

Global Neuro Course— Neurotrauma and Neurocritical Care

22 March 2025
Taipei, Taiwan



Global Neuro welcomes you

On January 1, 2018, AONeuro became Global Neuro for the purpose of broadening our geographical 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 the educational and practical experiences in patient care and outcomes.

We offer educational events across the world, 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, neurointensivists, neuro-anesthesiologists, neuroradiologists, and other neuro 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 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.

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
President Global Neuro Foundation

Course description

This course is a unique opportunity for you to learn from experts in the field and enhance your skills in caring for neurocritical illness. The care of Neurotrauma and Neurocritical Care patients is critical, including the pathophysiology for neurocritical care, cerebral multimodality monitoring, and surgical/medical interventions. First, pathophysiological changes of a brain injury involve a complex interaction between different intracranial organs, such as the 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 (NeuroICU). In recent years, cerebral multimodality monitoring has increasingly captured parameters in brain injury's multifaceted and dynamic nature. In addition, those parameters can guide us in managing patients in the Neuro-ICU. Finally, different surgical and 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 Neuro-ICU. This is the first time that a neurotrauma and neurocritical care training course will be 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 course agenda includes all the above-mentioned information needed in the care of patients in the Neuro-ICU. It is divided into 2 sessions: the morning session consists of the pathophysiology for neurocritical care to organ-specific management, and the afternoon session features a 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 Neuro-ICU or emergency department involved in the care of neurocritical illness.

Learning objectives

By completing this course, participants will be better able to

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

Special Guest

Kevin Wang	Morehouse School of Medicine	Atlanta	USA
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National Faculty

Lin Chang	Taipei City Hospital Ren-ai branch	Taipei	Taiwan
Cheng-Yu Cheng	Taipei Medical University Hospital	Taipei	Taiwan
Pin-Yuan Chen	Keelung Chang-Gung Memorial Hospital	Keelung	Taiwan
Shu-Mei Chen	Taipei Medical University Hospital	Taipei	Taiwan
Yuan-Hao Cheng	Tri-Service General Hospital	Taipei	Taiwan
Jian-Ying Chuang	Taipei Medical University	Taipei	Taiwan
Yin-Yi Han	National Taiwan University Hospital	Taipei	Taiwan
Bor-Ren Huang	Taichung Tzu Chi Hospital	Taichung	Taiwan
Cheng-Ta Hsieh	Cathay General Hospital	Taipei	Taiwan
Chen-Hao Li	Far Eastern Memorial Hospital	Taipei	Taiwan
Kuo-Hsing Liao	Wanfang Hospital	Taipei	Taiwan
Chun-Fu Lin	Taipei Veterans General Hospital	Taipei	Taiwan
Hsin-Yao Lin	Mackay Memorial Hospital	Taipei	Taiwan
Zhuo-Hao Liu	Chang Gung Memorial Hospital Linkou	Linkou	Taiwan
Chueng-He Lu	Tri-Service General Hospital and National Defense Medical Center	Taipei	Taiwan
Chiung-Chyi Shen	Taichung Veterans General Hospital	Taichung	Taiwan
Fu-Yuan Shih	Chang Gung Memorial Hospital Kaohsiung	Kaohsiung	Taiwan
Jui-Ming Sun	Chia-Yi Christian Hospital	Chia-Yi City	Taiwan
Cheng-Chia Tsai	Mackay Memorial Hospital	Taipei	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 (pre-recorded) (Breakfast symposium)	Marek Czosnyka	Hsin-Yao Lin 林新曜秘書長
08:50–09:00	Registration		
9:00–09:10	Opening	Cheng-Chia Tsai 蔡承嘉 理事長 / Chiung-Chyi Shen 沈炯祺 理事長	
09:10–09:40	Pathophysiology of ABI (Acquired Brain Injury)	Sui-Sum Kung 龔瑞琛醫師	Bor-Ren Huang 黃伯仁主任
09:40–10:10	ICP management	Shoji Yokobori	Cheng-Ta Hsieh 謝政達主任
10:10–10:40	Modalities of Neuro-monitoring in TBI	Yulin Wong	Hao-Kuang Wang 王浩洸主任
10:40–11:00	Coffee Break and Group photo		
11:00–11:30	A New Framework for TBI Nomenclature and Characterization (pre-recorded)	Geoffrey Manley	Ming-Cheng Tsai 蔡明成主任
11:30–12:00	Pediatric neurotrauma	Takashi Araki	Shu-Mei Chen 陳淑美主任
12:00–12:20	Plenary discussion		
12:20–13:30	Lunch seminar		
12:20–13:00	Optimizing seizure management for TBI & Intracranial Hemorrhage Patients	Chen-Hao Li 李振豪醫師	Chun-Fu Lin 林俊甫醫師
13:00–13:30	Pupillometry for Neurocritical Care	Sui-Sum Kung 龔瑞琛醫師	Chueng-He Lu 呂忠和主任 Pin-Yuan Chen 陳品元主任

TIME	AGENDA ITEM	FACULTY		MODERATOR
Afternoon Session Part I: Hands-on practical exercise (managed by Global Neuro)				
	Hands-on 1: Targeted Temperature Management (TTM) for neurotrauma <i>Sui-Sum Kung</i> 龔瑞琛醫師	Hands-on 2: Transcranial Doppler (TCD) management <i>Lin Chang</i> 張麟醫師	Hands-on 3: Critical care Electroencephalogram (EEG) <i>Meng-Ni Wu</i> Hands-on 4: Hemodynamic <i>Meng-Ni Wu</i> 吳孟霓醫師	Hands-on 4: Hemodynamic <i>Yin-Yi Han</i> 韓吟宜醫師
13:30–14:20	Group A	Group B	Group C	Group D
14:20–15:10	Group B	Group C	Group D	Group A
15:10–15:30	Coffee Break			
15:30–16:20	Group C	Group D	Group A	Group B
16:20–17:10	Group D	Group A	Group B	Group C
17:30–17:40	Closing remarks and evaluation			Cheng-Chia Tsai 蔡承嘉 理事長

TIME	AGENDA ITEM	FACULTY	MODERATOR
Afternoon Session Part II (managed by Taiwan Neurotrauma and Critical Care Society)			
13:50-14:00	Opening remark	Cheng-Chia Tsai 蔡承嘉 理事長 / Kuo-Hsing Liao 廖國興 大會會長	
14:00-14:40	CBI-M: Clinical part	Fu-Yuan Shih 石富元 醫師	Hsin-Yao Lin 林新曜 醫師
14:40-15:20	CBI-M: Biomarker part	Kevin Wang 汪家宏 教授	Yuan-Hao Chen 陳元皓 院長
15:20-15:40	Coffee break		
15:40-16:20	Translational Functional Neuroimaging in Postconcussion Syndrome	Cheng-Yu Chen 陳震宇 主任教授	Jian-Ying Chuang 莊健盈 副院長
16:20-17:00	CBI-M: Modifier part	Kuo-Hsing Liao 廖國興 主任	Zhuo-Hao Liu 劉倬昊 主任
17:00-17:30	Case sharing and plenary discussion	Takashi Araki	Jui-Ming Sun 孫瑞明 醫秘
17:30-17:40	Closing remark	Cheng-Chia Tsai 蔡承嘉 理事長	
18:00	Dinner – Shin Yeh Taiwanese Cuisine (Xinyi Place A9)		

Course information

Event venue

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

台北醫學大學杏春樓 4 樓展演廳、Workshops 2 樓教室



Event organization

Global Neuro Foundation

Clavadelerstrasse 1

7270 Davos

Switzerland

Website: www.globalneuro.org

Taiwan Neurotrauma and Critical Care Society 台灣神經創傷暨重症學會

新北市淡水區民權路47號 / 淡水馬偕醫院外科部

Website: <https://www.taiwanneurotraumasociety.com/>

Email: taiwan.neurotrauma.society@gmail.com

Event organizer

Jenny Cheng

Email: 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 (local delegate) / USD 50 (overseas delegate)

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:

<https://globalneuro.org/EN/education/event-detail/94.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.

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

Chinese / English

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

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).

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)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (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)
 - AdvaMed Code of Ethics on Interactions with Health Care Professionals (www.advamed.org)
 - Mecomed Guidelines on Interactions with Healthcare Professionals (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.

Sponsors

A special thanks to our partners BD, Integra, GSK, Wattcan Instruments and ZOLL for providing educational grant and in-kind support for this event.



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IN THE MANAGEMENT OF
ELEVATED INTRACRANIAL PRESSURE (ICP)

CereLINK™

ICP monitoring system



Missing the full picture with your current monitoring system?

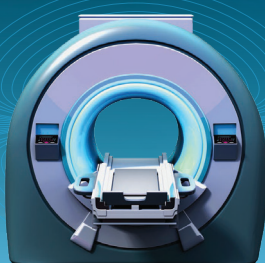
From ICP to IC More.

CereLink™ System provides uncompromised advanced continuous ICP monitoring—with minimal drift, MR conditional capability, durable, flexible ICP sensors, and advanced data presentation features.^{1,2}

More Protection

MR Conditional Capability

Features 1.5 and 3 T MR conditional capability for all sensor configurations



More Choice

Durable, Flexible ICP Sensors

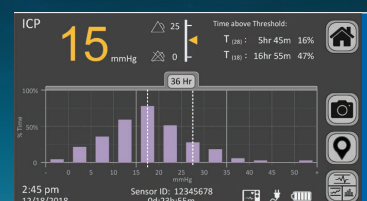
Sensor flexibility allows for physician choice in implantation and fixation methods with greater durability



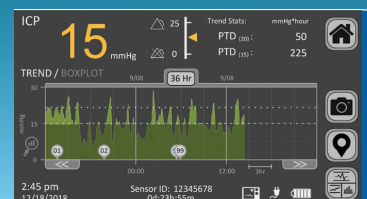
More Information

Advanced Data Presentation

Time Above Threshold and Histograms



Pressure Time Dosage



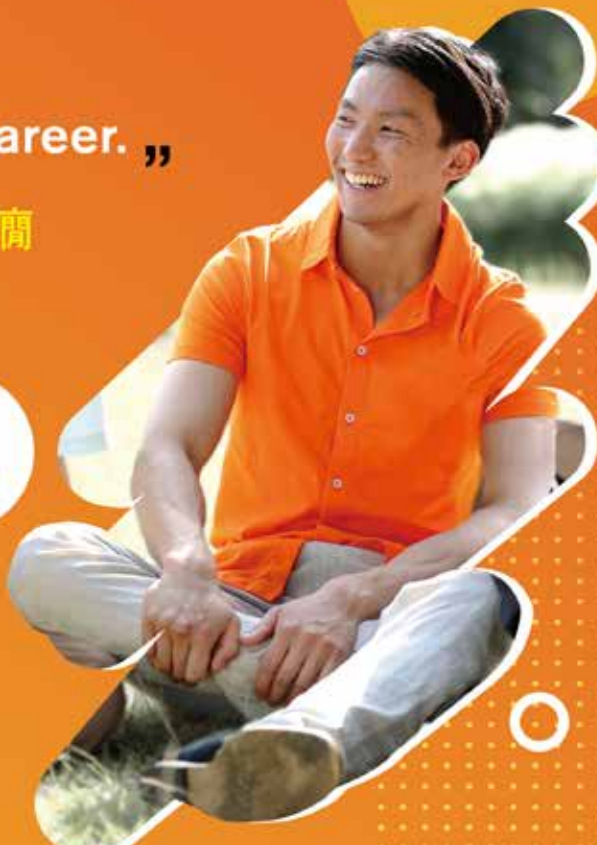
Levetiracetam為局部癲癇
成人病患之治療選擇



Keppra 在體內與SV2A結合。

口服後1.3小時達C_{MAX}，生體可用率近100%。

Keppra不受食物影響，且吸收不受劑量影響。



對主成分 Levamisole 敏感或對其他 pyrrolidone 衍生物或本藥其他藥劑敏感者，請勿使用本藥。傳導：若服用 Levamisole 他又必須停藥時，建議分階段性減量。腎臟或肝功能不全：腎臟功能障礙病人使用時，必須調整劑量。接受不良反應：參照此、哮喘、頭痛、



可及性	新加坡新加坡 2020年11月	中文藥品名稱	鹽酸鹽片 5041 毫克	活性成份學名	L-levamisole
適應症用法	<ul style="list-style-type: none"> 1. 以適以上病人之臨牀適應症，即作為成年患者之急性及慢性之乙型肝炎。 4. 適以上患者或成人病人之臨牀適應症（即有下述急性慢性患者）：12 歲以上青少年和成人病人之抗瘤性適應症，以及 12 歲以上青少年和成人患者對急性及慢性傳染的急性及慢性病毒發覺發覺之適應症。 				
劑量與用法	建議初始劑量平均分次，根據體重：				
	<ul style="list-style-type: none"> 成人及 16 歲以上的青少年 				
	使用時建議以每天兩次每次 250 mg 開始，兩週後增加劑量到每天兩次每次 500 mg 建議給藥劑量。病人的臨牀反應，劑量可再提高，以每兩星期增量 500 mg，直到分次，每次增加 250 mg 為一週的劑量，最高劑量為每日 3000 mg（分兩次，每次 1500 mg）。				
	兒童劑量： <ul style="list-style-type: none"> 成人 16 歲以上之患者 500 mg 或以下的青少年（12 至 17 歲） 				
	初始劑量為每日 1000 mg 每日兩次，每次 500 mg，此劑量可能於治療的第一天。病人的臨牀反應及耐受性，每日劑量可增加至最高每日 3000 mg（分兩次，每次 1500 mg）。				
禁忌症	兒童（4 至 11 歲）及體重 40 公斤以下的青少年（12 至 17 歲）				
	初始劑量為每天兩次，每次 10 mg/kg，病人的臨牀反應及耐受性，劑量可增加至最高每次 30 mg/kg，每日兩次。				
	5 歲以下的孩童應使用 Xopex 內含劑量 190 mg/ml。				
	5 歲以下的孩童，使用每劑量 250 mg，劑量為 250 mg 後數日服用多劑量。無法達到建議劑量時或無法服用該藥之病人，應使用 levamisole 以週劑量。				
	切勿過度服用。				
禁忌症	此藥成人病人的每日劑量應低於腎功能正常（postrenal clearance）而後服藥。				
	對主成分 levamisole 敏感或對其他 pyridoxine 衍生物敏感者其副作用敏感者，請勿服用本藥。				
	孕婦、安胎用 levamisole 應立即停止服用時，建議立即停止服用。				
	孕婦或計劃懷孕者，服用此藥應與病人諮詢時，必須諮詢醫生。				
	此藥的劑量，已於多數由試驗劑量減少之藥物後出現（levamisole）的使用有相當一般發生之副作用。				
不良反應	副作用：或如前所述，以肝臟病變。包括 levamisole 治療的病人有惡化行為一因診斷及治療惡化行為的藥物。				
	副作用及不良反應：包括肝臟病變。包括 levamisole 治療的病人有惡化行為一因診斷及治療惡化行為的藥物。				
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	副作用及不良反應：包括肝臟病變。包括 levamis				



北極日體溫調節系統 北極日溫控傳遞墊





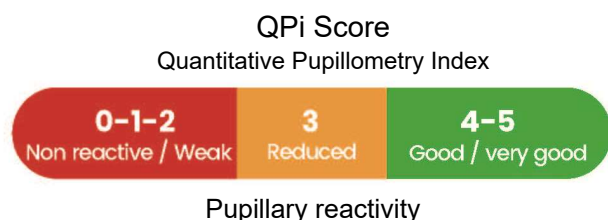
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BEYOND SIMPLE AND PRECISE
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TAKE CONTROL OF TEMPERATURE MANAGEMENT



The Thermogard HQ™ Temperature Management System, with closed-loop intravascular catheter cooling, streamlines the path to high-quality temperature management with speed, precision, nursing efficiencies, and clinical insight.

When target temperature is quickly reached and reliably maintained, temperature management is under control.

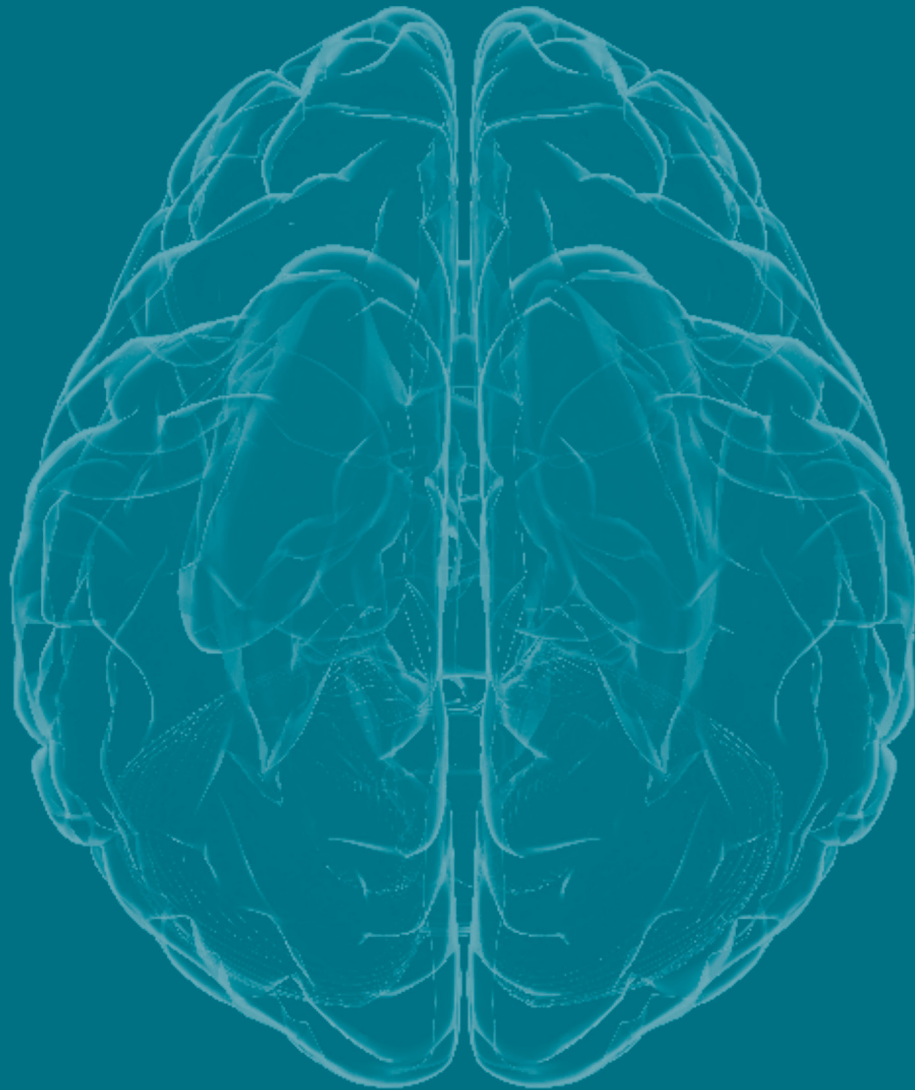


Get started now with a FREE evaluation.

For more details, call 800-804-4356 or scan the QR code.

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Clavadelerstrasse 1 | 7270 Davos, Switzerland | info@globalneuro.org | T +4179 337 0942
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