

24th Annual

Brain Tumor Update and

13th Annual

**Symposium on Brain Metastases
and Spine Tumors**

November 4–5, 2023

Four Seasons Hotel Las Vegas



About the Course

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About the Symposium

The 24th Annual Brain Tumor Update and the 13th 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 advanced multidisciplinary meeting is led by expert faculty from Cleveland Clinic and USC, with additional internationally recognized guest faculty. This symposium is designed to improve competence to assess and treat patients with brain tumors and tumors of the spine, especially as it relates to comparing treatments for brain metastases and spine tumors, evaluating new technologies, treating meningiomas, and assessing and treating gliomas, with the overall goal of improving outcomes in these patient populations.

Target Audience

Neurosurgeons, Radiation Oncologists, Medical Oncologists, Neuro-oncologists, Neurologists, Physician Assistants, Nurse Practitioners, Nurses and allied healthcare professionals who work with patients with tumors.

Objectives

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

- Summarize innovations in imaging, surgical management, medical therapy, and palliative care 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 the possibility of immunotherapy.
- Describe the technological innovations in imaging, radiation, and surgery for brain tumor management and define their role in clinical practice.
- Review the contemporary management of meningiomas including the roles of surgery, radiation, and adjuvant therapy and their relation to outcomes.
- Describe advances in molecular diagnostics, epigenetics, cellular therapy, and immunotherapy of gliomas.

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 October 2, 2023.

Abstract Requirements

- Deadline date: October 2, 2023. One entry per presenter.
- Submit your abstract as a Word document to Brigid Walters at 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

Faculty

Lilyana Angelov, MD

Cleveland Clinic

Frank Attenello, MD, MS

Keck School of Medicine of USC

F. David Barranco, MD

Barrow Neurological Institute

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

Todd Emch, MD

Cleveland Clinic

Matthew Grabowski, MD

Cleveland Clinic

Patrick Hsieh, MD

Keck School of Medicine of USC

Lindsay Hwang, MD

Keck School of Medicine of USC

Varun Kshetty, MD

Cleveland Clinic

Keck School of Medicine of USC Symposium Co-Directors

Eric Chang, MD

Chair and Professor of Radiation Oncology

Steven Giannotta, MD

Chair and Professor of Neurological Surgery

Gabriel Zada, MD, MS

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

Mina Lobbous, MD, MSPH

Cleveland Clinic

Mark Malkin, MD, FRCPC, FAAN

Cleveland Clinic

Anna Mathew, MD

Keck School of Medicine of USC

Aram Modrek, MD, PhD

Keck School of Medicine of USC

Bodour Salhia, PhD

Keck School of Medicine of USC

Glen Stevens, DO, PhD

Cleveland Clinic

David Tran, MD

Keck School of Medicine of USC

Alejandro Torres-Trejo, MD

Cleveland Clinic

Patrick Wen, MD

Dana-Farber Cancer Institute

Jason Ye, MD

Keck School of Medicine of USC

Gelareh Zadeh, MD, PhD

University of Toronto

Cleveland Clinic Planning Committee

Maria Kamvouris, MSN, APRN, CNP

Debra Kangisser, PA-C

Saturday, November 4, 2023

13th Annual Symposium on Brain Metastases and Spine Tumors

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

10:00 a.m. **Welcome and Introductions** – *Gene Barnett*

Spinal Tumors and Metastases – Moderator: *Ajit Krishnaney*

10:10 a.m. **Advances in Imaging for Spinal Tumors** – *Todd Emch*

10:30 a.m. **Innovations in Surgical Management of Spinal Tumors** – *Patrick Hsieh*

10:50 a.m. **Surgical and Interventional Options for Palliation of Pain Secondary to Spinal Metastases** – *Ajit Krishnaney*

11:10 a.m. **Impact of Targeted Therapy on Spine Metastases and their Treatment**
Mark Malkin

11:30 a.m. **Role of SRS in the Management for Oligometastatic Disease**
Eric Chang

11:50 a.m. **Does Brachytherapy have a Role in the Management of Spinal Tumors?** – *Thomas C. Chen*

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

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

Brain Metastases – Moderator: *Eric Chang*

1:30 p.m. **Brain Metastasis Tumor Microenvironment** – *Bodour Salhia*

1:50 p.m. **Advances in Surgery for Brain Metastases** – *Frank Attenello*

2:10 p.m. **Fractionated and Staged Radiosurgery for Large Brain Metastases**
Matthew Grabowski

2:30 p.m. **Neoadjuvant and Adjuvant Radiosurgery for Brain Metastases**
Jason Ye

2:50 p.m. **Refreshment Break/Exhibits/Posters**

3:10 p.m. **Clinical Trials of Radiosurgery for Brain Metastases** – *John Suh*

3:30 p.m. **Management of Radiation Necrosis** – *Samuel Chao*

3:50 p.m. **Advanced Imaging and Targeted Therapies for Brain Metastases**
Lindsay Hwang

4:10 p.m. **Immunotherapy for Primary Brain Tumors: Lessons Learned that may also Apply to Brain Metastases** – *David Tran*

4:30 p.m. **DEBATE: Surgery vs. Radiosurgery as Primary Treatment for Large Cerebellar Metastases** – *Gelareh Zadeh vs. Lilyana Angelov*

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

6–8 p.m. **Reception**

Sunday, November 5, 2023

24th Annual Brain Tumor Update

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

Technology and Brain Tumor Management – Moderator: *Gene Barnett*

9:30 a.m. **RANO Criteria** – *Patrick Wen*

9:50 a.m. **Gyroscopic Radiosurgery** – *F. David Barranco*

10:10 a.m. **LITT for Radiation Necrosis** – *Gene Barnett*

10:30 a.m. **Technological Advances in Parafascicular Surgery** – *Gabriel Zada*

Meningiomas – Moderator: *Steve Giannotta*

10:50 a.m. **Molecular Biology of Meningiomas: From the WHO Guidelines and Beyond** – *Anna Mathew*

11:10 a.m. **Contemporary Surgical Techniques for Meningioma** – *Pablo Recinos*

11:30 a.m. **Are All Benign Meningiomas the Same? Considerations in Management of WHO Grade I Meningiomas** – *Gelareh Zadeh*

11:50 a.m. **Watch and Wait or Radiate? Current Approaches for Incidental, Residual and High-grade Meningiomas** – *Varun Kshetry*

12:10 p.m. **The Role of Adjuvant Therapy in the Management of Recurrent Meningiomas** – *Mina Lobbous*

12:30 p.m. **Debate – Meningiomas with Edema in the Sick Patient: The Case for Surgery vs the Case for SRS** – *Gene Barnett vs Pablo Recinos*

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

Gliomas – Moderator: *David Peereboom*

1:50 p.m. **Advances in Systemic Treatment of Glioblastoma** – *Patrick Wen*

2:10 p.m. **Molecular Diagnostics in Gliomas** – *Alejandro Torres-Trejo*

2:30 p.m. **Taking Care of your Patient: Supportive Care in Management of Gliomas** – *Glen Stevens*

2:50 p.m. **Refreshment Break/Exhibits/Posters**

3:10 p.m. **Epigenetics of Malignant Glioma and Future Therapeutics**
Aram Modrek

3:30 p.m. **Cellular Therapy in Glioma** – *Mina Lobbous*

3:50 p.m. **Immunotherapy: What's on the Horizon for Gliomas** – *Frances Chow*

4:10 p.m. **Clinical Trials: Present and Future** – *David Peereboom*

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 \$299 per night with a daily resort fee of \$35 plus the current room tax. To secure this rate, you must make your reservation by Friday, September 29, 2023. Contact the hotel reservations department by phone at 877.632.5000 and mention the CCF Brain Mets Conference to obtain the special rate. To book online go to: <https://book.passkey.com/go/CCFBrainMetsConf>

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 11.25 *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 11.25 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 11.25 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, which includes participation in the evaluation component, enables the learner to earn credit toward the 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: 216.445.5431 or 800.223.2273 x55431 Email: 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 216.445.5431 or eatonl3@ccf.org at least two weeks prior to the activity.

Health and Safety

As participants are responsible for their own health choices, the use of masks by all participants at this event is optional. Please note this is subject to change based on the most recent status of CDC, local and/or state guidelines.

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/Surgeon:	\$495
International (practice outside USA) Physician/Surgeon:	\$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 27, 2023. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if canceled by October 20, 2023. After October 20, 2023, a \$50 cancellation fee will be deducted from your refund. **NO REFUNDS WILL BE ISSUED AFTER OCTOBER 27, 2023.** 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.

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.