

2014
Comprehensive
Update: Stroke and
Neurocritical Care

Stroke Care across the Continuum

With a unique opportunity to become certified in Emergency Neurologic Life Support (ENLS) or Advanced Stroke Life Support (ASLS)

October 16-17

Hilton Columbus at Easton 3900 Chagrin Drive Columbus, Ohio 43219

This program is endorsed by the Neurocritical Care Society.







2014 Comprehensive Update: Stroke and Neurocritical Care

With a unique opportunity to become certified in Emergency Neurologic Life Support (ENLS) or Advanced Stroke Life Support (ASLS)

Please join neurovascular and neurocritical care subspecialists from The Ohio State University Wexner Medical Center and Mount Carmel to learn the latest regarding diagnosis and treatment in comprehensive stroke and neurocritical care.

The opportunity to participate in an EMS Simulation Lab is available. If you are interested, sign up for a time when completing your registration for the conference.

Day one provides the opportunity to learn and to become certified in Emergency Neurologic Life Support (ENLS) or Advanced Stroke Life Support (ASLS).

Day two offers concurrent sessions available for:

- Advanced Practice Nurses
- Nurses
- Paramedics
- Pharmacists

- Physiatrists
- Physicians
- Therapists



Hotel Accommodations

A block of rooms has been reserved for conference attendees at the Hilton Columbus at Easton at a special rate of \$179 a night.

To make a reservation, call 614-414-5000 and reference "Ohio State Mount Carmel". To guarantee the group rate and room availability, please make your reservation by Monday, September 15, 2014.

The Ohio State University Wexner Medical Center

Erik Abel, PharmD, BCPS

Specialty Practice Pharmacist

Reza Behrouz, DO, FANA, FAHA

Director, Cerebrovascular Diseases Fellowship Program Associate Professor of Neurology

Aaron Boster, MD

Assistant Professor of Neurology

Michael Boyd, PharmD, BCPS

Specialty Practice Pharmacist, Electrophysiology

Mohammed Chmayssani, MD

Medical Director, Neuro Progressive Care Unit

Assistant Professor, Neurology and Neurological Surgery

Diana Greene-Chandos, MD

Director, Neuroscience Critical Care – Education, Quality and Outreach Program Director, Neuroscience Critical Care Fellowship

Symposium Co-Director

Noah Grose, RN, BSN, MSN, ACNP-BC

Acute Care Nurse Practitioner, Neurovascular Stroke Center

Shaheryar Hafeez, MD

Neurocritical Care Fellow, Neurovascular Stroke Center

Mahmoud Houmsse, MD, FACP, FACC

Medical Director, ECG and Arrhythmia Monitoring Lab Associate Professor, Clinical Internal Medicine

Brendan Kelley, MD

Associate Professor, Neurology

Tom Lawson, ACNP

Neurovascular Stroke Center

Claire Murphy, PharmD, BCPS

Specialty Practice Pharmacist, Burn/Surgical Critical Care

Sunil Mutgi, MD

Stroke Fellow, Neurovascular Stroke Center

Shahid Nimjee, MD, PhD

Clinical Assistant Professor, Neurological Surgery

Ciaran Powers MD, PhD

Surgical Director, Neurovascular Stroke Center

Neurosurgical Residency Director

Symposium Co-Director

Kevin C. Reeves, MD

Clinical Assistant Professor of Psychiatry

Michel Torbey, MD, MPH, FAHA, FCCM

Director, Division of Cerebrovascular Diseases and Neurocritical Care Medical Director, Neurovascular Stroke Center

Vice Chair, Hospital Affairs

Karen Wiles, BSN, RN, CCM

Associate Director, Telestroke Program

Susan Yeager, MS, RN, CCRN, ACNP

Lead Nurse Practitioner, Neurovascular Stroke Center Clinical Instructor, Neurocritical Care

Patrick Youssef, MD

Clinical Assistant Professor, Neurological Surgery

Asma Zakaria, MBBS

Assistant Professor, Neurology and Neurological Surgery

Mount Carmel

Dipti Dani, MA, CCC/SLP, BCS-S Speech Language Pathologist

Steven Gentile, MDStroke Medical Director, MCW
Emergency Physician

Dan Kirgesner, PharmD Patient Care Pharmacist

Bradford Mullin, MD Chief, Neurological Surgery, MCE

Charise Vacca PT, DPT Physical Therapist

Guest Speakers

William Barsan, MD

Professor of Emergency Medicine
University of Michigan
Principal Investigator of Clinical
Coordinating Center for the Neurological
Emergencies Treatment Trials Network
(NETT)

Joe Farmer, EMT-P
ASLS Instructor Coordinator

J. Claude Hemphill III, MD, MAS

Co-Director, University of California, San Francisco Brain and Spinal Injury Center Director, Neurocritical Care, San Francisco General Hospital

Stephanie Parker, BSN, RN

Project Manager, Mobile Stroke Unit Department of Neurology Stroke Team University of Texas Health Science Center at Houston

Nationwide Children's Hospital

Steven Roach, MDChief, Pediatric Neurology
Vice-Chair, Pediatrics

THURSDAY, OCTOBER 16:

Day one provides the opportunity to learn and to become certified in Emergency Neurologic Life Support (ENLS) or Advanced Stroke Life Support (ASLS).

Emergency Neurologic Life Support (ENLS)

Emergency Neurological Life Support (ENLS) is a series of protocols suggesting important steps to take in the first hour of a neurological emergency. ENLS is designed to help healthcare professionals improve patient care and outcomes during the most crucial time—the critical first hours of the patient's neurological emergency. ENLS demonstrates a collaborative, multidisciplinary approach and provides a consistent set of protocols, practical checklists, decision points and suggested communication to use during patient management.

ENLS BENEFITS

- · Advanced knowledge
- Improved patient care and outcomes
- Ability to be up to date/current on advancements in treatment
- · A select set of topics that are directly relevant to neurocritical care

After the course, participants will be directed to the Neurocritical Care Society website to certify their CME participation. Online testing, with a score of 70 percent or greater, is required to gain the certification.

Learn more about the program at enls.neurocriticalcare.org.

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 the University of California, San Francisco School of Medicine (UCSF) and the Neurocritical Care Society. UCSF is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

The University of California, San Francisco School of Medicine (UCSF) designates this enduring material for a maximum of 15 *AMA PRA Category 1 Credit*(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The ENLS Course is certified as an enduring material. **CME credits for the ENLS Course will be awarded upon successful completion of online modules and several subsequent exams.** The live instruction portion of the course is not certified for CME credit.

Advanced Stroke Life Support (ASLS)

A key feature of the ASLS ® curriculum is hands-on skills training, during which instructors simulate stroke syndromes, and learners perform the Miami Emergency Neurologic Deficit (MEND) Examination, a unique neurologic assessment tool developed with the course. Computer-based multimedia skills training, interactive discussions, and didactic sessions are also components of the curriculum.

ASLS BENEFITS

- Describe why early treatment may result in a marked reduction in risk of disability
- Identify the five main stroke syndromes and relate them to pathophysiology and clinical signs
- Perform focused evaluation to identify stroke, its location and severity, and t-PA contraindications

This course is certified for 8 hours of EMS CEUs by the Ohio State's Center for EMS.

FRIDAY, OCTOBER 17:

Concurrent sessions to provide a comprehensive look at neurovascular disease.

After this session, attendees will be able to:

- Identify additional options for intravenous thrombolysis beyond recombinant tissue-type plasminogen activator (rt-PA) and recognize research, such as expansion of the treatment window, in acute stroke thrombolysis.
- Identify the changes in guidelines for acute management of ischemic stroke and apply these guidelines to practice.
- Describe signs and symptoms that can be identified as stroke mimics and predict alternative treatment options.
- Explain the technological advancements in telemedicine in regard to stroke care taking place in the rural setting that can impact current practice and improve outcomes through the administration of thrombolysis therapy.
- Identify the differences in the presentation and treatment of stroke in children.
- Define the patient population that can benefit from surgical hemicraniectomy as a treatment for stroke, and recognize how selection and timing is vital to patient outcomes.
- Describe new treatment options and research for cyptogenic stroke and utilize this technology in practice.
- Identify and incorporate the new management and treatment techniques in regard to intracranial and extracranial vascular abnormalities.
- Identify new techniques, research and advancements in the management and treatment of intracerebral hemorrhage and recognize how these advances can impact outcomes for this patient population.
- Recognize the signs and symptoms of stroke in pregnant women and formulate a plan of action for treatment.

ACCREDITATION STATEMENT

The Ohio State University Center for Continuing Medical Education (CCME) is accredited by the Accreditation Council for Continuing Medical Education (ACCME®) to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

The Ohio State University Center for Continuing Medical Education (CCME) designates this live activity for a maximum of 7 *AMA PRA Category 1 Credit*(s) $^{\text{\tiny{M}}}$. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This course has been submitted for 7 CEUS to the Ohio Physical Therapy Association for Physical Therapists and Physical Therapy Assistants. This course has been submitted for 7 CEUs to the Ohio Occupational Therapy Association for Occupational Therapists and Occupational Therapy Assistants. EMS CEUs will be provided by the Ohio State's Center for EMS.

THURSDAY, OCTOBER 16*Emergency Neurologic Life Support (ENLS) Course

8:30 – 9:00 a.m. Airway, Ventilation and Sedation Tom Lawson, ACNP 9 – 9:30 a.m. Approach to the Comatose Patient Noah Grose, ACNP 9:30 – 10 a.m. Elevated ICP and Herniation Diana Greene-Chandos, MD 10 – 10:15 a.m. BREAK 10:15 – 10:45 a.m. Acute Weakness Diana Greene-Chandos, MD 10:45 – 11:15 a.m. Intracerebral Hemorrhage J. Claude Hemphill, MD, MAS	n to ENLS ne-Chandos, MD and emphill, MD, MAS		
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Diana Greene-Chandos, MD 10:45 – 11:15 a.m. Intracerebral Hemorrhage	North Control		
	MD		
11:15 – 11:45 a.m. Ischemic Stroke Noah Grose, ACNP			
11:45 a.m. – 12:15 p.m. Meningitis/Encephalitis Diana Greene-Chandos, MD	ИD		
12:15 – 1:30 p.m. LUNCH			
1:30 – 2 p.m. ENLS- Resuscitation following Card Michel Torbey, MD	wing Cardiac Arro		
2 – 2:30 p.m. Spinal Cord Compression Asma Zakaria, MD	1		
2:30 – 3 p.m. Status Epilepticus Asma Zakaria, MD			
3 – 3:15 p.m. BREAK			
3:15 – 3:45 p.m. Subarachnoid Hemorrhage J. Claude Hemphill, MD, MAS	-		
3:45 – 4:15 p.m. Traumatic Brain Injury Michel Torbey, MD			
4:15 – 4:45 p.m. Traumatic Spine Injury Susan Yeager, ACNP			
4:45 – 5:30 p.m. Wrap up, Questions, Assistance with certification questions	tance with		

course agenda

THURSDAY, OCTOBER 16*

Advanced Stroke Life Support (ASLS) Course

Course will be instructed by Joe Farmer, EMT-P and his team

8 – 8:55 a.m.	REGISTRATION AND BREAKFAST	
9 – 9:30 a.m.	Introductions and Pretest	
9:30 — 9:45 a.m.	Learning Goals and Protocols	
9:45 – 10:15 a.m.	Stroke Facts and Rationale for Urgent Care	
10:15 – 10:30 a.m.	BREAK	
10:30 – 11 a.m.	MEND Exam: Focused Neurologic Assessment	
11 – 11:30 a.m.	MEND Exam: Practice Session – Normal Patient	
11:30 – 12 p.m.	Major Stroke Syndromes and Stroke Mimics	
12 – 1 p.m.	LUNCH	
1 – 1:30 p.m.	Stroke Management: Pre-hospital and General Principles	
1:30 – 2:30 p.m.	Video Case Scenarios: Pre-hospital Nursing: In hospital	
2:30 – 2:45 p.m.	BREAK	
2:45 – 3:45 p.m.	MEND Exam: Practice Session: Left Side, Brain Stem, Right Side, Normal, Hemorrhagic, Cerebellum	
3:45 – 4:15 p.m.	Interactive Review	
4:15 – 5 p.m.	Post Test, Evaluations, Certificates, Adjourn	

FRIDAY, OCTOBER 17*

8 – 8:15 a.m.	Welcome Course Directors: Diana Greene-Chandos, MD and Ciaran Powers, MD, PhD
8:15 – 9 a.m.	Morning Keynote: Stroke Mobile Units Stephanie Parker, BSN, RN
9 – 9:15 a.m.	TRACK SPLIT
Carrena de la companya della companya de la companya de la companya della company	Presentations in RED are geared toward Physicians Presentations in BLUE are geared toward RNs and EMS.
9:15 – 10 a.m.	Malignant Stroke Cerebral Edema: Update in Medical Management and Hemicraniectomy Trials Michel Torbey, MD, MPH, FAHA, FCCM Subarachnoid Hemorrhage (SAH) – Early Recognition and Practical Management for the Nurse and EMS Susan Yeager, MS, RN, CCRN, ACNP
10 – 10:45 a.m.	Paroxysmal Atrial Fibrillation and Loop Recorders Mahmoud Houmsse, MD, FACP, FACC Intracerebral Hemorrhage: A Practical Review Sunil Mutgi, MD
10:45 – 11:30 a.m.	Carotid Artery Stenosis: Screening, Management and Guidelines Ciaran Powers MD, PhD Telestroke and Its Potential Uses beyond the ED for EMS and Nursing Karen Wiles, BSN, RN, CCM
11:30 – 11:45 a.m.	BREAK
11:45 a.m. – 12:15 p.m.	LUNCH IN THE BALLROOM
12 – 1 p.m.	Afternoon Keynote: Acute Stroke Treatment in the Golden Hour William Barsan, MD

1 – 1:15 p.m.	BREAK AND TRACK SPLIT	BREAK AND TRACK SPLIT			
	Presentations in RED and PURPLE are geared towards Physicians/Nurse Practitioners/Physicial Assistants. (Select one concurrent track to attend Track I - Physicians/NPs/PA Track II - Physicians/NPs/PA Track III - RNs and EMS Track IV - Rehabilitation (Physical/Occupational/Speech Language) Track V - Pharmacy	d)			
1:15 – 2 p.m.	Pediatric Stroke Steven Roach, MD				
	Arteriovenous Malformations Bradford Mullin, MD				
	Cooling in Field or the Unit: For What and How? Shaheryar Hafeez, MD	4			
	Cognitive Dysfunction Post-Stroke Brendan Kelley, MD				
	Neurostimulants in Stroke Recovery Dan Kirgesner, PharmD				
2 – 2:45 p.m.	Cerebral Venous Thrombosis Reza Behrouz, DO, FANA, FAHA	(D)			
	Emergency Room Management of Neurological Emergencies Steven Gentile, MD	Ω)			
	Acute Ischemic Stroke and Its Interventions: A Practical Review Noah Grose, RN, BSN, MSN, ACNP-BC				
	Fiberoptic Endoscopic Evaluation of Swallowing (FEES) in Stroke Population Dipti Dani, MA, CCC/SLP, BCS-S				
	Novel Anticoagulants and Hemostasis Michael Boyd, PharmD, BCPS	0			
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2:45 – 3 p.m.	BREAK		
3 – 3:45 p.m.	Interventional Stroke Treatment Updates Shahid Nimjee, MD, PhD		
	Stroke and Seizures Asma Zakaria, MBBS		
	Assessing the Minimally Responsive or Comatose Patient Diana Greene-Chandos, MD		
	Novel Taping Techniques for Stroke Patients Charise Vacca PT, DPT		
	Hypothermia and Drug Changes Erik Abel, PharmD, BCPS		
3:45 – 4:30 p.m.**	Intracranial Atherosclerosis Patrick Youssef, MD		
	Mood Disorders Post Stroke Kevin C. Reeves, MD		
	Intracranial Pressure Monitoring Mohammed Chmayssani, MD		
	Intrathecal Baclofen in Stroke Recovery: When to Consider How to Manage and Complications Aaron Boster, MD		
	Pharmacological Management of Sympathetic Storming Claire Murphy, PharmD, BCPS		

^{*} Course agenda subject to change

^{**} EMS professionals are advised to attend the Pharmacological Management of Sympathetic Storming in the Pharmacy track to get EMS CEUs for this section.

REGISTRATION

Program fees include attendance to program, digital course syllabus, and meals (breakfast, lunch, breaks). Seating is limited and registration is required. Degree __ Specialty Address City | State | Zip Phone _____ Fax____ E-mail* *A valid e-mail address is required at the time of registration to create or confirm the existence of a CCME account. Failure to provide a valid email address may cause a hold on registration processing and CME credits earned. Full Conference Friday Only with ENLS with ASLS Physician □ Thursday □ Thursday ☐ Friday Only ☐ Both Days ☐ Both Days Only \$200 Only \$25 \$200 \$300 \$225 ☐ Both Days OSUWMC or Mount □ Thursday □ Thursday ☐ Friday Only ☐ Both Days Carmel Physician Only \$150 Only \$25 \$100 \$250 \$125 Other Healthcare ☐ Thursday ☐ Thursday ☐ Friday Only ☐ Both Days ☐ Both Days \$175 Professional Only \$100 Only \$25 \$150 \$200 OSUWMC or Mount ☐ Thursday □ Thursday ☐ Friday Only ☐ Both Days ☐ Both Days Only \$75 Carmel Other Health-Only \$25 \$75 \$150 \$100 care Professional Student/Physicians in ☐ Thursday ☐ Friday Only ☐ Thursday ☐ Both Days ☐ Both Days Training/ EMS ** Only \$50 Only \$25 \$65 \$100 \$75 ** A limited amount of EMS course scholarships are available. Please contact the CCME office for more information at 614-293-3576. An electronic course syllabus will be provided; if you prefer a printed syllabus, please check the box below and include an additional \$50 with your registration. ☐ Printed Course Syllabus \$50 TOTAL DUE: Payment Method: ☐ Check (enclosed) ☐ Credit Card (We accept Visa, Mastercard, Discover and American Express) Name on Card: __ Card Number: Expiration Date: Billing Address:_____ ☐ Check if same as above

egistration

CONCURRENT SESSIONS

If you plan to attend the course on Friday, October 17, please indicate the specialty track you would like to attend. You may attend sessions outside of your selected track if space permits, but please pick one track in which you will primarily attend.

Physicians / Nurse Practitioners / Physician Assistants I Track 1:15 $-$ 2 p.m. Pediatric Stroke; 2 $-$ 2:45 p.m. Cerebral Venous Thrombosis; 3 $-$ 3:45 p.m. Interventional Stroke Treatment Updates; 3:45 $-$ 4:30 p.m. Intracrania Atherosclerosis
Physicians / Nurse Practitioners / Physician Assistants II Track 1:15 – 2 p.m. Arteriovenous Malformations; 2 – 2:45 p.m. Emergency Room

3:45 – 4:30 p.m. Mood Disorders Post Stroke

☐ Registered Nurses and Emergency Medical Services Track

1:15 - 2 p.m. Cooling in Field or the Unit: For What and How? 2 - 2:45 p.m. Acute Ischemic Stroke and Its Interventions: A Practical Review; 3 - 3:45 p.m. Assessing the Minimally Responsive or Comatose Patient; 3:45 - 4:30 p.m. Intracranial Pressure Monitoring

Management of Neurological Emergencies; 3 – 3:45 p.m. Stroke and Seizures;

□ Rehabilitation (Physical/ Occupational/Speech Language) Track

1:15 – 2 p.m. Cognitive Dysfunction Post-Stroke; 2 – 2:45 p.m. Fiberoptic
Endoscopic Evaluation of Swallowing (FEES) in Stroke Population 3 – 3:45
p.m. Novel Taping Techniques for Stroke Patients; 3:45 – 4:30 p.m. Intrathecal
Baclofen in Stroke Recovery: When to Consider How to Manage and
Complications

□ Pharmacy Track

1:15-2 p.m. Neurostimulants in Stroke Recovery; 2-2:45 p.m. Novel Anticoagulants and Hemostasis; 3-3:45 p.m. Hypothermia and Drug Changes; 3:45-4:30 p.m. Pharmacological Management of Sympathetic

EMS SIMULATION LAB

□ 3 p.m.

If you are interested in attending a 30-minute simulation lab, please sign up for **a time** below. A maximum of five people can attend each session.

Brain Code Thursday	☐ 8 a.m. ☐ 10 a.m.	□ 8:30 a.m. □ 10:30 a.m.	□ 9 a.m. □ 11 a.m.	☐ 9:30 a.m. ☐ 11:30 a.m.
Stroke Code				
Thursday	□ 1 p.m. □ 3 p.m.	☐ 1:30 p.m. ☐ 3:30 p.m.	☐ 2 p.m. ☐ 4 p.m.	☐ 2:30 p.m. ☐ 4:30 p.m.
Brain Code				
Friday	□ 8 a.m. □ 10 a.m.	☐ 8:30 a.m. ☐ 10:30 a.m.	□ 9 a.m. □ 11 a.m.	☐ 9:30 a.m. ☐ 11:30 a.m.
Stroke Code				
Friday	□ 1 p.m.	☐ 1:30 p.m.	□ 2 p.m.	□ 2:30 p.m.

□ 4 p.m.

□ 4:30 p.m.

□ 3:30 p.m.

Course registration and payment can be mailed to:

The Ohio State University
Center for Continuing Medical Education
600 Ackerman Rd., #E2058
P.O. Box 182721
Columbus. OH 43218

REGISTER ONLINE at go.osu.edu/2014NeuroStroke

You must create a CCME account to register.

If you already have an account and cannot remember your username or password or are unsure if you have a CCME account, please contact the CCME office at **614-293-3576**.

CONFERENCE INFORMATION:

Discounted registration is available to The Ohio State University Wexner Medical Center and Mount Carmel Employees. *The discount is a flat rate for the ENLS Course + 50 percent off Day 2 registration. This rate will be available through Sunday, September 7, 2014*.

If you have questions about this conference or need assistance registering, please contact the CCME office at **614-293-3576**.

COURSE CANCELLATION POLICY

Requests for cancellation must be submitted in writing and postmarked on or before 5 p.m. EST, Monday, September 30. Requests postmarked by this time will receive a full refund, minus a processing fee of \$25, after the conclusion of the meeting. No refunds will be made for cancellation requests postmarked after this date. Mount Carmel and The Ohio State University Wexner Medical Center reserve the right to cancel this program at any time and will assume no financial obligation to the registrants in the event of cancellation.



Stroke and Neurocritical Care 2014 Comprehensive Update:

Stroke Care across the Continuum

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U.S. POSTAGE Columbus, Ohio Permit No. 711

> THE OHIO STATE UNIVERSITY **WEXNER MEDICAL CENTER**

PO Box 183101

Columbus, OH 43218-3101

October 16-17

Hilton Columbus at Easton

This program is endorsed by the Neurocritical Care Society.



