



 **Duke** University School of Medicine

Intracranial Hypotension: The Duke Experience

SATURDAY, MARCH 23, 2019

7:30 A.M. TO 12:15 P.M.

RENAISSANCE RALEIGH NORTH HILLS HOTEL

Course Director: Linda Gray Leithe, MD
Duke University Medical Center

Space is limited, and registration for the course is required. To register, see enclosed registration form or register online at:

<https://radiology.duke.edu/cme/intracranial-hypotension-the-duke-experience/>

 **DukeHealth**

Intracranial Hypotension: The Duke Experience

This ½-day multidisciplinary course on Intracranial Hypotension secondary to spinal cerebrospinal fluid (CSF) leak 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 this disorder. Intracranial Hypotension can present as migraine, chronic migraine, new daily persistent headache, and Chiari I malformations and can be iatrogenic in origin as can be seen with lumbar punctures, epidural catheter placement and epidural injections. The approach to the diagnosis with CT guided lumbar puncture, myelogram, and minimally invasive techniques including fibrin glue and bloodpatching as well as indications for surgical intervention will be discussed.

Invited speakers include neuroradiology, neurology-ophthalmology, neurosurgery, and orthopedic surgery. If you have cases you would like to have discussed during a last session, send cases for consideration ahead of time to Dr. Gray Leithe at linda.leithe@duke.edu.

Educational Objectives

- Describe the clinical presentation of patients with Spontaneous Intracranial Hypotension (SIH).
- Recognize MR and myelographic imaging findings suggestive of SIH
- Identify minimally invasive and surgical treatment of SIH secondary to CSF leaks

FACULTY

Timothy J. Amrhein, MD

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Isaac O. Karikari, MD

Assistant Professor of Neurosurgery
Department of Neurosurgery
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Deborah I. Friedman, MD, MPH

Professor of Neurology & Neurotherapeutics and
of Ophthalmology
Director, Headache and Facial Pain Program
Chair, Intracranial Pressure Disorders
Integrated Project Team
UTSouthwestern Medical Center
Dallas, TX

Peter G. Kranz, MD

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Durham, NC

Michael D. Malinzak, MD, PhD

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

REGISTRATION FEES

RECEIVED BY 3/15/19

Physicians	\$75
Residents/Fellows	\$60
Nurses/Technologists/PA's/NP's	\$40

RECEIVED AFTER 3/15/19

Physicians	\$95
Residents/Fellows	\$80
Nurses/Technologists/PA's/NP's	\$50



COURSE LOCATION

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

REGISTER TODAY!

Registrations may be submitted online [here](#). To register by fax or mail, see the included registration form. Payment may be made by check, Visa, or MasterCard.

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

TO MAIL PAYMENT:

If registering fax or mail, 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

AGENDA

- 7:30 A.M. Opening Remarks & Breakfast
- 7:45 A.M. Clinical Presentations of CSF Pressure Problems
Deborah Friedman, MD
- 8:15 A.M. Diagnostic Studies for Detecting and Diagnosing CSF Leaks
Peter Kranz, MD
- 8:45 A.M. Minimally Invasive Methods for Treating CSF Leaks
Linda Gray Leithe, MD
- 9:15 A.M. Diagnosis and Treatment of Postpatch Headaches
Michael Malinzak, MD, PhD
- 9:45 A.M. Research Trials
Timothy Amrhein, MD
- 10:15 A.M. Q&A Break
- 10:30 A.M. Surgical Treatment of Disc Induced CSF Leaks
Christopher Brown, MD
- 11:00 A.M. Surgical Treatment of CSF Leaks Secondary to Dural Defects and CSF Venous Fistulas
Isaac Karikari, MD
- 11:30 A.M. Case Presentations
- 12 Noon Q&A
- 12:15 P.M. Adjourn

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 4.25 *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 4.25 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.

REGISTRATION FORM

Intracranial Hypotension: The Duke Experience

March 23, 2019

Renaissance Raleigh North Hills Hotel

Fax or Mail Registration Form

Name: _____ Degree(s): _____

Institution: _____

Email: _____

Address: _____

City/State/Zip: _____

RECEIVED BY 3/15/19

Professionals	\$75
Residents/Fellows	\$60
Nurses/Technologists/PA's/NP's	\$40

RECEIVED AFTER 3/15/19

Professionals	\$95
Residents/Fellows	\$80
Nurses/Technologists/PA's/NP's	\$50

Payment method: Visa/MasterCard Check

Make checks payable to Duke University

Mail checks to: Debbie Griffin, Department of Radiology
Box 3808, DUMC, Durham, NC 27710

Credit Card #: _____

Expiration: ____/____ CVV code: _____

Billing address for card: _____

Amount Paid: _____

Fax to 919-684-7127

Refund Policy

There is a \$25 administrative fee for cancellations. There are no refunds after March 20, 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.