



4th Annual Intracranial Hypotension Symposium

October 2, 2021



Virtual Activity

Virtual: Online

To register:

<http://bit.ly/CSFLeak>

Cedars-Sinai wishes to thank Spinal CSF Leak Foundation
for their generous educational grant, which makes this event possible



COURSE DESCRIPTION AND STATEMENT OF NEED

This full-day, multidisciplinary activity on the topic of Spontaneous Intracranial Hypotension (SIH), secondary to spinal cerebrospinal fluid (CSF) leak, brings clinicians and researchers, to share the latest advances in the diagnostic evaluation and treatment of this under-diagnosed, disabling, but treatable secondary headache disorder. While the course is designed for clinicians and researchers, patients and caregivers are welcome to attend in-person or via live-streaming. Invited speakers include representatives from a range of subspecialties, including anesthesiology, neurology, neurosurgery and neuroradiology. The topics will cover a variety of clinical presentations, differential diagnoses, complications, cranial and spinal imaging, percutaneous interventions, and surgical approaches. The anatomy and pathophysiology of the various leak types will be discussed, along with tailored imaging and treatment approaches. There will be an interactive discussion about gaps in evidence, research priorities and potential opportunities for collaborative research. Join your colleagues in learning about important developments in the field, and share your insights about priorities for the future.

TARGET AUDIENCE

Specialties - Anesthesiology, Emergency Medicine, Family / General Medicine, Internal Medicine, Medical Genetics, Neurology, Neurosurgery, Ophthalmology, Other, Pain Management, Radiology

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

COURSE DIRECTORS

Connie R. Deline, MD
SIH Patient
Founder, Spinal CSF Leak Foundation

Wouter I. Schievink, MD
Professor of Neurosurgery
Director, CSF Leak Program
Director, Vascular Neurosurgery
Department of Neurosurgery
Cedars-Sinai

FACULTY PRESENTERS

Timothy Amrhein, MD
Associate Professor of Radiology
Director of Spine Intervention
Division of Neuroradiology
Department of Radiology
Duke University Medical Center

Waleed Brinjikji, MD
Interventional Neuroradiology and
Endovascular Neurosurgery
Departments of Neurosurgery
& Radiology
Mayo Clinic - Rochester, MN

Ian Carroll, MD, MS
Associate Professor of Anesthesiology,
Perioperative and Pain Medicine
Chief, Stanford CSF Leak
Headache Program
Stanford University School of Medicine

Rachelle Tache, NP
Nurse Practitioner, Department of
Neurosurgery, Cedars-Sinai

Jeremy Cutsforth-Gregory, MD
Assistant Professor of Neurology
Department of Neurology
Mayo Clinic - Rochester, MN

Deborah Friedman, MD, MPH
Professor of Neurology and
Ophthalmology
Founding Director of Headache
and Facial Pain Program
UT Southwestern Medical Center

J. Nicholas Higgins, FRCP, FRCS
Department of Radiology
Addenbrooke's Hospital,
Cambridge, UK

Kerry Knievel, DO
Director, Headache Division
Jan and Tom Lewis Migraine
Treatment Program
Barrow Neurological Institute

Peter Kranz, MD
Associate Professor
Chief, Neuroradiology Division
Department of Radiology
Duke University
Medical Center

Charles Louy, MD, PhD
Director, Inpatient Pain and
Pediatric Pain Services
Assistant Director, Pain Management
Fellowship Program, Cedars-Sinai

Mark Mamlouk, MD
Director, TPMG Spinal
CSF Leak Program
Kaiser Permanente
Santa Clara, CA
Assistant Clinical Professor of
Neuroradiology –
Volunteer, UCSF

Marcel Maya, MD
Neuroradiology
Professor & Co-Chair,
Department of Imaging
Cedars-Sinai

Abhay Moghekar, MBBS
Associate Professor of Neurology,
Neurosurgery & Otolaryngology
Research Director, Center
for CSF Disorders
Johns Hopkins Hospital

Jill Rau, MD, PhD
Neurologist - Headache Specialist
HonorHealth
Neuroscience Institute

AGENDA

Saturday, October 2, 2021

8:00 – 8:10	Welcome	Wouter I. Schievink, MD & Connie R. Deline, MD
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Diagnosis & Pathophysiology – Moderator: Linda Gray Leithe, MD

8:10 – 8:30	The varied clinical presentations of SIH	Deborah Friedman, MD, MPH
8:30 – 8:50	Diagnosis of SIH: The challenging but critical first step	Jeremy Cutsforth-Gregory, MD
8:50 – 9:20	Current SIH diagnostic imaging (with leak classification)	Marcel Maya, MD
9:20 – 9:40	Anatomy and pathogenesis of spinal CSF leaks	Wouter I. Schievink, MD
9:40 – 10:00	Anatomy and pathogenesis of CSF-venous fistulas	Peter Kranz, MD
10:00 – 10:10	Questions & Answers	Linda Gray Leithe, MD (Moderator) Jeremy Cutsforth-Gregory, MD Deborah Friedman, MD, MPH Peter Kranz, MD Marcel Maya, MD Wouter I. Schievink, MD
10:10 – 10:30	Break	

Neurologist's Approach to SIH – Moderator: Deborah Friedman, MD, MPH

10:30 – 10:50	Approach to suspected SIH in centers without a dedicated SIH program	Jill Rau, MD, PhD
10:50 – 11:10	Headache management during & after spinal CSF leak treatment	Kerry Knievel, DO
11:10 – 11:40	Persistent or relapsing symptoms post-treatment	Abhay Moghekar, MBBS
11:40 – 12:00	Practical post-treatment considerations	Charles Louy, MD & Rachele Tache, NP
12:00 – 12:20	Questions & Answers	Deborah Friedman, MD, MPH (Moderator) Rachele Tache, NP Kerry Knievel, DO Charles Louy, MD Abhay Moghekar, MBBS Jill Rau, MD, PhD
12:20 – 1:10	Lunch	

Current and Investigational Treatment Approaches, Part 1 – Moderator: Marcel Maya, MD

1:10 – 1:30	Current percutaneous treatment approaches (by leak type)	Timothy Amrhein, MD
1:30 – 1:50	Current surgical treatment of spinal CSF leaks (by leak type)	Wouter I. Schievink, MD
1:50 – 2:10	CT-guided fibrin glue for CSF-venous fistulas	Mark Mamlouk, MD
2:10 – 2:30	Investigational: Transvenous embolization of CSF-venous fistulas	Waleed Brinjikji, MD
2:30 – 2:40	Questions & Answers	Marcel Maya, MD (Moderator) Timothy Amrhein, MD Waleed Brinjikji, MD Mark Mamlouk, MD Wouter I. Schievink, MD
2:40 – 3:00	Break	

Current and Investigational Treatment Approaches, Part 2 – Moderator: Wouter I. Schievink, MD

3:00 – 3:20	Outcomes of EBP in patients who fail to meet ICHD3 diagnostic criteria	Ian Carroll, MD, MS
3:20 – 3:50	SIH & IIH: Is there a connection?	J. Nicholas Higgins, FRCP, FRCS
3:50 – 4:10	Questions & Answers	Wouter I. Schievink, MD (Moderator) Ian Carroll, MD, MS J. Nicholas Higgins, FRCP, FRCS

AGENDA, CONTINUED

4:10 – 4:40	Panel: Research gaps & priorities	Wouter I. Schievink, MD Connie R. Deline, MD Abhay Moghekar, MBBS Jill Rau, MD, PhD Marcel Maya, MD Timothy Amrhein, MD Peter Kranz, MD
4:40 – 4:50	Closing remarks	Wouter I. Schievink, MD & Connie R. Deline, MD

REGISTRATION FEES

Virtual: Online

To register, visit <http://bit.ly/CSFLeak>

Healthcare Professionals
\$125 (VIRTUAL ONLY)
Residents/Fellows
\$30 (VIRTUAL ONLY)
Patients/Caregivers
\$30 (VIRTUAL ONLY)

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