Global Neuro

Event program

Global Neuro Course—Neurotrauma

04 - 05 April 2025

Davos | Switzerland

Global Neuro Course—Neurotrauma

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

Table of contents

Chairs

Raphael Guzman
University Hospital Basel

Bart Depreitere
Bart Depreitere, MD, PhD, staff neurosurgeon, University Hospitals Leuven

Course Directors

Nader Hejrati
Kantonsspital St. Gallen

Marialaura Giamundo
Kantonsspital Aarau

Lorenzo Bertulli
Kantonsspital St. Gallen

International Faculty

Mario Ganau
Oxford University Hospitals NHS FT

Franco Servadei
Humanitas University

Special Guests

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Universidad El Bosque, Bogota, Colombia

National Faculty

Amir El Rahal
Medical Center University Hospital Freiburg im Breisgau

Maria Licci
Universitätsspital Basel

Arne Mehrkens
Basel University Hospital

Armin Curt
University Hospital Balgrist

Werner Z'Graggen
University Hospital Bern

Christian Zweifel
Kantonsspital Graubünden

Giovanni Raffa
University of Messina

Location	Davos | Switzerland
Venue	Hochgebirgsklinik Davos, Campus Gebäude
Format	Course
Language(s)	English

Description

This course covers the current best strategies and considerations for managing neurotrauma patients, focussing on cranial and spinal trauma, 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 Neurotrauma.

Target audience

The course has been developed for the following physicians at all levels of their careers:

- Neurosurgeons
- Orthopedic and Trauma Surgeons
- Spine surgeons
- Critical care physicians
- Neurologists
- Neurosurgery and critical care nurses
- Translational researchers interested in learning about clinical aspects of neurotrauma

Goal of the course

The Global Neuro Course—Neurotrauma covers the theoretical basis and practical principles for managing traumatic brain and spine injuries and making proper decisions in daily clinical practice.

Learning objectives

Upon completion of the program, the participants will be better able to:

- Review basic science and clinical translational advances in traumatic brain injury, cranial trauma, and spinal cord injury
- Apply evidence-based-decision making to the management of patients with TBI and SCI
- Select the best operative and non-operative treatment for each patient
- Discuss advances in the critical and neurocritical care of TBI in adults and children
- Assess and manage patients with spinal trauma and spinal cord injury based on current guidelines

Accreditation

European CME AccreditationThe course has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) in Brussels for a maximum of 9.5 European CME credits (ECMEC ®s).Swiss Society of NeurosurgeryThe course has been accredited by the Swiss Society of Neurosurgery in Switzerland for a maximum of 8 CME credits.

Agenda

Day 1, Friday, 4 April 2025

10:00 - 10:30	**Registration / Welcome coffee**	Break
10:30 - 10:40	**Welcome and introductions**	Lecture
		Raphael Guzman Bart Depreitere

Traumatic Brain Injury (TBI)

Moderators: L Bertulli, R Guzman

10:40 - 11:00	**TBI epidemiology, clinical assessment and imaging**	Lecture
		Franco Servadei
11:00 - 11:20	**Management of TBI: State of the Art**	Lecture
		Bart Depreitere
11:20 - 11:40	**Small Group discussions: Severe TBI**	Discussion
		Giovanni Raffa
11:40 - 12:00	**Small Group discussions: Coagulation and TBI**	Discussion
		Amir El Rahal
12:00 - 12:20	**Small Group discussions: CSF Leak**	Discussion
		Christian Zweifel
12:20 - 13:20	**LUNCH BREAK**	Break
13:20 - 13:40	**Monitoring and ICU**	Lecture
		Werner Z'Graggen
13:40 - 14:00	**Role of decompressive craniectomy**	Lecture
		Mario Ganau
14:00 - 14:20	**Pediatric TBI**	Lecture
		Maria Licci
14:20 - 14:40	**Discussion on translational research in Neurotrauma**	Discussion
		Mario Ganau Raphael Guzman
14:40 - 15:00	**COFFEE BREAK AND NETWORKING**	Break

Hand-on Session 1

15:00 - 17:00	**Table 1: EVD, ICP and Autoregulation Monitoring (20 mins)**	Workshop
		Mario Ganau Werner Z'Graggen Christian Zweifel Bart Depreitere
15:00 - 17:00	**Table 2: Decompressive craniectomy/cranioplasty/Drilling (30 mins)**	Workshop
		Andres M. Rubiano Raphael Guzman Giovanni Raffa
15:00 - 17:00	**Table 3: Dural Repair (30 mins)**	Workshop
		Franco Servadei Amir El Rahal Maria Licci
15:00 - 17:00	**Table 4: Augmented Reality Navigation (20 mins)**	Workshop
		Nader Hejrati Marialaura Giamundo Lorenzo Bertulli
17:00 - 17:10	**Wrap up of Day 1**	Lecture
		Raphael Guzman

Day 2, Saturday, 5 April 2025

Traumatic Spinal Cord Injury

Moderators: M Giamundo, N Hejrati

09:00 - 09:30	**Traumatic Spinal Cord Injury: Updates and future directions**	Lecture
		Bart Depreitere

Interactive case discussions (Part 1)

Moderators: B Depreitere, N Hejrati

09:30 - 09:50	**Interactive Case Discussion: Cervical fractures**	Discussion
		Lorenzo Bertulli
09:50 - 10:10	**Interactive Case Discussion: Thoracolumbar fractures**	Discussion
		Arne Mehrkens

10:10 - 10:30	**Interactive Case Discussion: Timing of Decompression**	Discussion
		Mario Ganau
10:30 - 10:50	**COFFEE BREAK AND NETWORKING**	Break

Interactive case discussion (Part 2)

Moderators: B Depreitere, N Hejrati

10:50 - 11:10	**Interactive Case Discussion: Intensive Care Management of SCI**	Discussion
		Werner Z'Graggen
11:10 - 11:30	**Interactive Case Discussion: Challenges of SCI in paediatric and elderly patients**	Discussion
		Mario Ganau
11:30 - 11:50	**Interactive Case Discussion: Rehabilitation after Traumatic Spinal Cord Injury**	Discussion
		Armin Curt
11:50 - 12:50	**LUNCH BREAK**	Break

Hands-on Session 2

12:50 - 15:00	**Table 1: Spinal stabilization cervical, anterior/posterior**	Workshop
		Nader Hejrati Christian Zweifel Bart Depreitere
12:50 - 15:00	**Table 2: Spinal stabilization thoracic / lumbar / sacroillac**	Workshop
		Arne Mehrkens Giovanni Raffa
12:50 - 15:00	**Table 3: Craniocervical junction**	Workshop
		Mario Ganau Maria Licci
12:50 - 15:00	**Table 4: Augmented Reality Navigation**	Workshop
		Marialaura Giamundo Lorenzo Bertulli
15:00 - 15:10	**Wrap-up and course evaluation**	Lecture
		Raphael Guzman

Event venue

Hochgebirgsklinik Davos, Campus Gebäude
Davos Switzerland

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

CHF 250.00

Registration link

https://globalneuro.org/EN/education/event-detail/81.html

General information

Discounts

- Resident discount for Davos course (20%)

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

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).

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)
- 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-kindsupport 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 (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

Sponsors

A special thanks to our partners Health Solutions and Support, Integra, Spineart, Johnson & Johnson, Promedics (Spiegelberg), Globus Medical NSL Medical and Zeiss for providing educational support grants and in-kind support for this event.

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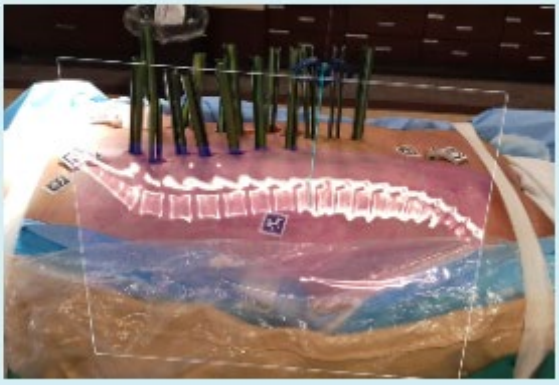

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NEW

From ICP to IC More.

CereLink™ provides continuous ICP burden data[1,2] & minimal drift up to 30 days.

Scan to learn more

1 Vik et al, Relationship of "dose" of intracranial hypertension to outcome in severe traumatic brain injury, J Neurosurg 109:000–000, 2008.
2. Güiza et al; Visualizing the pressure and time burden of intracranial hypertension in adult and paediatric traumatic brain injury. Intensive Care Med. 2015;41(6):1067-76.

Indications CereLink™ Monitor: The ICP Monitor is intended for use as an interface between compatible strain gauge type pressure transducers and standard physiological pressure monitoring systems. The ICP Monitor is also intended for use as an independent pressure monitor for displaying the mean,
systolic and diastolic numeric values of a physiologic pressure waveform in the absence of an external patient monitor.

Contraindications CereLink™ Monitor: The ICP Monitor is contraindicated for use in a Magnetic Resonance (MR) environment. Refer to the ICP Sensor IFU for MR environment use. Use of the kit is indicated when direct intracranial pressure (ICP) monitoring is required. The kit is indicated for use in both subdural and intraparenchymal pressure monitoring applications.

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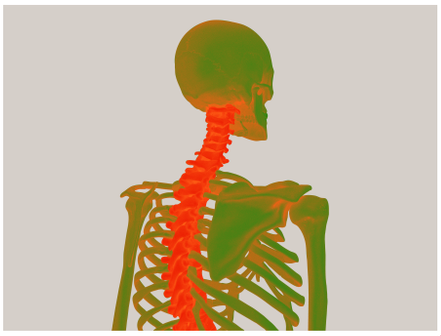

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Stratafix 1. Ethicon, 100326296: Time zero tissue holding - Competitive claims comparisons for STRATAFIX Knotless Tissue Control Devices vs various products. 2015. Data on File. (127444-230607). 2. Sundaram K, Warren J, Klika A, Piuzzi N, Mont M, Krebs V. Barbed sutures reduce arthrotomy closure duration compared to interrupted conventional sutures for total knee arthroplasty: a randomized control trial. Musculoskelet Surg. 2020;1-7. (127444-230607). 3. Zayed M, Fouda U, Elsetohy K, Zayed S, Hashem A, Youssef M. Barbed sutures versus conventional sutures for uterine closure at cesarean section; a randomized controlled trial. The journal of maternal-fetal & neonatal medicine. 2017:1-8.
(127444-230607). 4. Ethicon, AST-2012-0331. Tissue gapping under tension of porcine cadaveric skin incisions closed with Stratafix Spiral in comparison to Monocryl in both interrupted and continuous stitching patterns. October 2012. Data on File. (127444-230607). 5. Ethicon, AST-2013-0056. Performance Testing of STRATAFIX Symmetric PDSSize2-0 suture device for Tissue Holding Strength with Multiple Incision Defects to Measure Gapping. April 2013. Data on File. (127444-230607).

§Shorter closure time for STRATAFIX™ symmetric polydioxanone Plus compared to interrupted closure ($p < 0.001$); and STRATAFIX™ Spiral to VICRYL™ (first layer continuous closure, second layer interrupted closure, $p<0.001$).
‡Refers to STRATAFIX™ Symmetric PDS™ Plus Knotless Tissue Control Device only. Benchtop assessment using porcine fascia, greater maximum tissue holding strength compared to Looped PDS™ or VICRYL™ interrupted closures
($p<0.05$). Pre-clinical test data are not necessarily indicative of clinical performance.
‖Benchtop testing in porcine tissue. STRATAFIX™ was better able to maintain optimal tissue approximation when damage to the closure device occurred. (STRATAFIX™ Spiral compared to MONOCRYL™ interrupted and continuous
closure and STRATAFIX™ Symmetric PDS™ compared to PDS ™Plus continuous closure). Pre-clinical test data are not necessarily indicative of clinical performance.

PRINEO: 1. Ethicon, AST-2012-0290, Study to Compare the tissue holding strength of PRINEO™ skin closure system with conventional wound closure techniques, October 2012, Data on File. (142219-230607)

*In an ex-vivo study, more load in N was required to create a 3 ±1 mm gap between skin edges approximated with DERMABOND™ PRINEO™ System, than with subcuticular 4-0 MONOCRYL™ Suture or PROXIMATE Ethicon Endo-Surgery skin staples ($p=0.00$).
†Based on benchtop testing and clinical effect is unknown.

SURGIFLO: 1. Ethicon, 10122004, Evaluation of the Conformability of SURGIFLO (Pre-filled Flowable Hemostat) vs SURGIFOAM Absorbable gelatin Sponge, Dec 2014, Data on File
*Specific time 81 vs. 163 seconds

Please refer always to the Instructions for Use /Package Insert that comes with the device for the most current and complete instructions.

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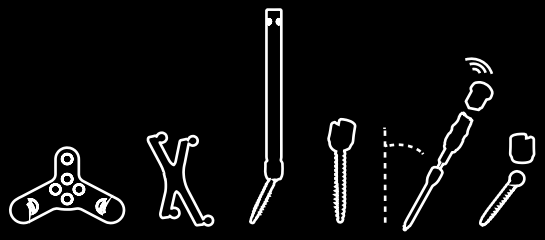

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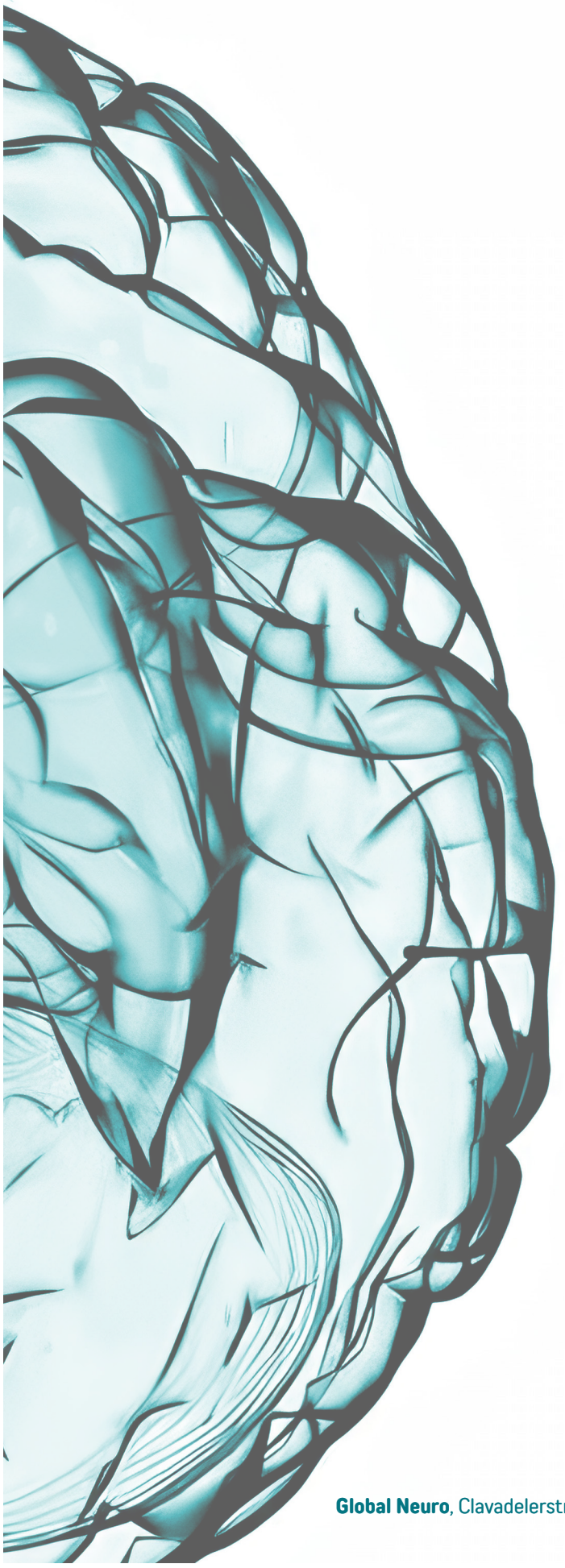
SPINEART

Global Neuro



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