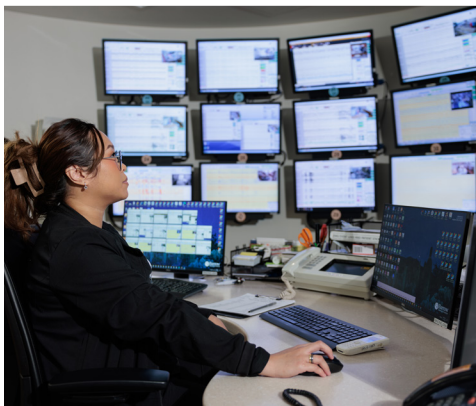


Epilepsy Center

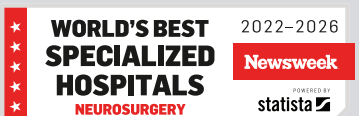
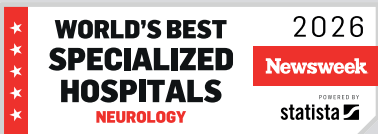


Barrow Neurological Institute Epilepsy Center | 240 W. Thomas Rd., Suite 400 | Phoenix, AZ 85013



For More Information

BarrowNeuro.org/Epilepsy



About the Barrow Epilepsy Center

At the Barrow Epilepsy Center, we understand the fear and uncertainty that can come with the unpredictability of seizures. To help you better understand and manage your seizures, we combine a comprehensive team of specialists with state-of-the-art diagnostics and treatments—all on one campus. Every patient at the Barrow Epilepsy Center can expect an individually tailored treatment plan, whether it consists of epilepsy medication, surgical procedures, or a combination of both.

The Barrow Difference

The Barrow Epilepsy Center is an internationally recognized leader in the diagnosis and treatment of epilepsy. In fact, our Center has received accreditation as a Level 4 Comprehensive Epilepsy Center from the National Association of Epilepsy Centers. This designation recognizes epilepsy centers with the professional expertise and facilities necessary to provide the highest level of medical and surgical evaluation, as well as treatment, for patients with complex epilepsy.

Magnetoencephalography (MEG)

MEG uses advanced superconducting technology to measure tiny magnetic fields in your brain. Unlike EEG, the magnetic fields detected with MEG are not disrupted by the skull, allowing us to locate signals that EEG may miss. We use MEG to help identify surgical candidates and guide surgical approaches for people with epilepsy. The MEG system at Barrow is the only device of its kind in Arizona.

Epilepsy Monitoring Unit (EMU)

The Barrow Epilepsy Monitoring Unit (EMU) has 12 beds wired for continuous video-EEG, which allows for continual monitoring of patients' brain wave activity. It's our goal that admission to the EMU is an educational experience, allowing you to learn more about your seizures, epilepsy in general, and possible treatments that can alleviate or eliminate your seizures.

Epilepsy Surgery Program

Some patients may be candidates for epilepsy surgery, which can significantly improve quality of life and reduce or even eliminate seizures. Our team at Barrow performs more than 140 epilepsy surgeries each year. These include intracranial EEG procedures, the placement of all available neuromodulation devices—VNS, DBS, and RNS—as well as laser-based approaches, minimally invasive resections, and robotic epilepsy surgery.

Tests, Treatments, and Procedures Offered

- Continuous EEG (cEEG)
- Deep Brain Stimulation (DBS) Surgery
- Electroencephalography (EEG)
- Epilepsy Surgery
- Evoked Potentials (EPs)
- High-Density EEG (HD EEG)
- Intraoperative Monitoring (IOM)
- Magnetocephalography (MEG)
- Responsive Neurostimulation (RNS)
- Stereoelectroencephalography (SEEG)
- Stereotactic Laser Ablation
- Vagus Nerve Stimulation (VNS)

Meet Our Team



Vladimir Shvarts, MD, FACNS

Vladimir Shvarts, MD, FACNS, is a board-certified neurologist and epileptologist. He serves as director of the Epilepsy Center, the clinical neurophysiology and epilepsy fellowships, and the Intraoperative Monitoring

Program at Barrow. Dr. Shvarts earned his medical degree from Rosalind Franklin University of Medicine and Science in North Chicago, Illinois. He completed his neurology residency and a fellowship in epilepsy and magnetoencephalography (MEG) at Henry Ford Hospital in Detroit, Michigan. Dr. Shvarts also completed a fellowship in clinical neurophysiology and intraoperative monitoring at the University of California-Los Angeles.



Valerie Chen, MPAS, PA-C

Valerie Chen, MPAS, PA-C, is a board-certified physician assistant. She earned her Master of Physician Assistant Studies from Northern Arizona University's Phoenix Biomedical Campus and a bachelor's degree in

biochemistry from Arizona State University in Tempe.



Kevin Choi, MD

Kevin Choi, MD, is a board-certified neurologist and epileptologist. He earned his medical degree from the University of Illinois College of Medicine in Chicago. He completed his neurology residency at Barrow Neurological

Institute, where he also completed fellowships in clinical neurophysiology and epilepsy fellowships.



Erin N. Collins, MMS, PA-C

Erin N. Collins, MMS, PA-C, is a board-certified physician assistant. She earned her Master of Medical Science in Physician Assistant Studies from Midwestern University in Glendale, Arizona and a bachelor's degree in life sciences

from Arizona State University West Valley Campus, also located in Glendale.



Anna Costina, MHA, R EEG T

Anna Costina, MHA, R EEG T, is the manager of electroneurodiagnostics at Barrow. She holds EEG technologist credentials from the American Board of Registration of Electroencephalographic and Evoked Potential

Technologists (ABRET). Ms. Costina earned both a Master of Healthcare Administration and a bachelor's degree in health sciences from Purdue University Global.



Daniel Fayard, MD

Daniel Fayard, MD, is a board-certified neurologist and epileptologist. He earned his medical degree from Loma Linda University in California, where he also participated in a biomedical science post-bachelor program.

Dr. Fayard completed his neurology residency at Barrow Neurological Institute, where he also completed fellowships in clinical neurophysiology and epilepsy.



Stephen T. Foldes, PhD

Stephen T. Foldes, PhD, is a nonphysician clinical neurophysiologist at Barrow. He who oversees the engineering aspects of magnetoencephalography (MEG), high-density EEG (HD-EEG), and presurgical planning for

epilepsy. Dr. Foldes earned both his doctorate and master's degrees in biomedical engineering from Case Western Reserve University in Cleveland, Ohio. He completed a postdoctoral fellowship in physical medicine and rehabilitation at the University of Pittsburgh in Philadelphia.



Deana M. Gazzola, MD

Deana M. Gazzola, MD, is a board-certified neurologist and epileptologist. She serves as director of the Epilepsy Monitoring Unit at Barrow. Dr. Gazzola earned her medical degree from the University of Pennsylvania in

Philadelphia. She completed both her neurology residency and a clinical neurophysiology fellowship at the Hospital of the University of Pennsylvania. Dr. Gazzola also completed a research neurophysiology fellowship at New York University School of Medicine in New York City.

Meet the Team *(continued)*



David P. Harris, MD

David P. Harris, MD, is a board-certified neurologist and epileptologist. He earned his medical degree from Florida State University in Tallahassee, in addition to a Master of Science in Clinical Research Design and

Statistical Analysis from the University of Michigan in Ann Arbor. He completed his neurology residency at Thomas Jefferson University Hospitals in Pennsylvania, followed by clinical neurophysiology and epilepsy fellowships at Columbia University Medical Center in New York City, New York.



Susan T. Herman, MD

Susan T. Herman, MD, is a board-certified neurologist and epileptologist. She serves as Vice Chair of Clinical Affairs for the Department of Neurology at Barrow. Dr. Herman earned her medical degree from

Columbia University Vagelos College of Physicians and Surgeons in New York City, New York. She completed her neurology residency and a fellowship in epilepsy, clinical neurophysiology, and neuroepidemiology at the Neurological Institute of New York at Columbia-Presbyterian Medical Center.



Laura Lehnhoff, MD

Laura Lehnhoff, MD, is a board-certified neurologist and epileptologist. She earned her medical degree from the University of Colorado School of Medicine in Aurora. She completed her neurology residency at

Barrow Neurological Institute, where she also completed fellowships in clinical neurophysiology and epilepsy.



Courtney Schusse, MD, FAHS

Courtney Schusse, MD, FAHS, is a board-certified neurologist and epileptologist. She serves as Vice Chair of Education in the Department of Neurology at Barrow. Dr. Schusse earned her medical degree from

Michigan State University College of Human Medicine in East Lansing. She completed her neurology residency at Barrow Neurological Institute, where she also completed fellowships in clinical neurophysiology and epilepsy.



William Schultz, PhD

William Schultz, PhD, is a neuropsychologist with expertise in the assessment of patients with epilepsy. He earned his doctorate in clinical psychology from Fuller Theological Seminary in Pasadena, California. He

completed his internship at the West Los Angeles VA

Medical Center in California and his fellowship in clinical neuropsychology at Barrow Neurological Institute.



Kris A. Smith, MD

Kris A. Smith, MD, is a board-certified neurosurgeon whose expertise includes the surgical treatment of medically refractory epilepsy. Dr. Smith earned his medical degree from the University of Nevada-

Reno School of Medicine. He completed his neurosurgery residency at Barrow Neurological Institute and an enrolled fellowship in epilepsy surgery at the Cleveland Clinic in Ohio. He also trained in Gamma Knife radiosurgery at the University of Pittsburgh in Philadelphia and at Karolinska Institute in Stockholm, Sweden, where stereotactic radiosurgery was originally developed.



Ritika Suri, MD

Ritika Suri, MD, is a board-certified neurologist and epileptologist. She earned her medical degree from the Maharashtra Institute of Medical Education and Research in Pune, India. She completed

her neurology residency at Henry Ford Hospital in Detroit, Michigan, followed by a fellowship in epilepsy and clinical neurophysiology at Vanderbilt University Medical Center in Nashville, Tennessee.



Maximilian Vuong, MPAS, PA-C

Maximilian Vuong, MPAS, PA-C, is a board-certified physician assistant. He earned his Master of Physician Assistant Studies from Northern Arizona University Phoenix Bioscience Core and a bachelor's degree

in biology with an emphasis in neurobiology, physiology, and behavior from the University of California-Davis. He completed a clinical fellowship at Mayo Clinic in Arizona, serving as the hospital's first neurology advanced practice provider fellow.



Andrew Yang, MD

Andrew Yang, MD, is a neurosurgeon who specializes in the surgical treatment of drug-resistant epilepsy. He serves as director of the Epilepsy Surgery Program at Barrow. Dr. Yang earned his medical degree from New

York University in New York City and a master's degree in biomedical engineering from Duke University in Durham, North Carolina. He completed his neurosurgery residency at the University of Pennsylvania in Philadelphia, followed by a fellowship in stereotactic, functional, and epilepsy neurosurgery at Emory University in Atlanta, Georgia.