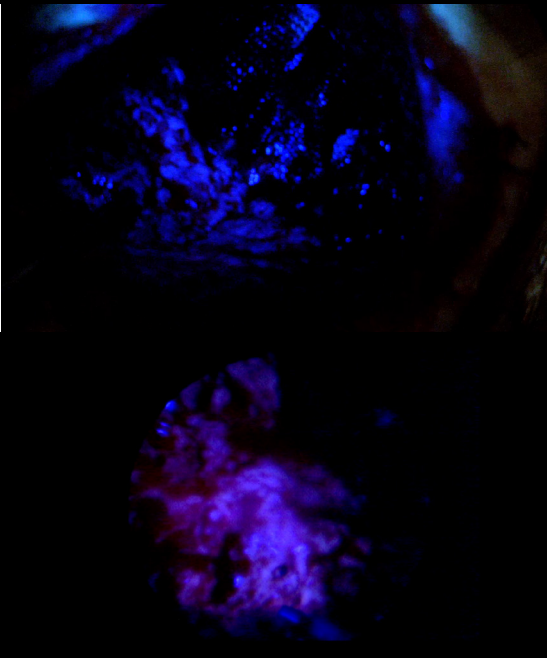
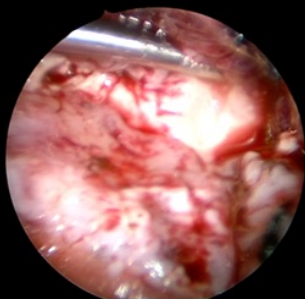
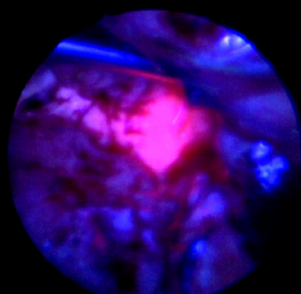
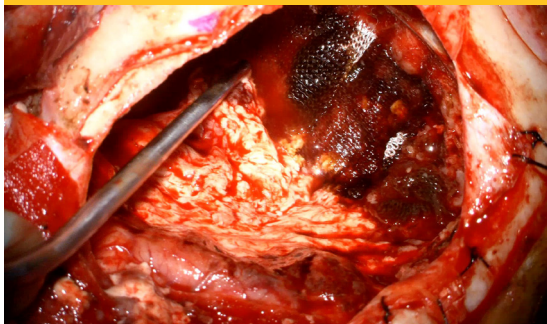


23rd Annual Brain Tumor Update and 12th Annual Symposium on Brain Metastases and Spine Tumors

July 29-30, 2022

JW Marriott Anaheim Resort
Hybrid Conference



Keck School of
Medicine of **USC**

*Presented by:
Cleveland Clinic and
USC Office of Continuing Medical Education*

PROGRAM AGENDA

Friday, July 29, 2022

Time Zone: PDT

7:00 am **Registration and Breakfast**
8:20 am **Welcome**
*Gene Barnett, MD, MBA and
Steven Giannotta, MD*

Gliomas

Moderator: *Frances Chow, MD*

8:30 am **Advanced Imaging of
Gliomas and 7T Imaging**
Mark S. Shiroishi, MD, MS

8:50 am **LITT for Gliomas**
Gene Barnett, MD, MBA

9:10 am **Immunotherapy for Gliomas**
Frances Chow, MD

9:30 am **Blue Light Endoscopy for
Gliomas**
Gabriel Zada, MD, MS

9:50 am **Break**

10:05 am **SRS for Gliomas:
Is There a Role?**
John Suh, MD

10:20 am **Pathology of Brain Tumors**
Kyle Hurth, MD, PhD

10:50 am **Update on Clinical Trials**
David Peereboom, MD

11:10 am **Pediatric GBM Trials**
Tom Belle Davidson, MD

11:30 am **Genomic Landscape in
Glioma**
Frank Attenello, MD, MS

11:45 am **Lunch**

Emerging Technology

Moderator: *Pablo Recinos, MD*

12:45 pm **IDH-Mutant Gliomas:
Mechanisms and Clinical
Implications**
Timothy Chan, MD, PhD

1:05 pm **Emerging Applications of
SRS**
Jason C. Ye, MD

1:25 pm **Tissue Capture**
Vahan Martirosian, PhD

1:45 pm **Endoscopic Skull Base
Surgery: Emerging Platforms**
Pablo Recinos, MD

2:05 pm **Emerging Drug Delivery
Platforms for Glioma**
Thomas C. Chen, MD, PhD

2:25 pm **Liquid Biopsy for CNS
Tumors**
Alejandro Torres-Trejo, MD

2:45 pm **Break**

3:00 pm **Frame Based vs. Frameless
Debate**
*Gennady Neyman, PhD and
Cheng Yu, MD*

3:20 pm **Prediction of GBM
Progression**
Wensha Yang, PhD

3:40 pm **Translational Therapies for
Brain Tumors**
Justin Lathia, PhD

4:00 pm **Gamma Tile and
Brachytherapy**
Lindsay Hwang, MD

4:20 pm **Focused Ultrasound**
Glen Stevens, DO, PhD

4:35 pm **Closing Remarks**

4:45 pm **Adjourn**

PROGRAM AGENDA

Saturday, July 30, 2022

Time Zone: PDT

7:15 am **Registration and Breakfast**

8:10 am **Virtual Login Begins**

Spine Tumors

Moderator: Patrick C. Hsieh, MD

8:30 am **Multicenter Outcomes for Spine Registry Database**

Lilyana Angelov, MD

8:50 am **Imaging of Spine Tumors**

Priya Rajagopalan, MD

9:10 am **Treatment Paradigms for Metastatic Spine Tumors**

Patrick C. Hsieh, MD

9:30 am **Systemic Therapies for Neoplastic Spine Disease**

Mina Lobbous, MD

9:50 am **Radiosurgery for Spinal Metastatic Tumors**

Eric L. Chang, MD

10:05 am **Spinal Tumor Board: Case Presentations**

Moderator: Ajit Krishnaney, MD

Panel: Patrick C. Hsieh, MD,

Eric L. Chang, MD,

Lilyana Angelov, MD and

Priya Rajagopalan, MD

10:25 am **Break**

10:40 am **Ablation for Spinal Metastases**

Hakan Ilaslan, MD

11:00 am **MIS Surgery for Spinal Tumors**

John C. Liu, MD

11:20 am **Complication Avoidance and Patient Selection for Spine Tumor Surgery**

Ajit Krishnaney, MD

11:40 am **When is Enough Enough? Palliation for Spinal Tumors**

Richard Schlenk, MD

11:55 am **Lunch**

Brain Metastasis

Moderator: Lilyana Angelov, MD

12:55 pm **Brain Metastases and the Microenvironment**

Josh Neman-Ebrahim, PhD

1:15 pm **Neoadjuvant Radiosurgery for Brain Metastasis**

Erin Murphy, MD

1:35 pm **Port-Based Surgical Resection of Brain Metastasis**

Gabriel Zada, MD, MS

1:55 pm **Staged Radiosurgery for Brain Metastasis**

Matthew M. Grabowski, MD

2:15 pm **Immunotherapy for Brain Metastasis**

Gino K. In, MD, MPH

2:35 pm **Break**

2:50 pm **Management of 4th Ventricular Brain Metastases: Shunt or No Shunt with SRS**

Jason C. Ye, MD

3:10 pm **Management of Radiation Necrosis**

Samuel Chao, MD

3:30 pm **SRS for the Resection Cavity**

Scott G. Soltys, MD

3:50 pm **Closing Remarks**

Gene Barnett, MD, MBA

4:00 pm **Adjourn**

FACULTY

SYMPOSIUM DIRECTORS

Keck School of Medicine of USC

Eric L. Chang, MD, FASTRO

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

SYMPOSIUM DIRECTORS

Cleveland Clinic

Gene Barnett, MD, MBA

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

David Peereboom, MD

Director, Clinical Research
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

Pablo Recinos, MD

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

John Suh, MD, FASTRO

Chair, Radiation Oncology

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Cleveland Clinic

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Wensha Yang, PhD

Keck School of Medicine of USC

Jason C. Ye, MD

Keck School of Medicine of USC

Cheng Yu, PhD

Keck School of Medicine of USC

COURSE DESCRIPTION

The 4th annual joint USC/CCF symposium focuses on "Advances in the Modern Management of Brain Tumors in 2022," and is a multidisciplinary conference led by expert faculty from the University of Southern California and the Cleveland Clinic Foundation, with additional guest faculty from major national academic institutions. The meeting covers the latest treatment strategies for the most commonly occurring brain and spine tumors, including spinal metastases, brain metastases, gliomas and emerging technologies. Disciplines involved include Neuro-Oncology, Neurosurgery, Neuro-Radiation Oncology, Neurology, Pathology, Radiology and Translational Medicine.

EDUCATIONAL OBJECTIVES

By the end of the course, participants will be able to:

- Incorporate evidence-based data to improve diagnostic and therapeutic management of brain and spine tumor patients.
- Describe the latest available treatments and emerging therapeutic approaches for brain and spinal tumors.
- Interpret the role of stereotactic radiosurgery in the treatment of brain metastases patients.
- Describe the latest multi-modality treatments and clinical trials for gliomas.

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.

ACCREDITATION STATEMENT

The Keck School of Medicine of the University of Southern California is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Keck School of Medicine of the University of Southern California designates this live activity for a maximum of 13.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credits commensurate with the extent of their participation in the activity.

The following may apply *AMA PRA Category 1 Credit(s)™* for license renewal: Registered Nurses may report up to 13.25 credit hour(s) toward the CME requirements for license renewal by their state Board of Registered Nurses (BRN). CME may be noted on the license renewal application in lieu of a BRN provider number.

Physician's Assistants: The National Commission on Certification of Physicians' Assistants states that *AMA PRA Category 1 Credits™* accredited courses are acceptable CME requirements for recertification.

COVID-19 GUIDELINES

COVID-19 guidelines issued by the Centers for Disease Control, Orange County and the University of Southern California will be strictly observed.

If live attendance is discouraged as conference date approaches, registrants will be able to continue participating virtually.

CANCELLATION POLICY

Registration cancellations not related to COVID-19 must be emailed to the USC Office of CME by July 26, 2022, 12:00 pm PDT for a refund. A \$50 cancellation fee will be applied for requests received after July 26.

In the event of course cancellation by conference organizers, all registration fees will be fully refunded. USC will not refund any travel costs incurred.

HOTEL INFORMATION

A room block will be available at the JW Marriott Anaheim Resort.

Room rate: \$259, if booked before July 7, 2022.

Reserve: <https://book.passkey.com/go/USCBrainandSpineMeeting>

Location: 1775 South Clementine Street, Anaheim, California 92802

REGISTRATION FORM

23rd Annual Brain Tumor Update and 12th Annual Symposium on Brain Metastases and Spine Tumors: July 29-30, 2022

Hybrid Conference: Live at the JW Marriott Anaheim Resort in Anaheim and Virtual through the online event platform, Whova.

TUITION

LIVE: Early-bird registration fees

MD/DO \$299

NP/PA/APP \$150

RN/AH \$150

Fellow/Resident/Student \$95

After July 26

\$350

\$200

\$200

\$95

VIRTUAL: Registration available until July 29, 2022, 10:00 am PDT.

Early-bird registration fees

MD/DO \$299

NP/PA/APP \$150

RN/AH \$150

Fellow/Resident/Student \$95

After July 26

\$350

\$200

\$200

\$95

Access to recording available for 30 days after the conference.

REGISTRATION

Mail: Office of CME, 1540 Alcazar Street, CHP 223, Los Angeles, CA 90033

Mail-in registration must be postmarked by July 26, 2022.

Online: <https://keckusc.cloud-cme.com/brainmets2022>. Visa or Mastercard only.

Phone: (323) 442-2555 | Fax: 1 (888) 665-8650- AMX, Mastercard, Visa

Email: usceme@usc.edu

On-Site: Live registration: Available July 29, 7:00 am, July 30 at 7:15 am, JW Marriott Anaheim

Virtual registration: Available until 10:00 am, PDT on July 29.

Visa or Mastercard: <https://keckusc.cloud-cme.com/brainmets2022>

Name _____

Degree _____ Medical License Number _____

Email Address* _____ Phone number _____

Address _____

City _____ State _____

Zip Code _____ Specialty _____

Institutional Affiliation _____

*Registration confirmation and event reminder will be emailed.

METHOD OF PAYMENT

No cash accepted.

Check (Check payable to USC. Check payment must be postmarked by July 26)

Credit Card (Mastercard or Visa. American Express by Fax/Mail/Phone)

Credit Card Number _____

Expiration Date _____ Security Code _____

Authorized Signature _____ Amount \$ _____





Keck School of Medicine of **USC**

Office of Continuing Medical Education

1540 Alcazar Street, CHP 223

Los Angeles, CA 90033



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12th Annual Symposium on Brain Metastases
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