



2nd Annual Neurovascular Symposium:  
Innovations in Neuroendovascular  
Surgery and Practice

UCSF Department of Radiology  
and Biomedical Imaging

THURSDAY – SATURDAY

**March 19-22, 2025**

Grand Hyatt Indian Wells Resort and Villas  
Indian Wells, CA

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2025

## OVERVIEW

This course for neurointerventionalists, cerebrovascular and endovascular neurosurgeons, vascular neurologists, and scientists will provide an update on the rapidly developing field of neuroendovascular surgery and related sciences. Beginning with embryology and molecular genetics for key neurovascular diagnoses, we will then broaden our view to development in normal and disease states, implications for current treatment approaches, and research directions. Eminent faculty will teach in an informal, interactive format. In addition to lectures, there will be opportunities for one-on-one and small group mentorship as well as time for recreational activities in the lovely setting of Palm Springs.

## LECTURE SESSION FORMAT

Invited speakers will prepare a didactic lecture of 8-10 minutes in length, and follow this with a 5 minute case presentation that links to the concepts introduced in the lecture. In addition, each session will have an expert panel to ask questions of the speakers and foster discussion with audience participation for 8-10 minutes after each talk. At the end of each session there will be a 15-20 minute focused case presentation and discussion highlighting a clinical correlation of one or more of the topics discussed in the session, presented by the chair of the expert panel.

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## COURSE OBJECTIVES

An attendee completing this course should be able to:

- Improve endovascular techniques and treatment of cerebral arteriovenous malformations and fistulas
- Incorporate the latest evidence in pathology, natural history, and treatment for central nervous system disorders
- Apply updated anatomical and pathophysiologic knowledge regarding the development of intracranial vasculature and its abnormalities to the understanding of pediatric and adult cerebrovascular disease.
- Incorporate into practice the latest techniques in the management of intracranial aneurysms
- Improve the management of acute stroke using the most up-to-date data and studies;
- Recognize and understand the nuances of surgical and interventional management in arteriovenous shunting disorders
- Improve patient outcomes through medical and surgical management of intracranial hemorrhagic disorders
- Provide modern management of cerebrovascular disorders based on current data
- Use modern management techniques in the management of team-building for comprehensive neurointerventional services

#### COURSE CHAIRS

**Steven W. Hetts, MD, FACR**

Professor of Radiology and Biomedical Imaging, and of Neurological Surgery  
University of California, San Francisco

**Daniel Raper, MBBS**

Assistant Professor of Neurological Surgery, Radiology and Biomedical Imaging  
University of California, San Francisco

#### GUEST FACULTY

**Dina Chon**

Executive Director  
The Aneurysm and AVM Foundation (TAAF)  
San Francisco, CA

**Marianne S. Clancy, MPA**

Executive Director and Senior Director,  
Strategic Partnerships  
Cure HHT, Monkton, MD

**Seon-Kyu Lee, MD, PhD**

Professor of Radiology and of Neurosurgery, Albert Einstein College of Medicine; Director, Pediatric Neurointervention, Montefiore; Program Director, Endovascular Neurosurgery/Interventional Neuroradiology Fellowship, Bronx, NY

**Michael Levitt, MD**

Professor of Neurological Surgery and of Radiology  
University of Washington School of Medicine, Seattle, WA

**Adel M. Malek, MD, PhD, MBA, FAANS**

Professor of Neurosurgery, Neurology, and Radiology  
Tufts University School of Medicine, Boston, MA  
Chief, Neurovascular Surgery  
Director, Cerebrovascular and Endovascular Division, Department of Neurosurgery  
Tufts Medical Center, Boston, MA

**Charles E. Stout, MD, PhD**

Director of Neurointerventional Surgery  
Riverside Community Hospital,  
Riverside CA  
President and CEO of California  
Neurointerventional Surgeons (CNS)

**Michihiro Tanaka, MD**

Director of Neurocenter,  
Department of Neurosurgery and  
Neuroendovascular Surgery  
Kameda Medical Center, Chiba, Japan

#### UCSF FACULTY

**Daniel Cooke, MD**

Associate Professor, Departments of Neurosurgery and of Radiology and Biomedical Imaging

**Cathra Halabi, MD**

Associate Professor of Neurology  
Neurorecovery Program Chief,  
Neurovascular Division  
Founding Director, Neurorecovery Clinic

**Anthony Kim, MD, MS**

Professor of Neurology  
Erich Fried Endowed Professor of Vascular Neuroscience

**Sasha Mortezaei**

Associate Chair and Chief  
Administrative Officer  
Department of Neurological Surgery

**Kazim Narsinh, MD**

Assistant Professor, Departments of Radiology and Biomedical Imaging and of Neurological Surgery

**Stanley B. Prusiner, MD**

Professor of Neurology  
Director, Institute for Neurodegenerative Diseases

**David Saloner, PhD**

Professor of Radiology and Biomedical Imaging

**Luis Savastano MD, PhD**

Assistant Professor of Neurological Surgery

**Ethan Winkler, MD, PhD**

Assistant Professor of Neurological Surgery

faculty



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# 2nd Annual Neurovascular Symposium: Innovations in

## Wednesday, March 19, 2025

4:00-6:00 pm *Registration and Continental Breakfast*

6:00-7:30 pm *Welcome Reception*

## Thursday, March 20, 2025

7:00 am *Registration and Breakfast*

7:50 **Welcome and Overview**

*Course Chairs*

### **SESSION I- FRONTIERS IN NEUROINTERVENTION: ISCHEMIC**

**Session Chair: Luis Savastano, MD**

8:00 **Neuroanatomy of the MCA – Implications for Stroke Thrombectomy** Michihiro Tanaka, MD

8:20 **Physiologic Strategies for Neuroprotection During Stroke Thrombectomy** Anthony Kim, MD

8:40 **Cellular/Mitochondrial Transplantation in Stroke** Michael Levitt, MD

9:00 **AI in Stroke Imaging and Treatment** Daniel Raper, MBBS

9:20 **Upcoming/Recent Stroke Trials** Anthony Kim, MD

9:40 **Top 3 Stroke Updates for 2025: What You Need to Know** Luis Savastano, MD

10:00 *Coffee Break*

### **SESSION II- FRONTIERS IN NEUROINTERVENTION: SUBDURAL HEMATOMAS, TBI, AND TUMORS**

**Session Chair: Kazim Narsinh, MD**

10:20 **Subdural Hematoma Embolization: Trials and Evidence** Kazim Narsinh, MD

10:40 **Subdural Hematoma Evacuation: Trials and Evidence** Luis Savastano, MD

11:00 **Evaluation of Traumatic Brain Injury in the Clinic** Cathra Halabi, MD

11:20 **Longitudinal Neurovascular, Neuropsychiatric, and Other Considerations After TBI** Cathra Halabi, MD

11:40 **Vascular Dysfunction in Neurodegeneration** Stanley Prusiner, MD

12:00 pm **Endovascular and Focused Ultrasound Treatments of Brain Tumors** Kazim Narsinh, MD

12:20 **Top 3 Tumor Updates for 2025: What You Need to Know** Kazim Narsinh, MD

12:40 *Adjourn*

*Afternoon free – recreation time*

*Optional Product Theater (Industry-Supported Presentations)*

5:30 **Share Your Cases: Faculty and Attendee Case Presentation and Discussion** Seon-Kyu Lee, MD

7:00 pm *Adjourn*

## Friday, March 21, 2025

7:00 am *Breakfast*

### **SESSION III- FRONTIERS IN NEUROINTERVENTION: HEMORRHAGIC**

**Session Chair: Steve Hetts, MD**

8:00 **Neuroanatomy of ICH: Charcot-Bouchard, Perforators, Lenticulostrates** Michihiro Tanaka, MD

8:20 **Hemodynamics in Relation to the Evolution of Cerebral Vascular Pathology** David Saloner, PhD

8:40 **Advanced Imaging of Aneurysms to Detect Risk of Growth and Rupture** David Saloner, PhD

9:00 **ICH intervention for the Neurosurgeon** Michael Levitt, MD

9:20 **ICH intervention for the Non-neurosurgeon** Daniel Cooke, MD

9:40 **Top 3 Aneurysm Updates for 2025: What You Need to Know** Steve Hetts, MD

10:00 *Coffee Break*

# Neuroendovascular Surgery and Practice

Friday, March 21, 2025 (cont'd)

## SESSION IV- BALANCING INNOVATION AND PATIENT SAFETY

Session Chair: Daniel Raper, MBBS

10:20	<b>Balancing Academic Investigation with Industry Relationships</b>	Steve Hetts, MD
10:40	<b>Building a Culture of Innovation</b>	Steve Hetts, MD
11:00	<b>Bridging the Gap from Idea to Product</b>	Adel Malek, MD, PhD, MBA
11:20	<b>Starting Up Your Own Company</b>	Adel Malek, MD, PhD, MBA
11:40	<b>How to Talk to and Enroll Patients in Clinical Trials</b>	Daniel Cooke, MD
12:00 pm	<b>Responsible Use of Robotics in NIR</b>	Daniel Cooke, MD
12:30	<i>Adjourn</i> <i>Afternoon free – recreation time</i> <i>Optional Product Theater (Industry-Supported Presentations)</i>	
5:30	<b>Share Your Cases: Faculty and Attendee Case Presentation and Discussion</b>	Seon-Kyu Lee, MD
7:00 pm	<i>Adjourn</i>	

Saturday, March 22, 2025

7:00 am *Breakfast*

## SESSION V- NEUROENDOVASCULAR PRACTICE BUILDING

Session Chair: Daniel Cooke, MD

8:00	<b>Integration of Multi-specialty Practice</b>	Charles Stout, MD, PhD
8:20	<b>Balancing Clinical, Research, and Call Responsibilities</b>	Ethan Winkler, MD
8:40	<b>Financial Models for Neurointerventional Teams in 2024</b>	Charles Stout, MD, PhD
9:00	<b>Working with Patient Advocacy Organizations</b>	Dina Chon Marianne Clancy, MPA
9:40	<i>Coffee Break</i>	
10:00	<b>Strategies for Practice Expansion – Outreach and Peripheral Site Coverage</b>	Daniel Raper, MBBS
10:20	<b>Hospital Negotiation for Neurointerventional Teams</b>	Sasha Mortezaei
10:40	<b>Neurosurgeons, Radiologist, and Neurologists – Perspectives</b>	Panel Discussion
11:00	<b>Top 3 AVM Updates for 2025: What You Need to Know</b>	Ethan Winkler, MD
11:20	<b>Final Wrap-Up and Course Evaluation</b>	
11:30 am	<i>Adjourn</i>	

### GENERAL INFORMATION

Advanced registration closes on March 17, 2025. Onsite registration fees, if applicable, will be applied after this date.

#### Registration Fees:

##### Early Bird By 12/31/24

\$575 Physicians  
\$475 Advanced Practice Professionals/Nurses  
\$375 Residents/Fellows

##### Regular Fee After 12/31/24

\$650 Physicians  
\$550 Advanced Practice Professionals/Nurses  
\$450 Residents/Fellows

##### On Site Fee After 3/17/25

\$700 Physicians  
\$600 Advanced Practice Professionals/Nurses  
\$500 Residents/Fellows

**On-Site Registration:** Generally we are able to accommodate on-site registration at our courses however pre-registration is preferred to ensure that we have adequate course materials.

### SYLLABUS

The syllabus will be distributed electronically approximately 1 week prior to the course.

#### REFUND POLICY

Cancellations received in writing before by **March 18, 2025** will be refunded, less a **\$100** administrative fee. No refunds will be made on cancellations received after that date.

#### REGISTER VIA:

**Online:** [radiology.ucsf.edu/cme](http://radiology.ucsf.edu/cme)

**Mail:** Complete course registration form and send with payment to:  
**UCSF Office of Continuing Medical Education**  
Box 0742 • 490 Illinois Street, Floor 7  
San Francisco, CA 94143

**Phone:** To register by phone or to inquire about registration status, please call UCSF CME Registration Office at (415) 476-5808

Payment can be made by check, Visa, MasterCard, or AmEx.

Please check our website for up-to-date information on the course: [radiology.ucsf.edu/cme](http://radiology.ucsf.edu/cme)

### ACCREDITATION

In support of improving patient care, the University of California, San Francisco is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Physicians

UCSF designates this live activity for a maximum of **15.00 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the live activity.

### Nurses

For the purpose of recertification, the American Nurses Credentialing Center accepts **AMA PRA Category 1 Credit™** issued by organizations accredited by the ACCME.

### Physician Assistants

AAPA accepts category 1 credit from AOACME, Prescribed credit from AAFP, and AMA category 1 credit™ for the PRA for organizations accredited by the ACCME.

### Pharmacy

The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for **AMA PRA Category 1 Credit™**.



### CONFERENCE LOCATION

Surrounded by four picturesque mountain ranges and long sought-after by travelers for its inspiring scenery and sense of adventure, Greater Palm Springs is Southern California's most storied resort oasis. Greater Palm Springs encompasses nine cities in the Coachella Valley — Palm Springs, Desert Hot Springs, Cathedral City, Rancho Mirage, Palm Desert, Indian Wells, La Quinta, Indio, and Coachella — each offering its own blend of experiences as endless as their blue skies. With an average of 350 days of sunshine a year and fed by a deep underground aquifer, the desert gushes to life in regal palm groves and fabulous swimming pools.

Nestled in a cove of the Santa Rosa Mountains, the **Grand Hyatt Indian Wells Resort and Spa** offers a variety of world-class accommodations, total wellness services, and outdoor recreation opportunities. Experience a brand-new water park with a lazy river, splash pad, and dueling water slides, making it the ultimate year-round destination.

A block of guestrooms has been reserved at the special UCSF conference rate starting at **\$379/night** plus a discounted \$25 nightly resort fee. You are urged to make your reservations early. The cut-off date is **February 26, 2025**, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only. To make hotel reservations on-line, go to **[radiology.ucsf.edu/cme](https://radiology.ucsf.edu/cme)** and click on the hotel link in the Travel & Lodging section of the course webpage.

*By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable. Please take this into consideration when making your accommodation decisions.*

### UNITED AIRLINES

UCSF has negotiated special fares with United Airlines for our course attendees. Please visit the TRAVEL AND LODGING section on the course webpage at **[radiology.ucsf.edu/cme](https://radiology.ucsf.edu/cme)** for more information the link to make reservations.



**UCSF Radiology Annual Review**

April 28 — May 2, 2025

Virtual-Online (Live)

**Imaging Update in Alaska**

July 21-25, 2025

Alyeska Resort – Girdwood, AK

**Imaging Update in Sorrento**

September 8-13, 2025

Hilton Sorrento Palace – Sorrento, Italy

**Imaging Warm Up in Puerto Rico**

December 8-12, 2025

Fairmont El San Juan – San Juan, PR

upcoming  
courses

**UCSF**

For more information or to register online visit our website at [radiology.ucsf.edu/cme](http://radiology.ucsf.edu/cme). You may also reach us by contacting the Office of Continuing Medical Education at [tiny.ucsf.edu/cmehelp](mailto:tiny.ucsf.edu/cmehelp) or call (415) 476-5808.

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**UCSF**

Department of Radiology  
and Biomedical Imaging

University of California, San Francisco  
Office of CME • Box 0742  
490 Illinois Ave, Floor 7  
San Francisco, CA 94143



COURSE REGISTRATION FORM

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Mail to : UCSF Office of CME • Box 0742  
490 Illinois Street, Floor 7  
San Francisco, CA 94143

Register online: [radiology.ucsf.edu/cme](http://radiology.ucsf.edu/cme)  
For support, please visit [tiny.ucsf.edu/cmehelp](http://tiny.ucsf.edu/cmehelp)  
or by phone at (415) 476-5808

Dr.  Mr.  Mrs.  Ms.  Mx.

LAST NAME FIRST M.I.

MEDICAL DEGREE SPECIALTY

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Would you like to be on our priority email list?  Yes  No

 Please indicate if you have any special needs: \_\_\_\_\_

**REGISTRATION FEES:**

	Early Bird By 12/31/24	Regular Fee After 12/31/24	On Site Fee After 3/17/25
Physicians	<input type="checkbox"/> \$575	<input type="checkbox"/> \$650	<input type="checkbox"/> \$700
Advanced Practice Professionals/Nurses	<input type="checkbox"/> \$475	<input type="checkbox"/> \$550	<input type="checkbox"/> \$600
Residents/Fellows	<input type="checkbox"/> \$375	<input type="checkbox"/> \$450	<input type="checkbox"/> \$500

**Pre-registration closes on March 17, 2025 at 9:00AM PST. Onsite registration rates apply after this time**

Make checks payable to **UC Regents**

Please charge my credit card:  Visa  MasterCard  AmEx for \$ \_\_\_\_\_

CARD # \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_ / \_\_\_\_\_

NAME ON CARD (PLEASE PRINT) \_\_\_\_\_ AUTHORIZED SIGNATURE \_\_\_\_\_

**Refund Policy:** Cancellations received in writing by **March 18, 2025** will be refunded, less a **\$100** administrative fee. No refunds will be made on cancellations received after that date.

Please check our website for up-to-date information on the course: [radiology.ucsf.edu/cme](http://radiology.ucsf.edu/cme)

**Grand Hyatt Indian Wells Resort and Villas**

44600 Indian Wells Lane • Indian Wells, CA 92110 • +1 (760) 776-1234 phone

