PACIFIC NEUROSCIENCE Providence



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 15-17, 2024 | 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

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 transfalcine and transtentorial endoscopic approaches and the retromastroid 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 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

Chester F. Griffiths, MD, FACS

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

Adi Iyer, MD, MS

Neurosurgery & Neurointerventional Surgery Director, Stroke & Neurovascular Center Pacific Neuroscience Institute

Daniel F. Kelly, MD

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

Usman Khan, MD

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

Noa Tal, MD

Endocrinology Pacific Neuroscience Institute

Michael Yong, MD, MPH, MBA

Otolaryngology - Head & Neck Surgery; Neurorhinology - Advanced Sinus & Skull Base Surgery Pacific Neuroscience Institute

Lab Manager: Josh Emerson, BS, MFA

Fellow 2023-2024 Pacific Neuroscience Institute Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery

Faculty

In alphabetical order by last name

CU Faculty

Ash Khanwalkar, MD 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

Zachary Litvack, MD

Director of Minimally Invasive & Skull Base Surgery Department of Neurosurgery Swedish Medical Center Seattle, WA

Zara Patel, MD

Professor of Otolaryngology Director, Endoscopic Skull Base Surgery Head and Neck Surgery (OHNS) Stanford Health Care Palo Alto, CA

Teddy Totimeh, MD

Consultant Neurosurgeon Accra, Greater Accra Region Ghana, West Africa

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





Day 1

Friday, March 15th, 2024

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 Usman Khan, MD – PNI Fellow

12:30pm

Approach Lecture Keyhole or Endonasal -Case Dependent Garni Barkhoudarian, MD Daniel F. Kelly, MD

1:00pm Invited Guest Lecture Building an Endoscopic and Keyhole Surgery Program in Ghana Teddy Totimeh, MD 1:30pm-3:30pm

Case Discussion/ Live Commentary Garni Barkhoudarian, MD

4:00pm

Tubular Trans-sulcal approaches: Surgical Nuances and considerations Zachary Litvack, MD

4:30pm-5:00pm

Reconstruction options in endonasal skull-base surgery Zara Patel, MD

5:00pm Welcome Reception Earth, Wind, & Flour

7:00pm Faculty Dinner La Puglia



Day 2

Saturday, March 16th, 2024

All Day Location: Saint John's Cancer Institute 2121 Santa Monica Blvd, Santa Monica, CA 90404

7:00am

Continental Breakfast

7:30am

Keyhole surgery: Supraorbital Eyebrow Approach Daniel F. Kelly, MD

7:50am

Endoscope-assisted posterior fossa surgery Garni Barkhoudarian, MD

8:10am

Keyhole approaches for Aneurysm surgery Adi Iyer, MD, MS

8:30am

Combined open and endoscopic approaches – parasellar / cavernous sinus A. Samy Youssef, MD, PhD

8:50am

Management of complex wounds & skull base reconstruction Amit Kochhar, MD

9:10am

Transfalcine approach Walavan Sivakumar, MD

9:30am

Olfaction preservation in anterior skull base meningiomas A. Samy Youssef, MD, PhD

10:00am

Anatomical Dissection Eyebrow craniotomy, minipterional, transfalcine

12:00pm Lunch



Day 2

Saturday, March 16th, 2024

All Day Location: Saint John's Cancer Institute 2121 Santa Monica Blvd, Santa Monica, CA 90404

12:15pm

Scary Cases Discussion All faculty

1:00pm

Skull-base complication management in Ghana Teddy Totimeh, MD

1:20pm

Endoscope assisted Keyhole surgery Gabriel Zada, MD

1:50pm

Tuberculum Sella Meningioma management Garni Barkhoudarian, MD

2:10pm

Keyhole Approaches to intra-orbital pathology Howard R. Krauss, MD

2:30pm

Craniopharyngioma-multimodal management Zachary Litvack, MD

3:00pm-6:00pm

Anatomical Dissection

Eyebrow keyhole supraorbital craniotomy

- Supracerebellar
- Infratentorial
- Transtentorial sitting position
- Mini pterional craniotomy
- Transorbital (eyelid)
- Transfalcine

6:00pm

Adjourn

7:00pm Course Dinner SoCaLo

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Day 3

Sunday, March 17th, 2024

7:30am

Continental Breakfast

8:00am

Endoscopic Endonasal Surgery: Overview Daniel F. Kelly, MD

8:20am

Flap reconstruction and CSF leak management Chester F. Griffiths, MD, FACS

8:50am

Coronal plane approaches: anterior (transorbital) and infrapetrous coronal approaches (medial petrous apex and petroclival) Ash Khanwalkar, MD

9:10am

Neuro-ophthalmic evaluation and management in association with multidisciplinary care of parasellar tumors Howard R. Krauss, MD

9:30am

Approaching the Skull Base to Preserve Sinonasal Quality of Life Zara Patel, MD

10:00am

Anatomical Dissection Transorbital approaches

12:00pm

Lunch Scary cases All faculty All Day Location: Saint John's Cancer Institute 2121 Santa Monica Blvd, Santa Monica, CA 90404

1:00pm

Mucosal repurposing and turbinate preservation in endoscopic skull base surgery Chester F. Griffiths, MD, FACS

1:20pm

Sinonasal malignancies Anne Getz, MD

1:50pm

Sinonasal complications in endonasal surgery Michael Yong, MD, MPH, MBA

2:10pm

Endocrine considerations in endonasal surgery Noa Tal, MD

2:30pm

Carotid injury prevention and model demonstration Gabriel Zada, MD

3:00pm

Anatomical Dissection Endonasal approaches: Sagittal Plane – Transtubercular Sagittal Plane – Transclival Sagittal Plane – Odontoid approach Coronal plane – Meckel's Cave approach

6:00pm Adjourn



PACIFIC NEUROSCIENCE INSTITUTE®



Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Armenian American Medical Society (AAMS) and Pacific Neuroscience Institute. The AAMS is accredited by the ACCME to provide continuing medical education for physicians. The AAMS designates this educational activity for a maximum of 16 hour(s) AMA PRA Category 1 Credit(s) TM. Physicians should only claim credit commensurate with the extent of their participation in this live activity. These credits may also be applied to the CMA Certification in Continuing Medical Education.

For more information, please contact:

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PacificNeuro.org