

IU Health Movement Disorders Program

Highly skilled team of experts ready to provide personal care and relief

At IU Health, our team of neuroradiologists, neuropsychologists, epileptologists, neurologists and neurosurgeons work together to care for your patients with innovative treatments, expert care and advanced technologies. Dedicated to helping patients enjoy life more fully, our specialists provide the highest level of neurosurgical care and radiosurgery for pain, epilepsy and movement disorders. Our unique partnership with Indiana University School of Medicine brings the latest research and access to clinical trials. As one of the most comprehensive academic healthcare systems in the Midwest, we offer advanced diagnostic testing, the latest treatments, and education and support services.

Functional disorders we treat

Our highly skilled specialists treat a range of functional disorders. Through collaboration and in-depth evaluations, we deliver comprehensive care to our patients.

- Altered sensory disturbances
- Ataxia
- Blepharospasm
- Chorea
- Dissociative seizures
- Dystonia
- Epilepsy
- Essential tremor
- Gait disorders
- Headaches
- Huntington's disease
- Limb weakness
- Obsessive-compulsive disorder
- Parkinson's disease
- Torticollis
- Tourette's syndrome

The IU Health Neuroscience Center is the only Level IV Epilepsy Center in the state of Indiana, the highest possible designation awarded by the National Association of Epilepsy Centers. We are also designated as a Center for Care by the National Parkinson Foundation and Center of Excellence by the Huntington's Disease Society of America.

Variety of technologies used in our presurgical evaluation

Our highly skilled teams use the latest technology to conduct a presurgical evaluation to deliver the best possible care.

A variety of technology may be used during the evaluation to determine the best treatment.

- 3T magnetic resonance imaging (MRI) scans
- Computed tomography (CT) scans
- Magnetoencephalography (MEG)
- Positron emission tomography (PET)

After an in-depth review of each test, our team collaborates and determines the right treatment plan for each patient.

Epilepsy and seizures

Diagnosis:

If your patient experiences a seizure and is referred to our program, a neurologist may recommend:

- Electroencephalography (EEG)
- Continuous in-patient EEG monitoring

Additional diagnostic services include:

- Functional MRI scans
- Intracranial EEG with grid and strip electrodes
- MRI scans
- Neuropsychological testing
- PET scans
- Psychiatric evaluation and management
- Stereoelectroencephalography (SEEG)

Treatment options

IU Health Neuroscience Center offers advanced diagnostic testing with the latest medical and surgical treatment options. After evaluating each patient's unique situation, our team will collaborate to determine the best treatment path using leading-edge technology. If you cannot control your patient's seizures with medication, our neurologists may recommend surgery as a safe and effective treatment method.

- Anterior temporal lobectomy (ATL)
- Craniotomy for resection of epileptogenic focus
- Deep brain stimulation (DBS)
- Focused ultrasound (FUS)
- Gamma Knife stereotactic radiosurgery
- Laser interstitial thermal therapy (LITT)
- Lobotomy
- Multiple subpial transection
- Pallidotomy
- Radiofrequency thalamotomy
- Responsive neurostimulation (RNS)
- Vagal nerve stimulation (VNS)



Indiana University Health

Specialized neurorehabilitation program overview

We offer adults a multi-disciplinary approach to care and advanced technologies not found anywhere else in the state. Our physical therapists, occupational therapists and speech therapists specialize in neurological recovery while working closely with specialists at IU Health Neuroscience Center. From evaluation to treatment, your patients will receive the highest quality of care with a plan designed to help them reach their greatest potential as they recover and regain function.

Services include:

To provide the most comprehensive care to each patient, our specialized neurorehabilitation program is available while recovering to ensure you reach your goals. A variety of service options include:

- Augmentative assistive communication
- Balance and vestibular
- Motion analysis
- Occupational therapy
- Orthotics
- Physical therapy
- Robotic-assisted therapies
- Speech therapy

Support services

IU Health is dedicated to supporting our patients and their families through all levels of care. Movement disorders have a profound impact on daily function and quality of life, which is why our neuropsychologists provide treatment for associated anxiety, depression or mood disorders.

Neurosurgeons



Kunal Gupta, MD, PhD

Specialty: Neurosurgery

Conditions and treatments: Epilepsy, movement disorders and facial pain

Location: IU Health Neuroscience Center



Thomas C. Witt, MD

Specialty: Neurosurgery

Conditions and treatments: Movement disorder surgery, epilepsy surgery, trigeminal neuralgia, primary & metastatic brain tumors, stereotactic neurosurgery and radiosurgery

Location: IU Health Neuroscience Center



Rachael A. Aust, NP

Specialty: Neurosurgery

Patients will receive expert care from additional team members of neuroradiologists, neurologists and neuro-oncologists.

Refer a patient

If looking to make a referral, call **317.963.1300** and ask to be connected with the IU Health Neuromodulation Program.

For direct referrals to the movement disorders surgical program (DBS for Parkinson's disease, essential tremor, dystonia), please call **317.963.2793**.

If looking to connect to a functional neurosurgeon, call **317.963.8183**.

Locations

IU Health Neuroscience Center

362 W. 15th St. | Indianapolis, IN 46202

IU Health Methodist Hospital

1701 N. Senate Blvd. | Indianapolis, IN 46202

iuhealth.org/find-medical-services/movement-disorders

The neurosurgery team at IU Health is here to be a trusted resource for you and your patients. If you have a patient who needs neurosurgical care, or for any questions about IU Health Neurosurgery, you and your team can reach us by directly calling our physician liaison team member, Amy Miller Wozniak, at **463.224.4133** (cell) or email awozniak@iuhealth.org.



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