

# *Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery*

*FOR BRAIN, SKULL BASE AND PITUITARY TUMORS WITH HANDS-ON MICRODISSECTION*

*A collaboration between Pacific Neuroscience Institute & University of Colorado*

**March 24-26, 2023 | Santa Monica, CA USA**

**16 CME Hours**

*Location: Santa Monica, California*

## **Course Directors**

### **Garni Barkhoudarian, MD**

Neurosurgery  
Co-Director, Pituitary Disorders Center  
Chief, Radiosurgery Program  
Director, Adult Hydrocephalus Center & Facial Pain Center

### **Daniel F. Kelly, MD**

Neurosurgery  
PNI Director & Co-Founder  
Director, Brain Tumor Center & Pituitary Disorders Center

### **Chester F. Griffiths, MD**

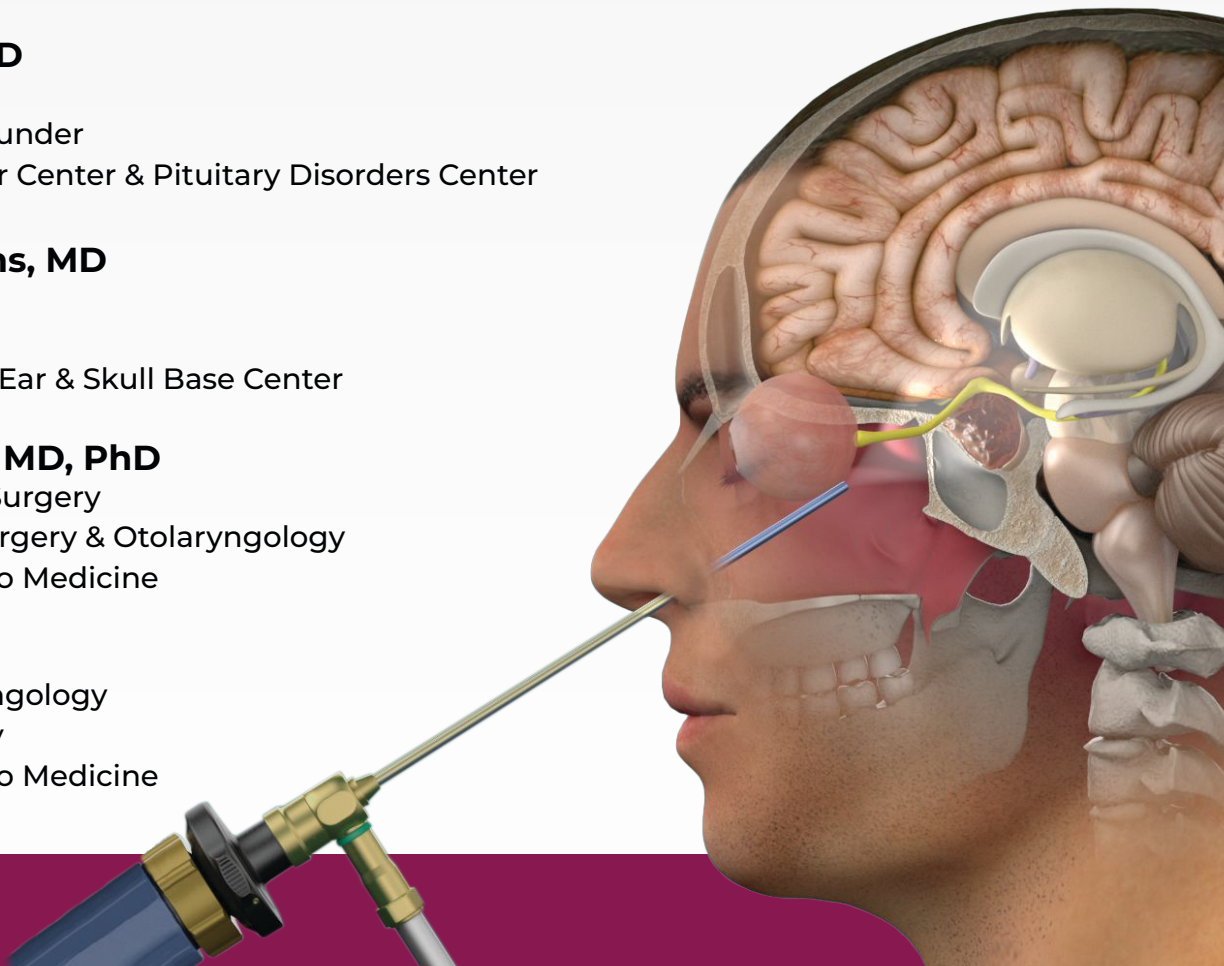
ENT Surgery  
PNI Co-Founder  
Director, Pacific Eye, Ear & Skull Base Center

### **A. Samy Youssef, MD, PhD**

Director, Skull Base Surgery  
Professor of Neurosurgery & Otolaryngology  
University of Colorado Medicine

### **Anne Getz, MD**

Rhinology & Otolaryngology  
Head & Neck Surgery  
University of Colorado Medicine



# Course Objectives

This 3-day course experience will provide an extensive immersion in advanced endonasal and transcranial keyhole surgical techniques using didactic and anatomical lectures, cadaveric dissections, and live surgery on Day 1. The course faculty are highly experienced and recognized world-experts in minimally invasive endoscopic and keyhole surgery.

The course emphasis will be on patient and approach selection, surgical judgment, anatomical awareness, technical nuances, complication avoidance, maintaining quality of life, and optimizing clinical outcomes.

Specific approaches discussed and performed in the lab will be on:

- Endoscopic endonasal route, including extended approach variations.
- Supraorbital eyebrow craniotomy.
- Mini-pterional craniotomy.
- Gravity-assisted transfalci and transtentorial endoscopic approaches and the retromastoid route.

A team approach involving neurosurgery, otolaryngology, and neuro-ophthalmology will be stressed, as well as collaboration with neuro-oncology, endocrinology, and radiation oncology.

The course will have parallel sessions on keyhole surgery for neurosurgeons, and endonasal approaches for ENT/ophthalmologists.

## Faculty

In alphabetical order by last name

### **PNI Faculty**

#### **Garni Barkhoudarian, MD**

Co-Director, Pituitary Disorders Center  
Director, Adult Hydrocephalus Center  
Director, Facial Pain Center  
Director, SJCI/PNI Neuroanatomy Lab  
Pacific Neuroscience Institute

#### **J. Frank Berry, MD, MS**

Fellow 2022-2023  
Pacific Neuroscience Institute

#### **Chester F. Griffiths, MD, FACS**

Head & Neck Surgery  
Endoscopic Skull Base Surgery  
Director, Pacific Eye, Ear, & Skull Base Center  
Co-Founder, Pacific Neuroscience Institute

#### **Daniel F. Kelly, MD**

Director, Brain Tumor Center  
Director, Pituitary Disorders Center  
Director & Co-Founder  
Pacific Neuroscience Institute

#### **Amit Kochhar, MD**

Director, Facial Nerve Disorders Program  
Pacific Neuroscience Institute

#### **Howard R. Krauss, MD**

Director, Eye, Ear, & Skull Base Center  
Co-Founder, Pacific Neuroscience Institute

#### **Walavan Sivakumar, MD**

Director, Neurovascular Surgery  
Director, Neurosurgery PNI South Bay  
Pacific Neuroscience Institute

Lab Manager: Josh Emerson, BS, MFA

# Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery

## Faculty

In alphabetical order by last name

### CU Faculty

#### Anne Getz, MD

Rhinology & Otolaryngology  
Head & Neck Surgery  
University of Colorado Medicine

#### A. Samy Youssef, MD, PhD

Director, Skull Base Surgery  
Professor of Neurosurgery & Otolaryngology  
University of Colorado Medicine

### Visiting Faculty

#### Ivan H. El-Sayed, MD

Professor of Clinical Otolaryngology  
Director of Otolaryngology  
Minimally Invasive Skull Base Surgery  
Department of Otolaryngology  
University of California, San Francisco  
San Francisco, CA

#### Pablo Villanueva, MD

Facultad de Medicina  
Pontificia Universidad Católica de Chile  
Santiago, Chile

#### Kentaro Horiguchi, MD, PhD

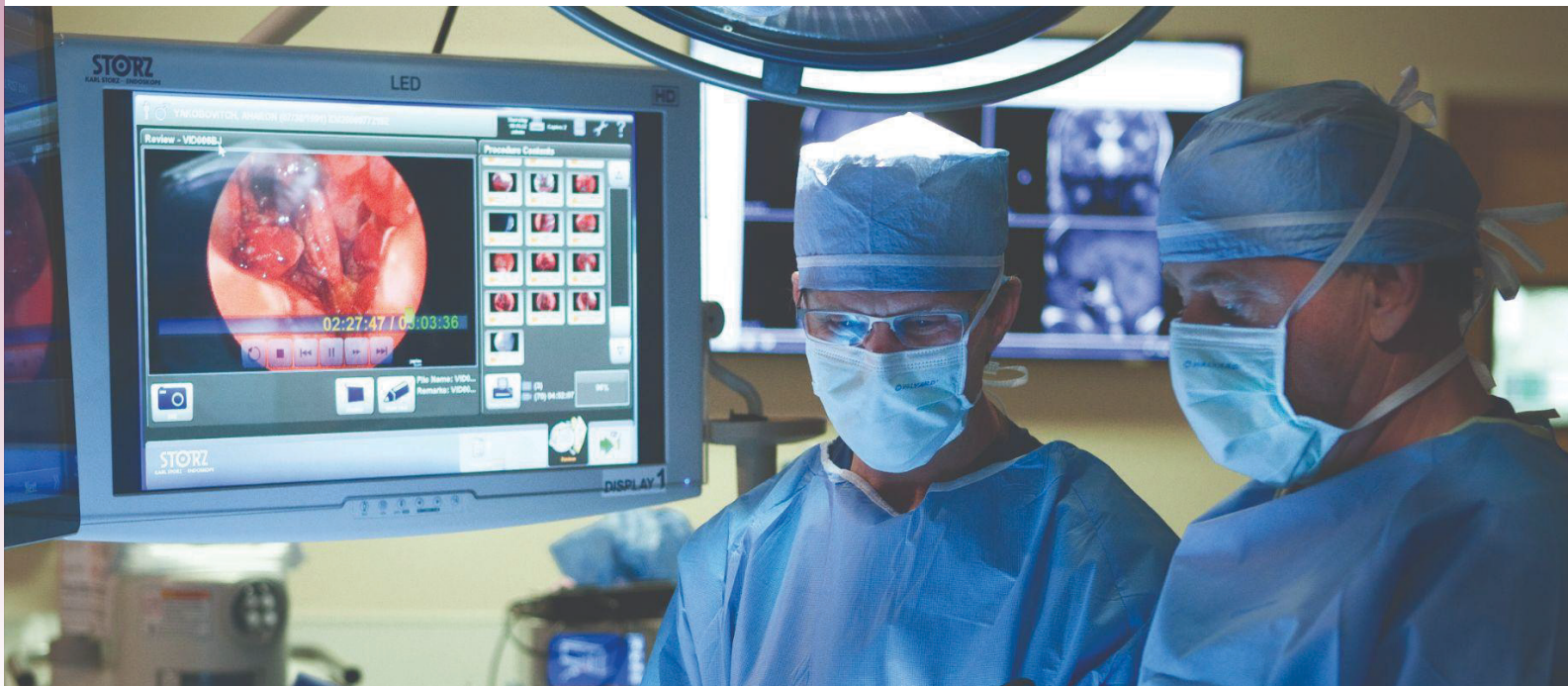
Assistant Professor, Neurosurgery  
Chiba University Hospital  
Tokyo, Japan

#### Gabriel Zada, MD

Director, USC Brain Tumor Center  
Professor of Neurological Surgery (Clinical School)  
Otolaryngology and Internal Medicine at the Keck  
School of Medicine of USC  
Co-Director, USC Pituitary Center  
Los Angeles, CA

#### Doo Sik Kong, MD, PhD

Assistant Professor of Neurosurgery  
Samsung Medical Center  
Seoul, South Korea





# Day 1

Friday, March 24<sup>th</sup>, 2023

Noon – 5pm

Location: Pacific Neuroscience Institute  
2125 Arizona Ave, Santa Monica, CA 90404

● **11:00am-Noon**

**Registration & Lunch**

● **Noon**

**Welcome**

Course Overview

[Daniel F. Kelly, MD](#)

[Garni Barkhoudarian, MD](#)

[A. Samy Youssef, MD, PhD](#)

● **12:10pm**

**Live Surgery**

Case Introduction

[J. Frank Berry, MD, MS – PNI Fellow](#)

● **12:30pm**

**Invited Guest Lecture**

Complications of endoscopic  
endonasal surgery in Chile

[Pablo Villanueva, MD](#)

● **1:00pm-3:30pm**

**Live Commentary/Case discussion**

[Garni Barkhoudarian, MD](#)

● **3:30pm-4:00pm**

**Break**

● **4:00pm**

**Approach Lecture**

Keyhole or endonasal surgery-  
Case dependent

[Garni Barkhoudarian, MD](#)

[Daniel F. Kelly, MD](#)

● **4:30pm-5:00pm**

**Combined Open & Endoscopic  
Approaches**

Parasellar region, cavernous sinus or  
lateral skull base

[A. Samy Youssef, MD, PhD](#)

● **5:00pm**

**Welcome Reception**

[SoCalo Restaurant](#)

1920 Santa Monica Blvd, Santa Monica, CA 90404

● **7:00pm**

**Faculty Dinner**

[La Puglia](#)

1621 Wilshire Blvd, Santa Monica, CA 90403



## Day 2

**Saturday, March 25<sup>th</sup>, 2023**

All Day

Location: Saint John's Cancer Institute  
2200 Santa Monica Blvd, Santa Monica  
CA 90404

**7:00am** Continental Breakfast  
Parallel Neurosurgery Session  
(J&JG Conference Room)

**Continental Breakfast**  
Parallel ENT Session  
(Executive Conference Room)

**7:30am** Keyhole surgery: supraorbital  
& mini-pterional approaches  
[Daniel F. Kelly, MD](#)

Mucosal repurposing and  
turbinate preservation in  
endoscopic skull base surgery  
[Chester F. Griffiths, MD, FACS](#)

**8:00am** Endoscopic approaches to  
the Infratemporal fossa  
[Garni Barkhoudarian, MD](#)

Sinonasal malignancies  
[Anne Getz, MD](#)

**8:30am** Endoscope-assisted cranial  
surgery and fluorescence  
[Gabriel Zada, MD](#)

Endoscopic approaches to the  
Infratemporal fossa  
[Ivan H. El-Sayed, MD](#)

**9:00am** Keyhole approaches for  
aneurysm surgery  
[Walavan Sivakumar, MD](#)

Management of complex wounds  
& skull base reconstruction  
[Amit Kochhar, MD](#)



**9:30am** Tuberculum sella  
meningioma: above or below?  
[Garni Barkhoudarian, MD](#)

The skull base repair ladder at UCSF  
[Ivan H. El-Sayed, MD](#)

**10:00am** **Anatomical Dissection**  
Eyebrow keyhole supraorbital craniotomy  
Mini-pterional craniotomy  
Transorbital (eyelid)

**Noon** **Lunch**

● **12:30pm**  
**Lunch Lecture**  
Olfaction preservation in anterior  
skull base meningiomas  
[A. Samy Youssef, MD, PhD](#)

● **1:00pm-4:00pm**  
**Anatomical Dissection**  
Endonasal approaches  
Coronal plane - Meckel's cave approach  
Coronal plane - infratemporal approach

● **4:00pm**  
**Panel Discussion**  
Scary cases  
[All faculty](#)

● **6:00pm**  
Adjourn

● **7:00pm**  
**Course Dinner**  
[Earth, Wind, & Flour](#)  
2222 Wilshire Blvd, Santa Monica, CA 90403

# Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery

## Day 3

**Sunday, March 26<sup>th</sup>, 2023**

All Day

Location: Saint John's Cancer Institute  
2200 Santa Monica Blvd, Santa Monica  
CA 90404

- 7:00am**  
**Continental Breakfast**
- 7:15am**  
Endoscopic endonasal surgery: overview  
[Daniel F. Kelly, MD](#)
- 7:30am**  
Flap reconstruction and CSF leak management  
[Chester F. Griffiths, MD, FACS](#)
- 8:00am**  
Coronal plane approaches: anterior (transorbital) and infrapetrous coronal approaches (medial petrous apex and petroclival)  
[Anne Getz, MD](#)
- 8:30am**  
Management of cavernous sinus invasion  
[Kentaro Horiguchi, MD, PhD](#)
- 8:55am**  
Neuro-ophthalmic evaluation and management in association with multidisciplinary care of parasellar tumors  
[Howard R. Krauss, MD](#)
- 9:15am**  
Trans-orbital approaches to skull base tumors  
[Doo Sik Kong, MD](#)
- 9:40am**  
Endoscopic endonasal approach for craniopharyngioma  
[Kentaro Horiguchi, MD, PhD](#)
- 10:00am-12:00pm**  
**Anatomical Dissection**  
Sagittal plane - Transtubercular  
Sagittal plane - Transclival  
Sagittal plane - Odontoid
- Noon**  
**Lunch**
- 12:30pm**  
**Lunch Lecture**  
Factors predicting visual recovery after orbital tumor  
[Doo Sik Kong, MD](#)
- 1:00pm**  
**Anatomical Dissection**  
Supracerebellar / infratentorial / transtentorial sitting position  
Transfalicine approach
- 3:00pm**  
Carotid injury model demonstration  
[Gabriel Zada, MD](#)
- 4:00pm**  
**Panel Discussion**  
Scary cases  
[All faculty](#)
- 5:00pm**  
**Adjourn**



## ***Accreditation Statement***

Saint John's Health Center (SJHC) is accredited by the California Medical Association (CMA) to provide continuing medical education for physicians. SJHC designates this live activity for a maximum of sixteen (16) AMA PRA Category 1 Credit™. Physicians should claim only credit commensurate with the extent of their participation in the activity. This credit may also be applied to the CMA Certification in Continuing Medical Education.

For more information, please contact:

Jenna Banaag, MHA at [jenna.banaag@providence.org](mailto:jenna.banaag@providence.org)

[PacificNeuro.org](http://PacificNeuro.org)