

Hospital Neuroscience

Institute diagnoses and treats a wide variety of neurological problems and specialties such as brain and spinal tumors, stroke, brain injury, spinal cord injury, spinal surgery, and neurological disorders. The Neuroscience Institute is comprised of more than one dozen neurosurgeons, neurologists and other specialists who focus on treating neurological and other related disorders.

The Neuroscience Institute encompasses:

- Baclofen Pump
- Brain Injury Day Treatment
- Community Outreach
- Diagnostic Testing
- Gamma Knife Surgery
- Image-guided Surgery
- Intraoperative Neurophysiology Monitoring
- Medical and Surgical Care
- Microsurgery
- Neurology & Neuro-oncology
- Neuroradiology
- Neurosurgery
- Radiation
- Radiology
- Rehabilitation Medicine
- Research
- Sleep Evaluation Center
- Spinal Cord Injury Program
- Stereotactic Radiosurgery
- Stroke Program

orthridge Hospital Medical Center is a 425-bed, non-profit, community based organization serving the San Fernando Valley for more than 50 years. We provide comprehensive care in our many specialty Centers of Excellence and are a designated Trauma Center. We are affiliated with Catholic Healthcare West and share with them a long and rich legacy of caring.



Northridge Hospital Medical Center CHW

Gamma Knife Center

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Free Find-A-Physician (818) 908-8677

Gamma Knife Center

Neuroscience Institute



The GOLD Standard in Brain Surgery



Northridge Hospital Medical Center

what's on YOUR mind?

First to bring noninvasive brain surgery to the Valley, Northridge Hospital Medical Center joins only 200 leading neurosurgical institutions worldwide to offer Gamma Knife stereotactic radiosurgery.

The Leksell Gamma Knife® by Elekta is a neurosurgery tool that, despite its name, is not a knife at all. This leading edge in brain surgery doesn't even include a blade. The Gamma Knife delivers safe, effective brain surgery without a single cut or even shaving the hair by focusing 201 beams of gamma radiation at the precise lesion or tumor in the brain. Using this technology, the diseased tissue can be treated with unprecedented accuracy while sparing the surrounding tissue.

This procedure gives new hope to patients with conditions that previously were considered inaccessible or inoperable such as brain tumors, brain disorders and Trigeminal Neuralgia.

Patients avoid the surgical risk, a long hospital stay and rehabilitation, or even a single incision. The procedure is virtually painless and most patients are able to leave the hospital the same day. The Gamma Knife's accuracy – within less than three-tenths of a millimeter – makes this the technology of choice for doctors and patients.

The Gold Standard in Brain Surgery

The technology behind the tool has undergone 25 years of evaluation and patient use. Its success rate is unprecedented – more than 350,000 patients around the world have undergone Gamma Knife radiosurgery with a high degree of success – no other neurosurgical tool has achieved such impressive results.

Many hospitals claim to have comparative treatment, but no other modality can match the depth of experience or proven outcomes of Gamma Knife surgery.

State-of-the-Future

The Gamma Knife has emerged as one of the most important innovations in treating illnesses in the brain, and its applications continue to grow – Parkinson's disease, epilepsy, behavioral disorders, and cancer pain are being investigated.

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A Team Approach

Our specially-trained, expert physicians have years of experience and are highly respected in their field. A neurosurgeon, radiation oncologist, neuroradiologist and a radiation physicist work together to develop a treatment program tailored for each patient. This mix of disciplines and skills also increases the degree of accuracy for every procedure, ensuring the highest level of professional expertise and an extraordinary degree of personal care throughout the treatment process.

Most Commonly Treated Gamma Knife Indications

- 1. Malignant Tumors
 - Metastatic
 - Primary Recurrent Brain Tumors
- 2. Benign Tumors
 - Meningioma
 - Acoustic Neuroma (Schwannoma)
 - Pituitary Adenoma
- 3. Trigeminal Neuralgia (severe facial pain)
- 4. Arteriovenous Malformations
- 5. Ocular Tumors

Ask your doctor if you are a candidate for Gamma Knife Radiosurgery.

