

26th Annual

**Brain Tumor Update and**

15th Annual

**Symposium on Brain Metastases  
and Spine Tumors**

**October 18–19, 2025**

Four Seasons Hotel Las Vegas



# Overview

26th Annual

## Brain Tumor Update and

15th Annual

## Symposium on Brain Metastases and Spine Tumors

### About the Symposium

The 26th Annual Brain Tumor Update and the 15th Annual Symposium on Brain Metastases and Spine Tumors is co-provided by Cleveland Clinic and Keck School of Medicine of the University of Southern California. This meeting will offer a focused review of advancements in the diagnosis, treatment, and multidisciplinary management of brain and spine tumors. The symposium includes expert-led sessions on Spinal Tumors and Metastases; Brain Metastases; Technology and Brain Tumor Management; Sellar and Parasellar Tumors; Sex, Hormones and Brain Tumors; and Gliomas. Through evidence-based presentations, case-based panels, and interactive discussions, participants will gain practical insights to support integration of emerging therapies and technologies into clinical practice.

### Target Audience

Neurosurgeons, Radiation Oncologists, Medical Oncologists, Neuro-oncologists, Neurologists, Physician Assistants, Nurse Practitioners, Nurses and allied healthcare professionals involved in the care of patients with brain or spinal tumors.

### Objectives

Upon completion of this activity, the participant will be able to:

- Summarize innovations in imaging, surgical management, technology, and next-generation sequencing for bone tumors of the spine.
- Critically appraise the issues for treatments for brain metastases including advances in radiosurgery and other surgical treatments, targeted therapy, and immunotherapy.
- Describe the technological innovations in imaging, radiation, and surgery for brain tumor management and define their role in clinical practice.
- Describe advances in epigenetics, cellular therapy, clinical trials, and immunotherapy of gliomas.
- Discuss modern updates in the management of sellar and parasellar tumors and related conditions.
- Identify the role of hormones and sex differences in the incidence and treatment outcomes of patients with gliomas and meningiomas.

### Call for Papers

Abstracts will be solicited for electronic poster presentations. Electronic posters will be on display during breaks and lunch. Poster participants will be notified of acceptance as well as the Power Point poster format and content requirements on or before **September 19, 2025**.

#### Abstract Requirements

- Deadline date: **September 12, 2025**. One entry per presenter.
- Submit your abstract as a Word document to Brigid Walters at [walterb4@ccf.org](mailto:walterb4@ccf.org)
- 300 word limit

# Faculty

## Cleveland Clinic Symposium Co-Directors

### **Gene Barnett, MD, MBA**

Director and Professor,  
Rose Ella Burkhardt Brain Tumor  
and Neuro-Oncology Center

### **Ajit Krishnaney, MD**

Vice Chair, Department of Neurosurgery  
Director, Spine Tumor Surgery Program  
Center for Spine Health

### **David Peereboom, MD**

Director and Professor, Clinical Research  
Rose Ella Burkhardt Brain Tumor and  
Neuro-Oncology Center

### **Pablo Recinos, MD**

Section Head, Skull Base Surgery  
Rose Ella Burkhardt Brain Tumor and  
Neuro-Oncology Center

### **John Suh, MD, FASTRO**

Chairman, Radiation Oncology

## Keck School of Medicine of USC Symposium Co-Directors

### **Eric Chang, MD**

Chair and Professor of Radiation Oncology

### **Gabriel Zada, MD, MS**

Professor of Neurological Surgery,  
Otolaryngology and Internal Medicine  
Director, USC Brain Tumor Center

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## Faculty

### **Frank Attenello, MD, MS**

Keck School of Medicine of USC

### **Samuel Chao, MD**

Cleveland Clinic

### **Thomas C. Chen, MD, PhD**

Keck School of Medicine of USC

### **Frances Chow, MD**

Keck School of Medicine of USC

### **Shabbar Danish, MD**

HMH-Jersey Shore University Medical Center

### **Andrew Dhawan, MD, PhD**

Cleveland Clinic

### **Patrick Hsieh, MD**

Keck School of Medicine of USC

### **Stephen Jones, MD, PhD**

Cleveland Clinic

### **Varun Kshetry, MD**

Cleveland Clinic

### **Justin Lathia, PhD**

Cleveland Clinic

### **John Liu, MD**

Keck School of Medicine of USC

### **Mina Lobbous, MD, MSPH**

Cleveland Clinic

### **Lijun Ma, PhD**

Keck School of Medicine of USC

### **Alireza Mohammadi, MD**

Cleveland Clinic

### **Josh Neman, PhD**

Keck School of Medicine of USC

### **Praveen Pendyala, MD**

Cleveland Clinic

### **Nasim Sheikh-Bahaei, MD, PhD**

Keck School of Medicine of USC

### **Glen Stevens, DO, PhD**

Cleveland Clinic

### **David Tran, MD**

Keck School of Medicine of USC

### **Jason Ye, MD**

Keck School of Medicine of USC

### **Divya Yogi-Morren, MD**

Cleveland Clinic

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## Cleveland Clinic Planning Committee

**Maria Kamvouris, MSN, APRN, CNP**

**Susan Stanton, PA-C, MS, MSHS**

Saturday, October 18, 2025

## 15th Annual Symposium on Brain Metastases and Spine Tumors

9:00 a.m. **Registration/Continental Breakfast/Exhibits**

10:00 a.m. **Welcome and Introduction** – *Ajit Krishnaney*

**Spinal Tumors and Metastases** – Moderator: *Ajit Krishnaney*

10:10 a.m. **Imaging of Spine Tumors**

*Nasim Sheikh-Bahaei*

10:30 a.m. **Key Hole Minimal Invasive Surgery for Spine Tumors**

*John Liu*

10:50 a.m. **Emerging Technology in the Surgical Management of Spinal Tumors**

*Ajit Krishnaney*

11:10 a.m. **Role of NGS in the Management of Spinal Tumors**

*Andrew Dhawan*

11:30 a.m. **En bloc Resection for Chordoma: Indications, Outcomes, Future?**

*Patrick Hsieh*

11:50 a.m. **Spine Radiosurgery for Chordoma**

*Praveen Pendyala*

12:10 p.m. **Faculty Panel – Case Discussion**

12:30 p.m. **Buffet Lunch**

**Brain Metastases** – Moderator: *Eric Chang and John Suh*

1:30 p.m. **Translational Biology for Brain Metastases** – *Josh Neman*

1:50 p.m. **Role of AI in Diagnostics** – *Stephen Jones*

2:10 p.m. **Immunotherapy for Brain Metastasis** – *David Peereboom*

2:30 p.m. **Targeted Therapy for Brain Metastases** – *Mina Lobbous*

2:50 p.m. **LITT in Management of Brain Metastases** – *Alireza Mohammadi*

3:10 p.m. **Refreshment Break/Exhibits/Posters**

3:30 p.m. **Advances in Surgery for Brain Metastases** – *Frank Attenello*

3:50 p.m. **Preop Radiosurgery for Brain Mets** – *Jason Ye*

4:10 p.m. **Radiosurgery for Multiple Brain Metastases** – *Eric Chang*

4:30 p.m. **DEBATE: Fractionated vs Staged Radiosurgery for Brain Metastasis**

*Jason Ye vs Samuel Chao*

4:50 p.m. **Adjourn**

6–8 p.m. **Reception**

Sunday, October 19, 2025

## 26th Annual Brain Tumor Update

9:00 a.m. **Registration/Continental Breakfast/Exhibits**

**Technology and Brain Tumor Management** – Moderator: *David Peereboom*

9:30 a.m. **Cranial Radiosurgery with Cone Beam CT and Fractionation** – *Lijun Ma*

9:50 a.m. **Advances in Neuroradiology** – *Stephen Jones*

10:10 a.m. **Gyroscopic Radiosurgery** – *Shabbar Danish*

10:30 a.m. **Particle Therapy for Brain Tumors** – *John Suh*

10:50 a.m. **Refreshment Break/Exhibits/Posters**

**Sellar and Parasellar Tumors** – Moderator: *Pablo Recinos*

11:10 a.m. **Into the Cavernous Sinus: A 3-D Anatomy Overview when Approaching the Sella and Parasellar Spaces** – *Varun Kshetty*

11:30 a.m. **Pituitary Surgery in the Modern Era and Beyond** – *Gabriel Zada*

11:50 a.m. **The Expanding Horizon of Pituitary Tumor Management: New Tools, Better Outcomes** – *Faculty*

12:10 p.m. **Acromegaly and Cushing's Disease: From One-size Fits All to the Modern Toolkit for Treatment** – *Divya Yogi-Morren*

12:30 p.m. **Neuroendocrinology and Pituitary Surgery in the Modern Era: Case-Based Panel Discussion** – *Pablo Recinos, Varun Kshetty, Gabriel Zada, Divya Yogi-Morren*

12:50 p.m. **Lunch Buffet**

**Sex, Hormones and Brain Tumors** – Moderator: *Gabriel Zada*

1:50 p.m. **Sex Differences in Gliomas** – *Justin Lathia*

2:10 p.m. **Hormones and Meningiomas: The Knowns, Unknowns and Hyperbole** – *Mina Lobbous*

2:30 p.m. **Refreshment Break/Exhibits/Posters**

**Gliomas** – Moderator: *David Peereboom*

2:50 p.m. **Perillyl Alcohol Clinical Trials for Gliomas** – *Thomas Chen*

3:10 p.m. **Tumor Treating Fields and Immunotherapy for Glioblastoma** – *David Tran*

3:30 p.m. **IDH Inhibitors for Gliomas** – *Frances Chow*

3:50 p.m. **Genomic Profiling: Transforming Glioma Diagnosis and Treatment** – *Andrew Dhawan*

4:10 p.m. **Diffuse Midline Gliomas** – *Glen Stevens*

4:30 p.m. **Adjourn**

# General Information

## Location

Four Seasons Hotel Las Vegas  
3960 Las Vegas Boulevard South, Las Vegas, NV, 89119  
Phone: 702-632-5000

## Hotel Accommodations

A block of rooms has been reserved at the Four Seasons Hotel Las Vegas for a special meeting rate of \$389 per night for Oct 17 and 18; \$329 for Oct 19 with a daily resort fee of \$45 plus the current room tax. To secure this rate, you must make your reservation by Thursday, October 2, 2025. Contact the hotel reservations department by phone at 877.632.5000 and mention the Brain Mets Conference to obtain the special rate. To book online go to: <https://book.passkey.com/go/BrainMets2025>

## Accreditation

In support of improving patient care, Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## Credit Designation

- **American Medical Association (AMA)**

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 10.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

- **American Nurses Credentialing Center (ANCC)**

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 10.75 ANCC contact hours.

- **American Academy of PAs (AAPA)**

Cleveland Clinic Center for Continuing Education has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 10.75 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

**American Board of Surgery (ABS):** Successful completion of this CME activity enables the learner to earn credit toward the CME requirement(s) of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit.

**Certificate of Participation:** A certificate of participation will be provided to other health care professionals for requesting credits in accordance with their professional boards and/or associations.

## Information

For further information about this activity, contact Liz Eaton at Phone: 216.385.9076 or email: [eatonl3@ccf.org](mailto:eatonl3@ccf.org).

# General Information

## Faculty Disclosure Statement

The Cleveland Clinic Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

## Faculty Presentations

Faculty presentation slides will be available online in PDF format.

## Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Liz Eaton at 216.385.9076 or [eatonl3@ccf.org](mailto:eatonl3@ccf.org) at least two weeks prior to the activity.

## Health and Safety

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. As participants are responsible for their own health choices, the use of masks by all participants at this event is optional.

## Registration and Cancellation

### Symposium Registration Fee – Two Days

Symposium fee includes online syllabus, continental breakfasts, refreshment breaks, buffet luncheons and reception.

| Registration Category:                          | Fee       |
|---|-----------|
| Physician:                                      | \$495     |
| International Physician (practice outside USA): | \$395     |
| Resident*, Fellow*:                             | No charge |
| Non-Physician                                   | \$195     |
| Cleveland Clinic Alumni:                        | \$297     |

*\*Letter from program chairman or department chairman is required to receive the discounted Resident/Fellow registration.*

Preregistrations are accepted online until 5:00 PM ET, Friday, October 8, 2025. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if canceled by October 1, 2025. After October 1, 2025, a \$50 cancellation fee will be deducted from your refund. **NO REFUNDS WILL BE ISSUED AFTER OCTOBER 8, 2025.** Written notification of your cancellation is required in order to process your refund.

**Please Note:** For questions about registration, please call 216.448.8710 or email [cmeregistration@ccf.org](mailto:cmeregistration@ccf.org).

*Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone activity in our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.*