Clinical Neurophysiology.

## Tuition

\$350 for physicians (CME credits)

\$200 for non-physicians (CEU credits)

This course is offered as a hybrid model, with Online (Zoom) and In-person options available. Tuition is the same for both.

All course lectures will be recorded and made available for all attendees via Google Drive for one year after the course.

## Questions?

**Contact Josh Sunderlin**

*Course Coordinator*

*Ctr for Clinical Neurophysiology*

*Phone: 412-647-3450*

*Email: sunderlinj@procirca.com*

## Cancellation Policy

- Registration fee is 100% refundable up until June 8, 2022.
- Registration fee is 50% refundable up to 15 days prior to the start date of the course.
- If you cancel within 15 days of the start of the course, NO REFUNDS will be granted.