



Global Neuro



JOHNS HOPKINS  
SCHOOL of MEDICINE

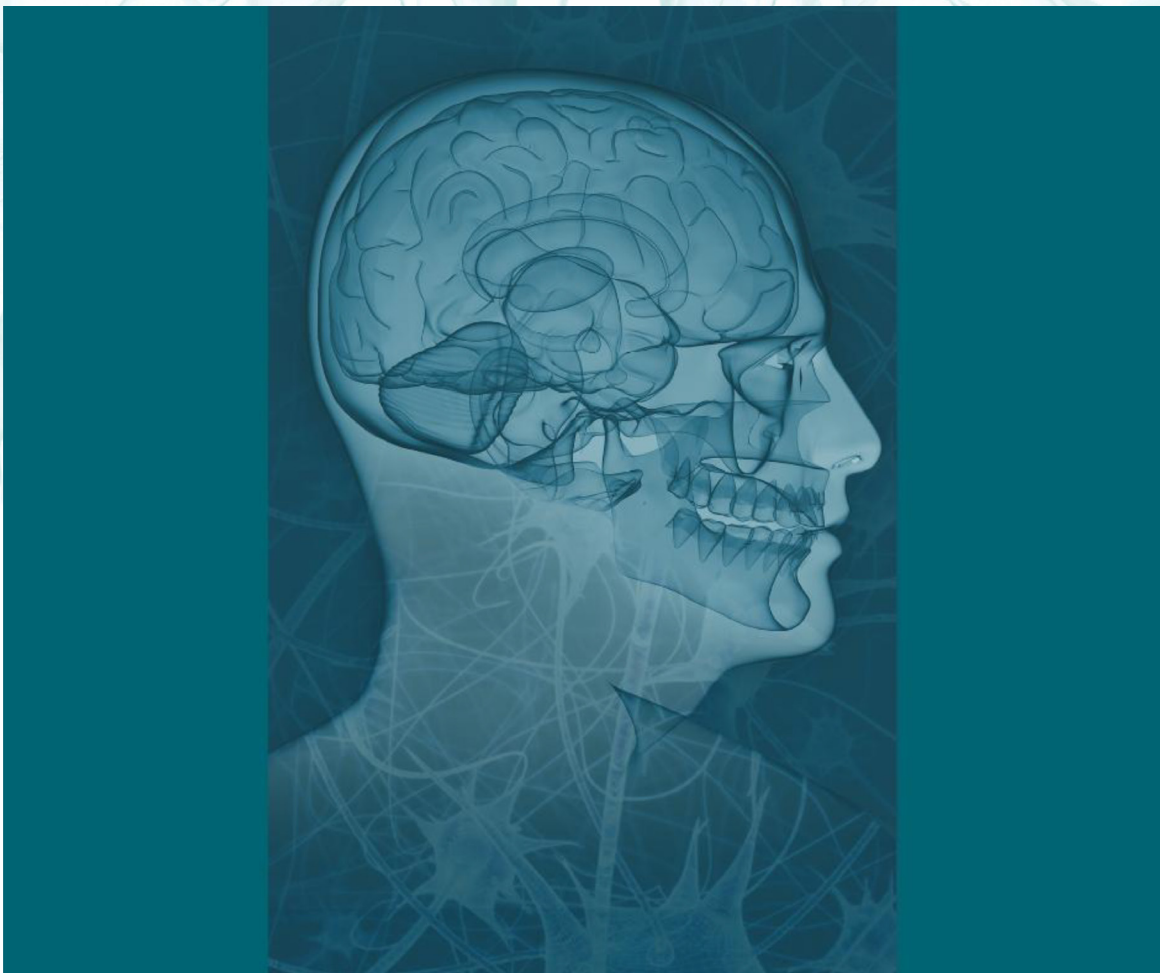


SOCIETY OF  
NEUROPLASTIC SURGERY  
PATIENT CARE, EDUCATION, AND RESEARCH

Final program

# Ninth Annual Selected Topics in Neuroplastic & Reconstructive Surgery Course with Cadaver Lab

December 7-8, 2024, Miami, FL, USA



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## Global Neuro welcomes you

On January 1, 2018, AONeuro became Global Neuro to broaden our geographical reach and to collaborate with multiple partners. Our new foundation is incorporated in Switzerland and is ready to serve you and improve 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 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



## Course description

This year's cadaver Course will explore and elucidate the new insights and advances relative to cranioplasty, cranial implants, implantable neurotechnology, and techniques for diagnosis, monitoring, and treatment of tumors and cerebrovascular diseases to broaden and deepen the neuro and neuroplastic surgeons' skills.

Its diverse faculty, consisting of neuroplastic surgeons, neurosurgeons, interventionists, neurooncologists, neurologists, neuroradiologists, and plastic and reconstructive surgeons, ensures a comprehensive and well-rounded approach to the material and applicability in innovation and research.

The content is delivered using multiple methods: comprehensive lectures that concentrate on understanding core material and deepening knowledge of trauma management. On Saturday, case-based discussions link the lecture material and practical skills with the clinical problems encountered in clinical practice. On Sunday, the practical exercises teach the application of the principles and the surgical management of scalp/skull/brain injuries and diseases using human cadaver specimens.

## Event format

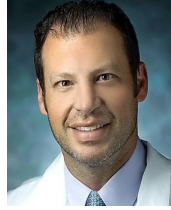
This course is delivered through lectures, primarily focused on current evidence, consensus recommendations and innovations, pertinent case-based discussions, and hands-on dissection.

The course also strives to enable participants to exchange ideas and have an open and constructive debate with the leading experts in the field through direct and informal face-to-face experiences between teachers and participants.

## Target participants

This course has been developed for physician extenders in Neurosurgery, Neuro-Oncology, Neurovascular, Neuroplastic, Cranial Surgery, Plastic and Reconstructive Surgery, Neurology, Neuroradiology, medical students, residents, fellows, physicians, attending surgeons, researchers, and others who are interested in the management of complex patient care and an interdisciplinary approach.

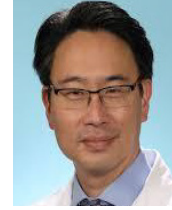
## Chairpersons



**Chad Gordon**  
Johns Hopkins University  
School of Medicine  
Baltimore, United States



**Gordon Li**  
Stanford University  
Palo Alto, United States



**Albert Kim**  
Washington University – St. Louis  
St. Louis, United States

## Faculty

<b>Amir Wolff</b>	Rambam Health Care Campus	Haifa, Israel
<b>Andres Rubiano</b>	El Bosque University	Bogota, Colombia
<b>Colleen Perez</b>	Johns Hopkins Medicine	Baltimore, United States
<b>Cormac Maher</b>	Stanford Medicine Children's Health	Palo Alto, United States
<b>Chetan Bettgowda</b>	Johns Hopkins Medicine	Baltimore, United States
<b>Christopher Jackson</b>	Johns Hopkins Medicine	Baltimore, United States
<b>Daniel Daneshvar</b>	Harvard Medical School	Boston, United States
<b>Gabriel Santiago</b>	US Navy Bureau of Medicine and Surgery	Washington D.C., United States
<b>Heather McCrea</b>	University of Miami	Miami, United States
<b>Joacir Gracioli</b>	University of Miami	Miami, United States
<b>Justin M. Caplan</b>	Johns Hopkins Medicine	Baltimore, United States
<b>Kerry-Ann Mitchell</b>	Ohio State University College of Medicine	Columbus, United States
<b>Natalie Wisniewski</b>	CraniUS	Baltimore, United States
<b>Robert T. Wicks</b>	Miami Neuroscience Institute	Miami, United States
<b>Tamir Shay</b>	Rabin Medical Center	Tel Aviv, Israel

## Day one, Saturday, December 7, 2024

TIME	AGENDA ITEM	WHO
07:30–08:00	Registration/ Continental breakfast	All
	<b>Introduction</b>	
08:00–08:10	Welcome remarks and course introduction	Chairpersons
08:10–08:20	Opening remarks and Global Neuro introduction	Chad Gordon
<b>Module 1</b>	<b>Neuroplastic Surgery ( N P S ) and its applications</b>	<b>Moderator: Gabriel Santiago</b>
08:20–08:40	Setting the Bar for Patient–Reported Outcomes in NPS	Kerry–Ann Mitchell
08:40–09:00	Pertinent Anatomical Considerations and Soft Tissue Challenges in NPS	Colleen Perez
09:00–09:20	Getting it right the first time: Revision Cranioplasty versus Primary Cranioplasty	Tamir Shay
09:20–09:40	The Value–Add of Neuroplastic Surgery to a Neurosurgical Practice	Gabriel Santiago
09:40–10:00	Cranioplasty in Pediatrics	Heather McCrea
10:00–10:30	Israel’s recent experience with Cranioplasty	Amir Wolff
10:30–10:50	Past, Present, and Future: Where is NPS heading from here?	Chad Gordon
<b>10:50–11:15</b>	<b>Q&amp;A Session for Module 1</b>	<b>Moderator: Gabriel Santiago</b>
11:15–11:25	<b>COFFEE AND NETWORKING BREAK</b>	ALL
<b>Module 2</b>	<b>Cranio-cerebral Trauma and Clinical Management</b>	<b>Moderator: Andres Rubiano</b>
11:25–11:45	Nano–transfection Based Approaches to Optimize Calvarial Bone Healing After Decompressive Craniectomy	Kerry–Ann Mitchell
11:45–12:05	Football helmet accelerometer data quantifying repetitive head impacts and Chronic traumatic encephalopathy	Daniel Daneshvar
12:05–12:25	Diagnosis of Intracranial Compartment Syndrome with Multi–Monitoring Techniques as a Guide for Definitive Surgical Therapy in TBI Patients	Andres Rubiano
12:25–12:45	An unexpected journey with neuroplastic surgery: invited patient speaker	Gregory Cody
<b>12:45–12:55</b>	<b>Q&amp;A Session for Module 2</b>	<b>Moderator: Andres Rubiano</b>
12:55–13:55	<b>LUNCH</b>	ALL

## Day one, Saturday, December 7, 2024

TIME	AGENDA ITEM	WHO
<b>Module 3</b>	<b>Advanced Approaches for Brain Tumor Management</b>	<b>Moderator: Christopher Jackson</b>
13:55–14:05	Clinical Obstacles and Challenges Associated with the Glioblastoma Microenvironment	Christopher Jackson
14:05–14:15	Immunological Effects of Laser Therapy	Albert Kim
14:15–14:25	A Review of Combination Therapy for Glioblastoma and Pertinent Considerations for the Future	Chetan Bettegowda
14:25–14:45	Using the Temporal Skull–soft tissue Space to Deliver Brain Medicines via Convection–enhanced Delivery	Chad Gordon
<b>14:45–14:55</b>	<b>Q&amp;A Session for Module 3</b>	<b>Moderator: Christopher Jackson</b>
14:55–15:10	<b>Coffee and Networking Break</b>	ALL
<b>Module 4</b>	<b>Cerebrovascular Diseases and Advanced Therapies</b>	<b>Moderator: Albert Kim</b>
15:10–15:25	Important Considerations for Mechanical Thrombectomy	Justin Caplan
15:25–15:40	Immune responses after ischemic brain injury	Christopher Jackson
<b>Module 5</b>	<b>Implantable Technologies for Neuromodulation</b>	<b>Moderator: Gordon Li</b>
15:40–15:55	Implantable Sensors for Real-time Monitoring of Brain Health	Natalie Wisniewski
15:55–16:10	Brain–Computer Interfaces for Handwriting, Speech & Beyond	Gordon Li
<b>16:10–16:20</b>	<b>Q&amp;A Session for Module 4 and 5</b>	<b>Moderator: Gordon Li</b>
16:20–16:30	Closing remarks Day 1	Chairs

## Day Two, Sunday, December 8, 2024

TIME	AGENDA ITEM	WHO
07:30–08:00	Continental breakfast	All
<b>Module 6</b>	<b>Case Discussions</b>	<b>Moderators: Andres Rubiano / Cormac Maher</b>
08:00–08:40	Case Discussions in Traumatic Brain Injury (TBI) (5 m each + 5m discussion each) <ul style="list-style-type: none"> <li>• 2 cases TBI in adults</li> <li>• 2 cases TBI in children</li> </ul>	Adults: Joacir Graciolli, Andres Rubiano Children: Heather McCrea, Cormac Maher
08:40–09:20	Case Discussions in Cerebrovascular & Brain Tumors (5 m each + 5m discussion each) <ul style="list-style-type: none"> <li>• 2 cases Cerebrovascular</li> <li>• 2 cases Tumors</li> </ul>	Cerebrovascular: Robert T. Wicks Tumors: Gordon Li
<b>Module 7</b>	<b>Hands-on activities</b>	<b>Moderator: Andres Rubiano</b>
09:20–09:50	Implant design and planning supported by Engineers	Chad Gordon
09:50–10:10	<b>COFFEE AND NETWORKING BREAK</b>	ALL
10:10–10:20	Instructions and dressing	All
10:20–11:00	Neurosurgical Approaches and Reconstruction Techniques	Chad Gordon
10:20–10:50	Session I: Pterional Craniotomy: Overview and Surgical Technique (30 min)	Justin Caplan
10:50–11:20	Session II: Orbito-Zygomatic Craniotomy: Overview and Surgical Technique (30 min)	Christopher Jackson
11:20–12:20	Session III: Implants for Cranial Reconstruction and Systems for Delivering Brain Medicine: Overview and Surgical Techniques (60 min)	Chad Gordon, Kerry-Ann Mitchell, Gabriel Santiago, Colleen Perez, Tamir Shay
12:20–12:50	Session IV: Hemispheric and Bifrontal Cranial Decompression and Reconstruction: Overview and Surgical Techniques (30min)	Andres Rubiano, Joacir Graciolli
12:50–13:20	Session V: New and Traditional Approaches for Surgical Management of The Intracranial Compartment Syndrome (30m)	Joacir Graciolli, Andres Rubiano
13:20–13:30	Closing remarks and end of the event	Chairs



## Event venue



### **M.A.R.C. Institute**

8850 NW 20th St, Doral, FL 33172

Phone: (305)716-0966

## Event organization

### **Global Neuro Foundation**

Clavadelerstrasse 1

Davos, Switzerland 7270

### **Event organizer**

Ximena Rodriguez

Phone +1 321 732 2199

Email: [ximena.rodriguez@globalneuro.org](mailto:ximena.rodriguez@globalneuro.org)

## General information

### Event fees

Attending physicians: \$350 USD

Resident/Fellow/Researcher/Allied health practitioner: \$175 USD

Saturday December 7th or December 8th only: \$200 USD

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

### Registration

For onsite registration, please visit:

<https://globalneuro.org/EN/education/event-detail/74.html>

### Course certificate

The symposium certificates can only be provided if the participant attends the entire event (100%) and will be sent to your email address after you complete the course evaluation.

### Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Johns Hopkins University School of Medicine and Global Neuro Foundation. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

### Credit Designation Statement

The Johns Hopkins University School of Medicine designates this live activity for a maximum of **11.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



### Evaluation guidelines

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

### 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 to others by turning off your mobile phone.

### Dress code

Casual.

### 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 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 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.

### 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.

## Sponsors

### **ACKNOWLEDGEMENT**

We wish to acknowledge the following companies that have provided an educational grant in support of this activity.

CraniUS Medical  
DePuy Synthes  
Medtronic  
Osteomed an Acumed Company  
Sophysa  
Stryker

### **EXHIBITORS**

#### **Platinum**

DePuy Synthes

#### **Gold**

Osteomed an Acumed Company

#### **Silver**

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Stryker

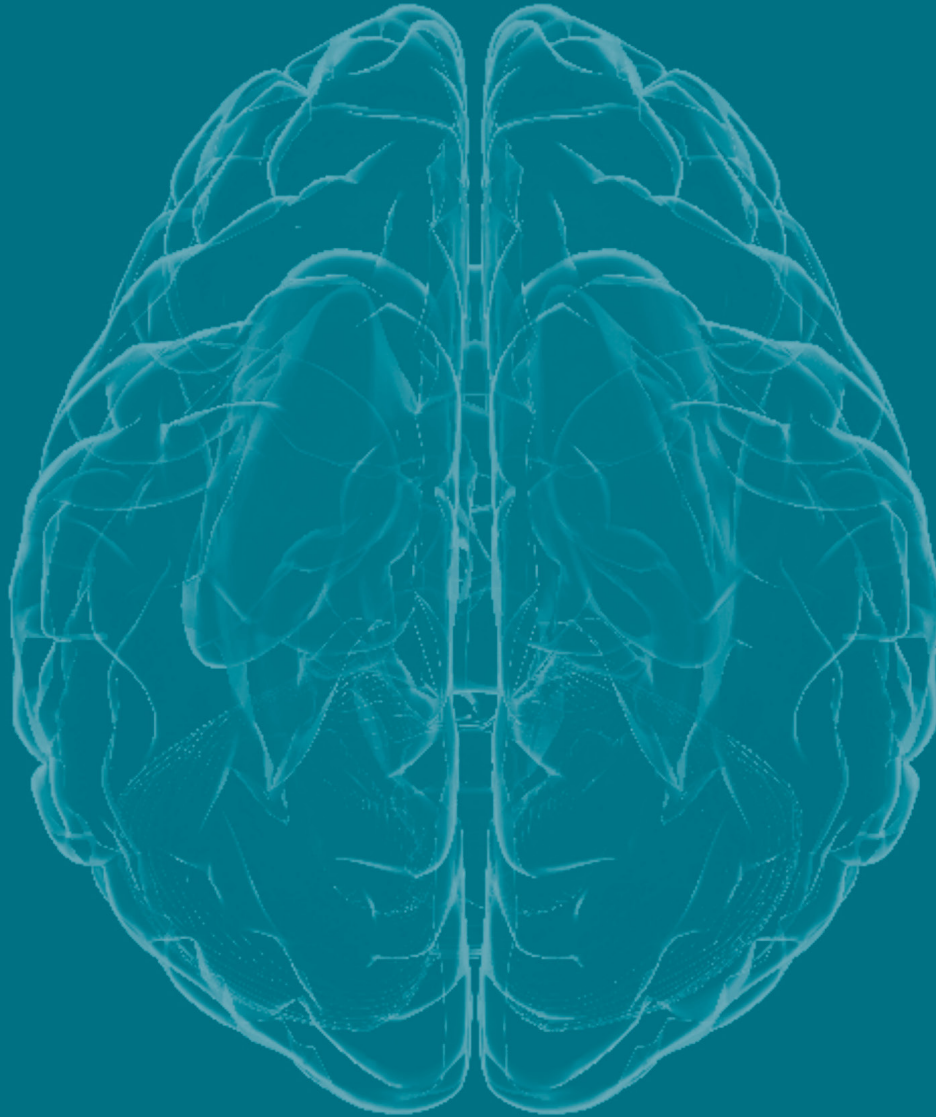








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