COURSE DIRECTORS

Nader Pouratian, MD, PhD  
Associate Professor and Vice Chair  
Division of Functional Neurosurgery  
UCLA Department of Neurosurgery

Luke Macyszyn, MD, MA  
Assistant Professor  
Departments of Neurosurgery & Orthopaedics  
Associate Program Director, Neurosurgery  
Spinal Deformities and Tumor Surgery

GUEST SPEAKER

Henry Brem, MD  
Professor & Director of Neurosurgery  
Johns Hopkins Hospital

FACULTY  
David Geffen School of Medicine at UCLA

Ausaf Bari, MD, PhD  
Assistant Professor  
Neurosurgery

Marvin Bergsneider, MD  
Professor  
Neurosurgery

Manuel M. Buitrago Blanco, MD, PhD  
Assistant Professor  
Neurosurgery and Neurology

Meeryo Choe, MD  
Associate Director  
UCLA Steve Tisch BrainSPORT Program

Geoffrey Colby, MD, PhD  
Associate Professor  
Neurosurgery

Rich Everson, MD  
Assistant Professor  
Neurosurgery

Aria Fallah, MD, MSc  
Assistant Professor  
Neurosurgery

Itzhak Fried, MD, PhD  
Professor  
Neurosurgery

Christopher Giza, MD  
Professor  
Neurosurgery

Anthony Heaney, MD  
Associate Professor  
Neurosurgery and Endocrinology

Langston Holly, MD  
Professor  
Neurosurgery

Tania Kaprealian, MD  
Assistant Clinical Professor  
Radiation Oncology

Won Kim, MD  
Assistant Clinical Professor  
Neurosurgery

Albert Lai, MD  
Associate Professor  
Neurology

Jean-Philippe Langevin, MD  
Assistant Professor  
Neurosurgery

Linda Liau, MD, PhD, MBA  
Professor and Chair  
Neurosurgery

Daniel Lu, MD  
Associate Professor  
Neurosurgery

Paul Vespa, MD  
Professor  
Neurosurgery and Neurology

Anthony Wang, MD  
Assistant Professor  
Neurosurgery

Isaac Yang, MD  
Associate Professor  
Neurosurgery
COURSE DESCRIPTION

The Department of Neurosurgery at the David Geffen School of Medicine at UCLA presents its first annual comprehensive update on emerging diagnostic and treatment modalities for diseases of the brain and spine. This course will focus on primary and metastatic brain tumors, neurovascular disease, skull base lesions, movement disorders, spinal pathologies, as well as traumatic brain injury. Renowned faculty experts from neurosurgery, neuro-oncology, radiation oncology, and medicine will present novel treatment and management strategies to help healthcare professionals deliver the most advanced care to their patients. This two-day program will be delivered over seven sessions, each followed by a question and answer break, to encourage active participation by the audience and discussion of challenging cases.

TARGET AUDIENCE

This course is targeted toward neurosurgeons, medical oncologists, radiation oncologists, neurologists, allied health professionals, and neurosurgery, neurology and oncology residents and fellows.

COURSE OBJECTIVES

At the conclusion of this course, participants should be better able to:

• Recommend the most up-to-date diagnostic, surgical, and minimally invasive advances in the evaluation and treatment of patients with brain and spinal pathology
• Identify and implement optimal patient-specific therapies for patients with brain tumors
• Utilize appropriate neuromodulatory therapies for functional neurosurgical indications
• Compare the relative utility of distinct approaches for managing spinal disorders
• Review multidisciplinary approaches to intracranial disease in the pediatric population
• Differentiate the relative benefits of open, endovascular, and radiosurgical approaches to managing cerebrovascular disease
• Report a systematic approach to the multimodal management of brain trauma

ACCREDITATION

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this live activity for a maximum of 12 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements, under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

Disclosure: The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is "truly independent" and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, policy of the Accreditation Council for Continuing Medical Education mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. We at UCLA, fully endorse the letter and spirit of these concepts.

COURSE LOCATION

Loews Santa Monica Beach Hotel
1700 Ocean Ave, Santa Monica, CA 90401
310-458-6700

Accommodations
A block of rooms has been reserved at the Loews Santa Monica Beach Hotel at a special rate of $359 single or double occupancy per night plus taxes. Please call the Loews Reservation Center at 800-235-6397 and request the group rate for the UCLA Neurosurgery 2018 CME Event. To reserve online, please visit: https://www.loewshotels.com/santa-monica/neurosurgery-2018-cme-event. Confirmation of reservations made after March 12, 2018 is subject to availability.

Parking
Discounted valet day parking is $55.
Overnight valet parking is $50 plus tax.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:45</td>
<td>Registration and Breakfast</td>
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<tr>
<td>8:45</td>
<td>Course Director’s Welcome</td>
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<tr>
<td></td>
<td>Nader Pouratian, MD, PhD and Luke Macyszyn, MD, MA</td>
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<tr>
<td>9:00</td>
<td><strong>BRAIN TUMOR SESSION</strong></td>
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<td>Malignant Brain Tumors: State-of-the-Art Treatment</td>
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<td>Linda Liau, MD, PhD, MBA</td>
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<td>9:20</td>
<td>Recent Developments in Brain Tumor Therapy</td>
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<td>Henry Brem, MD</td>
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<tr>
<td>9:50</td>
<td>Updates on Adult Low-Grade Gliomas</td>
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<td>Albert Lai, MD</td>
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<tr>
<td>10:10</td>
<td><strong>Brain Metastasis: State-of-the-Art Treatment</strong></td>
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<td>Rich Everson, MD</td>
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<td>10:30</td>
<td>Q&amp;A</td>
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<td>10:35</td>
<td>Break</td>
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<tr>
<td>10:45</td>
<td><strong>Challenges to Developing New Therapies for Brain Tumors</strong></td>
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<td>Henry Brem, MD</td>
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<td>11:15</td>
<td>Advances in the Management of Meningiomas</td>
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<td>Isaac Yang, MD</td>
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<td>11:35</td>
<td><strong>VASCULAR SESSION</strong></td>
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<td>Diagnosis and Treatment of Moyamoya Disease</td>
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<td>Anthony Wang, MD</td>
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<tr>
<td>11:55</td>
<td>Lunch</td>
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<td>12:55</td>
<td>Advances in the Treatment of Cerebral Aneurysms</td>
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<td>Geoffrey Colby, MD</td>
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<td>1:35</td>
<td>Current Management Strategies for Arteriovenous Malformations of the Brain and Spinal Cord</td>
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<td>Anthony Wang, MD</td>
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MOVEMENT DISORDERS & EPILEPSY SESSION

1:55  Surgical Therapies for Movement Disorders: DBS, Ultrasound, and SRS
      Ausaf Bari, MD, PhD
2:15  Q&A
2:20  Break
2:30  New Technologies and Applications in Brain Stimulation
      Jean-Philippe Langevin, MD
2:50  Innovation in Epilepsy Surgery: Resection, Ablation, Disconnection, and Stimulation
      Itzhak Fried, MD, PhD
3:10  Surgical Management of Facial Pain and Headache
      Nader Pouratian, MD, PhD
3:30  Advances in Neuromodulation for Chronic Pain
      Ausaf Bari, MD, PhD
3:50  Q&A
4:20  Adjourn
5:30 - 7:30  Reception

SATURDAY • APRIL 14 • 2018

7:00  Breakfast
7:50  Course Director’s Greeting
      Nader Pouratian, MD, PhD and Luke Macyszyn, MD, MA

SPINE SESSION

8:00  Stereotactic Radiosurgery for Spinal Metastatic Disease
      Tania Kaprealian, MD
8:20  Lumbar MIS Decompression Alone or Fusion: When Less Is More, and When More Is Less
      Langston Holly, MD
8:40  Advanced Reconstruction Techniques for Spinal Deformity and Oncology
      Luke Macyszyn, MD, MA
9:00  Minimally Invasive Spine Surgery: Advanced Techniques & Novel Applications
      Daniel Lu, MD
9:20  Q&A
9:25  Break

PITUITARY & SKULL BASE SESSION

9:35  Surgical Resection of Pituitary & Suprasellar Tumors: Complication Avoidance
      Marvin Bergsneider, MD
9:55  Novel Medical Therapies for Pituitary Adenomas
      Anthony Heaney, MD
10:15 Endoscopic Approaches to Anterior and Lateral Skull Base Tumors
       Won Kim, MD
10:35 Open Surgical Approaches to Lateral Skull Base Tumors
       Anthony Wang, MD
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>10:55</td>
<td>Q&amp;A</td>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:10</td>
<td>Modern Advancements in the Surgical Treatment of Pediatric Epilepsy</td>
<td>Aria Fallah, MD, MSc</td>
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<tr>
<td>11:30</td>
<td>Unique Molecular Genetic Features of Pediatric Brain Tumors</td>
<td>Anthony Wang, MD</td>
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<tr>
<td>11:50</td>
<td>Lunch</td>
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<tr>
<td>12:50</td>
<td>Pediatric Spinal Deformities and Intraspinal Pathologies</td>
<td>Luke Macyszyn, MD, MA</td>
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<tr>
<td>1:10</td>
<td>The Role of Endoscopic Third Ventriculostomy and Choroid Plexus Cauterization to Treat Infantile Hydrocephalus</td>
<td>Aria Fallah, MD, MSc</td>
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<tr>
<td>1:30</td>
<td>Multimodality Monitoring and Outcomes after TBI</td>
<td>Paul Vespa, MD</td>
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<td>1:50</td>
<td>Sports Concussions</td>
<td>Meeryo Choe, MD</td>
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<tr>
<td>2:10</td>
<td>Q&amp;A</td>
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<tr>
<td>2:15</td>
<td>Break</td>
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<tr>
<td>2:25</td>
<td>Translational Studies for Pediatric TBI</td>
<td>Christopher Giza, MD</td>
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<tr>
<td>2:45</td>
<td>Recent Clinical Trial Highlights in Traumatic Brain Injury</td>
<td>Manuel M. Buitrago Blanco, MD, PhD</td>
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<td>3:05</td>
<td>Q&amp;A</td>
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<td>3:15</td>
<td>Conference Adjourns</td>
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Please print clearly

Specialty                      Degree

Name (First,Middle,Last)

Address

City,State,Zip

(Area Code) Business Phone       (Area Code) Fax Number

E-mail Address

Last 4 digits of your Social Security Number ____________________________

Course Enrollment Options

☐ Check enclosed, payable to: Regents of the University of California
☐ Please charge my credit card: ☐ AMEX  ☐ Discover  ☐ MasterCard  ☐ Visa

Card Number                      Exp.Date

Signature ____________________________

Mail completed enrollment form to:
Office of Continuing Medical Education
David Geffen School of Medicine at UCLA
UCLA Neurosurgery Update
10920 Wilshire Blvd., Suite 1060
Los Angeles, CA 90024

Fax enrollment form to: 310-794-2624

Register by phone with an American Express, Discover, MasterCard or Visa: 310-794-2620
Register online with an American Express, Discover, MasterCard or Visa:
www.cme.ucla.edu/courses

REFUNDS: Cancellations must be received in writing by March 9, 2018, and will be subject to a $50 processing fee. No refunds will be given after that date. If for any reason the course must be cancelled, discontinued, or rescheduled by the Office of CME, a full refund will be provided.