



**Saturday, May 13, 2023**  
**Aresty Conference Center**  
Hybrid Conference  
7:00 am - 3:45 pm

**Deep Brain Stimulation (DBS):  
A Clinical Overview,  
Live Demonstration,  
and Mini-Symposium**

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*

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# PROGRAM AGENDA

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- 7:00 am **Live Registration Opens and Continental Breakfast**  
7:45 am **Virtual Login Begins**  
8:00 am **Welcome and Introductions**  
*Brian Lee, MD, PhD and Xenos Mason, MD*

## Applications of Deep Brain Stimulation

*Moderator: Brian Lee, MD, PhD*

- 8:15 am **DBS for Parkinson's Disease**  
*Xenos Mason, MD*  
8:45 am **DBS for Essential Tremor**  
*Jennifer S. Hui, MD*  
9:05 am **DBS for Dystonia**  
*Katherine Wong, MD*  
9:25 am **Break**  
9:40 am **Future Applications for DBS**  
*Darrin Lee, MD, PhD*  
10:10 am **DBS for Psychiatric Indications**  
*Adam Frank, MD, PhD*  
10:40 am **Neuromodulation for Epilepsy: DBS and RNS**  
*Janet Greenwood, PA*  
11:10 am **Poster Session**  
11:40 am **Lunch**

## Patient Workflow

*Moderator: Catherine Mark, BSN, RN*

- 12:40 pm **Patient Evaluation for DBS**  
*Katherine Wong, MD*  
1:00 pm **Neuropsychological Testing for DBS**  
*Andrew Petkus, PhD*  
1:20 pm **Patient Education/Support Group**  
*Nasrin Esnaashari, DNP, CNS, NP-C, CCRN*  
1:40 pm **Break**  
1:55 pm **Awake DBS Surgery**  
*Mark A. Liker, MD*  
2:15 pm **Asleep MRI-Guided DBS Surgery**  
*Brian Lee, MD, PhD*  
2:35 pm **DBS Programming/Medication Management (+ Patient Demonstration)**  
*Xenos Mason, MD*  
3:35 pm **Closing Remarks**  
*Brian Lee, MD, PhD and Xenos Mason, MD*  
3:45 pm **Adjourn**

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# 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

### Faculty

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

Clinical Assistant Professor of Neurology  
Division of Movement Disorder

### **Jennifer S. Hui, MD**

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

### **Adam Frank, MD, PhD**

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

### **Mark A. Liker, MD**

Assistant Professor of Clinical  
Neurological Surgery  
Department of Neurological Surgery

### **Janet Greenwood, PA**

Clinical Instructor of Neurology  
Department of Neurology

### **Andrew Petkus, PhD**

Assistant Professor of Clinical  
Neurology  
Department of Neurology

### **Katherine Wong, MD**

Assistant Professor of Clinical Neurology  
Department of Neurology

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## COURSE DESCRIPTION

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This DBS 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 and optimization of therapy prior to DBS surgery, operative techniques and post-operative programming. This course describes and demonstrates complete patient workup and workflow through a comprehensive DBS center. Participants will attend 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.

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## COURSE OBJECTIVES

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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 a good candidate for DBS surgery workup.
- Discuss deep brain stimulator as a treatment option for movement disorders, epilepsy, and psychiatric patients.
- Outline the surgical workup for DBS surgery.

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## TARGET AUDIENCE

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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 how patients are selected, navigated and treated throughout the process of DBS.

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## ACCREDITATION STATEMENT

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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.

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## CREDIT DESIGNATION

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The Keck School of Medicine of the University of Southern California designates this live activity for a maximum of 6.25 *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 6.25 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 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 FORM

Deep Brain Stimulation (DBS): A Clinical Overview, Live Demonstration, and Mini-Symposium: Hybrid Conference: May 13, 2023

Live or Virtual Early-Bird Registration: Closes May 9, 2023 at 12:00 pm PDT  
Tuition: Choose one: ☐ Live Attendance ☐ Virtual Attendance  
☐ \$125 MD/DO ☐ \$100 NP/PA/APP ☐ \$100 RN/AH ☐ \$50 Resident/Fellow

On-Site Registration: May 13, 2023 at 7:00 am PDT  
\$150 MD/DO \$125 NP/PA/APP \$125 RN/AH \$50 Resident/Fellow

Cancellation: Cancellations must be received by the USC Office of CME (fax or email) by May 9, 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

Register: Mail: 1540 Alcazar Street, CHP 223, Los Angeles, CA 90033  
Mail-in registration must be postmarked by May 9, 2023.  
Online: [keckusc.cloud-cme.com/deepbrain2023](https://keckusc.cloud-cme.com/deepbrain2023)  
Phone: (323) 442-2555 | Fax: 1 (888) 665-8650 AMEX, Mastercard, Visa  
Email: [usccme@usc.edu](mailto:usccme@usc.edu)  
On-site: Live registration: Available May 13, 7:00 am, PDT, Aresty Conference Center  
Virtual registration: Available until 9:30 am, PDT, on May 13.  
Visa or Mastercard: [keckusc.cloud-cme.com/deepbrain2023](https://keckusc.cloud-cme.com/deepbrain2023)

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 May 9, 2023)
- ☐ 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 \$ \_\_\_\_\_

COURSES ARE SUBJECT TO CANCELLATION.



# Keck School of Medicine of USC

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



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Non-Profit  
U.S. Postage  
PAID  
University  
of Southern  
California