



2nd Annual Cedars-Sinai Intracranial Hypotension Symposium

SATURDAY, OCTOBER 13, 2018
7:30 A.M. TO 5:30 P.M.
MARINA DEL REY MARRIOTT

This symposium has a Professional track and a Patient/Caregiver track. There will be a shared session at the end of the day in addition to shared breaks and lunch.

COURSE DIRECTOR

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

COURSE CO-DIRECTOR

Connie Deline, MD
Integrative Family Physician
Camp Hill, PA
Vice President
Spinal CSF Leak Foundation

Seating is limited, and registration is required.
For more course information and to register,
visit cedars.cloud-cme.com/spinalleakcme

2nd Annual Cedars-Sinai Intracranial Hypotension Symposium

This full-day multidisciplinary symposium on the topic of 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 disorder. Clinicians, researchers, patients and caregivers are invited to attend. The symposium offers a professional track and a patient/caregiver track and concludes with an interactive shared session.

Invited speakers include representatives from a range of subspecialties, including anesthesiology, neurology, neurosurgery, neuroradiology and pain management. The professional track will cover current aspects of clinical presentations, objective measurements, differential diagnoses, complications, diagnostic imaging, percutaneous interventions and surgical approaches.

The patient/caregiver track will provide an overview and update on the diagnosis and treatment of intracranial hypotension and rebound intracranial hypertension. Patients will be empowered in improving outcomes and quality of life as well as understanding the patient role in clinical research. An interactive shared session will discuss the challenges and approaches for patients with residual post-treatment headache.

There is an urgent need to improve access to appropriate diagnostics and treatments to reduce the burden of suffering for intracranial hypotension patients. Join your colleagues in learning about important developments in the field and share your insights about priorities for the future.

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

Objectives for Medical Professionals

- Describe the diagnostic criteria for spontaneous intracranial hypotension (SIH)
- Describe the mechanisms of headache and other symptoms
- Recognize the range of clinical manifestations and complications of intracranial hypotension
- Differentiate between SIH and postural orthostatic tachycardia syndrome (POTS)
- Describe objective measurements used in the diagnostic evaluation of intracranial hypotension
- Evaluate current imaging techniques used to localize spinal CSF leaks, recognizing that optimal imaging technique varies with type of leak
- Compare percutaneous treatment approaches of intracranial hypotension
- Recognize indications for surgery and discuss surgical approaches for spinal CSF leak
- Recognize and manage rebound intracranial hypertension that may occur post intervention for spinal CSF leak
- Apply management strategies for persistent posttreatment symptoms

Objectives for Patients & Caregivers

- Understand the similarities between postural orthostatic tachycardia syndrome and SIH
- Name two objective measurements in the evaluation of SIH
- Describe the basics of diagnostic imaging used in SIH
- Describe the basics of treatment approaches in SIH
- Apply specific strategies to manage pain and improve quality of life
- Recognize symptoms of rebound intracranial hypertension that may occur post intervention for spinal CSF leak
- Describe one way that patients can participate in clinical research of intracranial hypotension

FACULTY

COURSE DIRECTOR

Wouter Schievink, MD

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

Timothy J. Amrhein, MD

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

Jurgen Beck, MD, PhD

Department of Neurosurgery
Inselspital, Bern University Hospital
Bern, Switzerland

Ian Carroll, MD, MS

Assistant Professor of Anesthesiology
Perioperative and Pain Medicine
(Adult Pain) at the Stanford University
Medical Center
Palo Alto, CA

David Dodick, MD

Professor of Neurology
Medical Director of Headache Program
and Sport Neurology and Concussion
Program
Mayo Clinic, Scottsdale, AZ
Past President of the International
Headache Society

Deborah Friedman, MD

Neuro-Ophthalmologist
Professor of Neurology and
Neurotherapeutics and the Department
of Ophthalmology
UT Southwestern Medical Center
Chief of the Division of Headache
Medicine and the founding Director
of UT Southwestern Headache and
Facial Pain Program
Dallas, TX

Linda Gray-Leithe, MD

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

Stacey Jean-Pierre, PA-C

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

COURSE CO-DIRECTOR

Connie Deline, MD

Integrative Family Physician
Camp Hill, PA
Vice President,
Spinal CSF Leak Foundation

Peter G. Kranz, MD

Assistant Professor
Director, Spine Intervention Service
Division of Neuroradiology
Department of Radiology
Duke University Medical Center
Durham, NC

Charles Louy, PhD, MD, MBA

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

M. Marcel Maya, MD

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

Abhay Rajeshwar Moghekar, MBBS

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

Philip W. H. Peng, MBBS, FRCPC

Professor, Anesthesia
University of Toronto
Director of Research,
Wasser Pain Management Center
Mount Sinai Hospital
Chair, Examination Committee in
Pain Medicine Subspecialty
Royal College of Physicians and Surgeons
of Canada
Toronto, Canada

Stephen Silberstein, MD

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

REGISTRATION FEES

RECEIVED BY 10/5/18

Professionals	\$175
Resident/Fellow	\$125
Patients/Caregivers	\$60

RECEIVED AFTER 10/5/18

Professionals	\$200
Resident/Fellow	\$150
Patients/Caregivers	\$80



CONFERENCE LOCATION

Marina del Rey Marriott
4100 Admiralty Way
Marina Del Rey, CA 90292

REGISTER ONLINE TODAY!

All registrations must be completed online. Please click on the following link to register: cedars.cloud-cme.com/spinalleakcme

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

MAIL PAYMENT

(with checks made payable to Cedars-Sinai Medical Center) to:
Cedars-Sinai Medical Center
Office of Continuing Medical Education
Attn: Registration
8797 Beverly Blvd., Suite 250
Los Angeles, CA 90048

ACTIVITY INFORMATION

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 8.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSES

The California State Board of Registered Nursing accepts courses approved by the ACCME for Category 1 credit as meeting the educational 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.

REFUND POLICY

There is a \$60 administrative charge for cancellations received by October 5, 2018. Cancellations must be submitted in writing and e-mail to 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 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 by the water fluctuates, therefore we recommend that you bring a sweater or jacket to accommodate these changes.

- 7:30 A.M.** **Registration & Breakfast**
- 8:00** **Opening Remarks**
Wouter I. Schievink, MD
- 8:10** **Orthostatic Headaches:
Differential Diagnosis & Diagnostic Criteria of SIH**
David Dodick, MD
- 8:40** **SIH: Mechanisms of Headache**
Stephen Silberstein, MD
- 9:10** **SIH: The 1st 1000 Patients: A Practical Approach**
Wouter I. Schievink, MD
- 9:40** **Break & Exhibits**
- 10:00** **SIH: the Toronto Experience**
Philip Peng, MBBS
- 10:30** **SIH: CSF Outflow Resistance & Other Objective Measurements**
Jurgen Beck, MD, PhD
- 11:00** **SIH: ICP Monitoring & Other Objective Measurements**
Abhay Moghekar, MD
- 11:30** **Lunch Break & Exhibits**
- 12:30 P.M.** **Rebound Intracranial Hypertension**
Deborah Friedman, MD
- 1:00** **Some Unusual Manifestations of SIH & How to Avoid Them**
Wouter I. Schievink, MD
- 1:30** **Imaging of SIH: Past, Current and Future Modalities**
Marcel Maya, MD
- 2:00** **SIH and/or POTS**
Ian Carroll, MD, MS
- 2:30** **Break & Exhibits**
- 2:50** **10 Myths and Misconceptions**
Peter Kranz, MD
- 3:10** **Percutaneous Treatment: Cedars-Sinai Approach**
Marcel Maya, MD; Charles Louy, PhD, MD
- 3:30** **Percutaneous Treatment: Duke Approach**
Linda Gray-Leithe, MD
- 3:50** **Surgical expertise in SIH Treatment**
Jurgen Beck, MD, PhD
- 4:30** **Plenary – All Attendees**
- 4:30** **Persistent Headache Post-Treatment – Now What?**
Stephen Silberstein, MD; David Dodick, MD
- 5:00** **Open Discussion**
All Faculty
- 5:25** **Closing Remarks**
Wouter I. Schievink, MD
- 5:30 P.M.** **Adjourn**

- 7:30 A.M.** **Registration & Breakfast**
- 8:00** **Opening Remarks**
Connie Deline, MD
- 8:10** **Lessons Learned from 1000 Patients with SIH**
Wouter I. Schievink, MD
- 8:40** **ICP Monitoring & Other Aids in the Diagnosis of SIH**
Abhay Moghekar, MD
- 9:10** **SIH: A Bern and Freiburg Perspective**
Jurgen Beck, MD, PhD
- 9:40** **Break & Exhibits**
- 10:00** **Update on Imaging & Treatment at Cedars-Sinai**
Marcel Maya, MD
- 10:30** **Update on Imaging & Treatment at Duke**
Linda Gray-Leithe, MD
- 11:00** **SIH: Trials and Research Endeavors**
Timothy Amrhein, MD
- 11:30** **Lunch Break & Exhibits**
- 12:30 P.M.** **Pain Management for SIH & Post-Treatment Pain**
Philip Peng, MBBS; Charles Louy, PhD, MD
- 1:30** **Update on the EDS Comorbidities Coalition**
Connie Deline, MD
- 2:00** **Rebound Intracranial Hypertension**
Deborah Friedman, MD
- 2:30** **Break & Exhibits**
- 2:50** **How to Differentiate SIH from POTS (or both)**
Ian Carroll, MD, MS
- 3:30** **SIH: Post-Procedure Questions & Answers**
Stacey Jean-Pierre, PA-C
- 4:10** **Break to Join Plenary Session**
- 4:00** **Plenary – All Attendees**
- 4:30** **Persistent Headache Post-Treatment – Now What?**
Stephen Silberstein MD; David Dodick, MD
- 5:00** **Open Discussion**
All Faculty
- 5:25** **Closing Remarks**
Wouter I. Schievink, MD
- 5:30 P.M.** **Adjourn**