



Neurosurgical Emergencies Virtual Course

April 1, 8, 15, 2026

Zoom

Course Description

This course is designed for neurosurgeons, neurosurgery advanced practice providers (APPs), neurologists, intensivists, emergency medicine physicians, and trainees in this field. It provides information about state-of-the-art diagnosis, workup and first-line treatments for neurosurgical emergencies. Covered in detail are: resuscitation, advances in stroke management, the ever-changing landscape of anticoagulation, TBI, spine trauma, postoperative management, prognosis, and treatments in austere environments. Learning will be enhanced with active teaching techniques including case-based discussions as well as instruction by world experts.

Learning Objectives

Upon completion of this course, participants will be able to:

1. Describe and discriminate state-of-the-art treatment for neurosurgical emergencies including emergency department resuscitation and imaging.
2. Apply up-to-date stroke management for patients with hemorrhage or ischemic stroke including aneurysmal subarachnoid hemorrhage
3. Execute correct anticoagulation reversal and initiation in the setting of an intracranial hemorrhage.
4. Assemble an effective team to treat neurosurgical emergencies including APPs.
5. Demonstrate an understanding of prognosis and apply this to family discussions.

Accreditation Statement

The Congress of Neurological Surgeons is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation Statement

The CNS designates this live activity for a maximum of **11.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Reviewer

Tiffany Hodges

Planner(s)

Ramesh Grandhi

Ryan Kitagawa

Laura Snyder

Faculty

Nitin Agarwal	Ramesh Grandhi	Shekar Kurpad	Patricia Raksin	Sarah Woodrow
Paul Arnold	Mark Harrigan	Lara Massie	Christian Ricks	John Yue
Randy Bell	Alan Hoffer	Laura McGuire	Rajiv Saigal	
Timothy Beutler	Christine Holmstedt	Allyson McLean	Lori Shutter	
Spiros Blackburn	Brian Howard	James Mooney	Emily Sieg	
Ritvij Bowry	Brian Jankowitz	Tara Nail	Laura Snyder	
Alexa Bramall	Sami Kasab	Laura Ngwenya	Robert Spinner	
Karol Budohoski	Kimberly Kicielinski	Enyinna Nwachuku	Deborah Stein	
Julie Chan	Ryan Kitagawa	Akash Patel	Deborah Stein	
Tiffany Chang	Jordan Komisarow	Gustavo Pradilla	John Williams	

Agenda

All times are listed in Central Time (Chicago)

April 1

Time	Session Name	Speaker
12:00-12:10 pm	Course Welcome	Ramesh Grandhi
12:10-1:15 pm	Session I: Ischemic Stroke	
12:10-12:15 pm	Introduction - Stroke Case	Moderator: Ramesh Grandhi
12:15-12:30 pm	Code Stroke: Initial Evaluation and Management	Christine Holmstedt
12:30-12:45 pm	Initial Treatment for Ischemic Stroke (tPA, Thrombectomy)	Spiros Blackburn
12:45-1:00 pm	Surgical Management of Ischemic Stroke (Including Elderly)	Mark Harrigan
1:00-1:15 pm	Panel Discussion and Cases	All Session Faculty
1:15-1:30 pm	Break	
1:30-2:45 pm	Session II: Aneurysm Rupture	Moderator: Ramesh Grandhi
1:30-1:45 pm	Aneurysmal SAH: The basics ED to ICU	Brian Howard
1:45-2:00 pm	Securing the Aneurysm (Clipping versus Coiling)	Kimberly Kicielinski
2:00-2:15 pm	After the Aneurysm is Secure: Vasospasm and Other Complications	Tiffany Chang
2:15-2:30 pm	Panel Discussion and Cases	All Session Faculty
2:30-4:00 pm	Session III: IPH, IVH, Special Topics	Moderator: Nestor Gonzalez
2:30-2:45 pm	Surgical Management of Hemorrhagic Stroke: When and How	Brian Howard
2:45-3:00 pm	CSF Diversion in Hemorrhagic Stroke	Laura Stone McGuire
3:00-3:15 pm	Management of Stroke/SAH in Austere Environments	Karol Budohoski
3:15-3:30 pm	Prognosis in Stroke (ICH and Ischemic)	Ritvij Bowry
3:30- 4:00 pm	Panel Discussion and Cases	All Session Faculty

April 8

Time	Session Name	Speaker
12:00-12:10 pm	Course Welcome	Laura Snyder
12:10-1:15 pm	Session IV: The Basics of Spine/Spinal Cord Injury	
12:10-12:15 pm	Introduction - SCI Case	Moderator: Laura Snyder
12:15-12:30 pm	Initial Evaluation of Spine Pathology	Julie Chan
12:30-12:45 pm	Spine or Peripheral Nerve?	Robert Spinner
12:45-1:00 pm	Resuscitation and Imaging in SCI	Deborah Stein
1:00-1:15 pm	Panel Discussion and Cases	All Session Faculty
1:15-1:30 pm	Break	
1:30-2:45 pm	Session V: Treatment of Spine Injuries	Moderator: Laura Snyder
1:30-1:45 pm	Spine Immobilization & Clearance	James Mooney
1:45-2:00 pm	Timing of Intervention (Spine Fractures and Central Cord)	John Yue
2:00-2:15 pm	Operative Stabilization	Timothy Beutler
2:15-2:30 pm	The Postop Spine Patient & Managing Complications	Lara Massie
2:30-2:45 pm	Panel Discussion and Cases	All Session Faculty
2:45-4:00 pm	Session VI: Advanced Management in Spine Injury	Moderator: Enyinna Nwachuku
2:45-3:00 pm	Advances in Spinal Cord Injury Research and Management	Rajiv Saigal
3:00-3:15 pm	Controversial Topics in Spine Injury: Steroids, CSF Diversion, Duraplasty	Christian Ricks
3:15-3:30 pm	Evaluating C2 Pathology in the Emergency Room: When and How to Fix	Laura Snyder
3:30-4:00 pm	Panel Discussion and Cases	All Session Faculty

April 15

Time	Session Name	Speaker
12:00-12:10 pm	Course Welcome	Ryan Kitagawa
12:10-1:15 pm	Session VII: TBI	
12:10-12:15 pm	Introduction - TBI Case	Moderator: Ryan Kitagawa
12:15-12:30 pm	The Basics of TBI: Stabilization and Imaging	Allyson McLean
12:30-12:45 pm	The Basics of TBI: ICP and ICU Management in TBI	Alan Hoffer
12:45-1:00 pm	Penetrating Brain Injury	Randy Bell
1:00-1:15 pm	Panel Discussion and Cases	All Session Faculty
1:15-1:30 pm	Break	
1:30-2:45 pm	Session VIII: Anticoagulation in Neurosurgery	Moderator: Patti Raksin
1:30-1:45 pm	Blood Thinners Before and After ICH	Emily Sieg
1:45-2:00 pm	Vascular Complications in Neurosurgery	Ramesh Grandhi
2:00-2:15 pm	Surgical Management in TBI	Laura Ngwenya
2:15-2:30 pm	Management of Chronic SDH	T. Jayde Nail

	2:30-2:45 pm	Panel Discussion and Cases	All Session Faculty
2:45-4:00 pm		Session IX: Misc Topics	Moderator: Paul Arnold
	2:45-3:00 pm	Hyper Intense Conversations in Neurocritical Care	Lori Shutter
	3:00-3:15 pm	Emergencies in Neuro-Oncology	Akash Patel
	3:15-3:30 pm	Disorders of CSF (Hydrocephalus, CSF Leakage)	Alexa Bramall
	3:30-3:45 pm	Management of TBI in Austere Environments	Sarah Woodrow
	3:45-4:00 pm	Panel Discussion and Cases	All Session Faculty

Agenda and faculty are subject to change

RELEVANT CONFLICT OF INTEREST DISCLOSURES

CNS Disclosure Policy

The Congress of Neurological Surgeons controls the content and production of this CME activity and attempts to assure the presentation of balanced, objective information. In accordance with the Standards for Integrity and Independence in Accredited Continuing Education established by the Accreditation Council for Continuing Medical Education (ACCME), speakers are asked to disclose all relationships they have with ineligible companies* over the previous 24 months which may be related to the content of their lecture. Speakers who have disclosed a relationship with an ineligible company whose products may have a relevance to their presentation are listed below.

Any planner, reviewer, or faculty member not on the disclosure list has reported they have nothing to disclose.

All relevant financial relationships listed for these individuals have been mitigated.

**Ineligible companies are those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. An ineligible company is not eligible for ACCME accreditation or participation in Joint Providership. Agenda and faculty subject to change*

Reviewers

Name	Nature of Relationship(s)	Name(s) of Ineligible Company
Tiffany Hodges		Nothing to Disclose

Planners

Name	Nature of Relationship(s)	Name(s) of Ineligible Company
Ramesh Grandhi	Consulting Fee	Balt Neurovascular, Cerenovus, Medtronic Neurovascular, Rapid Medical
Laura Snyder	Consulting Fee	Aesculap (<i>Relationship terminated</i>), DePuy Synthes, Globus Medical, Medtronic Inc.

Faculty

Name	Nature of Relationship(s)	Name(s) of Ineligible Company
Nitin Agarwal	Contracted Research	DePuy Synthes, Medtronic
Karol Budohoski	Consulting Fee	Johnson and Johnson, Neurovascular, Stryker Neurovascular
Julie Chan	Consulting Fee	Johnson and Johnson
Ramesh Grandhi	Consulting Fee	Balt Neurovascular, Cerenovus, Medtronic Neurovascular, Rapid Medical
Laura Ngwenya	Consulting Fee	Sophysa
	Contracted Research	Abbott, Biogen / IQVIA (<i>relationship terminated</i>)
Gustavo Pradilla	Consulting Fee	Stryker
Rajiv Saigal	Consulting Fee	Globus, Proprio, Spiderwort
Deborah Stein	Consulting Fee	CSL Behring (<i>relationship terminated</i>)

EDUCATION GRANTS & IN-KIND EQUIPMENT

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