



**Preliminary event program**  
**Global Neuro Advanced Course—Neurotrauma**

April 11-12<sup>th</sup>, 2025, New Delhi, India

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**Course description**

This course covers the current best strategies and considerations for managing neurotrauma patients with a special emphasis on advanced surgical treatment and neuromonitoring. The course is based on competencies defined in Global Neuro's curriculum. The content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material. Interactive case presentations further deepen this knowledge and enrich the discussion in trauma management. Practical sessions teach the application of Global Neuro principles to the management of common injuries. Case-based discussions link the lecture material and practical skills with the clinical problems encountered in clinical practice.

**Target participants**

The Global Neuro Advanced Course has been developed for trainees, surgeons, and physicians who are interested in the management of cranial and spinal neurotrauma and who have a strong interest in complex patient care, clinical research, and an interdisciplinary approach.

**Goal of the course**

The Global Neuro Advanced Neurotrauma Course covers the management of complex cranial neurotrauma using advanced monitoring, devices, and techniques. There will also be a focus on current research and the management of challenging clinical scenarios and complications.

**Learning objectives**

By completing this advanced course, participants will be better able to:

- Apply current classification systems, guidelines and recommendations in neurotrauma
- Name new trends and future topics in neurotrauma care
- Manage complex neurotrauma, including penetrating injuries, vascular injuries, skull base fractures and spinal cord injuries with an interdisciplinary approach
- Conduct and interpret advanced imaging and neuromonitoring
- Plan and perform the following operative techniques: multifunctional probes, complex cranial reconstruction, and dural repair
- Manage complex complications such as metabolic disturbances, CSF leaks, coagulopathy, and cranial neuropathies
- Discuss and conduct state-of-the-art clinical research

## Faculty

### Course chair/Course-co chair

Dr SS Kale	All India Institute of Medical Sciences	New Delhi, India
Dr Kamran Farooque	JPN Apex trauma centre	New Delhi, India

### Course Director

Dr Deepak Gupta	JPN Apex Trauma Centre All India Institute of Medical Sciences	New Delhi, India
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### International Faculty (to be confirmed)

Andrés Rubiano	University El Bosque	Bogotá, Colombia
Corrado Iaccarino	University of Modena and Reggio Emilia	Modena, Italy
Peter Smielewski	University of Cambridge	Cambridge, UK
Shoji Yokobori	Nippon Medical School	Tokyo, Japan
David Menon	University of Cambridge	Cambridge, UK
Thomas Nakagawa	University of Florida	Gainesville, USA

### Guest Faculty (to be confirmed)

Anna Teresa Mazzeo	University of Messina	Messina, Italy
Samuel Kaba	Greater Accra Regional Hospital	Accra, Ghana
Takashi Araki	Saitama Medical University	Saitama, Japan
Laura Lippa	Ospedali Riuniti Livorno	Viale Alfieri, Italy
Sui Sum Kung	Kaohsiung Medical University Hospital	Kaohsiung, Taiwan

### National Faculty (to be confirmed)

Mathew Joseph	Christian Medical College Vellore	Vellore, India
Kamran Farooque	Jai Prakash Narayan Apex Trauma Center	New Delhi, India
Mahesh Karandikar	Karandikar Hospital & Research Centre	Maharashtra, India
R Raghavendran	VS Hospital	Chennai, India

**Day 1, Friday, April 11, 2025**

TIME	SUBJECT	SPEAKER
08:00–08:30	Registration	
08:30–08:40	Welcome Remarks Course Introduction	SS Kale Deepak Gupta
08:40–08:50	Global Neuro Remarks	Andres Rubiano
<b>Module 1</b>	<b>Developing of Fundamental Concepts in Neurotrauma</b>	
08:50–09:10	Drug treatment in neurocritical care	Thomas Nakagawa
09:10–09:30	Nutritional support for Neurotrauma patients	Ashish Bindra
09:30–09:50	Management of Pediatric patients in the NeuroICU	Takashi Araki
09:50–10:10	Holistic care of TBI in Elderly patients	Shoji Yokobori
10:10–10:30	Reversal therapy for antithrombotics in Neuro-ICU patients	Tulika Seth
10:30–10:50	Goal directed Neurocritical care for TBI	Mathew Joseph
10:50–11:10	Targeted Temperature Measurement in Neurotrauma	Shoji Yokobori
<b>11:10–11:30</b>	<b>COFFEE BREAK</b>	
<b>Module 2</b>	<b>Modern TBI Concepts in Guidelines, Consensus and Protocols</b>	
11:30–11:50	Pathophysiology for neurocritical care	Sui Sum Kung
11:50–12:10	The SIBICC I, II Protocols: How to Deal with TBI Based on Invasive ICP Monitoring	TBD
12:10 - 12:30	The Indian Experience on TBI Care: Monitoring, Surgery and Global Research	Mathew Joseph
12:30–12:50	Post Traumatic Hydrocephalus: Guidelines	Corrado Iaccarino
12:50–13:10	Secondary Insults Monitoring before brain death	Anna Teresa Mazzeo
13:10–13:30	Advanced Neuromonitoring in Neuro ICU and data capture	Peter Smielewski
<b>13:30–14:30</b>	<b>LUNCHEON SEMINAR (detail to be confirmed)</b>	
<b>Module 3</b>	<b>Modern Trends and Concepts in SCI Diagnosis and Management</b>	
14:30–14:50	Advanced Spinal Monitoring in SCI	Laura Lipa/TBD
14:50–15:10	AO, WFNS Guidelines for Spinal Cord Injury: Diagnosis and Mx	Samuel Kaba /TBD
15:10–15:30	The Bootstrap Protocol: A New Perspective for Managing SCI in Different Contexts	TBD
15:30–15:50	Thoraco-Lumbar Decompression and Fixation	Kamran Farooque
15:50–16:10	Advanced/Research Neuroimaging in Neurotrauma	David Menon Maria D Souza
16:10–16:30	Ventilatory management in severe TBI and High Cervical SCI	TBD
1630-16:50	Acute to Post acute pathways in TBI – Addressing rehab gaps in India	Deepak Gupta/TBD ( Global Neuro faculty)
<b>16:50 - 17:10</b>	<b>COFFEE BREAK</b>	
<b>Module 4</b>	<b>Case Discussions: Managing Complex Cases in Neurotrauma</b>	
1710–1800	Case 1: Acute Subdural Hematoma and Anticoagulation Case 2: Acute Traumatic Brain Edema with Brain Hypoxia Case 3: Acute SCI with Anterior Thoracic Compression and Partial Deficit Case 4: Acute Cervical SCI with Posterior Compression and Complete Deficit Case 5: Severe TBI with Concurrent Thoracic and Abdominal Injuries Case 6: Acute Spinal Cord Injury with Thoracic and Abdominal Injuries	Global Neuro Faculty

18:00-18:10	<b>Q&amp;A Session for Module 4</b>	
18:10-18:20	<b>Closing Remarks Day 1</b>	

**Day 2. Saturday, 12 April, 2025**

<b>TIME</b>	<b>SUBJECT</b>	<b>SPEAKER</b>
8:00-08:10	Introduction to Day 2	Deepak Gupta
<b>Module 5</b>	<b>Case Discussions: Neurotrauma Care in Special Populations</b>	
08:10-08:50	<b>Case Discussions in TBI</b>	Shoji Yokobori Takashi Araki
	Case 1: TBI in the elderly (15m Case + 5m Discussion)	
	Case 2: TBI in very young children (15m Case + 5m Discussion)	
08:50-09:30	<b>Case Discussions in SCI</b>	TBD
	Case 1: Craniovertebral Junction Trauma (15m Case + 5 min Discussion)	
	Case 2: Dorsolumbar spinal trauma (15 min + 5 min discussion)	
<b>Module 6</b>	<b>Hands-On Stations</b>	
09:30-13:00	<b>Traumatic Brain Injury</b>	
	Decompressive Craniectomy, Cranial Reconstruction and ICP monitoring (50m)	Deepak Gupta Corrado Iaccarino
	Non-Invasive Neuromonitoring (NIRS/Pupillometry) (50m)	Shoji Yokobori Anna Teresa
	<b>Spinal Cord Injury</b>	
	Advanced Spinal Cord Monitoring and Neurosonography (50m)	Andres Rubiano Mathew Joseph
	Brain Monitoring by ICM+ (50m)	Peter Smielewski
<b>13:00-14:00</b>	<b>LUNCH</b>	
<b>Module 7</b>	<b>Shaping the Future of Care</b>	
14:00 - 14:20	Future of TBI Monitoring and Medical Care	TBD
14:10 -14:10	Future Clinical Trials in Surgical Care of SCI	Andres Rubiano
14:10 - 14:30	Advances in Critical care support of Children	Thomas Nakagawa
14:30-14:50	Abusive Head Trauma	Takashi Araki
14:50-15:00	<b>COFFEE BREAK</b>	
16:00 - 16:20	Integration of Invasive and Non-Invasive Neuromonitoring in TBI Care	Andres Rubiano
16:20 - 16:40	Paediatric Brain Death Challenges and Recommendations	Thomas Nakagawa
16:40 - 16:55	<b>Q &amp; A Session for Module 7</b>	
16:55 - 17:10	<b>Closing Remarks Day 2 and Final Certification</b>	