

3rd Annual Neurovascular Symposium:
**From Basic to
Advanced Techniques**



THURSDAY – SATURDAY
May 21-23, 2026
UCSF Mission Bay Campus

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 San Francisco's world-class setting.

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 after each talk. At the end of each session there will be a 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.

CALL FOR ABSTRACTS

On the final day of the course, we will include oral abstract presentations from residents and fellows. Abstract submission details and the link to submit your abstract can be located on the course webpage. – *Please visit course webpage for details and submission link.*

COURSE OBJECTIVES

The purpose of this course is to increase competence and improve clinician practice in radiology and neurosurgery. We specifically anticipate improvements in skills and strategies 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

Reade A. De Leacy, MD

Associate Professor of Neurosurgery and Radiology
Icahn School of Medicine at Mount Sinai, New York, NY

Kyle Fargen, MD, MPH, FAANS

Associate Professor of Neurological Surgery
Wake Forest School of Medicine, Winston-Salem, NC

Christopher Kellner, MD

Assistant Professor of Neurosurgery
Icahn School of Medicine at Mount Sinai, New York, NY

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, New York, NY

Michihiro Tanaka, MD

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

UCSF FACULTY

Matthew Amans, MD, MSc

Associate Professor of Clinical Radiology, of Neuro Interventional Radiology, and Diagnostic Neuroradiology

Song Cheng, MD

Assistant Professor of Otolaryngology – Head and Neck Surgery

Daniel Cooke, MD

Professor in Residence of Neuroendovascular Surgery

Charles M. Eichler, MD

Professor of Surgery
Division of Vascular and Endovascular Surgery

Winson S. Ho, MD

Associate Professor of Neurological Surgery

Morris Levin, MD

Professor of Otolaryngology – Head and Neck Surgery
Director, UCSF Headache Center

Dimitrios Mitsouras, PhD

Professor of Radiology and Biomedical Imaging

Luis E. Savastano, MD, PhD

Assistant Professor of Neurological Surgery

Jeffrey D. Sharon, MD

Associate Professor of Otolaryngology – Head and Neck Surgery

Ethan Winkler, MD, PhD

Assistant Professor of Neurological Surgery



faculty



3rd Annual Neurovascular Symposium: From Basic to

Thursday, May 21, 2026

7:30 am *Registration and Breakfast*

8:20 **Welcome and Overview / Pre-test**

Course Chairs

SESSION I – CAROTID DISEASE

8:30	Anatomy and Embryology of the Internal Carotid Artery	Michihiro Tanaka, MD
8:50	Latest Evidence Update – Carotid Disease	Daniel Cooke, MD
9:10	Transradial vs. Transfemoral Carotid Artery Stenting (CAS)	Daniel Raper, MBBS
9:30	Carotid Artery Disease: Should We Break Free From the Stenosis Dogma?	Luis Savastano, MD, PhD
9:50	Transcarotid Artery Revascularization (TCAR) – Vascular Surgeon Perspective	Charles Eichler, MD
10:00	Case Debate: CAE vs. CAS vs. TCAR	Daniel Cooke, MD; Charles Eichler, MD; Daniel Raper, MBBS; Luis Savastano, MD, PhD

10:20 *Coffee Break*

SESSION II – CHALLENGES AND TECHNIQUES IN ENDOVASCULAR MANAGEMENT OF STROKE

10:40	Angiographic Anatomy of Intracranial Atherosclerotic Disease	Seon-Kyu Lee, MD
10:40	Endovascular Stroke Challenges – Access Issues	Daniel Cooke, MD
11:00	Endovascular Stroke Challenges – Distal Occlusions	Daniel Raper, MBBS
11:20	Endovascular Treatments for Intracranial Atherosclerotic Disease	Kazim Narsinh, MD
12:00 pm	Case Debate: Aspiration First vs. Stentreiver for Stroke Thrombectomy	Daniel Cooke, MD; Kyle Fargen, MD; Daniel Raper, MBBS; Seon-Kyu Lee, MD

12:20 *Lunch Break*

Optional Product Theater (Industry-Supported Presentations) SESSION III – SUBDURAL HEMATOMA AND HEADACHES

2:00	Anatomy of the Middle Meningeal Artery (MMA)	Steven Hetts, MD
2:20	Pathophysiology of Migraine	Morris Levin, MD
2:40	Medical Management of Headache and Migraine	Morris Levin, MD
3:00	Neuroendovascular Treatment of Chronic Headaches	Matthew Amans, MD
3:20	Neuroendovascular Horizons: Going Outside the MMA	Luis Savastano, MD, PhD
3:40	Case Debate: Middle Meningeal Artery Embolization	Matthew Amans, MD; Reade De Leacy, MD; Steven Hetts, MD; Ethan Winkler, MD, PhD
4:00	Share Your Cases: Faculty and Attendee Case Presentations	<i>Moderator:</i> Daniel Raper, MBBS
5:00	Adjourn	
5:30 pm	Welcome Reception	

Friday, May 22, 2026

7:30 am Breakfast

SESSION IV – INTRACRANIAL VENOUS DISORDERS

8:00	Intracranial Venous Anatomy	Michihiro Tanaka, MD
8:20	Idiopathic Intracranial Hypertension (IIH) Pathophysiology	Kyle Fargen, MD
8:40	Veins are NOT Arteries! Just Look Inside	Luis Savastano, MD, PhD
9:00	Approach and Workup of Pulsatile Tinnitus	Kazim Narsinh, MD
9:20	Non-IIH Venous Outflow Disorders	Kyle Fargen, MD
9:40	Surgical Treatments of Pulsatile Tinnitus	Song Cheng, MD
10:00	Endovascular Treatment of Pulsatile Tinnitus	Matthew Amans, MD
10:20	Coffee Break	

SESSION V – AI AND BCI

10:40	Brain-computer Interface (BCI) – a Vascular Perspective	
11:00	Endovascular Brain-computer Interface (BCI)	Reade De Leacy, MD
11:20	AI in Neuroendovascular Practice in 2026	Reade De Leacy, MD
11:40	AI in Cerebrovascular Imaging	Dimitrios Mitsouras, PhD
12:00 pm	Case Debate: Middle Cerebral Artery (MCA) – Clip vs. Coil	Reade De Leacy, MD; Kazim Narsinh, MD; Michihiro Tanaka, MD; Ethan Winkler, MD, PhD

12:20 Lunch Break

Optional Product Theater (Industry-Supported Presentations)

SESSION VI – ENDOVASCULAR AND SURGICAL TECHNIQUE

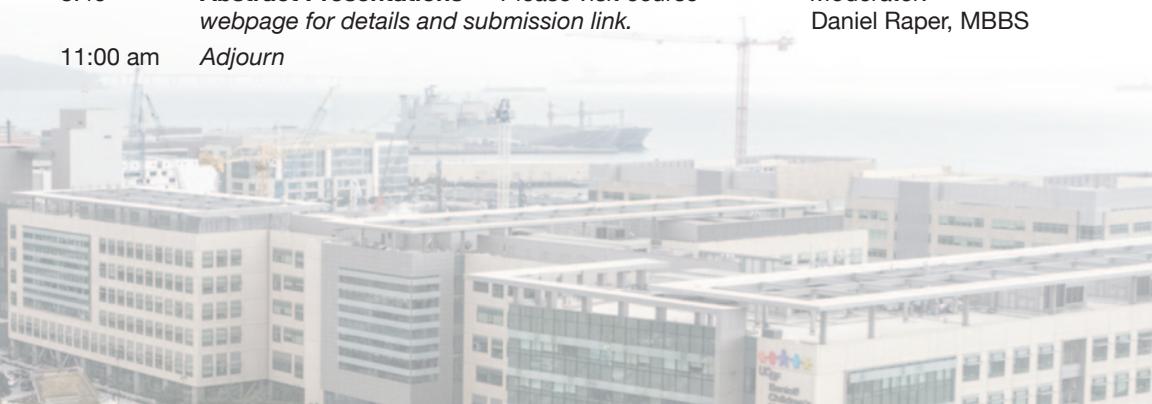
2:00	How I Do It – Glue	Seon-Kyu Lee, MD
2:20	How I Do It – Multi Catheter Embolization dAVF	Steven Hetts, MD
2:40	How I Do It – Endosaccular Devices	Christopher Kellner, MD
3:00	How I Do It – Litt for Cavernoma	Winson Ho, MD
3:20	How I Do It – Minimally Invasive Revascularization for Moyamoya Disease	Luis Savastano, MD, PhD
3:40	Case Debate: Minimally Invasive vs. Open ICH Evacuation	Christopher Kellner, MD; Daniel Raper, MBBS; Luis Savastano, MD, PhD
4:30	Share Your Cases: Case Presentations from Faculty and Attendees	Moderator: Daniel Raper, MBBS
5:30 pm	Adjourn	

Saturday, May 23, 2026

7:30 am Breakfast

SESSION V – NEUROVASCULAR ANATOMY AND ABSTRACT PRESENTATIONS

8:00	Anatomy of Anterior Ethmoidal Fistulas	Michihiro Tanaka, MD
8:20	Spinal Vascular Anatomy	Seon-Kyu Lee, MD
8:40	Abstract Presentations – Please visit course webpage for details and submission link.	Moderator: Daniel Raper, MBBS
11:00 am	Adjourn	



ACCREDITATION

In support of improving patient care, University of California, San Francisco Office of Continuing Medical Education 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.

UCSF has approved this program for CME credit: UCSF designates this live activity for a maximum of **14.50 AMA PRA Category 1 Credits™**. *Physicians should claim only the credit commensurate with the extent of their participation in the 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 AOACCME, Prescribed credit from AAFP, and **AMA PRA category 1 credit™** from 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™**.



GENERAL INFORMATION

Pre-registration is preferred to ensure that there are adequate accommodations at the course. Please register prior to arrival. Online registration is open until the last day of the course. Pre-registration closes on Friday, **May 15, 2026** at 12:00PM PST. Onsite registration rates apply after this time.

HOW TO ENROLL

Registration Fees

Early Bird By 12/31/25

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

Regular Fee After 12/31/25

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

On Site Fee After 5/15/26

\$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 **May 15, 2026** 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

Mail: Complete course registration form and send with payment to:
UCSF Department of Radiology CME
513 Parnassus Ave, S257
San Francisco, CA 94143

Phone: To register by phone or to inquire about registration status, please call UCSF CME Registration Office at 415) 476-5731

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

CONFERENCE LOCATION

Enjoy San Francisco's renowned attractions such as the historic cable cars, shopping in Union Square, or visit San Francisco's culinary hub at the Ferry Building.

The course will be held at UCSF's Mission Bay campus at the Rutter Center.

Please visit the Travel & Lodging section of the course webpage for information on hotel accommodations.

UNITED AIRLINES

UCSF has negotiated special fares with United Airlines for our course attendees.

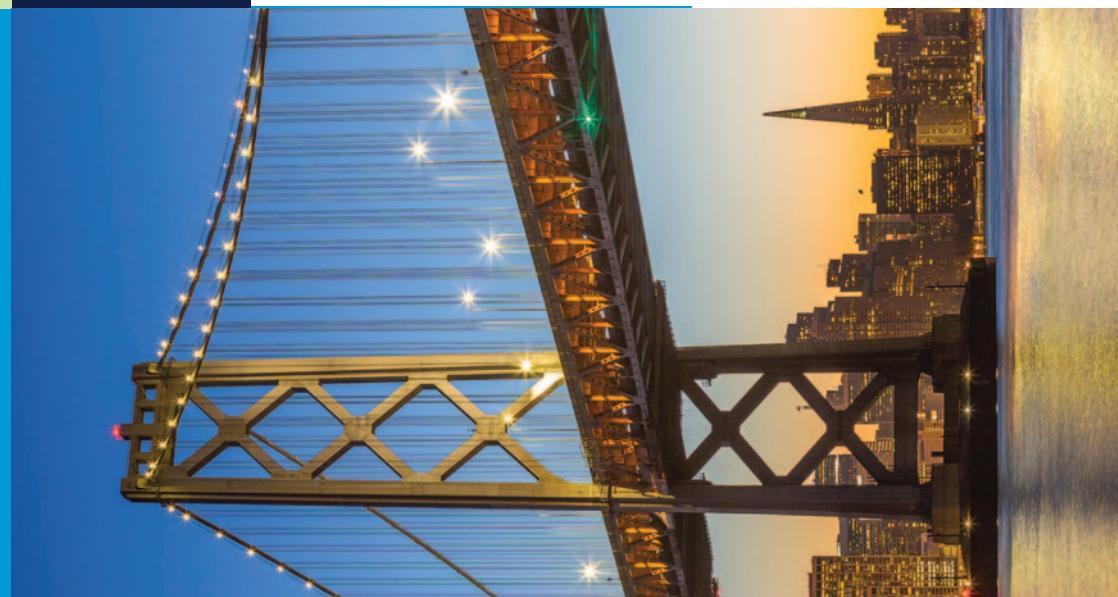
Please visit the TRAVEL AND LODGING section on the course webpage at radiology.ucsf.edu/cme for more information the link to make reservations.



For more information or to register online visit our website
at radiology.ucsf.edu/cme
You may also reach us by calling (415) 476-5731 or
emailing: rad-cme@ucsf.edu
④ Printed on Recycled Paper

UCSF Department of Radiology
and Biomedical Imaging

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San Francisco, CA 94143



COURSE REGISTRATION FORM

**3rd Annual Neurovascular Symposium:
From Basic to Advanced Techniques • RAD26101**

May 21-23, 2026 • UCSF Mission Bay Campus • William J. Rutter Center • SF, CA

Mail to : UCSF Radiology CME
513 Parnassus St. S257
San Francisco, CA 94143

Register online: radiology.ucsf.edu/cme
Registration Information: (415) 476-5731

Dr. Mr. Mrs. Ms. Mx.

LAST NAME _____ FIRST _____ M.I. _____

MEDICAL DEGREE _____ SPECIALTY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

DAYTIME PHONE _____

EMAIL _____

Address Label Code Letter (see address label: example, A, B, C, D, etc.) _____

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 12/31/25	Regular Fee After 12/31/25	On Site Fee After 5/15/26
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

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 **May 15, 2026** 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

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