Our center experts treat all types of benign and malignant brain and skull base tumors. With innovative minimally invasive keyhole surgical approaches, novel targeted neuro-oncological treatments, stereotactic radiosurgery and clinical trials, we provide precision therapies aimed at safely and effectively transforming and sustaining our patients’ lives.

**PATIENT-CENTERED FOCUS:** A multidisciplinary team approach providing tailored diagnostic and treatment plans.

**EXPERIENCE, INNOVATION & RESEARCH:** One of the largest series of keyhole and endoscopic surgeries world-wide; extensive academic publications; ongoing clinical trials and brain tumor genomics research.

**TECHNOLOGY:** State-of-the-art operating suite dedicated to endoscopic and keyhole neurosurgery.

**CONSISTENT QUALITY CARE:** Our physicians practice at award-winning Providence hospitals in Santa Monica and the South Bay.

**PHYSICIAN EDUCATION:** Regular symposia in brain tumor management and minimally invasive surgical techniques.

**MINIMALLY INVASIVE “KEYHOLE” NEUROSURGERY**

We incorporate state-of-the-art technology with proven surgical experience to make tumor removal safer, less invasive and more effective. Most brain, pituitary and skull base tumors can now be removed by a “keyhole” approach. These include the endonasal endoscopic approach (via the nose), the supraorbital “eyebrow” craniotomy, the retromastoid craniotomy (behind the ear) as well as other minimally invasive routes.

**DISORDERS WE TREAT**

**BRAIN & SKULL BASE TUMORS**

- Chordoma
- Colloid cyst
- Craniopharyngioma
- Epidermoid cyst
- Gliomas (astrocytoma, ependymoma, glioblastoma, oligodendroglioma)
- Hemangioblastoma
- Intraventricular tumors
- Meningioma
- Metastatic brain tumors
- Olfactory neuroblastoma & other sinonasal cancers
- Schwannoma (trigeminal & acoustic)

**SPINAL CORD TUMORS**

**INTERNATIONAL PATIENTS**

For patients living outside the United States, our physicians can provide a prompt review of imaging and other tests. We can suggest a recommendation about the optimal treatment options with no charge for such initial evaluations and preliminary reviews.

For an appointment or second opinion:

**Santa Monica / Neurosurgery:** 2125 Arizona Ave., Santa Monica, CA 90404 | 310-582-7450
**Santa Monica / Neuro-oncology:** 2121 Santa Monica Blvd., Santa Monica, CA 90404 | 310-829-8265
**Torrance / Neurosurgery:** 5215 Torrance Blvd., #300, Torrance, CA 90503 | 424-212-5361
**Burbank / Neurosurgery:** 501 S. Buena Vista St., Burbank, CA 91505 | 818-847-6049
**Mission Hills / Neurosurgery:** 11550 Indian Hills Rd, #261, Mission Hills, CA 91345 | 818-847-6570
**All Neuro-oncology:** 310-829-8265
NEURO-ONCOLOGICAL TREATMENT OF BRAIN TUMORS & CLINICAL TRIALS AVAILABILITY

We are committed to improving the lives of patients with primary and metastatic brain cancers with our personalized approach to patient care. For many patients with aggressive brain malignancies, multi-modality treatments are typically needed after minimally invasive surgery. The optimal treatment is determined through a multidisciplinary team approach aimed at achieving maximal survival while maintaining quality of life. In addition, PNI has a large portfolio of advanced clinical trials for patients with glioblastomas and other brain cancers including metastatic brain tumors. Depending upon the specifics of a patient’s tumor type, and prior treatments, the use of standard therapies, clinical trials or a combined approach of standard therapies followed by clinical trial enrollment may offer the best treatment option.

DANIEL F. KELLY, MD
DIRECTOR, PACIFIC NEUROSCIENCE INSTITUTE
Dr. Kelly is an internationally recognized neurosurgeon with a focus in the field of endoscopic and keyhole brain surgery. He treats a wide range of tumors including pituitary adenomas, meningiomas, craniopharyngiomas, chordomas and metastatic brain tumors. Dr. Kelly is the recipient of the Patients’ Choice Award and has been awarded the southern California Super Doctor distinction 15 years in a row. pacificneuro.org/kelly

GARNI BARKHOUDARIAN, MD
CO-DIRECTOR, PITUITARY DISORDERS CENTER
Dr. Barkhoudarian is a neurosurgeon specializing in skull base and minimally invasive endoscopic surgery, particularly pituitary and parasellar tumors, intra-ventricular brain tumors, trigeminal neuralgia, hemifacial spasm, other cranial nerve syndromes and hydrocephalus. He is director of the Pacific Hydrocephalus Center and Pacific Facial Pain Center and director of the Neuroanatomical Skills Microdissection Laboratory. pacificneuro.org/barkhoudarian

WALAVAN SIVAKUMAR, MD
DIRECTOR, NEUROSURGERY, PNI-SOUTH BAY
Dr. Sivakumar specializes in treating brain, skull base, and pituitary tumors, aneurysms, cavernous malformations, arteriovenous malformations, carotid stenosis and spine issues, utilizing advanced neuroimaging and microsurgical techniques to minimize collateral damage to the brain and other neurological structures. He primarily sees patients at Providence Little Company of Mary Torrance. pacificneuro.org/sivakumar

ADI IYER, MD, MS
NEUROSURGERY
Dr. Iyer is one of California’s few dual-trained neurosurgeon / neurovascular surgeons. He offers minimally invasive open surgical techniques as well as incisionless catheter-based procedures for patients with strokes, aneurysms, AVMs, tumors and pain. He brings leading-edge technology to help his patients treating them with a philosophy of respect and compassion. He sees patients at Providence hospitals in Burbank and Mission Hills. pacificneuro.org/iyer

NOUZHAN SEHATI, MD
NEUROSURGERY
Dr. Sehati specializes the treatment of a wide variety of brain, spine and spinal cord disorders. His expertise is in surgical and nonsurgical management of degenerative, traumatic and neoplastic (tumor) diseases of the brain and spine with a focus on minimally invasive techniques. His practice is based primarily at Providence Saint Joseph Medical Center in Burbank. pacificneuro.org/sehati

SANTOSH KESARI, MD, PhD
DIRECTOR, NEURO-ONCOLOGY
Dr. Kesari is a world-renowned neuro-oncologist with extensive experience treating all types of malignant brain tumors with particular emphasis on glioblastomas. A physician-scientist and multiple recipient of Castle Connolly’s Top Doctor Award and has been awarded the southern California Super Doctor distinction 15 years in a row. pacificneuro.org/kesari

JOSE CARRILLO, MD
NEURO-ONCOLOGY
Dr. Carrillo is a board-certified neurologist and neuro-oncologist specializing in the diagnosis and treatment of primary and secondary brain tumors, including glioblastoma multiforme, primary CNS lymphoma, meningioma, and brain metastases, as well as the neurologic complications of cancer. He is also involved in the enrollment of patients into clinical trials. pacificneuro.org/carrillo

NAVEED WAGLE, MD
NEURO-ONCOLOGY
Dr. Wagle has specialized training and research experience in the treatment of cancer of the central and peripheral nervous system, treating patients with primary and metastatic brain tumors as well as neurologic complications of cancer. He brings a wealth of knowledge and experience in neuro-oncology clinical trials design and implementation. pacificneuro.org/wagle

AKANKSHA SHARMA, MD
NEURO-ONCOLOGY
Dr. Sharma is board certified in neurology and neuro-oncology specializing in the diagnosis and treatment of primary and metastatic brain tumors, including glioblastoma multiforme, primary CNS lymphoma, meningioma, and brain metastases, as well as the neurologic complications of cancer. She is experienced in the treatment of primary/metastatic brain tumors as well as the neurologic complications of cancer. She brings a wealth of knowledge and experience in neuro-oncology clinical trials design and implementation. pacificneuro.org/sharma

GENOMIC PROFILING
Using Next Generation Sequencing, microRNA profiling, and proteomic analyses, detailed biomarker analysis is routinely performed on many of our patients. These techniques allow use of specific targeted treatments based on the tumor molecular profile for each patient, giving the greatest chance of achieving tumor remission and hopefully a cure. In some instances, what we learn from tumor sequencing will lead to an established treatment and in others it will lead to clinical trial options.

PACIFIC NEUROSCIENCE INSTITUTE

PacificBrainTumor.org | PacificNeuro.org