



# 3rd Annual Cedars-Sinai Intracranial Hypotension Symposium

SATURDAY, FEBRUARY 8, 2020

Cedars-Sinai Medical Center  
Advanced Health Sciences Pavilion  
Conference Center  
127 South San Vicente Blvd.  
Los Angeles, CA

**This symposium has a Medical Professional and a Patient/Caregiver track. Breaks and lunch will be shared by all attendees. The Medical Professional track is open to Medical Professionals only.**

## COURSE DIRECTORS

### WOUTER SCHIEVINK, MD

Director of Vascular Neurosurgery Program  
Director of CSF Leak Program  
Professor of Neurosurgery  
Cedars-Sinai Medical Center  
Los Angeles, CA

### CONNIE DELINE, MD

Vice-President  
Chair, Medical Advisory Board  
Spinal CSF Leak Foundation  
Camp Hill, PA

**Seating is limited, and registration is required.**

**To Register: <https://cedars.cloud-cme.com/spinalleakcme>**

This program is jointly provided by Cedars-Sinai and Spinal CSF Leak Foundation

# ACTIVITY INFORMATION

## COURSE DESCRIPTION AND STATEMENT OF NEED

This full-day multidisciplinary symposium on Intracranial Hypotension secondary to spinal cerebrospinal fluid (CSF) leak brings together top clinicians and researchers to share the latest advances in the diagnostic evaluation and treatment of this under-diagnosed, disabling but treatable secondary headache disorders. This symposium is open to clinicians, patients and caregivers. There is an urgent need to improve access to appropriate diagnostics and treatments to reduce the burden of suffering for intracranial hypotension patients.

## TARGET AUDIENCE

This conference is designed to meet the needs of neurologists, neurosurgeons, anesthesiologists, neuroradiologists, pain management physicians and other clinicians who treat patients with this diagnosis, as well as patients and caregivers interested in gaining more knowledge on this disorder.

## EDUCATIONAL OBJECTIVES

- Describe the diagnostic criteria, basic concepts and misconceptions associated with spontaneous intracranial hypotension (SIH)
- Recognize the range of clinical manifestations and complications of intracranial hypotension
- Discuss cranial imaging findings in spontaneous intracranial hypotension (SIH)
- Evaluate current spinal imaging techniques used to localize spinal CSF leaks, recognizing that repeated imaging may be necessary and that optimal imaging technique varies with the type of leak
- Explore treatment options in SIH, including percutaneous approaches and surgical treatment of spinal CSF leaks
- Assess special considerations for SIH in conception, pregnancy and childbirth



## ACCREDITATION STATEMENT

Cedars-Sinai Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## CREDIT DESIGNATION STATEMENT

Cedars-Sinai Medical Center designates this live activity for a maximum of 7.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## NON-PHYSICIAN ATTENDANCE

Non-Physician Attendance (RN, NP, PA and Other Learners) Credit is provided to non-physicians who participate in activities that are designated for AMA PRA Category 1 Credit(s)™. The boards for AANP, NCCPA and ANCC accept courses approved by the ACCME for Category 1 Credit as meeting the continuing education requirements for license renewal.

## POLICY ON DISCLOSURE

It is the policy of Cedars-Sinai Medical Center to ensure balance, independence, objectivity and scientific rigor in all its educational activities. Cedars-Sinai Medical Center assesses conflicts of interest with its faculty, planners and managers of CME activities. Conflicts of interest that are identified are resolved by reviewing that presenter's content for fair balance and absence of bias, scientific objectivity of studies utilized in this activity, and patient care recommendations.

While Cedars-Sinai Medical Center endeavors to review faculty content, it remains the obligation of each physician or other healthcare practitioner to determine the applicability or relevance of the information provided from this course in his or her own practice.

# AGENDA

## 3rd Annual Cedars-Sinai Intracranial Hypotension Symposium

SATURDAY, FEBRUARY 8, 2020

### MEDICAL PROFESSIONAL TRACK

7:15 AM Registration and continental breakfast

8:00 Welcome and Overview

Connie Deline, MD;  
Wouter Schievink, MD

#### SIH: Basic Concepts and Special Circumstances

8:05 Some misconceptions about CSF physiology

Abhay Moghekar, MD

8:30 Basics of spontaneous and iatrogenic spinal CSF leaks

Wouter Schievink, MD

8:50 New insights in mechanisms and treatment of headache disorders, with an emphasis on SIH

Stephen Silberstein, MD

9:15 Variabilities and vagaries in the clinical syndrome of SIH

Jeremy Cutsforth-Gregory, MD

9:40 SIH: Considerations in conception, pregnancy and childbirth

Rachelle Cruz, NP

10:00 Every cranial nerve

Deborah Friedman, MD

10:25 Break

#### Imaging of Spontaneous Spinal CSF Leaks

11:00 My 30-year experience at UCSF: from 1990 to 2020

William Dillon, MD

11:25 Cedars-Sinai imaging approach

Marcel Maya, MD

11:50 Lunch

1:00 PM Imaging tips and tricks

Peter Kranz, MD

1:20 Tailored spine imaging in SIH

Richard Farb, MD

#### Treatment Options in SIH

1:45 Reaching for the highest volume in epidural blood patching: Effective and safe?

Charles Louy, MD

2:10 Single-catheter multi-level approach to EBP

Joseph Gemmete, MD

2:35 Break

3:10 Percutaneous adventures in SIH

Linda Gray, MD

3:30 More percutaneous adventures in SIH

Marcel Maya, MD

3:50 Surgical treatment of spinal CSF leaks: The final option?

Wouter Schievink, MD

4:10 Question & answers — Ask the Faculty

All faculty

4:40 Closing remarks

Connie Deline, MD;  
Wouter Schievink, MD

4:45 Reception: Getting to know the experts

5:30 PM Adjourn

## PATIENTS/CAREGIVERS TRACK

7:15 AM Registration and continental breakfast

### Spinal CSF Leaks: The Basics and More

8:00	Welcome	Andrea J. Buchanan
8:05	Variabilities and vagaries in the clinical syndrome of SIH	Jeremy Cutsforth-Gregory, MD
8:40	Insights on SIH, from 2006 to 2020	Linda Gray Leithe, MD
9:15	Basics of spontaneous and iatrogenic spinal CSF leaks	Wouter Schievink, MD
9:50	Some misconceptions about CSF physiology	Abhay Moghekar, MD
10:25	Break	
11:00	New insights in mechanisms and treatment of headache disorders, with an emphasis on SIH	Stephen Silberstein, MD

### Imaging of Spinal CSF Leaks

11:25	Tailored spine imaging in SIH	Richard Farb, MD
11:50	Lunch	
1:00 P.M.	Cedars-Sinai imaging approach	Marcel Maya, MD
1:30	My 30-year experience at UCSF: from 1990 to 2020	William Dillon, MD

### Treatment Options in SIH

2:05	Treatment at Cedars-Sinai	Marcel Maya, MD
2:35	Break	
3:10	Treatment at Duke	Peter Kranz, MD
3:30	Single-catheter multi-level approach to EBP	Joseph Gemmete, MD
3:50	What to do when imaging or treatment fails	Deborah Friedman, MD
4:20	SIH: Considerations in conception, pregnancy, and childbirth	Rachelle Cruz, NP
4:40	Closing remarks	Andrea J. Buchanan
4:45	Reception: Getting to know the experts	
5:30 PM	Adjourn	

# FACULTY

## COURSE DIRECTORS

### **Wouter Schievink, MD**

Director of Vascular Neurosurgery Program  
Director of CSF Leak Program  
Professor of Neurosurgery  
Cedars-Sinai Medical Center  
Los Angeles, CA

### **Connie Deline, MD**

Vice President  
Chair, Medical Advisory Board  
Spinal CSF Leak Foundation  
Camp Hill, PA

## COURSE FACULTY

### **Andrea J. Buchanan**

Author of The Beginning of Everything  
Board Member, Spinal CSF Leak Foundation  
Philadelphia, PA

### **Rachelle Cruz, NP**

Nurse Practitioner  
Department of Neurosurgery  
Cedars-Sinai Medical Center  
Los Angeles, CA

### **Jeremy Cutsforth-Gregory, MD**

Senior Associate Consultant  
Department of Neurology  
Assistant Professor of Neurology  
Mayo Clinic College of Medicine and Science  
Rochester, MN

### **William Dillon, MD**

Elizabeth A. Guillaumin  
Professor of Radiology  
Chief, Division of Neuroradiology  
University of California San Francisco  
School of Medicine  
San Francisco, CA

### **Richard I. Farb, MD**

Interventional and  
Diagnostic Neuroradiologist  
Associate Professor,  
Department of Medical Imaging  
University of Toronto  
Toronto, Ontario, Canada

### **Deborah Friedman, MD**

Professor of Neurology  
and Neurotherapeutics  
and the Department of Ophthalmology  
University of Texas (UT)  
Southwestern Medical Center  
Chief of the Division of Headache Medicine  
Founding Director of UT Southwestern  
Headache and Facial Pain Program  
Dallas, TX

### **Joseph Gemmete, MD**

Professor, Radiology  
Professor, Otolaryngology  
Director, Neurointerventional  
Radiology Fellowship Program  
Division of Neuroradiology  
Division of Vascular  
and Interventional Radiology  
Neurointerventional Radiologist  
Michigan Medicine  
Ann Arbor, MI

### **Peter G. Kranz, MD**

Associate Professor  
Chief, Neuroradiology Division  
Department of Radiology  
Duke University Medical Center  
Durham, NC

### **Linda Gray Leithe, MD**

Associate Professor  
Division of Neuroradiology  
Department of Radiology  
Duke University Medical Center  
Durham, NC

### **Charles Louy, MD**

Director, Inpatient Pain and Pediatric Pain Services  
Assistant Director,  
Pain Management Fellowship Program  
Cedars-Sinai Medical Center  
Los Angeles, CA

### **Marcel Maya, MD**

Co-chair, Department of Imaging  
S. Mark Taper Foundation Imaging Center  
Cedars-Sinai Medical Center  
Los Angeles, CA

### **Abhay R. Moghekar, MBBS**

Research Director, Cerebral Fluid Center  
Department of Neurology  
Assistant Professor of Neurology  
Johns Hopkins Hospital  
Baltimore, MD

### **Stephen Silberstein, MD**

Professor of Neurology  
Director, Jefferson Headache Center  
Philadelphia, PA  
Past President of the  
American Headache Society

# REGISTER ONLINE TODAY!

All registrations must be completed online.

To register: [cedars.cloud-cme.com/spinalleakcme](https://cedars.cloud-cme.com/spinalleakcme)

For additional course or registration information, please call 310-423-5548.

## REGISTRATION FEES\*

### RECEIVED BY JANUARY 24, 2020

Professionals	<b>\$200</b>
Residents/Fellows	<b>\$130</b>
Patients/Caregivers	<b>\$80</b>

### RECEIVED AFTER JANUARY 24, 2020

Professionals	<b>\$225</b>
Residents/Fellows	<b>\$150</b>
Patients/Caregivers	<b>\$95</b>

### REFUND POLICY

All cancellations must be submitted in writing and refunds will be subject to an \$50 administrative charge. No refunds will be given after January 24, 2020. Please e-mail cancellation request to [cme@cshs.org](mailto:cme@cshs.org). If you do not receive confirmation of your cancellation via e-mail, please call (310) 423-5548.

### CANCELLATION POLICY

Cedars-Sinai reserves the right to cancel or reschedule programs due to circumstances beyond its control, or close to registration when programs are oversubscribed. Registrants are advised against purchasing nonrefundable airline tickets until they receive registration confirmation. Cedars-Sinai is not responsible for penalties incurred as a result of cancelled transportation costs.

### DISABILITY ACCOMMODATIONS

We encourage participation by all individuals. If you have a disability, advance notification of any special needs will help us better serve you. Please call 310-423-5548 for any assistance.

Please be aware that temperature fluctuates; therefore we recommend that you bring a sweater or jacket to accommodate these changes.