



## PACIFIC BRAIN TUMOR CENTER AT PROVIDENCE SAINT JOHN'S HEALTH CENTER

We provide comprehensive care and minimally invasive surgery for patients with brain, skull base and pituitary tumors, as well as related problems such as spinal cord tumors and cranial nerve disorders.

**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:** The Brain Tumor Center received the Neurosurgery Excellence Award™ in 2014. Providence Saint John's Health Center is the only hospital in California to receive Healthgrade® America's 50 Best Award™ 9 years in a row.

**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. To learn more about these minimally invasive surgical options go to [http://brain-tumor.org/BTC\\_Minimally\\_Invasive\\_Neurosurgery.aspx](http://brain-tumor.org/BTC_Minimally_Invasive_Neurosurgery.aspx)

### 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)

#### PITUITARY ADENOMAS & RELATED PROBLEMS

- Acromegaly
- Cushing's disease
- Endocrine-inactive adenoma
- Prolactinoma
- Recurrent and residual adenoma
- Rathke's cleft cyst
- Pituitary failure (hypopituitarism)
- Hypophysitis

#### CRANIAL NERVE DISORDERS

- Trigeminal neuralgia, glossopharyngeal neuralgia, hemifacial spasm

#### ADULT HYDROCEPHALUS

- Endoscopic Techniques
- Normal Pressure Hydrocephalus (NPH)

#### CEREBROSPINAL FLUID LEAKS

- Traumatic, post-surgical, spontaneous

#### SPINAL CORD TUMORS



For an appointment or second opinion, please call 310-582-7450 or visit [www.brain-tumor.org](http://www.brain-tumor.org)



**Saint John's  
Health Center**  
+ PROVIDENCE Health & Services



# PACIFIC BRAIN TUMOR CENTER AT PROVIDENCE SAINT JOHN'S HEALTH CENTER

## OUR EXPERT TEAM

Daniel F. Kelly, MD

Garni Barkhoudarian, MD

Santosh Kesari, MD, PhD

Chester Griffiths, MD & Kian Karimi, MD

Pejman Cohan, MD & Niloufar Ilani, MD

Howard Krauss, MD

Robert Wollman, MD & Lisa Chaiken, MD

George Teitelbaum, MD

David Krasne, MD & Yuki Takasumi, MD

Amy Eisenberg, MSN, ARNP, CNRN

Neurosurgery, PBTC Director

Neurosurgery, Faculty

Neuro-Oncology

Head & Neck Surgery (ENT)

Endocrinology

Neuro-Ophthalmology

Radiation Oncology

Interventional Neuro-Radiology

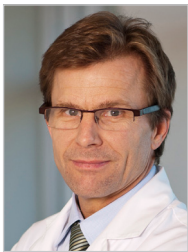
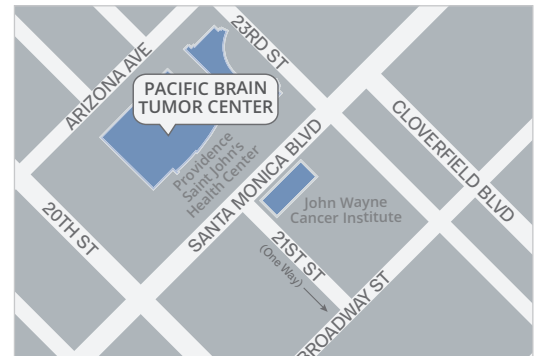
Neuropathology

Program Nurse Practitioner

## RESEARCH & EDUCATION AT THE PACIFIC BRAIN TUMOR CENTER & JOHN WAYNE CANCER INSTITUTE

Through collaboration with the John Wayne Cancer Institute, PBTC physicians conduct translational research, clinical trials, continuing medical education as well as neurosurgical fellowship training.

## PROVIDENCE SAINT JOHN'S HEALTH CENTER



### DANIEL F. KELLY, MD DIRECTOR, PACIFIC BRAIN TUMOR CENTER

Dr. Kelly is internationally recognized in the field of endoscopic and keyhole brain surgery. He has numerous publications on surgical outcomes, patient satisfaction and complication avoidance for a wide range of tumors including pituitary adenomas, meningiomas, craniopharyngiomas, chordomas and metastatic brain tumors.



### GARNI BARKHOUDARIAN, MD CO-DIRECTOR, PACIFIC BRAIN TUMOR CENTER

Dr. Barkhoudarian's focus is on 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 endoscopic treatment of hydrocephalus. He is director of the Providence Saint John's Skull-Base and Endoscopic Microdissection Laboratory.



### SANTOSH KESARI, MD, PhD DIRECTOR, PACIFIC NEURO-ONCOLOGY CENTER

Dr. Kesari has extensive experience treating all types of malignant brain tumors including glioma and metastatic brain tumors. As the chair of Translational Neuro-oncology and Neuro-therapeutics at John Wayne Cancer Institute, he and his team conduct leading-edge clinical trials in immunotherapy and biomarker-based therapies.

## TO REACH THE CLINIC

- Proceed through the main hospital entrance into the Howard Keck Center
- Take the Howard Keck elevators down to the Garden Level (GL)
- As you exit the elevators, turn right
- Follow signs to the Cancer Center, Brain Tumor Center & Neurosciences reception desk



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For an appointment or second opinion, please call 310-582-7450  
or visit [www.brain-tumor.org](http://www.brain-tumor.org)

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