Headache: The Highs & Lows of CSF Pressure Problems
SATURDAY and SUNDAY
MARCH 21-22, 2020
RENAISSANCE RALEIGH NORTH HILLS HOTEL

Space is limited, and registration for the course is required. To register, visit: https://radiology.duke.edu/cme/highslowsofcsfpressure/

Course Director:
Linda Gray Leithe, MD
Duke University Medical Center
Headache: The Highs & Lows of CSF Pressure Problems

This is a one and a half day course on CSF pressure problems as a secondary cause of headache, including intracranial hypotension and hypertension. It is intended to inform local neurologists, headache specialists, and other health care professionals including neurosurgeons, anesthesiologists, neuroradiologists, and pain management physicians about the varied presentations and the current state of diagnosis and treatment for disorders resulting from CSF pressure problems. In particular, these disorders can present as migraine, chronic migraine, new daily persistent headache, spontaneous intracranial hypotension (SIH), idiopathic intracranial hypertension, Chiari I malformations and intracranial hypertension as a complication of CSF leak treatment. SIH can also be iatrogenic status post lumbar punctures, epidural catheter placement and epidural injections.

Day 1 of this course will incorporate SIH, its clinical presentation, association with connective tissue disorders and POTS, MR imaging findings, the workup for detecting leaks and the types of leaks to look for. The approach to the diagnosis with CT guided lumbar puncture, myelograms, and minimally invasive techniques including fibrin glue and blood patching as well as surgical intervention will be discussed.

Day 2 of the course will discuss intracranial hypertension. Intracranial hypertension is the opposite side of the same coin as intracranial hypotension and can present as positional headache but also as chronic daily migraine. Its clinical presentation, imaging findings, medical treatment and venous stenting will be discussed.

Invited speakers include experts in neuroradiology, neurology-ophthalmology, internal medicine, headache, orthopedic surgery, and neurosurgery. Many cases will be presented throughout the discussions.

Educational Objectives

- Describe the clinical presentation and imaging manifestations of high and low CSF pressure disorders
- Present the current state of minimally invasive and surgical treatments for low CSF pressure disorders
- Identify the current medical and invasive treatments of high pressure CSF disorders

COURSE INFORMATION

JOINT ACCREDITATION STATEMENT
In support of improving patient care, the Duke University Health System Department of Clinical Education and Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.

EDUCATION CREDITS
Duke University Health System Department of Clinical Education and Professional Development designates this live activity for a maximum of 10 AMA PRA Category 1 Credit(s)™. Physicians should claim only credit commensurate with the extent of their participation in the activity. Credit designation for technologists is pending.

NURSE CE
Duke University Health System Department of Clinical Education and Professional Development designates this activity for up to 10 credit hours for nurses. Nurses should claim only credit commensurate with the extent of their participation in the activity.

TECHNOLOGIST CE
Credit designation for technologists will be provided and are pending.
FACULTY

Timothy J. Amrhein, M.D.
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Scott Davies, M.B.B.S.
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Neurological Intervention and Imaging Service of Western Australia
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Neurotrauma & Specialty Surgery Credentialing Committees
Carolinas Medical Center
Lead Neurosurgeon for NASCAR
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Deborah I. Friedman, M.D., MPH
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Chair, Intracranial Pressure Disorders
Integrated Project Team
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Director, UC Headache and Facial Pain Center
University of Cincinnati Medical Center
Cincinnati, OH

Simy Parikh, M.D.
Neurology Fellow
Jefferson Headache Center
Thomas Jefferson University Hospital
Philadelphia, PA

Jill Rau, M.D., Ph.D.
Post-doctoral Research in Headache Neurology
Mayo Clinic
Scottsdale, AZ

Wouter Schievink, M.D.
Professor of Neurosurgery
Director, Cerebrospinal Fluid Leak Program
Cedars-Sinai
Los Angeles, CA

DukeHealth
AGENDA – Day 1

SATURDAY, MARCH 21

7:00 A.M.  Breakfast
7:25 A.M.  Welcome from Course Director – Linda Gray Leithe, M.D.

7:30 A.M.  Clinical Diagnosis of Spontaneous Intracranial Hypotension (SIH)
            Simy Parikh, M.D.
7:55 A.M.  Brain Imaging for SIH
            Michael Malinzak, M.D., Ph.D.
8:20 A.M.  Spine Imaging for SIH
            Peter Kranz, M.D.
8:45 A.M.  When SIH is Excluded: Alternative Causes of Chronic Daily Headache and How to Differentiate it from SIH
            Vincent Martin, M.D.

9:10 A.M.  Q & A
9:25 A.M.  Break

9:40 A.M.  When SIH is Excluded: When to Consider POTS as an Alternative Diagnosis
            Jeremy Cutsforth-Gregory, M.D.
10:05 A.M. Beyond Standard Myelography: Hyperdynamic Techniques in CTM and DSM
           Patrick Luetmer, M.D.
10:30 A.M. Cases
           J. Michael Hazenfield, M.D.
10:55 A.M. Research Highlights and Important Publications
           Jill Rau, M.D., Ph.D.

11:20 A.M.  Q & A
11:35 A.M.  Lunch

12:20 P.M.  Percutaneous CSF Leak Treatment
            Linda Gray Leithe, M.D.
12:45 P.M.  Surgical Techniques: Intradural Approach
            Wouter Schievink, M.D.
1:10 P.M.  Surgical Techniques: Extradural Approach
           Christopher Brown, M.D.

1:35 P.M.  Break

1:50 P.M.  Surgical Techniques: Combined Approach
           Vinay Deshmukh, M.D., FACS
2:15 P.M.  Surgical Techniques: CSF-Venous Fistulas
           Isaac Karikari, M.D.

2:40 P.M.  Q & A
3:00 P.M.  Adjourn

5:30 P.M.  Cocktail Reception
AGENDA – Day 2

SUNDAY, MARCH 22

7:00 A.M.       Breakfast

7:30 A.M.       Literature Review of Efficacy for Epidural Blood Patching
                Timothy Amrhein, M.D.

7:55 A.M.       Challenges and Lessons to Learn Initiating a CSF Leak Practice
                Scott Davies, M.B.B.S.

8:20 A.M.       Clinical Signs and Symptoms of High CSF Pressure
                Deborah Friedman, M.D., MPH

8:45 A.M.       High CSF Pressure Imaging
                J. Michael Hazenfield, M.D.

9:10 A.M.       Q & A

9:30 A.M.       Break

9:45 A.M.       High Pressure Medical Treatment
                Deborah Friedman, M.D., MPH

10:10 A.M.      Venous Stenting for High Pressure
                Andrew Griffin II, M.D.

10:35 A.M.      Rebound High Pressure Post Procedure
                Michael Malinzak, M.D., Ph.D.

11:00 A.M.      Q & A

11:30 A.M.      Adjourn
REGISTRATION FEES

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COURSE LOCATION
Renaissance Raleigh North Hills Hotel
4100 Main at North Hills Street
Raleigh, NC  27609

REGISTER ONLINE TODAY!
All registrations must be completed online. Please click on the following link to register:
https://radiology.duke.edu/cme/highslowsofcsfpressure/

If you have a question regarding the course or registration, please call 919-684-7228.

TO MAIL PAYMENT: Make checks payable to Duke University, and mail to:
Duke University
Department of Radiology, Box 3808
Attn: Deborah Griffin
2301 Erwin Road
Durham, NC  27710

Refund Policy
There is a $25 administrative fee for cancellations. There are no refunds after March 13, 2019.

Cancellation Policy
Duke University Health System reserves the right to cancel or reschedule programs due to circumstances beyond its control or to close registration when programs are full. Duke University Health System is not responsible for penalties incurred as a result of cancelled transportation costs.