



**Saturday, October 2, 2021**

Virtual Conference

7:30 am - 1:00 pm

**Annual  
Southern California Pituitary  
Symposium at USC**

Keck School of Medicine of **USC**

*Presented By:*

*USC Department of Medicine: Division of Endocrinology, USC Departments of  
Neurology and Neurosurgery and USC Office of Continuing Medical Education*

# PROGRAM AGENDA

7:30 am **Conference Login Begins**

7:50 am **Welcome**

*John Carmichael, MD and Gabriel Zada, MD, MS*

## Session I:

*Moderator: John Carmichael, MD*

8:00 am **Pathology of Pituitary Tumors**

*Kyle M. Hurth, MD, PhD*

8:20 am **Pathogenesis of Pituitary Adenomas**

*Shlomo Melmed, MD, ChB*

8:40 am **Modern Techniques in Pituitary Surgery**

*Gabriel Zada, MD, MS*

9:00 am **Craniopharyngioma**

*Theodore H. Schwartz, MD*

9:20 am **Multimodal Treatment Strategies for Giant Pituitary Adenomas**

*Alexander Micko, MD, PhD*

9:40 am **Question and Answer Session**

10:00 am **Break**

## Session II:

*Moderator: Gabriel Zada, MD, MS*

10:20 am **Prolactinoma's - Not Always Easy to Treat**

*Mark E. Molitch, MD*

10:40 am **Apoplexy Management**

*Jake Ruzevick, MD*

11:00 am **Acromegaly: Medical Management**

*Susan L. Samson, MD, PhD*

11:20 am **What's New in Hypopituitarism**

*John Carmichael, MD*

11:40 am **Cushing's Disease-Surgical Considerations**

*Edward R. Laws, Jr., MD*

12:00 pm **Optimizing Medical Therapy of Patients with Cushing's Syndrome- An Update**

*Maria Fleseriu, MD*

12:20 pm **SRS for PAS**

*Jason P. Sheehan, MD, PhD*

12:40 pm **Question and Answer Session**

1:00 pm **Adjourn**

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# FACULTY

## COURSE DIRECTORS

Keck Medicine of USC

### **John Carmichael, MD**

Associate Professor of Clinical Medicine  
Co-Director, USC Pituitary Center  
Department of Medicine  
Keck School of Medicine of USC  
Los Angeles, CA

### **Gabriel Zada, MD, MS, FAANS, FACS**

President, Keck School of Medicine  
Faculty Council  
Professor of Neurological Surgery,  
Otolaryngology and Internal Medicine  
Surgical Director, USC Brain Tumor Center  
Associate Residency Program Director  
Department of Neurological Surgery  
Keck School of Medicine of USC  
Los Angeles, CA

## FACULTY

### **Maria Fleseriu MD, FACE**

Professor of Medicine (Endocrinology)  
and Neurological Surgery  
Director of Pituitary Center  
Oregon Health and Science University  
Portland, OR

### **Kyle M. Hurth, MD, PhD**

Assistant Professor of Clinical Pathology  
Medical Director, Immunohistochemistry  
Laboratory  
Department of Pathology  
Keck School of Medicine of USC  
Los Angeles, CA

### **Edward R. Laws, Jr., MD, FACS**

Professor of Neurosurgery  
Harvard Medical School  
Director, Pituitary/Neuroendocrine Center  
Brigham & Women's Hospital  
Boston, MA

### **Shlomo Melmed, MD, ChB, FRCP, MACP**

Executive Vice President and  
Dean of the Medical Faculty  
Distinguished Professor of Medicine  
Cedars Sinai Medical Center  
Los Angeles, CA

### **Alexander Micko, MD, PhD**

Medical University of Vienna  
Vienna, Austria

### **Mark E. Molitch, MD**

Professor Emeritus  
Division of Endocrinology, Metabolism &  
Molecular Medicine  
Northwestern University  
Feinberg School of Medicine  
Chicago, IL

### **Jack Ruzevick, MD**

Neurosurgery Fellow

### **Susan L. Samson, MD, PhD, FRCPC, FACE**

Senior Associate Consultant  
Departments of Medicine and  
Neurological Surgery  
Brain Tumor Program  
Mayo Clinic in Florida  
Jacksonville, FL

### **Theodore H. Schwartz, MD**

David and Ursel Barnes  
Professor in Minimally Invasive Surgery  
Director of the Center for  
Epilepsy and Pituitary Surgery  
Co-Director of Surgical Neuro-Oncology  
Weill Cornell Medicine  
New York, NY

### **Jason P. Sheehan, MD, PhD**

Professor of Clinical Neurology  
Department of Neurological Surgery  
University of Virginia  
Charlottesville, VA

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## COURSE DESCRIPTION

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Management of pituitary tumors and related pituitary disorders is a rapidly changing field with advances in surgical techniques, improvements in radiation oncology practices and novel medications. A multi-modal approach toward care is essential and many health care providers need to know fundamental information on diagnosis and treatments to effectively care for patients, refer appropriate patients, and immerse themselves deeply in the care of the patients for their long-term care and monitoring. This virtual conference offers multiple lectures from specialists in neuro-endocrinology and neurosurgery and will present evidence-based and practical approaches toward the diagnosis and management of patients with pituitary tumors and related pituitary hormone disorders.

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## EDUCATIONAL OBJECTIVES

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

- Illustrate the general principles of diagnosis, treatment and management of pituitary tumors, including acromegaly, Cushing's disease, prolactinomas and nonfunctioning pituitary tumors.
- Evaluate and select the appropriate diagnostic test to confirm the diagnosis of pituitary tumors and related pituitary disorders.
- Recognize the difficulties in the diagnosis and interpretation of test results in pituitary tumors and related pituitary disorders.
- Describe the clinical, radiologic and pathological definition of an aggressive pituitary tumor and discuss management options for patients.
- Review the anatomy of the pituitary region and anterior skull base and discuss the advantages of endoscopic endonasal surgery for pituitary tumors.

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## TARGET AUDIENCE

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This course is intended for endocrinologists, neurosurgeons, radiation oncologists, medical oncologists, primary care physicians, ophthalmologists, advanced practicing clinicians and other sub-specialists and allied health professionals who desire to update their knowledge and competence in the diagnosis and treatment of the pituitary tumors and disorders.

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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 5 *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 5 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.

## REGISTRATION FORM

### Annual Southern California Pituitary Symposium at USC

Virtual Conference - October 2, 2021

#### Tuition:

**Registration closes October 2, 2021, at 9:00 am PDT.**

- ☐ \$75 MD/DO
- ☐ \$50 NP/PA/APP
- ☐ \$50 RN/AH
- ☐ Complimentary: Non-CME Attendance

#### Cancellation:

Cancellations must be received by the USC Office of CME (fax or email) by September 27, 12:00 pm PDT for a refund. In support of health care professionals' need for flexibility during COVID-19, cancellation fees are waived for a full refund. In the event of course cancellation by conference organizers, all registration fees will be fully refunded.

#### Location:

Virtual Conference

#### Register:

**Mail:** 1540 Alcazar Street, CHP 223, Los Angeles, CA 90033  
Mail-in registration must be postmarked by September 27, 2021.  
**Online:** [keckusc.cloud-cme.com/pituitary2021](https://keckusc.cloud-cme.com/pituitary2021). Visa or Mastercard only.  
**Phone:** (213) 220-5168 | **Fax:** 1 (888) 665-8650  
**Email:** [usccme@usc.edu](mailto:usccme@usc.edu)

Registration will be available the morning of the conference until 9:00 am, PDT.  
Register at [keckusc.cloud-cme.com/pituitary2021](https://keckusc.cloud-cme.com/pituitary2021), Visa or Mastercard only.

NAME \_\_\_\_\_ DEGREE \_\_\_\_\_

MEDICAL LICENSE NUMBER \_\_\_\_\_

TELEPHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_  
STREET

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 September 20, 2021)
- ☐ Credit Card (Mastercard or Visa online, American Express by Fax/Phone)

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  
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University  
of Southern  
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