

Neurosurgery & Neurology
Capabilities

Expertise for complex brain and spine conditions.

Our accreditations

Comprehensive Stroke Center

Allegheny General Hospital

Primary Stroke Centers

Allegheny Valley Hospital

Forbes Hospital

Jefferson Hospital

Saint Vincent Hospital

West Penn Hospital

ALS Certified

Treatment Center of Excellence

Epilepsy Certification

Level 4 Epilepsy Center

Helping your patients spend less time in the hospital and recover faster.

AHN Neuroscience Institute is an accredited national leader in providing the latest and most effective medical and surgical treatment to patients with complex brain, spine, and neurological conditions. We offer the least invasive techniques and latest technologies, which enhance patient safety and lower risk.

We serve as an international referral center for all types of neurological conditions.

We treat each patient as an individual.

Our teams of specialists work together to create a personalized treatment plan for each patient. We take the time to discuss symptoms and treatment options with our patients, because patients who know more about their conditions make more informed decisions and have better outcomes.

The right capabilities for each condition.

Our teams of specialists work together to provide the most advanced therapies, proven technologies, and innovative procedures to diagnose, treat, and manage all aspects of brain and spine conditions.

Making a referral

To refer, call 1-844-MD-REFER with pertinent clinical data.

Cerebrovascular diseases

Conditions we treat:

- Arteriovenous malformations
- Carotid stenosis
- Cerebral aneurysm
- Stroke
- Transient ischemic attack (TIA)

Our team offers:

- Expert neurologists, neurosurgeons, and interventional radiologists.
- Coordinated, personalized treatment plans that vastly improve the chances of full recovery and limit neurological deficits.

Movement disorders

Conditions we treat:

- Epilepsy
- Parkinson's disease
- Spasticity disorders

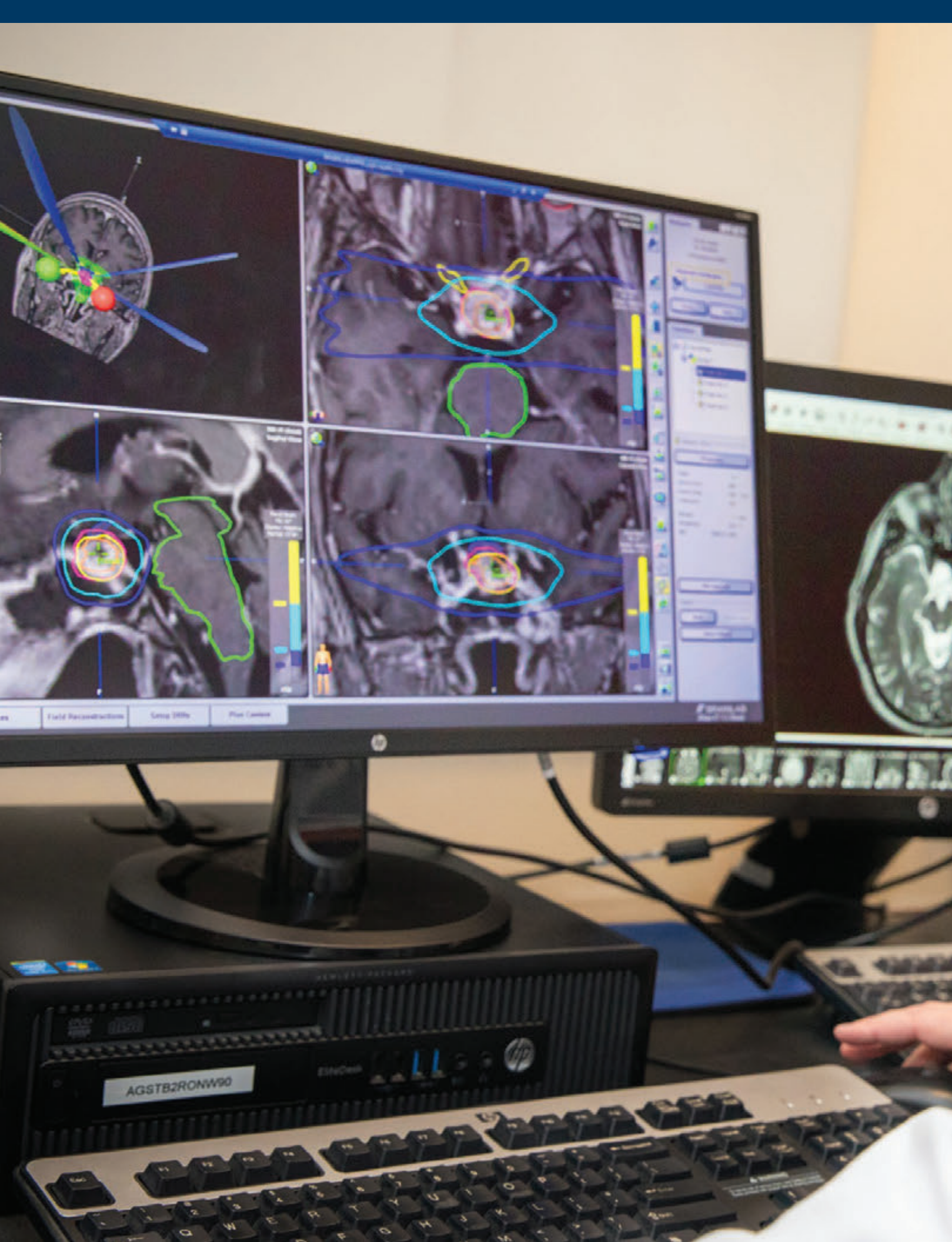
Our team offers:

- Deep brain stimulation (DBS) and vagus nerve stimulation (VNS) procedures to treat Parkinson's disease and epilepsy.
- Guidance to help people live more fulfilling lives with a chronic neurological or neuromuscular disease.
- Education; medical evaluations; respite care for caregivers; speech, physical, and occupational therapy; and nutrition services.
- Connections to community resources like the Parkinson Foundation of Western Pennsylvania and epilepsy support groups.
- Exercise programs that help relieve symptoms and improve overall health.

AHN Neuroscience Institute has:

- Innovative surgeries to ease tremors and help patients move more easily or live without pain.
- The highest distinction of care from the American Heart Association, recognized for rapid, effective stroke treatment.
- Access to groundbreaking research to improve the diagnosis and treatment of the most complex disorders at our academic hospitals, West Penn and Allegheny General.
- Care options available throughout the community at Forbes, Jefferson, Allegheny, and Saint Vincent hospitals as well as community clinics, making it more convenient for patients to get the most advanced therapies.





Brain tumor

Benign and skull base tumors we treat:

- Acoustic neuroma
- Arachnoid cyst
- Chordoma
- Colloid cyst
- Dermoid and epidermoid tumor
- Glomus jugulare tumor
- Hemangioblastoma
- Meningioma
- Pinealoma
- Vestibular schwannoma

Malignant tumors we treat:

- Astrocytoma
- Cognitive disorders due to brain tumor
- Ependymoma
- Esthesioneuroblastoma
- Germinoma
- Glioblastoma multiforme
- Gliosarcoma
- Metastatic brain tumor
- Mixed-malignant glioma
- Oligodendroglioma
- Paraneoplastic syndromes due to systemic cancer
- Pineal region tumors
- Primary central nervous system lymphoma
- Primitive neuroectodermal tumors (medulloblastoma, neuroblastoma)

Our team offers:

- Renowned physicians from neurosurgery, neurology, radiation oncology, and medical oncology.
- Eyelid craniotomy for brain aneurysms, in which a cosmetic surgeon makes the incision through the eyelid, just under the eyebrow. It allows us to remove the tumor without opening the skull and with no visible scar.
- Intracranial bypass for patients with blocked arteries, in which small arteries or veins are used to bypass vascular lesions and provide additional blood flow to the brain.
- Minimally invasive aneurysm surgery, in which surgeons use arteries in the leg as pathways to the brain, rather than cutting through the skull.

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Concussion

Our team offers:

- Immediate treatment of critical blunt-force impacts and other critical traumatic injuries.
- Maximized chances for patients to return to full function when it's safe to do so.
- Lifesaving surgical procedures, 24/7 monitoring, and an advanced rehabilitation program.

Spine

Conditions we treat:

- Arthritis
- Degenerative disk disease
- Herniated disks
- Tumors
- Vascular malformation

Our team offers:

- Minimally invasive surgical treatments and interventional services to relieve pain and eliminate physical limitations due to chronic conditions, injury, or pregnancy.
- Management of spasticity and movement disorders caused by cerebral palsy, stroke, or trauma.
- Intrathecal baclofen therapy, which uses a surgically implanted programmable pump to deliver medication and relieve severe injury or spinal cord disease.
- Spinal cord stimulation for neurosurgery pain management of the dorsal column or peripheral nerve.
- Decompression of the spine through image-guided and robotic surgeries for greater precision and a quicker recovery.

Neurodegenerative diseases

Conditions we treat:

- Alzheimer's disease
- Amyotrophic lateral sclerosis (ALS)
- Dementia
- Multiple sclerosis
- Myasthenia gravis

Our team offers:

- Expertise from physicians, physician assistants, nurse practitioners, nurses, physical therapists, and other supportive staff.
- A comprehensive evaluation and personalized care plan to manage diseases and their symptoms, preserve abilities, and reduce discomfort for the highest possible quality of life for the years ahead.
- Support from infusion therapy services, caregiver respite programs, and speech and fitness rehabilitation.
- Referrals to AHN services, community resources, and support groups to help relieve symptoms and improve emotional and physical health.



Neurological diseases

Spine diseases we treat:

- Cervical, lumbar, and thoracic disk herniation
- Cervical stenosis
- Chiari malformation
- Hyperhidrosis
- Lumbar stenosis
- Occipital neuralgia
- Spinal cord tumor
- Spinal instability

Brain diseases we treat:

- Acoustic neuroma
- Arachnoid cyst
- Cerebral aneurysm
- Chordoma
- Colloid cyst
- Craniopharyngioma
- Cushing's disease
- Glossopharyngeal neuralgia
- Hemifacial spasm
- Hydrocephalus
- Meningioma
- Pineal tumor
- Skull base tumor
- Spasmodic torticollis
- Trigeminal neuralgia
- Vertigo and tinnitis

Our team offers:

- Groundbreaking neuroendoscopic procedures.
- Treatment of many tumors that are so difficult to reach they were once considered inoperable.
- Minimally invasive options, with less pain, faster recoveries, and little or no scarring.

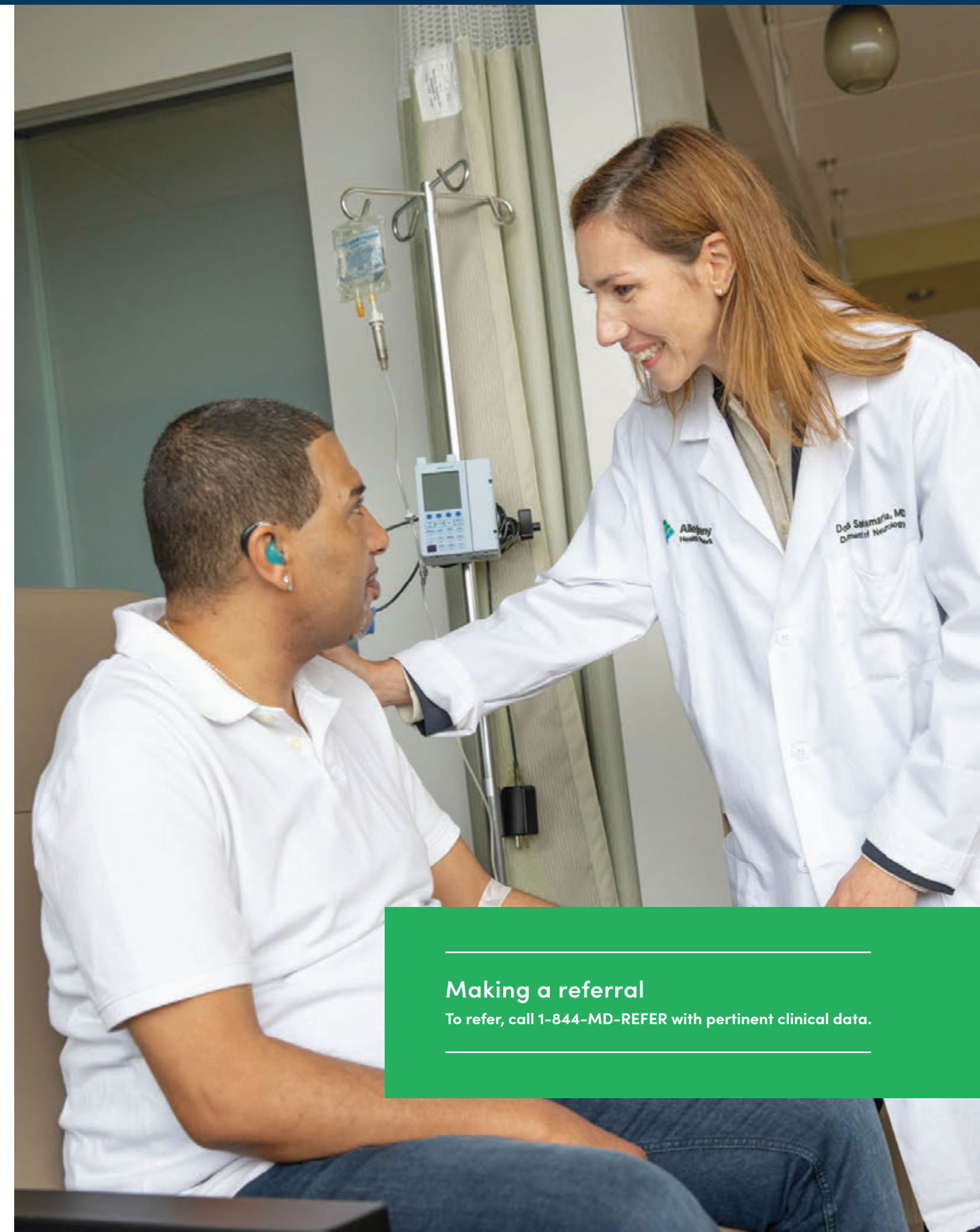
Headache

Conditions we treat:

- Cluster headaches
- Migraines
- Tension headaches

Our team offers:

- Expert neurologists who are unmatched in their experience.
- Holistic therapies to manage, minimize, or eliminate pain.
- Research-backed treatments and the newest medications tested in clinical trials, including IV infusion therapies.
- Educational support.



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Allegheny Health Network (AHN) complies with applicable federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex in its health programs and services. In order to treat individuals in a nondiscriminatory manner, AHN provides free communication aids and language assistance services.

ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al 412-359-3131

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