



# Medical and Surgical Interventions in ICH: A Practical Workshop

A multidisciplinary course including hands-on training in endoscopic ICH evacuation.

**Saturday, November 23, 2019**

Northwestern Center for Advanced  
Surgical Education (NCASE)  
240 East Huron Street, Suite LC-0549  
Chicago, Illinois  
7:00 am to 2:30 pm

*Sponsored by Northwestern Medicine*

**REGISTER ONLINE: [cme.northwestern.edu](http://cme.northwestern.edu)**

# Medical and Surgical Interventions in ICH: A Practical Workshop

**Course Directors: Babak S. Jahromi, MD, PhD, and Eric M. Liotta, MD**

With 40% mortality at one month and only 25% of patients functionally independent at six months, intracerebral hemorrhage (ICH) is a devastating disease in dire need of an effective treatment. To date, clinical trials investigating a wide range of therapeutic options including open surgery, aggressive blood pressure control, and hemostatic agents have not demonstrated a benefit for this patient population, resulting in a dearth of options and at times nihilism in care for these patients both locally and across the USA.

This multidisciplinary symposium brings together national and regional experts to review current evidence and help educate practitioners on the latest interventions for ICH. Learners will have greater strategies for managing ICP, seizures and anticoagulation in ICH, along with hands-on training in endoscopic ICH evacuation. The course features two tracks: medical and surgical. The curriculum has been developed with expert faculty in the field to include didactic sessions, hands-on workshop-stations with 3D-printed heads and endoscope ICH evacuation and a multidisciplinary case review in which all attendees bring cases to present institutional ICH management strategies.

## PROGRAM OBJECTIVES

**After attending this educational activity, participants should be able to:**

- 1) Review the natural history, trial data and current treatment options for intracerebral hemorrhage.
- 2) Discuss medical interventions targeting hematoma growth, ICP control, anticoagulation reversal, seizure management and current state-of-the art neurointensive care for patients with intracerebral hemorrhage.
- 3) Demonstrate the evidence behind surgical interventions for intracerebral hemorrhage and the pros/cons of different techniques for minimally invasive ICH evacuation.

For more information, please contact **Sarah Baggs**, Continuing Medical Education administrator, Northwestern Memorial HealthCare, at **[sbaggs@nm.org](mailto:sbaggs@nm.org)**





Photo: B. Jahromi



# Friday, November 22

7:00 pm

Welcome Dinner, Osteria via Stato

# Saturday, November 23

7:00 am

Breakfast and Registration

7:30 am

Welcome and Outline

*Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS, and Eric M. Liotta, MD*

7:45 am

Hematoma Expansion and Pro-coagulants: The Factor VIIa Story

*Stephan A. Mayer, MD, FCCM*

8:15 am

MISTIE-III: Lessons Learnt

*Issam A. Awad, MD*

8:45 am

Refreshment Break/Move to Breakouts

9:00 am

BREAKOUT SESSION

TRACK A

## BREAKOUT ROOM #1

**ICH: History and Progress in MIS approaches**
*Christopher P. Kellner, MD*
**Building an ICH Program: The Economics**
*Dimitri Sigounas, MD*
**Building an ICH Program: The Network**
*Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS*
**Trial Enrollment: Keys to Success**
*Paul S. Saphier, MD*

10:20 am

Refreshment Break / Q&amp;A (15 minutes)

**Procedure and Nuances: EM Navigation and Intraop Ultrasound**
*Christopher P. Kellner, MD*
**Procedure and Nuances: Frame-based Navigation and Intraop CT**
*Matthew B. Potts, MD*
**Hands-on Workshop**
*Matthew B. Potts, MD, and Faculty*



*Photo: B. Jahromi*



## Agenda cont'd...

9:00 am	BREAKOUT SESSION	TRACK B
	<b>BREAKOUT ROOM #2</b> <b>Where are We Now in ICH: Trial Update</b> <i>Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS</i> <b>Prognosis after ICH: Avoiding the Self-fulfilling Prophecy</b> <i>Eric M. Liotta, MD</i> <b>Early Neurologic Resuscitation and ICP management in ICH</b> <i>Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN</i> <b>Reversal/Resumption of Antiplatelets and Anticoagulants ICH: If, When, and How?</b> <i>Andrew M. Naidech, MD, MSPH</i>	
10:20 am	<b>Refreshment Break / Q&amp;A (15 minutes)</b> <b>ICH in the ICU: My Favorite Teachable Cases</b> <i>Stephan A. Mayer, MD, FCCM</i> <b>When ICH Isn't Hypertensive: Expanding the Differential Diagnosis</b> <i>Minjee Kim, MD</i> <b>Screening, Prophylaxis and Management of Seizures in ICH</b> <i>Thomas P. Bleck, MD</i> <b>Working with Your Neurosurgeons in the ICU: Shared Burden and Decision-making</b> <i>Matthew B. Maas, MD, MS</i> <b>Observe/Participate in Hands-on Workshop (join Neurosurgical Faculty)</b>	
12:30 pm	<b>Working Lunch and Case Review (participants must bring cases!)</b> <i>Faculty Panel</i>	
2:30 pm	<b>Adjournment</b>	



# Program Course Director

**Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS**

Chief, Division of Cerebrovascular/Neurointerventional Surgery  
Vice-Chair, Regional Neurosurgery  
Surgical Director,  
Northwestern Memorial Hospital Comprehensive Stroke Center  
Professor, Departments of Neurological Surgery and Radiology  
Northwestern University  
Feinberg School of Medicine

**Eric M. Liotta, MD**

Assistant Professor, Departments of Neurology,  
Section of Neurocritical Care,  
and Surgery, Division of Organ Transplantation  
Northwestern University  
Feinberg School of Medicine

## Invited Faculty

**Issam A. Awad, MD**

The John Harper Seeley  
Professor of Surgery  
Director, Neurovascular Conference  
Director, Safadi Program of Excellence  
in Clinical and Translational Neuroscience  
The University of Chicago Medicine

**Stephan A. Mayer, MD, FCCM**

William T. Gossett Chair of Neurology  
Henry Ford Health System

**Paul S. Saphier, MD**

Director, Minimally Invasive ICH Surgery  
Endovascular/Vascular Neurosurgeon  
Atlantic Neurosurgical Specialists

**Dimitri Sigounas, MD**

Director of Cerebrovascular Neurosurgery  
Assistant Professor,  
Department of Neurological Surgery  
The George Washington University

**Christopher P. Kellner, MD**

Director,  
Intracerebral Hemorrhage Program  
Assistant Professor,  
Department of Neurological Surgery  
The Mount Sinai Hospital

## Northwestern Faculty

**Thomas P. Bleck, MD**

Professor, Department of Neurology  
(Stroke and Critical Care)  
Northwestern University  
Feinberg School of Medicine

**Minjee Kim, MD**

Assistant Professor, Department of  
Neurology (Stroke and Neurocritical Care)  
Northwestern University  
Feinberg School of Medicine

**Matthew B. Maas, MD, MS**

Associate Professor, Departments of  
Neurology (Stroke and Neurocritical Care)  
and Anesthesiology  
Northwestern University  
Feinberg School of Medicine

**Edward M. Manno, MD, FAHA, FANA,  
FCCM, FNCS, FAAN**

Vice Chair for Clinical Affairs,  
Department of Neurology  
Professor, Departments of Neurology  
(Stroke and Neurocritical Care)  
and Neurological Surgery  
Northwestern University  
Feinberg School of Medicine

**Andrew M. Naidech, MD, MSPH**

Physician Informatics Director  
Program Director,  
Neurocritical Care Fellowship  
Faculty Director, Master of Science in  
Health Analytics,  
School of Professional Studies  
Professor, Departments of Neurology,  
Anesthesiology, Medical Social Sciences  
and Preventive Medicine – Health &  
Biomedical Informatics  
Northwestern University  
Feinberg School of Medicine

**Matthew B. Potts, MD**

Assistant Program Director, Neurosurgical  
Residency Training Program  
Assistant Professor,  
Divisions of Cerebrovascular/  
Neurointerventional Surgery,  
Departments of Neurological Surgery  
and Radiology  
Northwestern University  
Feinberg School of Medicine



Photo: B. Jahromi

### Program Location

The program will be held at Northwestern Center For Advanced Surgical Education (NCASE) on Northwestern Medicine's downtown campus:

240 East Huron Street, Suite LC-0549  
Chicago, Illinois 60611

Northwestern is located in the heart of Chicago, within walking distance of a variety of restaurants, Navy Pier and the Magnificent Mile, Chicago's premier shopping area.

**The Magnificent Mile Lights Festival will take place on November 23, with a parade down Michigan Avenue.** For a listing of all Chicago has to offer, visit

### Hotel Accommodations

We have a room block at the Hyatt Centric Chicago Magnificent Mile. Please secure your reservations on or before **November 1**, to ensure **accommodations at the discounted rate**.

### Directions and Parking

Discounted day and overnight parking will be available at 222 East Huron Street, directly across the street from the program. If you are visiting from out of state, downtown Chicago is conveniently located less than 20 miles from both Chicago O'Hare International Airport (ORD) and Chicago Midway International Airport (MDW).

### Audience

This course is designed for physicians managing stroke patients, including neurologists, neurocritical care specialists and neurosurgeons.

### Registration Procedure

The **early bird** registration fee is \$50. After **October 1**, the registration fee is \$100. Additionally, those who register prior to October 1, will receive a **travel stipend**. To register online, please visit [cme.northwestern.edu](http://cme.northwestern.edu).

If paying by check, please mail your check, made payable to Northwestern Memorial Hospital (CME), to the following address, prior to **November 1**.

Sarah Baggs  
c/o Northwestern Memorial HealthCare  
420 East Superior Street, Suite 900  
Chicago, IL 60611

### Accreditation Statement

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### Credit Designation Statement

The Northwestern University Feinberg School of Medicine designates this educational activity for a maximum of **6.25 AMA PRA Category 1 Credit(s)**<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Photo: B. Jahromi



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Saturday, November 23

## Registration Form

### Registration Category

- ☐ **Early Bird** ..... \$50  
☐ **After October 1** ..... \$100

### How to Register

 **ONLINE:** [cme.northwestern.edu](http://cme.northwestern.edu)

 **OR MAIL** with check (payable to Northwestern Memorial Hospital (CME))

Sarah Baggs  
c/o Northwestern Memorial HealthCare  
420 East Superior Street, Suite 900  
Chicago, Illinois 60611

### For Questions:

**Email:** sbaggs@nm.org

**Phone:** 312.503.4005

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### Please Type or Print

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Title \_\_\_\_\_ Specialty \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Email (Required) \_\_\_\_\_

*Your registration confirmation will be emailed*

Special Dietary Requirements \_\_\_\_\_

*Please advise us of your needs*

Disability Accommodations \_\_\_\_\_

*Advance notification required*

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### How did you hear about our program?

☐ Brochure ☐ Email ☐ Website ☐ Word of Mouth



Photo: B. Jahromi

