



Keck Medical Center of USC

Saturday, October 19, 2024
USC Health Sciences Campus
Aresty Conference Center
Hybrid Conference
8:00 am - 2:40 pm

**Advances in Deep Brain Stimulation:
Clinical Applications
and Emerging Research**

Keck School of Medicine of **USC**

Presented By:

*Department of Neurological Surgery, Department of Neurology,
Department of Psychiatry and Behavioral Sciences, and
the USC Office of Continuing Medical Education*



PROGRAM AGENDA

8:00 am **Live Registration Opens and Continental Breakfast**

8:45 am **Virtual Login Begins**

9:00 am **Welcome and Introductions**

Brian Lee, MD, PhD and Xenos Mason, MD

Clinical Applications of Deep Brain Stimulation

Moderator: Xenos Mason, MD

9:10 am **DBS for Parkinson's Disease**

Katherine Wong, MD

9:40 am **DBS for Essential Tremor and Dystonia**

Jennifer S. Hui, MD

10:00 am **Responsive Neurostimulation (RNS) for Epilepsy**

Ryan McGinn, MD

10:20 am **Break**

10:30 am **DBS for Obsessive-Compulsive Disorder (OCD) and Depression**

Adam Frank, MD, PhD

10:50 am **Neuropsychological Testing for DBS**

Andrew Petkus, PhD

11:10 am **DBS Education for Patients and Their Caregivers**

Nasrin Esnaashari, DPN, CSN, NP-C, CCRN

11:30 am **Patient Demonstration/DBS Programming/Medication Management**

Xenos Mason, MD

12:10 pm **Lunch**

Emerging Research in DBS

Moderator: Darrin J. Lee, MD, PhD

1:00 pm **DBS Surgery: Awake Versus Asleep MRI-Guided DBS Surgery**

Brian Lee, MD, PhD

1:15 pm **Focused Ultrasound: Established and Emerging Indications**

Darrin J. Lee, MD, PhD

1:30 pm **"Connectomic" DBS**

Xenos Mason, MD

1:45 pm **Pediatric Stereotactic Depth Electrode Placement for Movement Disorders**

Mark A. Liker, MD

2:00 pm **Brain Computer Interface (BCI) Technologies**

Brian Lee, MD, PhD

2:15 pm **DBS and Cognition**

Darrin J. Lee, MD, PhD

2:30 pm **Closing Remarks**

Brian Lee, MD, PhD and Xenos Mason, MD

2:40 pm **Optional Hands-On DBS Programming Instruction**

Adjourn

FACULTY

COURSE DIRECTORS

Brian Lee, MD, PhD

Co-Course Director

Director of Stereotactic and Functional Neurosurgery
Associate Director of the USC Neurorestoration Center
Departments of Neurological Surgery and
Biomedical Engineering
Keck School of Medicine of USC

Xenos Mason, MD

Co-Course Director

Assistant Professor of Clinical
Neurological Surgery and Neurology
Departments of Neurological Surgery
and Neurology
Keck School of Medicine of USC

PROGRAM ORGANIZING COMMITTEE

Darrin J. Lee, MD, PhD

Associate Director of the USC Neurorestoration Center
Assistant Professor
Departments of Neurological Surgery,
Psychiatry, and Biomedical Engineering
Keck School of Medicine of USC

Catherine Mark, BSN, RN

Nurse Coordinator
Department of Neurological Surgery
Keck Medical Center of USC

KECK SCHOOL OF MEDICINE OF USC

Nasrin Esnaashari, DNP, CNS, NP-C, CCRN

Clinical Assistant Professor of Neurology
Division of Movement Disorder

Mark A. Liker, MD

Assistant Professor of Clinical
Neurological Surgery
Department of Neurological Surgery

Adam Frank, MD, PhD

Assistant Professor of Clinical Psychiatry
and the Behavioral Sciences
Department of Psychiatry and
The Behavioral Sciences

Ryan McGinn, MD

Assistant Professor of Clinical
Neurology
Department of Neurology

Jennifer S. Hui, MD

Associate Professor of Neurology
Program Director, Neurology Residency
Department of Neurology
Keck Medical Center of USC

Andrew Petkus, PhD

Assistant Professor of Clinical
Neurology
Department of Neurology

Katherine Wong, MD

Assistant Professor of Clinical Neurology
Department of Neurology

COURSE DESCRIPTION

This Deep Brain Stimulation program is designed for healthcare professionals who manage the care of patients with movement disorders, epilepsy, and psychiatric disorders. This one-day course provides an overview of deep brain stimulation, including patient selection criteria, medical management, operative techniques, and post-operative programming, and emerging research. Attendees will participate in a series of interactive lectures by expert USC faculty and invited speakers, along with case presentations. Participants can attain and integrate new, practical information into their clinical practice on managing and improving outcomes in patients with movement disorders, epilepsy, and psychiatric disorders.

COURSE OBJECTIVES

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

- Identify when to refer patients to a deep brain stimulator program.
- Assess if their patient is qualified for DBS surgery workup.
- Discuss deep brain stimulator as a treatment option for movement disorders, epilepsy, and psychiatric patients.
- Outline the surgical workup for deep brain stimulation surgery.

TARGET AUDIENCE

This course is intended for neurologists, neurosurgeons, psychiatrists, primary care physicians and other healthcare professionals seeking to enhance their understanding of deep brain stimulation and learn about new research.

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 4.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit 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 4.75 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 Assistants: The National Commission on Certification of Physician Assistants states that *AMA PRA Category 1 Credits™* accredited courses are acceptable CME requirements for recertification.

REGISTRATION

Advances in Deep Brain Stimulation: Clinical Applications and Emerging Research: October 19, 2024

Early bird price for live and virtual registration ends October 15, 2024 at 12:00 pm, PDT. To register after October 15, 2024: Virtual registration adjusts to on-site price. For live registration, please register on-site.

Tuition: Choose one: Live Attendance Virtual Attendance

	Early Bird	After October 15
MD/DO	<input type="checkbox"/> \$125	<input type="checkbox"/> \$150
NP/PA/APP or RN/AH	<input type="checkbox"/> \$100	<input type="checkbox"/> \$125
Fellows/Residents/Students	<input type="checkbox"/> \$50	<input type="checkbox"/> \$50

Cancellation: Cancellations must be received by the USC Office of CME (fax or email) by October 15, 12:00 pm PDT for a refund. A \$50 cancellation fee will be applied. In the event of course cancellation by conference organizers, all registration fees will be fully refunded. USC will not refund any travel costs incurred.

Location: Catherine and Joseph Aresty Conference Center, in the lower ground level of the Harlyne J. Norris Cancer Research Tower on the USC Health Sciences Campus 1450 Biggy Street, Los Angeles, CA 90033

Parking: \$20 at Biggy Parking Structure (P8): 1334 Biggy Street, Los Angeles, CA 90033. Follow posted directions in the parking garage to pay. The Office of CME does not control parking in USC structures and is not responsible for parking issues or citations.

Register: **Mail:** 1540 Alcazar Street, CHP 223, Los Angeles, CA 90033
Mail-in registration must be postmarked by October 15, 2024.
Online: keckusc.cloud-cme.com/deepbrain2024
Phone: (323) 442-2555 | **Fax:** (323) 442-3734 **AMEX, Mastercard, Visa**
Email: uscme@usc.edu
On-site: **Live registration:** Available October 19, 8:00 am, PDT, Aresty Conference Center
Virtual registration: Available until 9:30 am, PDT, on October 19.
Visa or Mastercard: keckusc.cloud-cme.com/deepbrain2024

NAME _____ DEGREE _____

MEDICAL LICENSE NUMBER _____

TELEPHONE _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

SPECIALTY _____

EMAIL ADDRESS* _____

INSTITUTIONAL AFFILIATION _____

*Registration confirmation and event reminder will be emailed.

METHOD OF PAYMENT:

No cash payment accepted.

Check (Check payable to USC. Check payment must be postmarked by October 15, 2024)

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

CREDIT CARD NUMBER _____

EXPIRATION DATE _____ SECURITY CODE _____

AUTHORIZED SIGNER _____ AMOUNT \$ _____



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Office of Continuing Medical Education
1540 Alcazar Street, CHP 223
Los Angeles, CA 90033



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