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
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.
# Agenda

## 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference

### Saturday, September 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Registration and Breakfast</td>
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<tr>
<td>8:00 am</td>
<td>Welcome</td>
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<tr>
<td></td>
<td>James G. Adams, MD</td>
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<tr>
<td>8:10 am</td>
<td><strong>Keynote Speaker: Imaging Selection for Ischemic Stroke Treatment</strong></td>
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<td>Colin P. Derdeyn, MD, FACR</td>
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<tr>
<td>8:55 am</td>
<td><strong>STROKE IN THE PREHOSPITAL SETTING</strong></td>
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<tr>
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<td>Moderators: James G. Adams, MD, Colin P. Derdeyn, MD, FACR, Stephen J. Graham, MD, and</td>
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<td>Scott J. Mendelson, MD, PhD</td>
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<td>EMS Transport “Direct to CSC”: Perspectives and Experience</td>
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<td>Christopher T. Richards, MD, MS, FAEMS, FACEP</td>
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<td>MSU vs. ED Outcomes: Two Years' Experience in the Real World</td>
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<td>Harish N. Shownkeen, MD, FAHA</td>
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<td>Panel Discussion and Q&amp;A</td>
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<tr>
<td>9:40 am</td>
<td>Refreshment Break</td>
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<tr>
<td>10:00 am</td>
<td><strong>STROKE PREVENTION</strong></td>
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<td>Moderators: Paul E. Later, MD, and Kapil Sachdeva, MD, MS</td>
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<td>ASA for Primary Stroke Prevention: Yes or No?</td>
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<td>Tudor Iacob, MD</td>
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<td>New Tools for Stroke Prevention</td>
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<td>Richard A. Bernstein, MD, PhD</td>
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<td>Detection of Cardioembolic Stroke: Who, When and How?</td>
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<td>Scott J. Mendelson, MD, PhD</td>
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<td>Intervention for Cardioembolic Stroke: PFO/ASD/LAA Closure</td>
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<td>Albert C. Lin, MD, FACC, FHRS</td>
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<td>Panel Discussion and Q&amp;A</td>
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<td>11:15 am</td>
<td>Lunch Buffet/Choose a Breakout Session</td>
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<td>11:45 am</td>
<td><strong>BREAKOUT 1 - CEREBROVASCULAR INTERVENTION</strong></td>
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<td>Moderators: Sameer A. Ansari, MD, PhD, and Matthew B. Patts, MD</td>
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<td>Unusual Carotid Causes of Stroke: Webs and Stumps</td>
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<td>Michael C. Hurley, MD, BAO, MRCP, FRCR, FRRCSI</td>
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<td>Revascularization for Acute vs. Chronic Carotid Occlusion</td>
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<td>Ali Shabani, MD, FAHA</td>
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<td>Thrombectomy Dilemmas: &gt;24-Hour, Large-Core, Minor-Stroke</td>
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<td>Avi Mazumdar, MD</td>
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<td>New Horizons in Aneurysm Flow Diversion</td>
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<td>Harish N. Shownkeen, MD, FAHA</td>
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<td>Panel Discussion and Q&amp;A</td>
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<td>11:45 am</td>
<td><strong>BREAKOUT 2 - NEUROCRITICAL CARE IN STROKE</strong></td>
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<td>Moderators: Jeffrey P. Huml, MD, and Minjee Kim, MD</td>
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*Saturday, September 14, 2019 Northwestern Medicine Comprehensive Stroke and Cerebrovascular Conference*
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
<th>Moderators</th>
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<tr>
<td>11:45 am</td>
<td><strong>BREAKOUT 3 - APP/RN UPDATE ON STROKE</strong></td>
<td>How to Improve “Door-To” Metrics at Your Stroke Center</td>
<td>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</td>
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<td>Role of Early Mobilization in Stroke Recovery</td>
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<td>Stroke Recovery After Rehab: What’s Next?</td>
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<td>Successful Outpatient Stroke Follow-up and Prevention: Tips and Tricks</td>
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<td>1:00 pm</td>
<td><strong>Refreshment Break/Reconvene</strong></td>
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<tr>
<td>1:20 pm</td>
<td><strong>ACUTE ISCHEMIC STROKE</strong></td>
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<td>Tomi L. Ashaye, MD, Richard A. Bernstein, MD, PhD, and Dhruvil J. Pandya, MD</td>
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<td>Vascularopathic Stroke</td>
<td>Frances Z. Caprio, MD</td>
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<td>Advances in Vessel Wall Imaging: What Can it Tell Us About Stroke?</td>
<td>Sameer A. Ansari, MD, PhD</td>
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<td>Intracranial Angioplasty/Stenting: If, When and How?</td>
<td>Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS</td>
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<td>2:20 pm</td>
<td><strong>ACUTE HEMORRHAGIC STROKE</strong></td>
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<td>Osaama H. Khan, MD, MSc, and Michael T. Walsh, MD</td>
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<td>Anticoagulation/Antiplatelet Reversal in ICH</td>
<td>Andrew M. Naidech, MD, MSPH</td>
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<td>Intervention for ICH: Latest Data and Upcoming Trials</td>
<td>Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS</td>
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<td>Intervention for AVM: Who, When and How?</td>
<td>Matthew B. Potts, MD</td>
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<tr>
<td>3:20 pm</td>
<td><strong>Closing Comments and Adjournment</strong></td>
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**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.

**Hotel Accommodations**
We have a room block at the Sheraton Grand Chicago. 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. 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)™. 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 (Stroke and Neurocritical Care) Northwestern University Feinberg School of Medicine

Babak S. Jahromi, MD, PhD, FRCSC, FAANS, FAHA, FACS
Chief, Division of Cerebrovascular/Neurointerventional Surgery Vice-Chair, Regional Neurosurgery Surgical Director, Northwestern Medicine Comprehensive Stroke Center Professor, Departments of Neurological Surgery and Radiology 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

Ali Shaibani, MD, FAHA
Co-Director, Neurointerventional Surgery Section Chief, Interventional Neuroradiology Professor, Departments of Radiology and Neurosurgery Northwestern University Feinberg School of Medicine

Harish N. Shownkeen, MD, FAHA
Medical Director, Neurointerventional Surgery Medical Director, Northwestern Medicine Comprehensive Stroke Center and Neurovascular Program Co-Medical Director, Mobile Stroke Unit Section Chair, Neurosciences Northwestern Medicine 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 University of Iowa Carver College of Medicine

Program Faculty

James G. Adams, MD
Senior Vice President and Chief Medical Officer Northwestern Medicine Chairman and Professor, Department of Emergency Medicine Northwestern University Feinberg School of Medicine

Sameer A. Ansari, MD, PhD
Associate Professor, Departments of Radiology, Neurological Surgery and Neurology Northwestern University Feinberg School of Medicine

Tomi L. Ashaye, MD
Epileptologist Northwestern Medical Group Health System Clinician, Department of Neurology Northwestern University Feinberg School of Medicine

Ayush Batra, MD
Assistant Professor, Departments of Neurology (Stroke and Neurocritical Care) and Pathology Northwestern University Feinberg School of Medicine

Frances Z. Caprio, MD
Assistant Professor, Department of Neurology (Stroke and Neurocritical Care) Northwestern University Feinberg School of Medicine

Kari Cotton, BSN, RN, PCCN, SCRN
Stroke Program Coordinator Patient Care Services Northwestern Medicine Delnor Hospital

Stephen J. Graham, MD
EMS Medical Director Northwestern Medicine Central DuPage Hospital
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.
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.
Sunday, September 15
2019 Emergency Neurological Life Support (ENLS) CME Conference

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

Registration Form

Registration Category

- Comprehensive Stroke and Cerebrovascular Conference
- Emergency Neurological Life Support (ENLS)
- Both

How to Register

- ONLINE: 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

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) ________________________________________________________________________________________________

Specialty ______________________________________________________________________________________________________

Special Dietary Requirements ____________________________________________________________________________________

Disability Accommodations ___________________________________________ Advance notification required

How did you hear about our program?

- Brochure
- Email
- Website
- Twitter
- Word of Mouth
- Previous Attendee

How to Register

- ONLINE: 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

Your registration confirmation will be emailed

For Questions:

Email: sbaggs@nm.org
Phone: 312.503.4005

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