



# Neurosurgical Emergencies Virtual Course

April 2, 9, 16, 2025

Zoom

## Course Description

This course is designed for neurosurgeons, neurosurgery advanced practice providers (APPs), neurologists, intensivists, and emergency medicine physicians. 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 the care of the elderly with neurosurgical issues. 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 interprofessional team to treat neurosurgical emergencies including APPs.
5. Review and apply new evidence-based literature to neurosurgical emergencies.

## 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.

# Agenda

*All times are listed in Central Time*

## April 2

Time	Session Name	Speaker
12:00-12:10 pm	<b>Course Welcome</b>	Phil Taussky
12:10-1:15 pm	<b>Session I: ICH</b>	
12:10-12:15 pm	Introduction - ICH Case	Moderator: Phil Taussky
12:15-12:30 pm	Operative Management (EVD, Minimally Invasive, Open)	Gustavo Pradilla
12:30-12:45 pm	ICU Management	Kimberly Kicielinski
12:45-1:00 pm	Prognosis and ICH Management in the Elderly	Louise McCullough
1:00-1:15 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
1:15-1:30 pm	<b>Break</b>	
1:30-2:45 pm	<b>Session II: Aneurysm Rupture</b>	Moderator: Brian Jankowitz
1:30-1:45 pm	Initial Stabilization in SAH	Alvin Das
1:45-2:00 pm	Securing the Aneurysm (Clipping versus Coiling)	Chris Ogilvy
2:00-2:15 pm	Vasospasm and Other Complications	Tiffany Chang
2:15-2:30 pm	Prognosis and Novel Treatments in SAH	Kevin Akeret
2:30-2:45 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
2:45-4:00 pm	<b>Session III: Stroke</b>	Moderator: Kevin Akeret
2:45-3:00 pm	Initial Treatment for Ischemic Stroke (tPA, Thrombectomy)	Spiros Blackburn
3:00-3:15 pm	Open Surgical Interventions in Ischemic Stroke	Victor Volovici
3:15-3:30 pm	Prognosis and Large Territory Ischemic Stroke in the Elderly	Rosalind Lai
3:30- 4:00 pm	<b>Panel Discussion and Cases</b>	All Session Faculty

## April 9

Time	Session Name	Speaker
12:00-12:10 pm	<b>Course Welcome</b>	David Okonkwo
12:10-1:15 pm	<b>Session IV: Spinal cord injury</b>	
12:10-12:15 pm	Introduction - SCI Case	Moderator: David Okonkwo
12:15-12:30 pm	Initial Stabilization and Imaging in SCI	Deborah Stein
12:30-12:45 pm	Timing of Intervention (Spine Fractures and Central Cord)	John Williams
12:45-1:00 pm	Prognosis and SCI Management in the Elderly	Ziev Moses
1:00-1:15 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
1:15-1:30 pm	<b>Break</b>	
1:30-2:45 pm	<b>Session V: Degenerative Spine in the ED</b>	Moderator: Ann Parr
1:30-1:45 pm	The Spine Exam (ASIA, Levels, Reflexes)	Julie Chan

	1:45-2:00 pm	Spine or Peripheral Nerve?	Robert Spinner
	2:00-2:15 pm	Degenerative Spine Emergencies	Martin Pham
	2:15-2:30 pm	The Postop Spine Patient	Lara Massie
	2:30-2:45 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
2:45-4:00 pm		<b>Session VI: Spine Stabilization</b>	Moderator: Lara Massie
	2:45-3:00 pm	Spinal Stabilization (Surgery, Bracing, Neither)	Nitin Agarwal
	3:00-3:15 pm	Cervical Spine Clearance	Timothy Beutler
	3:15-3:30 pm	Options in Spine Surgery (MIS, Robot, Open)	Khoi Than
	3:30-4:00 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
<b>April 16</b>			
<b>Time</b>	<b>Session Name</b>		<b>Speaker</b>
12:00-12:10 pm	<b>Course Welcome</b>		Ryan Kitagawa
12:10-1:15 pm	<b>Session VII: TBI</b>		
	12:10-12:15 pm	Introduction - TBI Case	Moderator: Ryan Kitagawa
	12:15-12:30 pm	Initial Stabilization and Imaging in TBI	Olivia Sapia
	12:30-12:45 pm	Surgical Management in TBI	Laura Ngwenya
	12:45-1:00 pm	ICP and ICU Management in TBI	Alan Hoffer
	1:00-1:15 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
1:15-1:30 pm	<b>Break</b>		
1:30-2:45 pm	<b>Session VIII: Anticoagulation in Neurosurgery</b>		Moderator: Patti Raksin
	1:30-1:45 pm	When/How to Reverse Coagulopathy in Intracranial Hemorrhage	Emily Sieg
	1:45-2:00 pm	DVT Chemoprophylaxis in Neurosurgery	Berje Shammassian
	2:00-2:15 pm	Blunt Vascular Injury	Ramesh Grandhi
	2:15-2:30 pm	Anticoagulation After Intracranial Hemorrhage	T. Jayde Nail
	2:30-2:45 pm	<b>Panel Discussion and Cases</b>	All Session Faculty
2:45-4:00 pm	<b>Session IX: Misc Topics</b>		Moderator: Martina Stippler
	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)	Jordan Komisarow
	3:30-3:45 pm	The Postop Cranial Patient	Matthew Pease
	3:45-4:00 pm	<b>Panel Discussion and Cases</b>	All Session Faculty