

Preliminary program

# **Global Neuro — Adult and Pediatric Advanced Neurotrauma Course**

**(With Hands-on Training)**

**At the XXI Congress of the Brazilian  
Academy of Neurosurgery**

**July 1<sup>st</sup>, 2025**

**Manaus, Brazil**

## Global Neuro welcomes you

On July 1, 2025, AONeuro became Global Neuro to broaden our geographic reach and for the opportunity to work 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 in multiple cultural and educational formats worldwide, with rigorously prepared and evaluated curricula. 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 collaborate increasingly with regional, national, and international societies and organizations to deliver symposia, seminars, webinars, 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, neuro intensivists, neuro anesthesiologists, emergency physicians, trauma surgeons, and other professionals to provide comprehensive education and program development opportunities.

Medicine, neurological care, and recovery are too complex to depend upon a single discipline. As such, collaboration is required to be able 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.

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

Warm regards,



**Andres M. Rubiano MD**  
**President, Global Neuro Foundation**

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### 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.

### Goal of the course

The *Global Neuro—Adult and Pediatric Advanced Neurotrauma Course*, covers the theoretical basis and practical principles that are the foundation for managing critical aspects of cranial neurotrauma.

### Target participants

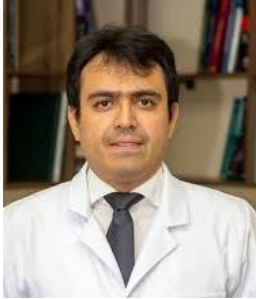
This Course has been developed for residents, surgeons, and physicians who manage cranial neurotrauma.

### Learning objectives

By completing the *Global Neuro—Adult and Pediatric Advanced Neurotrauma 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.

## Chairpersons



**Robson Amorim**

Federal University of Amazonas  
Manaus, Brazil



**Andres M. Rubiano**

El Bosque University  
Bogota, Colombia

## International Faculty

Gregory Hawryluk  
Franco Servadei

Cleveland Clinic  
University of Milano

Unites States, Akron  
Italy, Milano

## Regional Faculty

Juan Luis Pinedo	Almanzor Aguinaga Asenjo National Hospital	Peru, Chiclayo
Denis Hermoza	Hospital Nacional Daniel Alcides Carrion	Peru, Bellavista
Franly Vásquez	Dr. Abel Gonzalez Clinic	Dominican Republic, Sto. Domingo

## National Faculty

Wellingson Paiva	University of Sao Paulo	Brazil, Sao Paulo
Jorge Paranhos	Federal University of Vale do São Francisco	Brazil, Petrolina
Kelia Rejane	Hospital Foundation of Minas Gerais State	Brazil, Belo Horizonte
Rodrigo Faleiro	Hospital Felicio Rocho	Brazil, Belo Horizonte
Sâmia Wayhs	University of Sao Paulo	Brazil, Sao Paulo
Sergio Brasil	University of Sao Paulo	Brazil, Sao Paulo
Gustavo Patriota	Federal University of Paraíba	Brazil, Joao Pessoa
Edson Shu	Albert Einstein Israelite Hospital	Brazil, Sao Paulo
Vitor Yamaki	State University of Pará	Brazil, Belem
Leonardo G.-Zapata	Institute of Neurology of Goiania	Brazil, Goiania

## Agenda

Tuesday, July 1<sup>st</sup>, 2025

TIME	AGENDA ITEM	FACULTY
	GETULIO VARGAS HOSPITAL AUDITORIUM	
<b>Module 1</b>	<b>Introduction</b>	<b>Moderator: Robson Amorim</b>
08:00–08:15	Welcome, course structure, and objectives	Robson Amorim
08:15–08:30	Pre-course assessment	Andres Rubiano
<b>Module 2</b>	<b>Neurotrauma management</b>	<b>Moderator: Sâmia Wayhs</b>
08:30–08:40	Initial Management: Fundamentals of Prehospital Care	Franly Vásquez
08:40–08:50	Critical Assessment in Austere Environments	Juan Pinedo
08:50–09:05	Neuroproteomics and the New Classification of TBI	Andres Rubiano
09:05–09:25	Interactive Case Discussion <i>Decision-Making in an Acute Subdural Hematoma</i>	Wellingson Paiva
<b>Module 3</b>	<b>Diagnostics, imaging, and pathologies</b>	<b>Moderator: Kelia Rejane</b>
09:25–09:40	Overview of Neurotrauma in a Global Scenario	Franco Servadei
09:40–09:55	Imaging of Neurotrauma in Emergency Situations	Denis Hermosa
<b>09:55–10:10</b>	<b>COFFEE BREAK</b>	<b>ALL</b>
10:10–10:25	Biomarkers in Pediatric TBI	Vitor Yamaki
10:25–10:40	Compliance and Autoregulation for Decision-Making in TBI	Gustavo Patriota
10:40–10:55	Advanced ICP Waveform analytics in the ICU Setting	Wellingson Paiva
10:55–11:10	Concussion in Sports and Military Settings	Gregory Hawryluk
11:10–11:25	Interactive case discussion: <i>Diffuse Axonal Injury</i>	Jorge Paranhos
11:25–11:40	Interactive case discussion: <i>Traumatic Intracerebral Hematoma</i>	Rodrigo Faleiro
11:40–11:45	Questions and discussion, and participant summary of module	Wellingson Paiva
<b>11:45–14:00</b>	<b>LUNCH</b>	<b>ALL</b>
<b>Module 4</b>	<b>Monitoring</b>	<b>Moderator: Gustavo Patriota</b>
14:00–14:15	Non-Invasive Monitoring and New Trends for Guiding Therapy	Andres Rubiano
14:15–14:30	Advanced Monitoring in TBI: Integration of EEG, PtiO <sub>2</sub> and ICP	Gregory Hawryluk
14:30–14:45	Interactive case discussion: Neurotrauma in Sports	Gustavo Patriota

TIME	AGENDA ITEM	FACULTY
14:45–15:00	Interactive case discussion: Neurotrauma in Less Resourced Settings	Franly Vasquez
15:00-15:15	Advanced Neuromonitoring in Pediatric TBI	Vitor Yamaki
15:15-15:30	Interactive case discussion: <i>Complex Cranial Trauma</i>	Denis Hermosa
15:30–15:45	Interactive case discussion: <i>Expansion Craniotomy in Neurotrauma</i>	Andres Rubiano
<b>15:45–16:00</b>	<b>BREAK</b>	
<b>Module 5</b>	<b>Hands-on exercises</b>	<b>Moderators: Wellingson Paiva - Franly Vasquez</b>
16:00-17:40	Practical exercises <ol style="list-style-type: none"> <li>1. ICP and PTIO<sub>2</sub> (25 min)</li> <li>2. Transcranial Doppler and Optic nerve ultrasound (25 min)</li> <li>3. Damage Control in Neurotrauma (Decompressive craniectomy, expansion craniotomy and reconstruction (25 min))</li> <li>4. Pupillometry and Surrogate ICP waveform (25 min)</li> </ol>	1. Jorge Paranhos & Kelia Rejane 2. Sérgio Brasil & Edson Shu 3. Leonardo Zapata & Franly Vasquez 4. Sâmia Wayhs & Gustavo Patriota
17:40-17:50	Post-Course Assessment	Wellingson Paiva
17:50-18:00	Closing Remarks and Evaluation	Robson Amorim

### **Event organization**

#### **Global Neuro Foundation**

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#### **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 Neurosurgeon 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, Global Neuro Foundation—Principles of Educational Events) to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

## Event information

### Event fee

Global Neuro Course registration fees are:

- Residents' fee: 180 BRL (Must register for the Congress)
- Neurosurgeons' fee: 240 BRL (Must register for the Congress),
- Intensivists' fee: 240 BRL (No Congress registration is required, limited seats available)

Included in the course fee is a conference bag with course material, practical exercises, coffee breaks, lunch, and a course certificate.

### Registration

For registration and please register and pay at the **[XXI CONGRESSO DA ABNc - 01 a 05 de julho de 2025 - Manaus - AM](#)**, once you have register please visit our website to register to the course: <https://globalneuro.org/EN/education/event-detail/101.html>

### 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 once the evaluations have been completed.

### Evaluation guidelines

All Global Neuro events apply the same evaluation process, either online (pre- and post-event evaluation) or/and on-site by audience response system (ARS) or paper and pencil questionnaires. This helps Global Neuro to ensure that we continue to meet your training needs.

### 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.aofoundation.org/legal](http://www.aofoundation.org/legal).

**Recording, photographing, or copying 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.

### Security

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



**No insurance**

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

**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.

**Dress code**

Casual

**Further information**

Ximena Rodriguez

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