

Preliminary program

# Global Neuro Course— Neurocritical Care and Neurotrauma

22 March 2025

Taipei, Taiwan



## Course description

This course is a unique opportunity for you to learn from experts in the field and enhance your skills in the caring of neurocritical illness. The care of those patients must be known, including the pathophysiology for neurocritical care, cerebral multimodality monitoring, and surgical/medical interventions. First, the pathophysiology changes of the brain injury involve a complex interaction between different intracranial organs, such as brain parenchyma, vascular and cerebrospinal fluid, and processes a post-injured damaging pathway if not intervened. Second, the rigid cranium protects the brain like a black box; the cerebral parameters cannot be easily detected by medical personnel in the neuro-intensive care unit (NICU). In recent years, cerebral multimodality monitoring can capture parameters in brain injury's multifaceted and dynamic nature. In addition, those parameters can guide us in the management of patients in NICU. Finally, different surgical/medical methods, such as intracranial pressure (ICP) monitor insertion, are essential in the emergency setting. Targeted temperature management (TTM) is important in the control of ICP or fever in the NICU. This is the first time the neurotrauma and neurocritical care training course has been provided by the Taiwan Neurotrauma and Critical Care Society together with Global Neuro, giving you the privilege to learn from the best in the field. The agenda of the course includes all the above-mentioned information needed in the care of patients in the NICU. It is divided into 2 sessions : the content of the morning session consists of the pathophysiology for neurocritical care to organs-specific management, and the afternoon session is the hands-on session which provides attendees with the opportunity to learn the manipulation of TTM/ Hemodynamic/ Transcranial Doppler/ continuous EEG through interactive lectures. .

## Target participants

This course's aim is to provide basic knowledge and skills to all the health care providers working in the NICU or emergency department involving in the care of the neurocritical illness.

## Learning objectives

By completing this course, participants will be able to

- Understand the pathophysiology change of the neurocritical illness and its management rationale
- Describe the management of principle of the Cerebral perfusion pressure and seizure
- Manage the respiratory and nutrients issues in patients with severe brain injured
- Manipulate and read the devices commonly use in the NICU

## Faculty

### Chair



Sui-Sum Kung  
Kaohsiung Medical University Hospital  
Kaohsiung, Taiwan

### International faculty

#### *Joining in-person*

|                |                                  |           |           |
|----------------|----------------------------------|-----------|-----------|
| Takashi Araki  | Saitama Medical University       | Saitama   | Japan     |
| Yulin Wong     | Tan Tock Seng hospital           | Singapore | Singapore |
| Shoji Yokobori | Nippon Medical University School | Tokyo     | Japan     |

#### *Joining online*

|                 |                          |               |                |
|-----------------|--------------------------|---------------|----------------|
| Marek Czosnyka  | University of Cambridge  | Cambridge     | United Kingdom |
| Geoffrey Manley | University of California | San Francisco | USA            |

### National Faculty

|               |                                      |            |        |
|---------------|--------------------------------------|------------|--------|
| Chih-Ju Chang | Sijhih Cathay General Hospital       | New Taipei | Taiwan |
| Lin Chang     | Taipei City Hospital Ren-ai branch   | Taipei     | Taiwan |
| Pin-Yuan Chen | Keelung Chang-Geng Memorial Hospital | Keelung    | Taiwan |

|                 |                                       |              |        |
|-----------------|---------------------------------------|--------------|--------|
| Yu-Cheng Chou   | Taichung Veterans General Hospital    | Taichung     | Taiwan |
| Yin-Yi Han      | National Taiwan University Hospital   | Taipei       | Taiwan |
| Cheng-Ta Hsieh  | Cathay General Hospital               | Taipei       | Taiwan |
| Hsin-Yao Lin    | MacKay Memorial Hospital              | Taipei       | Taiwan |
| Jui-Ming Sun    | Chia-Yi Christian Hospital            | Chia-Yi City | Taiwan |
| Ming-Cheng Tsai | Shin Kong Wu Ho-Su Memorial Hospital  | Taipei       | Taiwan |
| Meng-Ni Wu      | Kaohsiung Medical University Hospital | Kaohsiung    | Taiwan |
| Hao-Kuang Wang  | E-DA Hospital                         | Kaohsiung    | Taiwan |

## Day 1, Saturday, 22 March 2025

| TIME                                      | AGENDA ITEM  | FACULTY  | MODERATOR  |
|---|--|--|--|
| 08:20-08:50                               | ICP is not just a number   | Marek Czosnyka   | Hsin-Yao Lin   |
| 08:50-09:00                               | Registration   |  |  |
| 09:00-09:10                               | Opening  | Cheng-Chia Tsai<br>/ Chiung-Chyl Shen  |  |
| 09:10-09:40                               | Pathophysiology of ABI   | Sui-Sum Kung   | Chih-Ju Chang  |
| 09:40-10:10                               | ICP management   | Shoji Yokobori   | Cheng-Ta Hsieh   |
| 10:10-10:40                               | Modalities of Neuro-monitoring in TBI  | Yulin Wong   | Hao-Kuang Wang   |
| 10:40-11:00                               | Coffee Break and Group photo   |  |  |
| 11:00-11:30                               | A New Framework for TBI Nomenclature and Characterization  | Geoffrey Manley  | Ming-Cheng Tsai  |
| 11:30-12:00                               | Pediatric neurotrauma  | Takashi Araki  | Yu-Cheng Chou  |
| 12:00-12:20                               | Plenary discussion   |  |  |
| 12:20-13:30                               | Lunch seminar  |  |  |
| 12:20-13:00                               | Modern approaches to post-TBI epilepsy: The safety and efficacy of levetiracetam                     | TBC  | Jui-Ming Sun   |
| 13:00-13:30                               | Pupillometry   | TBC  | Pin-Yuan Chen  |
| Hands-on session (50 mins for each round) |  |  |  |
|   | Hands-on 1:<br>Targeted Temperature Management (TTM) for neurotrauma<br><i>Sui-Sum Kung</i><br>龔瑞琛醫師 | Hands-on 2:<br>Transcranial Doppler (TCD) management<br><i>Lin Chang</i><br>張麟醫師 | Hands-on 3:<br>Critical care Electroencephalogram (EEG)<br><i>Meng-Ni Wu</i><br>Hands-on 4:<br>Hemodynamic<br><i>Meng-Ni Wu</i><br>吳孟霓醫師 |
|   | Hands-on 4:<br>Hemodynamic<br><i>Yin-Yi Han</i><br>韓吟宜醫師   |  |  |
| 13:30-14:20                               | Group A  | Group B  | Group C  |
| 14:20-15:10                               | Group B  | Group C  | Group D  |
| 15:10-15:30                               | Coffee Break   |  |  |
| 15:30-16:20                               | Group C  | Group D  | Group A  |
| 16:20-17:10                               | Group D  | Group A  | Group B  |
| 17:10-17:20                               | Closing remark and evaluation  |  | Sui-Sum Kung   |

## Course information

### Event venue

Xing-Chun Auditorium, Xinyi Campus,  
Taipei Medical University  
No.250, Wuxing St., Xinyi Dist., Taipei City 110 Taiwan

### Event organization

Global Neuro Foundation  
Clavadelerstrasse 1  
7270 Davos  
Switzerland  
Website: [www.globalneuro.org](http://www.globalneuro.org)

### Event organizer

Jenny Cheng  
Email: [jenny.cheng@globalneuro.org](mailto:jenny.cheng@globalneuro.org)

### 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 commercial partners for in-kind support to run simulations/skills training if educationally needed.

## General information

### Event fee

Global Neuro Course—Neurocritical Care and Neurotrauma

Course fee: NTD 1,500

The course fee includes course material, coffee breaks, lunch, and a course certificate.

### Registration

Please click on the registration link below to register for the Global Neuro Course—Neurotrauma:

### 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) and/or onsite by paper and pencil questionnaires. This helps Global Neuro to ensure that we continue to meet your training needs.

### Dress code

Casual

### Language

English / Chinese

### 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 a name tag is compulsory during lectures, practical exercises, and group discussions.

### Mobile phone use

The use of mobile phones is not allowed in the lecture halls and 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

## Global Neuro Foundation—Principles of Educational Events

### 1) 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 involves 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.

### 2) Compliance to accreditation and industry codes

All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality 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 ([www.advamed.org](http://www.advamed.org))
  - Mecomed Guidelines on Interactions with Healthcare Professionals ([www.mecomed.org](http://www.mecomed.org))

### 3) 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.

### 4) Personnel

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