



Global Neuro

Event program

## Global Neuro—Adult and Pediatric Advanced Neurotrauma Course (With Hands-on Training)



01 July 2025

Manaus | Brazil

# Global Neuro—Adult and Pediatric Advanced Neurotrauma Course



Global Neuro welcomes you:

On January 1, 2018, AONeuro became Global Neuro to broaden our geographical reach and for the opportunity to collaborate with multiple partners. Our new foundation is incorporated in Switzerland and is ready to serve you to improve your educational and practical experiences in patient care and outcomes.

We offer educational events worldwide, with rigorously prepared and evaluated curricula in multiple cultural and educational formats. Global Neuro's educational offerings include lecture presentations, interactive case discussions, small group discussions, practical exercises, simulation exercises, and online education. Global Neuro strives to increasingly collaborate with regional, national, and international societies and organizations to deliver symposia and courses at congresses and annual meetings. These partnerships enable us to provide the best formats possible.

While our initial educational efforts began with neurosurgeons, we are increasingly collaborating with neurologists, emergency physicians, trauma surgeons, neuro-intensivists, neuro-anesthesiologists, neuroradiologists, and other professionals to provide comprehensive education and program development opportunities. Emergency care, specific neurological care, and recovery are too complex to depend upon a single discipline. As such, collaboration is required to make the greatest impact on our patients' progress and outcomes.

We hope this program meets your expectations, as it is based on continuous development, study, evaluation, and discussion. Please let us know if you have ideas or suggestions for how we can enhance your learning and educational experience.

Join our network of professionals as we work together to improve the results in neuro care and rehabilitation for all our patients.

Warm regards,

Andrés M. Rubiano

President Global Neuro Foundation

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## Chairs



**Andres M. Rubiano**  
Universidad El Bosque, Bogota,  
Colombia



**Robson Amorim**  
Federal University of Amazonas

## Course Directors

## International Faculty



**Franly Vásquez**  
Hospital Salvador B. Gautier



**Franco Servadei**  
Humanitas University



**Gregory Hawryluk**  
Cleveland Clinic



**Juan Luis Pinedo**  
UCI Clinica AUNA Chiclayo



**Denis Hermosa**  
Hospital Daniel Acides Carrión

## National Faculty



**Sâmia Wayhs**  
Hospital das Clínicas da Faculdade  
de Medicina da Universidade de São  
Paulo



**Gustavo Patriota**  
Hospital de Emergência e Trauma  
Senador Humberto Lucena



**Vitor Yamaki**  
University of Sao Paulo



**Leonardo García-Zapata**  
Tumi Institute Of Education And  
Research



**Wellingson Paiva**  
University of Sao Paulo



**Jorge Luiz Da Rocha Paranhos**  
Federal University of Vale do São  
Francisco





**Rodrigo Faleiro**  
Private practice



**Edson Shu**



**Sergio Brasil**  
University of São Paulo



**Kelia Rejane**  
Hospital Foundation of Minas Gerais  
State

Location	Manaus   Brazil
Venue	Hospital Universitário Getúlio Vargas
Format	Course
Language(s)	English, Portuguese

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**Description** **Course description** This course covers the current best strategies and considerations for managing neurotrauma patients and 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 on 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. Participants will be able to interact throughout the course.

**Target audience** The **Global Neuro—Adult and Pediatric Advanced Neurotrauma Course** has been developed for neurosurgeons, residents, surgeons, and physicians who are experienced in the management of cranial neurotrauma and who have a strong interest in complex patient care, clinical research, and an interdisciplinary approach.

**Learning objectives** By completing this course, participants will be better able to:

- Perform an appropriate assessment of neurotrauma patients with the application of relevant guidelines.
- Choose the appropriate diagnosis modalities and interpret the results.
- Perform advanced neuromonitoring and interpretation to guide treatment interventions.
- Manage cranial neurotrauma in adult, pediatric, and polytrauma patients.
- Plan and perform the following operative techniques: advanced neuromonitoring placement, decompressive craniotomy, dural enlargement, expansive craniotomy, and advanced cranioplasty.
- Manage critical complications, such as intraoperative bleeding, expanding intracranial hematomas, brain swelling/edema, post-operative infection, and posttraumatic hydrocephalus.

# Agenda

## Module 1: Introduction

**Moderator: Robson Amorim**

08:00 - 08:15	Welcome, course structure, and objectives	Lecture
		Robson Amorim
08:15 - 08:30	Pre-course assessment	Lecture
		Andres M. Rubiano
08:30 - 08:40	Initial Management: Fundamentals of Prehospital Care	Lecture
		Franly Vásquez

## Module 2: Neurotrauma management

**Moderator: Sâmia Wayhs**

08:40 - 08:50	Critical Assessment in Austere Environments	Lecture
		Juan Luis Pinedo
08:50 - 09:05	Neuroproteomics and the New Classification of TBI	Lecture
		Andres M. Rubiano
09:05 - 09:25	Decision-Making in an Acute Subdural Hematoma	Discussion
		Wellington Paiva

## Module 3: Diagnostics, imaging, and pathologies

**Moderator: Kelia Rejane**

09:25 - 09:40	Overview of Neurotrauma in a Global Scenario	Lecture
		Franco Servadei
09:55 - 10:10	COFFEE BREAK	Break
10:10 - 10:25	Biomarkers in Pediatric TBI	Lecture
		Vitor Yamaki
10:25 - 10:40	Compliance and Autoregulation for Decision-Making in TBI	Lecture
		Gustavo Patriota
10:40 - 10:55	Advanced ICP Waveform analytics in the ICU Setting	Lecture
		Wellington Paiva
10:55 - 11:10	Concussion in Sports and Military Settings	Lecture
		Gregory Hawryluk
11:10 - 11:25	Interactive case discussion: Diffuse Axonal Injury	Discussion
		Jorge Luiz Da Rocha Paranhos

11:25 - 11:40	Interactive case discussion: Traumatic Intracerebral Hematoma	Discussion
		Rodrigo Faleiro
11:40 - 11:45	Questions and discussion, and participant summary of Module 3	Discussion
		Wellingson Paiva
11:45 - 14:00	LUNCH	Break

#### Module 4: Monitoring

Moderator: Gustavo Patriota

14:00 - 14:15	Non-Invasive Monitoring and New Trends for Guiding Therapy	Lecture
		Andres M. Rubiano
14:15 - 14:30	Advanced Monitoring in TBI: Integration of EEG, PtiO2 and ICP	Lecture
		Gregory Hawryluk
14:30 - 14:45	Interactive case discussion: Neurotrauma in Sports	Discussion
		Gustavo Patriota
14:45 - 15:00	Interactive case discussion: Neurotrauma in Less Resourced Settings	Discussion
		Franly Vásquez
15:00 - 15:15	Advanced Neuromonitoring in Pediatric TBI	Lecture
		Vitor Yamaki
15:15 - 15:30	Interactive case discussion: Complex Cranial Trauma	Discussion
		Denis Hermosa
15:30 - 15:45	Interactive case discussion: Expansion Craniotomy in Neurotrauma	Discussion
		Andres M. Rubiano
15:45 - 16:00	COFFEE BREAK	Break

#### Module 5: Hands-on exercises

Moderators: Wellingson Paiva, Franly Vasquez

16:00 - 17:40	Station1: ICP and PTIO2 (25 min)	Workshop
		Jorge Luiz Da Rocha Paranhos Kelia Rejane
16:00 - 17:40	Station 2: Transcranial Doppler and Optic nerve ultrasound (25 min)	Workshop
		Sergio Brasil Edson Shu
16:00 - 17:40	Station 3: Damage Control in Neurotrauma (DC, expansion craniotomy and reconstruction)	Workshop
		Franly Vásquez Leonardo García-Zapata
16:00 - 17:40	Station 4: Pupillometry and Surrogate ICP waveform (25 min)	Workshop
		Gustavo Patriota Sâmia Wayhs



17:40 - 17:50	Post-Course Assessment	Lecture
		Wellington Paiva
17:50 - 18:00	Closing Remarks and Evaluation	Lecture
		Robson Amorim Andres M. Rubiano

Event venue	<b>Hospital Universitário Getúlio Vargas</b> R. Tomas de Vila Nova, 300 - Centro, Manaus - AM, 69020-170 Manaus Brazil
Global Neuro funding sources	Unrestricted educational grants from different sources are collected and pooled together centrally or for specific events by the Global Neuro Foundation. All events are planned and scheduled by local and regional Global Neuro surgeon groups based on local needs assessment. We rely on industrial/commercial partners for in-kind support to run simulations/skills training if educationally needed.
Event organization compliance	In certain countries where Global Neuro has no office but offers educational events, Global Neuro cooperates with third-party companies to conduct local organization and logistics, as well as to communicate with participants in the local language. In these cases, the Global Neuro Foundation has put rules and guidelines in place (Letter of Secondment, Principles of Educational Events) to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.
Registration fee	USD 0.00
Registration link	<a href="https://globalneuro.org/EN/education/event-detail/101.html">https://globalneuro.org/EN/education/event-detail/101.html</a>

## General information

### Discounts

#### Course certificate

The course certificates can only be provided if the participant attends the entire event (100%) and will be available at the end of the event.

#### Evaluation guidelines

All Global Neuro events apply the same evaluation process, either online (pre- and post-event evaluation) or/and onsite by an audience response system (ARS) or paper and pencil questionnaires.

This helps Global Neuro ensure that we continue to meet your training needs.

#### Dress code

Casual

#### No insurance

The event organization does not take out insurance to cover any individual against accidents, theft or other risks.

#### Security

Security checks may be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, practical exercises, and group discussions.

#### Mobile phone use

Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

#### Intellectual property

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. Check hazards and legal restrictions on [www.globalneuro.org/legal](http://www.globalneuro.org/legal)

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden. Participants violating intellectual property will be dismissed.

The Global Neuro Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The Global Neuro Foundation assumes participants agree that these recorded materials may be used for Global Neuro marketing and other purposes and made available to the public.

## Principles of educational events

### **Academic independence**

Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer surgeons from the Global Neuro network. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving the expertise of the Global Neuro Education Institute ([www.globalneuro.org](http://www.globalneuro.org)).

Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and to keep content free from bias.

### **Branding and advertising**

No industry logos or advertising (with the exception of the Global Neuro Foundation) are permitted in the area where educational activities take place. Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

### **Personnel**

Industry staff is not allowed to interfere with the educational content or engage in educational activities during the event.

### **Compliance to accreditation and industry codes**

All planning, organization, and execution of educational activities follow existing codes for accreditation of highquality education:

- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, USA ([www.accme.org](http://www.accme.org))
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities ([www.accme.org](http://www.accme.org))
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education ([www.uems.eu](http://www.uems.eu))
- Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as: Eucomed Guidelines on Interactions with Healthcare Professionals ([www.medtecheurope.org](http://www.medtecheurope.org))
- AdvaMed Code of Ethics on Interactions with Health Care Professionals ([advamed.org](http://advamed.org))
- Mecomed Guidelines on Interactions with Healthcare Professionals ([www.mecomed.org](http://www.mecomed.org))

## Event contact

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