



# Northwestern Medicine Stroke Team Presents: Two CME Programs

**2019 NORTHWESTERN  
MEDICINE COMPREHENSIVE  
STROKE AND  
CEREBROVASCULAR  
CONFERENCE**

**Saturday, September 14**

Sheraton Grand Chicago  
301 East North Water Street,  
Chicago Ballroom  
Chicago, Illinois  
7:00 am to 3:30 pm

**2019 EMERGENCY  
NEUROLOGICAL LIFE SUPPORT  
(ENLS) CME CONFERENCE**

**Sunday, September 15**

Northwestern Medicine  
Prentice Women's Hospital  
250 East Superior Street  
Third Floor, Conference Room L North  
Chicago, Illinois  
7:30 am to 2:45 pm

*Sponsored by Northwestern Medicine*

REGISTER ONLINE: [northwestern.cloud-cme.com](http://northwestern.cloud-cme.com)

# 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference

**Course Directors: Richard A. Bernstein, MD, PhD, Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS, Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN, Ali Shaibani, MD, FAHA, and Harish N. Shownkeen, MD, FAHA**

Patient data and referral patterns tell us community practitioners may be unaware of the recent advances in the diagnosis, treatment and management of ischemic and hemorrhagic stroke patients. It can be difficult for the busy practitioner to take time away from their practice to learn what is new, including changes to the guidelines in the management of acute ischemic stroke, clinical trials and the new criteria for imaging.

The 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference offers busy providers the opportunity to improve their knowledge in stroke diagnosis and management in a convenient one-day course. Recently published findings and guidelines for treating patients for ischemic and hemorrhagic stroke will be discussed in detail, as well as other current measures to treat and manage strokes quickly and effectively to mitigate damage.

Participants will hear from expert clinician leaders from [Northwestern Medicine](#) regarding the advances in stroke medicine. We are also excited to welcome our guest speaker, **Colin Derdeyn, MD, Krabbenhoft Chair in Radiology and director of the Iowa Institute of Biomedical Imaging at University of Iowa Carver College of Medicine.**

## PROGRAM OBJECTIVES

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

1. Recognize the role of the emergency department in triaging acute stroke patients and coordination with paramedics in the field.
2. Apply the importance of rehabilitation intervention for early recovery of stroke patients.
3. Examine the cardiac causes of stroke, as well as current clinical trials and the medical and interventional management options available.
4. Outline current state-of-the-art endovascular treatment of acute ischemic stroke and discuss various clinical trials in endovascular management.
5. Identify the role of nurses in the acute intervention, management and care of stroke patients.
6. Examine the role of frontline neuroradiology imaging and functional imaging in acute stroke and paradigm in triaging patients for acute intervention.
7. Evaluate endovascular and surgical options for revascularization.
8. Review criteria for both surgical and endovascular options for patients with unruptured intracranial aneurysm.
9. Examine causes and management of subarachnoid hemorrhage.
10. Integrate the role of a neurointerventionist in the prevention of complications related to acute stroke and present current guidelines.
11. Recommend the management of ruptured cerebral aneurysm.

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

# Saturday, September 14

2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference

<b>7:00 am</b>	<b>Registration and Breakfast</b>
<b>8:00 am</b>	<b>Welcome</b> <i>James G. Adams, MD</i>
<b>8:10 am</b>	<b>Keynote Speaker: Imaging Selection for Ischemic Stroke Treatment</b> <i>Colin P. Derdeyn, MD, FACR</i>
<b>8:55 am</b>	<b>STROKE IN THE PREHOSPITAL SETTING</b> <i>Moderators: James G. Adams, MD, Colin P. Derdeyn, MD, FACR, Stephen J. Graham, MD, and Scott J. Mendelson, MD, PhD</i>
	<b>EMS Transport "Direct to CSC": Perspectives and Experience</b> <i>Christopher T. Richards, MD, MS, FAEMS, FACEP</i>
	<b>MSU vs. ED Outcomes: Two Years' Experience in the Real World</b> <i>Harish N. Shownkeen, MD, FAHA</i>
	<b>Panel Discussion and Q&amp;A</b>
<b>9:40 am</b>	<b>Refreshment Break</b>
<b>10:00 am</b>	<b>STROKE PREVENTION</b> <i>Moderators: Paul E. Later, MD, and Kapil Sachdeva, MD, MS</i>
	<b>ASA for Primary Stroke Prevention: Yes or No?</b> <i>Tudor Iacob, MD</i>
	<b>New Tools for Stroke Prevention</b> <i>Richard A. Bernstein, MD, PhD</i>
	<b>Detection of Cardioembolic Stroke: Who, When and How?</b> <i>Scott J. Mendelson, MD, PhD</i>
	<b>Intervention for Cardioembolic Stroke: PFO/ASD/LAA Closure</b> <i>Albert C. Lin, MD FACC, FHRS</i>
	<b>Panel Discussion and Q&amp;A</b>
<b>11:15 am</b>	<b>Lunch Buffet/Choose a Breakout Session</b>
<b>11:45 am</b>	<b>BREAKOUT 1 - CEREBROVASCULAR INTERVENTION</b> <i>Moderators: Sameer A. Ansari, MD, PhD, and Matthew B. Potts, MD</i>
	<b>Unusual Carotid Causes of Stroke: Webs and Stumps</b> <i>Michael C. Hurley, MD, BAO, MRCPI, FRCR, FRRCSI</i>
	<b>Revascularization for Acute vs. Chronic Carotid Occlusion</b> <i>Ali Shaibani, MD, FAHA</i>
	<b>Thrombectomy Dilemmas: &gt;24-Hour, Large-Core, Minor-Stroke</b> <i>Avi Mazumdar, MD</i>
	<b>New Horizons in Aneurysm Flow Diversion</b> <i>Harish N. Shownkeen, MD, FAHA</i>
	<b>Panel Discussion and Q&amp;A</b>
<b>11:45 am</b>	<b>BREAKOUT 2 - NEUROCRITICAL CARE IN STROKE</b> <i>Moderators: Jeffrey P. Huml, MD, and Minjee Kim, MD</i>

**ICP Management: Hypertonic Saline vs. Mannitol**

*Eric M. Liotta, MD*

**Blood Pressure Management in ICH**

*Matthew B. Maas, MD, MS*

**Vasospasm Trials and Treatment: End of the Road?**

*Ayush Batra, MD*

**The Challenging Stroke Patient**

*Ilana Ruff, MD*

**Panel Discussion and Q&A**

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**11:45 am**

**BREAKOUT 3 - APP/RN UPDATE ON STROKE**

*Moderators: Deborah L. Bergman, MS, APRN, FNP-BC, FAHA, Anne Lindstrom, MS, APRN, FNP-BC, SCRN, Trisha Raetz, APN, CNRN, SCRN, and Emily Roberts, APN, AGPCNP-BC, RN, BSN, MSN*

**How to Improve “Door-To” Metrics at Your Stroke Center**

*Kari Cotton, BSN, RN, PCCN, SCRN*

**Role of Early Mobilization in Stroke Recovery**

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

**Stroke Recovery After Rehab: What’s Next?**

*Mahesh Ramachandran, MD*

**Successful Outpatient Stroke Follow-up and Prevention: Tips and Tricks**

*Linda Vaickus, MSN, APRN, AGACNP-BC, BA*

**Panel Discussion and Q&A**

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**1:00 pm**

**Refreshment Break/Reconvene**

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**1:20 pm**

**ACUTE ISCHEMIC STROKE**

*Moderators: Tomi L. Ashaye, MD, Richard A. Bernstein, MD, PhD, and Dhruvil J. Pandya, MD*

**Vasculopathic Stroke**

*Frances Z. Caprio, MD*

**Advances in Vessel Wall Imaging: What Can it Tell Us About Stroke?**

*Sameer A. Ansari, MD, PhD*

**Intracranial Angioplasty/Stenting: If, When and How?**

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

**Panel Discussion and Q&A**

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**2:20 pm**

**ACUTE HEMORRHAGIC STROKE**

*Moderators: Osaama H. Khan, MD, MSc, and Michael T. Walsh, MD*

**Anticoagulation/Antiplatelet Reversal in ICH**

*Andrew M. Naidech, MD, MSPH*

**Intervention for ICH: Latest Data and Upcoming Trials**

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

**Intervention for AVM: Who, When and How?**

*Matthew B. Potts, MD*

**Panel Discussion and Q&A**

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**3:20 pm**

**Closing Comments and Adjournment**



Saturday, September 14

## 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference

### Program Location

The program will be held at the Sheraton Grand Chicago at 301 East North Water Street. The hotel is in the heart of the bustling downtown district, along the Chicago Riverwalk, steps away from iconic attractions including Millennium Park, Navy Pier and the Magnificent Mile, Chicago's premier shopping area. For a listing of all Chicago has to offer, visit [choosechicago.com](http://choosechicago.com).

### Hotel Accommodations

We have a room block at the [Sheraton Grand Chicago](http://SheratonGrandChicago.com). Please secure your reservations on or before 5 pm CST on Saturday, August 24, to ensure accommodations at the discounted rate.

### Parking

Discounted day and overnight parking will be available at the Sheraton Grand Chicago. 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 all healthcare providers managing patients following stroke, including emergency medicine specialists, cardiologists, neurologists, neurosurgeons, radiologists, advanced care providers, nurses, nurse practitioners, physician assistants, physical therapists, occupational therapists, speech language pathologists, social workers and allied health professionals.

### Registration Fee

The fee is \$110 for physicians and \$55 for trainees, nurses, OT's, PT's, SLP's and other healthcare professionals. Breakfast, refreshments and lunch are provided. Space is limited. No refunds will be issued after **August 24**.

### Registration Procedure

To register online, please visit [northwestern.cloud-cme.com](http://northwestern.cloud-cme.com). If paying with check, please mail your check, made payable to Northwestern Memorial Hospital (CME), to the address listed below, prior to August 24.

**Sarah Baggs**

**c/o Northwestern Memorial HealthCare**

420 East Superior Street, Suite 9-905

Chicago, Illinois 60611

If registering online, you will have the option to register for both events at checkout.

### 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 AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Occupational Therapists

This course has been approved for continuing education hours for occupational therapy practitioners by the Illinois Occupational Therapy Association. *CE Hours Awarded: 6 Maximum.*

### Physical Therapists

The Illinois Chapter Continuing Education Committee has certified that this course meets the criteria for approval of Continuing Education offerings established by The Illinois Physical Therapy Association. *CE Hours Awarded: 6 Maximum.*

# Program Course Directors and Planning Committee

**Deborah L. Bergman, MS, APRN, FNP-BC, FAHA**

*Program Director,  
Northwestern Medicine  
Comprehensive Stroke Center  
Northwestern Memorial Hospital*

**Richard A. Bernstein, MD, PhD**

*Northwestern Medicine Distinguished  
Physician in Vascular Neurology  
Medical Director  
Lake Forest Primary Stroke Center  
Clinical Director, Telehealth  
Professor, Department of Neurology  
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**Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS**

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Vice-Chair, Regional Neurosurgery  
Surgical Director, Northwestern Medicine  
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**Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN**

*Vice Chair for Clinical Affairs,  
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**Ali Shaibani, MD, FAHA**

*Co-Director, Neurointerventional Surgery  
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**Harish N. Shownkeen, MD, FAHA**

*Medical Director,  
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Comprehensive Stroke Center and  
Neurovascular Program  
Co-Medical Director, Mobile Stroke Unit  
Section Chair, Neurosciences  
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Central DuPage Hospital  
Adjunct Faculty, Neuroscience Institute,  
Cerebrovascular Section  
Cleveland Clinic*

## Invited Faculty

**Colin P. Derdeyn, MD, FACR**

*Krabbenhoft Chair and  
Department Executive Officer  
Director, Iowa Institute of  
Biomedical Imaging  
Director, NeuroEndovascular Service  
Professor of Radiology -  
Division of Neuroradiology  
Professor of Neurology  
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Carver College of Medicine*

## Program Faculty

**James G. Adams, MD**

*Senior Vice President and  
Chief Medical Officer  
Northwestern Medicine  
Chairman and Professor,  
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**Sameer A. Ansari, MD, PhD**

*Associate Professor, Departments  
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**Tomi L. Ashaye, MD**

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Northwestern Medicine  
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Director, Surgical Neuro-oncology  
Director, Brain Tumor Bank  
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**Minjee Kim, MD**

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**Paul E. Later, MD**

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

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**Avi Mazumdar, MD**

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Program Director,  
Neurocritical Care Fellowship  
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**Christopher T. Richards, MD, MS, FAEMS, FACEP**

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Assistant ED Medical Director for Neurological Emergencies,  
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Assistant Professor,  
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**Ilana Ruff, MD**

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**Kapil Sachdeva, MD, MS**

Attending Neurologist  
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**Linda Vaickus, MSN, APRN, AGACNP-BC, BA**

Neurocritical Care Unit  
Northwestern Medicine  
Comprehensive Stroke Center  
Northwestern Memorial Hospital

**Michael T. Walsh, MD**

Health System Clinician,  
Department of Neurosurgery  
Northwestern University  
Feinberg School of Medicine

# 2019 Emergency Neurological Life Support (ENLS) CME Conference

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

The course was developed by emergency medicine physicians and neurointensivists to fill a perceived educational and practical void of standardized care for the acutely ill neurological patient.

The 2019 Emergency Neurological Life Support (ENLS) CME Conference is a national certified course designed to help healthcare professionals improve outcomes during the first hours of a neurological emergency. The course is divided into 14 training modules designed to provide a consistent set of protocols, practical checklists, decision points, and suggested communication to use during patient management.

## PROGRAM OBJECTIVES

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

1. Recognize the signs and symptoms of acute ischemic stroke.
2. Apply, in a timely fashion, acute stroke interventions including tPA and endovascular approaches.
3. Diagnose and classify transient ischemic attack (TIA) and implement stroke prevention.
4. Recognize when the complaint of weakness is caused by an emergency process.
5. Classify weakness as caused by a problem with the central or peripheral nervous system.
6. Demonstrate the need for airway protection and ventilation.
7. Select medications used for induction and sedation post tracheal intubation.
8. Choose medications for sedation of patients with neurological emergencies who are intubated and who are not intubated.
9. Utilize a neurological exam in a patient with coma.
10. Assess airway and need for assisted ventilation.
11. Establish a diagnosis of the cause of coma.
12. Identify and apply treatment for the most likely cause of coma if indicated.
13. Apply a rapid neurological assessment on a patient.
14. Calculate the ICH score.

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



# Sunday, September 15

2019 Emergency Neurological Life Support (ENLS) CME Conference

<b>7:30 am</b>	<b>Registration and Continental Breakfast</b>
<b>8:00 am</b>	<b>Introduction and Information on Certification</b> <i>Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN</i>
<b>8:15 am</b>	<b>Approach to the Comatose Patient</b> <i>Matthew B. Maas, MD, MS</i>
<b>8:35 am</b>	<b>Airway, Ventilation and Sedation</b> <i>Jeffrey P. Huml, MD</i>
<b>8:55 am</b>	<b>Traumatic Spine Injury</b> <i>Matthew B. Maas, MD, MS</i>
<b>9:15 am</b>	<b>Acute Non-Traumatic Weakness</b> <i>Ayush Batra, MD</i>
<b>9:35 am</b>	<b>Q&amp;A and Break</b>
<b>9:55 am</b>	<b>Acute Ischemic Stroke</b> <i>Matthew B. Maas, MD, MS</i>
<b>10:15 am</b>	<b>Intracerebral Hemorrhage</b> <i>Ayush Batra, MD</i>
<b>10:35 am</b>	<b>Subarachnoid Hemorrhage</b> <i>Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS</i>
<b>10:55 am</b>	<b>Q&amp;A</b>
<b>11:10 am</b>	<b>Traumatic Brain Injury</b> <i>Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS</i>
<b>11:30 am</b>	<b>Lunch</b>
<b>12:15 pm</b>	<b>Resuscitation Following Cardiac Arrest</b> <i>Minjee Kim, MD</i>
<b>12:35 pm</b>	<b>Spinal Cord Compression</b> <i>Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN</i>
<b>12:55 pm</b>	<b>Pharmacotherapy</b> <i>Minjee Kim, MD</i>
<b>1:10 pm</b>	<b>Intracranial Hypertension and Herniation</b> <i>Edward M. Manno, MD, FAHA, FANA, FCCM, FNCS, FAAN</i>
<b>1:30 pm</b>	<b>Q&amp;A and Break</b>
<b>1:50 pm</b>	<b>Status Epilepticus</b> <i>Edward M. Manno, MD</i>
<b>2:10 pm</b>	<b>Meningitis and Encephalitis</b> <i>Minjee Kim, MD</i>
<b>2:30 pm</b>	<b>Closing Remarks and Questions</b>



Sunday, September 15

## 2019 Emergency Neurological Life Support (ENLS) CME Conference

### Program Location

The program will be held at Northwestern Medicine Prentice Women's Hospital, 250 East Superior Street, Third Floor, Conference Room L South, Chicago.

### Hotel Accommodations

We have a room block at the Sheraton Grand Chicago, the site of the 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference on September 14. The hotel is less than 1 mile from Prentice Women's Hospital. Please secure your reservations on or before 5 pm CST on Saturday, August 24, to ensure accommodations at the discounted rate.

### Parking

Discounted day and overnight parking will be available at the [Sheraton Grand Chicago](#). If you are not staying overnight, we recommend parking in the garage just south of the hospital at 222 East Huron Street, where discounted parking will also be available.

### Audience

This course is designed for healthcare providers managing patients within the first hour of a neurological medical emergency, including first responders, emergency department physicians, critical care physicians, neurosurgeons, nurses, pharmacists, medical students and resident/fellow trainees.

### Registration Fee

The fee is \$80 for physicians and \$40 for trainees, nurses and other healthcare professionals. Breakfast, refreshments and lunch are provided. Space is limited. No refunds will be issued after **August 24**.

### Registration Procedure

To register online, please visit [northwestern.cloud-cme.com](http://northwestern.cloud-cme.com). If paying with check, please mail your check, made payable to Northwestern Memorial Hospital (CME), to the address listed below, prior to August 24.

**Sarah Baggs**

**c/o Northwestern Memorial HealthCare**

420 East Superior Street, Suite 9-905  
Chicago, Illinois 60611

If registering online, you will have the option to register for both events at checkout.

### Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Northwestern University Feinberg School of Medicine and Neurocritical Care Society. The Northwestern University Feinberg School of Medicine is accredited by the 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 5.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**If you choose to attend both events, registration fees will be offered at a discounted rate. The fee to attend both events:**

**Physicians - \$150**

**Trainees, nurses and other providers - \$80**

2019 Northwestern Medicine Comprehensive Stroke  
and Cerebrovascular Conference

AND

2019 Emergency Neurological Life Support (ENLS)  
CME Conference

Saturday and Sunday,  
September 14-15

# Registration Form

## Registration Category

- Comprehensive Stroke and Cerebrovascular Conference**..... Attending physician \$110  Nurse or other HCP \$55  
 **Emergency Neurological Life Support (ENLS)**..... Attending physician \$80  Nurse or other HCP \$40  
 **Both**..... Attending physician \$150  Nurse or other HCP \$80

## How to Register

 **ONLINE:** [northwestern.cloud-cme.com](http://northwestern.cloud-cme.com)

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

Sarah Baggs  
c/o Northwestern Memorial HealthCare  
420 East Superior Street  
Suite 9-905  
Chicago, Illinois 60611

## For Questions:

**Email:** [sbaggs@nm.org](mailto:sbaggs@nm.org)

**Phone:** 312.503.4005

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## Please Type or Print

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

Attending Physician  Trainee  RN  APP/APN  OT  PT  SLP  Other

Institution \_\_\_\_\_

Address \_\_\_\_\_

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

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

*Your registration confirmation will be emailed*

Specialty \_\_\_\_\_

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

*Advance notification required*

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

*Please advise us of your needs*

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## How did you hear about our program?

- Brochure  Email  Website  Twitter  
 Word of Mouth  Previous Attendee

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EMERGENCY NEUROLOGICAL  
LIFE SUPPORT