

Preliminary program

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

Presented by:

GLOBAL NEURO FOUNDATION & THE SOCIETY OF NEUROPLASTIC SURGERY

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



Course description

This course will present evidence-based data on surgical approaches and state-of-the-art materials, engage and network with a broad array of colleagues and experts, and share high-yield experiences to help attendees improve their patients' outcomes.

Interactive Q&A sessions at the end of each module will offer the opportunity to debate the evidence, exchange ideas, and gain invaluable insight to assist with the most challenging cases. This year's 'Neuroplastic & Reconstructive Surgery Course' will engage an international faculty and audience consisting of Neuroplastic surgeons, Neurosurgeons, Interventionists, Neuro-Oncologists, Neurologists, Neuroradiologists, and Plastic & Reconstructive surgeons to explore and elucidate the new insights and advances relative to neuroplastic surgery, cranioplasty, cranial implants, implantable neurotechnology, and techniques for diagnosis, monitoring and treatment of tumors and cerebrovascular diseases.

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 medical students, residents, fellows, physicians, attending surgeons, researchers, and physician extenders in Neurosurgery, Neurology, Neuroradiology, Neuro-oncology, Neurovascular, Neuroplastic and Reconstructive Surgery, Craniofacial Surgery, Plastic and Reconstructive Surgery, and others who are interested in the management of complex patient care, and an interdisciplinary approach.

Learning objectives

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

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
Andres Rubiano
Andrew R Mayer

Colleen Perez
Cormac Maher

Christopher Jackson
Daniel Daneshvar
Donna M Ferreiro

L. Fernando Gonzalez
Gabriel Santiago

Justin M. Caplan
Kerry–Ann Mitchell

Michael Lim
Michael McDermott
Nathan Rowland

Rambam Health Care Campus
El Bosque University
University of New Mexico

Johns Hopkins Medicine
Stanford Medicine Children's
Health

Johns Hopkins Medicine
Harvard Medical School
UCSF Dept of Pediatrics

Johns Hopkins Medicine
US Navy Bureau of Medicine
and Surgery

Johns Hopkins Medicine
Ohio State University
College of Medicine

Stanford University
Miami Neuroscience Institute
University of South Carolina

Haifa, Israel
Bogota, Colombia
Albuquerque, United
States
Baltimore, United States
Palo Alto, United States

Baltimore, United States
Boston, United States
San Francisco, United
States

Baltimore, United States
Washington D.C., United
States

Baltimore, United States
Columbus, United States

Palo Alto, United States
Miami, United States
Charleston, United
States



Global Neuro

Netanel Ben-Shalom
Peter Konrad
Tamir Shay
Tatjana Rundek
William Anderson

Lenox Hill Hospital
Vanderbilt University
Rabin Medical Center
University of Miami
Johns Hopkins Biomedical

New York, United States
Nashville, United States
Tel Aviv, Israel
Miami, United States
Baltimore, United States



Day one, Saturday, December 7, 2024

TIME	AGENDA ITEM	FACULTY
07:00–08:00	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	Moderators: 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	Low-profile Inset of Hydrocephalus Shunt Devices within Skull	Nati Ben-Shalom
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	Head Kinetics, Blood Biomarkers, and Histology Correlation: Findings in a Large Animal Swine Model	Andrew Mayer
11:45–12:05	Football helmet accelerometer data quantifying repetitive head impacts and Chronic traumatic encephalopathy	Daniel Daneshvar
12:05–12:25	Intracranial Pressure Monitoring in TBI with Transcranial Doppler	Andres Rubiano
12:25–12:45	AN UNEXPECTED JOURNEY WITH NEUROPLASTIC SURGERY: INVITED PATIENT SPEAKER	TBD
12:45–12:55	Q&A Session for Module 2	Moderators: Andres Rubiano



TIME	AGENDA ITEM	FACULTY
12:55–13:55	LUNCH	ALL
Module 3	Advanced Approaches for Brain Tumor Management	Moderator: Chris Jackson
13:55–14:05	Clinical Obstacles and Challenges Associated with the Glioblastoma Microenvironment	Chris Jackson
14:05–14:15	TREM2 inhibition and how it triggers antitumor cell activity	Albert Kim
14:15–14:25	A Review of Combination Therapy for Glioblastoma and Pertinent Considerations for the Future	Michael Lim
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: Chris Jackson
14:55–15:10	Coffee and Networking Break	ALL
Module 4	Cerebrovascular Diseases and Advanced Therapies	Moderator: Fernando Gonzalez
15:10–15:20	Stem Cells for Perinatal Stroke	Donna M Ferriero
15:20–15:30	Important Considerations for Mechanical Thrombectomy	Fernando Gonzalez
15:30–15:40	Vascular Brain Health: What do we know and how do we make it better?	Tatjana Rundek
Module 5	Implantable Technologies for Neuromodulation	Moderator: William Anderson
15:40–15:50	The evolution of neuromodulation for chronic stroke: From neuroplasticity mechanisms to brain–computer interfaces	Nathan Rowland Univ of South Carolina
15:50–16:00	Implantable brain computer interface: challenges to neurotechnology translation	Peter Konrad
16:00–16:10	A Novel Approach to Neuromodulation for Parkinson’s Disease	William Anderson
16:10–16:20	Q&A Session for Module 4 and 5	Moderators: Gonzalez/Anderson
16:20–16:30	Closing remarks Day 1	Chairs



Day Two, Sunday, December 8, 2024

TIME	AGENDA ITEM	FACULTY
07:00–08:00	Registration/ Continental breakfast	All
Module 6	Case Discussions	Moderators: Andres Rubiano, Cormac Maher
08:20–08:40	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 Gracioli, 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: Fernando Gonzalez, Michael McDermott 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	
10:20–11:00	Session I: Pterional Craniotomy Techniques (40 min)	Justin Caplan
11:00–11:40	Session II: Orbito-zygomatic Skull base Approach (40 min)	Michael Lim / Christopher Jackson
11:40–12:20	Session III: Cranioplasty Techniques and Implants (40 min)	Chad Gordon, Nati Ben-Shalom, Kerry-Ann Mitchell, Gabriel Santiago, Colleen Perez, Tamir Shay



TIME	AGENDA ITEM	FACULTY
12:20–12:40	Session IV: Cranial Device Implantation for Delivering Brain Medicine (20 min)–DEMO	Chad Gordon
12:40–13:20	Session V: Monitoring and Neuromodulation Techniques (40 min)	Joacir Gracioli, Andres Rubiano
13:20–13:30	Closing remarks and end of the event	Chairs



Global Neuro

Event venue



M.A.R.C. Institute

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Event organization

Global Neuro Foundation

Clavadelerstrasse 1

Davos, Switzerland 7270

Event organizer

Ximena Rodriguez

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Event information

Event fee

Attending physicians: \$350 USD

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

Saturday, December 9 only: \$200 USD

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

Registration

For onsite registration, please visit: [Global Neuro](#)

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 course will offer CME accreditation. Accreditor TBC.

Policy on Presenter and Provider Disclosure

It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflicts of interest. The Johns Hopkins School of Medicine OCME has established policies in place to identify and mitigate relevant conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the training.

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