Global Neuro

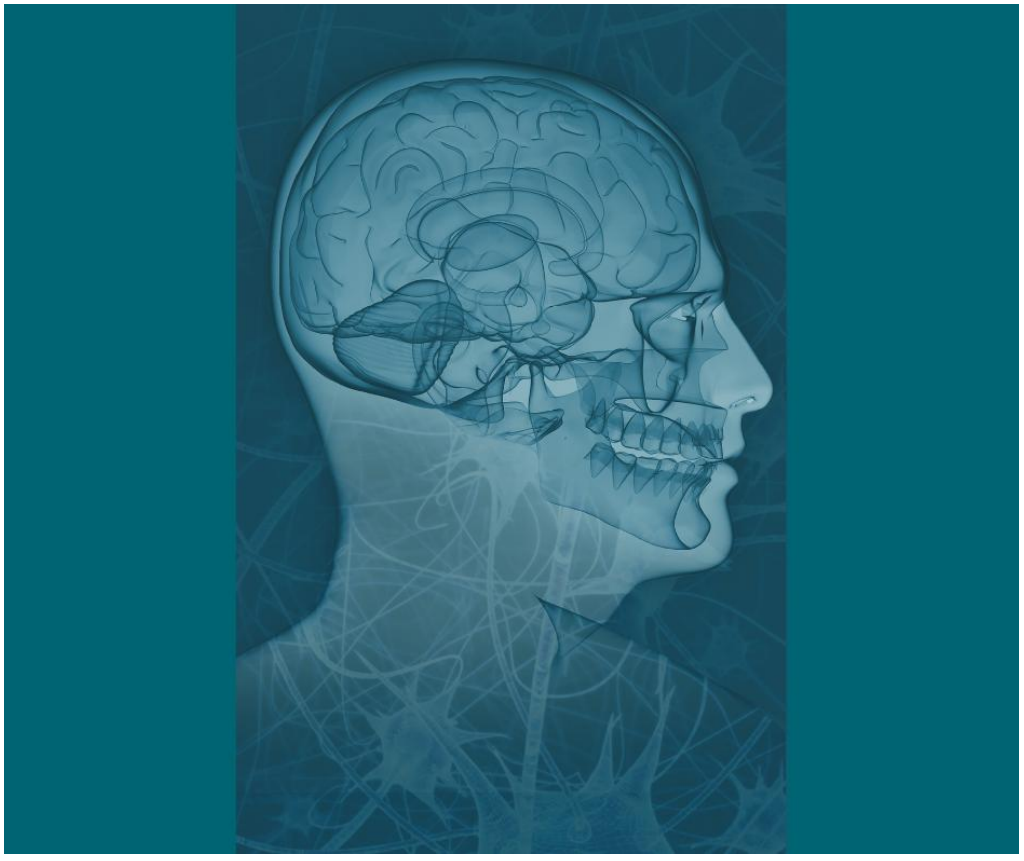
JOHNS HOPKINS SCHOOL of MEDICINE

SOCIETY OF NEUROPLASTIC SURGERY
PATIENT CARE, EDUCATION, AND RESEARCH

Preliminary program

9th Annual Selected Topics in Neuroplastic & Reconstructive Surgery Course with Cadaver Lab

December 7–8, 2024, Miami, FL, USA



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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.

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Learning objectives

- Create a cranioplasty reconstruction management plan with or without implants, from pre- to post-procedural care.
- Discuss recent advances in neurosurgery, neuroplastic surgery, cranioplasty, and neuro-cranial reconstruction and how you may incorporate them into your practice to improve outcomes.
- Employ cooperative learning to analyze practice barriers and apply appropriate solutions using multidisciplinary collaboration.
- Translate neurosurgery, neuroplastic surgery, cranioplasty, and implantable neurotechnology research findings to improve outcomes based on recent evidence-based literature.

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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, USA

Invited Faculty

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

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Day one, Saturday, December 7, 2024

TIME	AGENDA ITEM	FACULTY
07:30–08:00	Registration/ Continental breakfast	All
	Introduction	
08:00–08:10	Welcome remarks and course introduction	Chairs
08:10–08:20	Opening remarks and Global Neuro introduction	Chad Gordon
Module 1	Neuroplastic Surgery (NPS) and its applications	Moderator: Gabriel Santiago
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 Reconstruction	Amir Wolff
10:30–10:50	Past, Present, and Future: Where is NPS heading from here?	Chad Gordon
10:50–11:15	Q&A Session for Module 1	Moderator: Gabriel Santiago
11:15–11:25	COFFEE AND NETWORKING BREAK	ALL
Module 2	Craniocerebral Trauma and Clinical Management	Moderator: Andres Rubiano
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
12:45–12:55	Q&A Session for Module 2	Moderator: Andres Rubiano

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TIME	AGENDA ITEM	FACULTY
12:55–13:55	LUNCH	ALL
Module 3	Advanced Approaches for Brain Tumor Management	Moderator: Christopher Jackson
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
14:45–14:55	Q&A Session for Module 3	Moderator: Christopher Jackson
14:55–15:10	Coffee and Networking Break	ALL
Module 4	Cerebrovascular Diseases and Advanced Therapies	Moderator: Albert Kim
15:10–15:25	Important Considerations for Mechanical Thrombectomy	Justin Caplan
15:25–15:40	Immune responses after ischemic brain injury	Christopher Jackson
Module 5	Implantable Technologies for Neuromodulation	Moderator: Gordon Li
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
16:10–16:20	Q&A Session for Module 4 and 5	Moderator: Gordon Li
16:20–16:30	Closing remarks Day 1	Chairs

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Day Two, Sunday, December 8, 2024

TIME	AGENDA ITEM	FACULTY
07:30–08:00	Registration/ Continental breakfast	All
Module 6	Case Discussions	Moderators: Andres Rubiano, Cormac Maher
08:00–08:40	**Case Discussions in Traumatic Brain Injury (TBI)** (5 m each + 5m discussion each) ·2 cases TBI in adults ·2 cases TBI in children	**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) ·2 cases Cerebrovascular ·2 cases Tumors	**Cerebrovascular:** Robert T. Wicks **Tumors:** Gordon Li
Module 7	Hands-on activities	Moderator: Andres Rubiano
09:20–09:50	Implant design and planning supported by Engineers	Chad Gordon
09:50–10:10	COFFEE AND NETWORKING BREAK	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

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TIME	AGENDA ITEM	FACULTY
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

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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

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Event 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 course certificates can only be provided if the participant attends the entire event (100%) and will be available at the end of the event.
Accreditation

Accreditation Statement

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (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.

ACCME ACCREDITED

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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.

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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