

## UC EPILEPSY CENTER UC GARDNER NEUROSCIENCE INSTITUTE

The UC Epilepsy Center at the University of Cincinnati Gardner Neuroscience Institute provides patients with the most comprehensive advanced care possible to help eliminate or reduce seizures. As Greater Cincinnati's only adult Level IV epilepsy center, our world-renowned epileptologists are leading the way in the diagnosis, evaluation, and medical and surgical treatment of patients whose epilepsy is complex to diagnose and treat.

### DIAGNOSIS AND TREATMENT

#### Epilepsy Monitoring Unit

Our epilepsy monitoring units, or EMUs, at UC Medical Center and UC Health's West Chester Hospital provide 24-hour recordings of a patient's brain activity, which help pinpoint the source of the seizures and guide proper treatment.

A stay in the EMU can help:

- Identify whether the attacks the patient is experiencing are from epilepsy or another cause.
- Clarify the specific type of seizure to guide medication choice.
- Determine if a patient is a candidate for surgical resection of the seizure focus or implantation of an advanced device to stop the seizures, such as a responsive neurostimulator, deep brain stimulation or vagus nerve stimulation.
- Precisely determine seizure frequency or detect subclinical or subtle seizures.

It is important to recognize that EMU evaluations are not just used to determine if a patient is a candidate for surgery. Many patients can experience dramatic improvements in seizure control when we identify the exact type and cause of their seizures through an EMU evaluation.

For urgent evaluation needs, direct scheduling into our EMUs is available. Call our EMU navigator at **513-584-5254** or EMU scheduler at **513-584-4406** to expedite your patient's evaluation.

#### New Onset Seizure Clinic

Our new onset seizure clinic provides patients who have experienced a recent seizure or seizure-like episode with quick access to the most accurate diagnostic techniques and advanced care available—within a few weeks of the referral.

#### Epilepsy Conference

Our epilepsy conference is a weekly meeting where our multidisciplinary team of epilepsy specialists review each complex patient, combine expertise and determine an optimal treatment plan for every patient.

#### Advanced Diagnostics

Our specialists use a variety of tools to help pinpoint seizures and determine proper treatment, including:

- Electroencephalogram (EEG) and video/EEG monitoring.
- Magnetic resonance imaging (MRI) and functional MRI.
- Positron emission tomography (PET).
- Ictal single-photon emission computed tomography (SPECT).
- Magnetoencephalography
- Intracranial seizure recording and brain mapping with electrode grids, strips or stereo-EEG.
- Neuropsychological testing.

## TREATMENT OPTIONS

### Medication Therapy

- Conventional medicine with medication choice and combinations personalized according to the comprehensive evaluation.
- Clinical trials of investigational anti-epileptic drugs.

### Epilepsy Surgery

- Removal of seizure focus, which is curative in up to 80% of qualifying candidates.
- Seizure focus inactivation using minimally invasive laser ablation.

### Devices to Treat Seizures

- Responsive neurostimulation.
- Deep brain stimulation.
- Vagus nerve stimulation.

## PHYSICIAN RESOURCES

### Cincinnati ECHO Epilepsy/Neurology Teleconferences

Each month, our team facilitates Cincinnati ECHO epilepsy/neurology teleconferences, which are free, webinar-based mentoring sessions to help physicians, nurses and other healthcare professionals in the many critical aspects of accessing and providing neurological care to patients.

Scheduled from noon to 1 p.m., the first Thursday of every month, these sessions include presentations of evidence-based clinical practices focused on the care of patients with epilepsy or other neurological conditions, as well as time for questions and collaboration.

To register for an upcoming session, visit [cincinnatiecho.com/echo-neurology](https://cincinnatiecho.com/echo-neurology).

## RESEARCH AND CLINICAL TRIALS

The UC Epilepsy Center advances treatments that offer the best outcomes for patients, including:

- International leaders in anti-epileptic drug development and comparisons, and the design of drug testing trials.
- Participating in studies that have brought 14 new treatments to market.
- Testing new treatments for status epilepticus, the most dangerous type of seizure.
- Studying the relationship between stress and seizures.
- Identifying which epilepsy medications are safest to use during pregnancy.
- Demonstrating how cannabidiol reduced seizures in young adults—findings the FDA used in approving this treatment.

## CONTACT US

We are your partner in care for patients whose epilepsy is complex to diagnose and treat. Our expert epileptologists are available to see patients at our facilities in Clifton, West Chester, Florence and Dayton.

To refer a patient to the UC Epilepsy Center, call **513-475-8730** or fax **513-584-5188**. If an urgent referral or physician consult is needed, call **513-475-UCMD (8263)** or fax **513-584-1428**.