In Joint Providership Present the

19th Annual
Brain Tumor Update

8th Annual
Symposium on Brain and Spine Metastases

October 28-29, 2017
The Cosmopolitan of Las Vegas

www.ccfcme.org/BrainMets17
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8th Annual
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About the Symposium
This symposium will examine the therapeutic strategies in the management of central nervous system tumors and metastases. The program will review the molecular biology of glioma and innovative therapeutic approaches in treatment of glioma and there will be additional focus on Vestibular Schwannomas. The Brain Tumor Partners in Care Session will enhance knowledge about brain tumor types, and treatments. Experts will present the latest data on management of survivorship needs, such as symptoms, coping, financial issues, palliative care and caregiving.

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
At the completion of this activity, the participant will be able to:
1. Discuss the roles of surgery, radiation therapy and systemic therapy in the management of central nervous system metastases.
2. Review the treatment options and management of Vestibular Schwannomas.
3. Discuss the innovative therapeutic approaches in treatment of gliomas.
4. Describe common tumor types, their effect on cerebral functions and their treatment.
5. Identify specific practical issues focusing on living with a brain tumor including: symptoms, caregiver needs, palliative care and financial aspects.
6. Provide management strategies for issues pertaining to living with a brain tumor.

Application will be submitted to The American Board of Radiology for partial SAM credit. Approval is pending.

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 poster format and content requirements on or before October 6, 2017.

Abstract Requirements
• Deadline date: September 29, 2017. 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

Manmeet Ahluwalia, MD, FACP
Director, Brain Metastasis Research Program
Rose Ella Burkhardt Brain Tumor and Neuro-Oncology

Gene Barnett, MD, MBA
Director, 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
Chairman, Radiation Oncology

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

American Brain Tumor Association Symposium Co-Director

Leticia J. Kees, MS
Director, Programs and Outreach

Faculty

Lilyana Angelov, MD
Cleveland Clinic

Mitchel Berger, MD
University of California, San Francisco

Joan Bieler
Northwestern Memorial Hospital

Mark Bilsky, MD
Memorial Sloan Kettering Cancer Center

Dan Brat, MD, PhD
Northwestern University
Feinberg School of Medicine

Samuel Chao, MD
Cleveland Clinic

Clark Chen, MD, PhD
University of Minnesota

Thomas Chen, MD, PhD
Keck School of Medicine of USC

Erin Dunbar, MD
Piedmont Brain Tumor Center

Jennifer Eschbacher, MD
Barrow Neurological Institute

John Fiveash, MD
University of Alabama at Birmingham

Rick Friedman, MD
Keck School of Medicine of USC

Ashley Ghiaseddin, MD
University of Florida Gainesville

Meng Law, MD
Keck School of Medicine of USC

Kathy Lupica, CNP
Cleveland Clinic

Alireza Mohammadi, MD
Cleveland Clinic

Erin Murphy, MD
Cleveland Clinic

Josh Neman, PhD
Keck School of Medicine of USC

Craig Pressley, MSW, LICSW, OSW-C
Beth Israel Deaconess Medical Center

Michael Steinmetz, MD
Cleveland Clinic

Steven Toms, MD, MPH
Brown Alpert Medical School

Michael Vogelbaum, MD, PhD
Cleveland Clinic

Naveed Wagle, MD
Keck School of Medicine of USC

Patrick Wen, MD
Dana-Farber Cancer Institute

Jean-Paul Wolinsky, MD
Northwestern University
Feinberg School of Medicine

Laura Zuckerman, APN-BC, AOCNP
Northwestern Medical Group
Saturday, October 28, 2017
8th Annual Symposium on Brain and Spine Metastases

A five-minute Q&A will be included in each presentation.

9:00 am Registration/Continental Breakfast/Exhibits
10:00 am Welcome and Introductions – Gene Barnett

Spinal Tumors and Metastases – Moderator: Michael Steinmetz
10:10 am Vertebral Augmentation and Quality of Life – Michael Steinmetz
10:30 am Spine Stabilization in Metastatic Spine Disease – Jean-Paul Wolinsky
10:50 am Single versus Hypo-fractionation Outcomes for Spine Tumors – Eric Chang
11:10 am Impact of Targeted Therapy on Spine Metastases and their Management – Mark Bilsky
11:30 am Building a Spine Radiosurgery Program – Lilyana Angelov
11:50 am Patient Selection: Surgery for Metastatic Spine Tumors – Michael Steinmetz
12:10 pm Debate: Surgery vs Radiosurgery for Spine Tumors – Jean-Paul Wolinsky vs. Lilyana Angelov
12:30 pm Buffet Lunch

Brain Metastases
Moderator: Samuel Chao
1:30 pm LITT in Management of Brain Metastases – Clark Chen
1:50 pm Mechanism of Brain Metastases – Steven Toms
2:10 pm Diagnosis and Treatment of Cerebral Radiation Necrosis – Samuel Chao
2:30 pm RANO Criteria in Brain Metastases – Patrick Wen
2:50 pm Refreshment Break/Exhibits/Posters
Moderator: Eric Chang
3:10 pm Linac-based Radiosurgery for Brain Metastases – John Fiveash
3:30 pm Debate: Brain Metastases (5 or more) Radiosurgery vs. Radiotherapy – Eric Chang vs. John Suh
3:50 pm Immunotherapy and Targeted Therapy in Brain Metastases – Ready for Prime Time – Manmeet Ahluwalia
4:10 pm Staged Radiosurgery – Lilyana Angelov
4:30 pm Parafascicular Surgery for Brain Metastases – Gabriel Zada
4:50 pm Adjourn
6:30 pm-9:30 pm Reception – Buses will depart the Cosmopolitan at 6:30 pm. The reception will begin at 7:00 pm.

Saturday, October 28, 2017
2017 Brain Tumor ‘Partners in Care’
Moderator: Leticia Kees
9:00 am Registration/Continental Breakfast/Exhibits
10:00 am Welcome and ABTA Overview – Leticia Kees

Brain Function and Tumor Treatment
10:10 am Brain Functions and how they Interact with Tumors and Treatments – Erin Dunbar
10:40 am Symptoms from Brain Tumors: How to Optimize your Functionality and Quality of Life – Erin Dunbar
11:10 am Metastatic Tumors: Treatments, Symptoms and Specific Issues – Manmeet Ahluwalia
11:50 am Translational Research Overview on Breast to Brain Metastases: Wolf in Sheep’s Clothing – Josh Neman
12:30 pm Buffet Lunch
Saturday, October 28, 2017 (continued from previous page)

2017 Brain Tumor ‘Partners in Care’

Symptom Management, Caregiver Needs and Financial Resources
1:30 pm  Symptom Assessment & Management of Fatigue – Ashley Ghiaseddin
2:10 pm  Seizure Management – Kathy Lupica
2:50 pm  Refreshment Break/Exhibits/Posters
3:10 pm  Palliative Care and End of Life Management – Joan Bieler
3:45 pm  Caregiver Needs and Self Care for the Healthcare Professional
         Laura Zuckerman
4:20 pm  Financial & Legal Resources for Brain Tumor Patients and Families
         Craig Pressley
4:55 pm  Evaluation and Adjourn
6:30 pm-  Reception – Buses will depart the Cosmopolitan at 6:30 pm. The reception will
9:30 pm  begin at 7:00 pm.

Sunday, October 29, 2017

19th Annual Brain Tumor Update

A five-minute Q&A will be included in each presentation.

9:00 am  Registration/Continental Breakfast/Exhibits

Vestibular Schwannomas & Hearing Preservation – Moderator: Steven Giannotta
9:30 am  Natural History of Untreated Vestibular Schwannomas: Growth Patterns and
         Hearing – Pablo Recinos
9:50 am  Hearing Outcomes After Surgery for Vestibular Schwannomas
         Steven Giannotta
10:10 am Radiosurgery for Vestibular Schwannomas – Samuel Chao
10:30 am Management of Vestibular Schwannomas in Neurofibromatosis-2 (NF-2)
         Rick Friedman
10:50 am Debate: Best Management Strategy – Moderator: Steven Giannotta
         Pablo Recinos – Observation
         Rick Friedman – Surgery
         Samuel Chao – Radiosurgery

Gliomas
Moderator: Manmeet Ahluwalia
11:10 am  Update on LITT for Gliomas – Alireza Mohammadi
11:30 am  Radiomics and Advanced Neuroimaging of Brain Tumors: Implications for
         Diagnosis, and Prognosticating Outcomes for Brain Tumors – Meng Law
11:50 am  Medical Treatment of Glioblastoma – Naveed Wagle
12:10 pm  Lunch Buffet

Moderator: Gene Barnett
1:10 pm  Resection and Mapping of Gliomas – Mitchel Berger
1:30 pm  New WHO Classification of Gliomas – Dan Brat
1:50 pm  Radiotherapy of Low Grade Glioma – Erin Murphy
2:10 pm  Refreshment Break/Exhibits/Posters
2:30 pm  Intraoperative MRI – Michael Vogelbaum
2:50 pm  In vivo Intraoperative Confocal Microscopy for Real-Time Histopathological
         Imaging of Brain Tumors – Jennifer Eschbacher
3:10 pm  Intranasal Brain Delivery for Brain Tumors – Thomas Chen
3:30 pm  Adjourn
**Location**
The Cosmopolitan of Las Vegas
3708 S. Las Vegas Blvd.
Las Vegas, NV  89109
Telephone: 702.698.7000

**Hotel Reservations**
A block of rooms has been reserved at The Cosmopolitan of Las Vegas for a special meeting rate of $249. A daily resort fee of $30 plus the current room tax will be charged in addition to the room rate. To secure this rate, you must make your reservation by **Monday, September 25, 2017**. Contact the hotel reservations department by phone at 702.698.7575 or 855.435.0005 or online at https://aws.passkey.com/go/SCCBM7. Please identify yourself as being part of the Cleveland Clinic meeting, Group Code SCCBM7, to obtain the special rate.

**Americans with Disabilities Act**
The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Shana Spade at 216.444.9380 or spades@ccf.org at least two weeks prior to the activity.

**Accreditation**
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 Cleveland Clinic Foundation Center for Continuing Education, Keck School of Medicine of USC and American Brain Tumor Association. The Cleveland Clinic Foundation Center for Continuing Education is accredited by the ACCME to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 10.25 **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 Academy of Nurse Practitioners (AANP) accepts **AMA PRA Category 1 Credits™** from organizations accredited by the ACCME.

American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for **AMA PRA Category 1 Credits™** from organizations accredited by the ACCME. Physician Assistants may receive a maximum of 10.25 hours of credit for completing these programs.

**Faculty Disclosure Statement**
The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

**Information**
For additional information: contact Shana Spade – 800.223.2273 ext. 49380
(e-mail) spades@ccf.org
Register Online At: www.ccfcme.org/BrainMets17

Two Ways to Register

**ONLINE**
www.ccfcme.org/BrainMets17

**BY PHONE**
CME Registration 216.448.8710

**Symposium Registration Fee - Two Days**
Symposium fee includes registration materials, continental breakfasts, lunches, and reception.

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<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Physician/Physician</td>
<td>$495</td>
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<tr>
<td>International (practice outside USA) Physician/Surgeon</td>
<td>$395</td>
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<tr>
<td>Resident*, Fellow*</td>
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<td>Non-Physician</td>
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<tr>
<td>Cleveland Clinic Alumni</td>
<td>$297</td>
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*Letter from program chairman or department chairman is required to receive the discounted Resident/Fellow registration.

**2017 Brain Tumor ‘Partners in Care – Saturday, October 28 ONLY**

| Non-Physician | $99 |

Registration and Cancellation Information

Register at www.ccfcme.org/BrainMets17. Deadline for registration for the symposium is 5:00 pm (EST), Monday, October 23, 2017. A request for a refund must be received by email by Friday, October 13, 2017. No refunds will be given after October 13, 2017. A $50 cancellation fee will be deducted from the refund for all cancellations.

**Please Note:** For questions about registration, please call 216.448.8710 or email cmeregistration@ccf.org.
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