New York Symposium
Innovation in Neurosciences (NYS-IN)

Featuring: NYS-IN Neuroendovascular Surgery Hands-On Simulation Course

Friday, June 14, 2024 / 8 a.m. – 5 p.m.
New York Academy of Medicine
1216 5th Ave, New York, NY 10029

Course Description

The New York Symposium Innovation in Neurosciences symposium is a dynamic day-long conference that exacvates into groundbreaking discoveries across various fronts of neurosciences. This engaging event encompasses a wide array of topics, ranging from innovative techniques in Neuroendovascular Surgery to the transformative advancements in neurology, neurosurgery and neuroimaging. Additionally, it explores the latest breakthroughs in neurotechnology and neuropharmacology. The symposium aims to shed light on cutting-edge innovations in ischemic stroke, cerebral hemorrhage, neurological emergencies, neuromuscular disorders, spine surgery, and neuro-oncology. Through lectures, interactive sessions, and debates led by experts in their respective fields, attendees will gain valuable insights into the forefront of neuroscience innovation.

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NEW YORK SYMPOSIUM: INNOVATION IN NEUROSCIENCES (NYS-IN) AGENDA		
7:30-7:50	**Registration and Breakfast**	**Location: First Floor Presidents Gallery**
7:50-8:05	**Welcome Address: Annual Meeting Chairs**	**Chirag Gandhi, MD Fawaz Al-Mufti, MD Stephan Mayer, MD**
8:05-09:10	**Innovation in Stroke I Moderators: Ji Chong, MD & Andrew Bauerschmidt, MD**	
8:10-8:20	**Code ICH: A Call to Action**	**Stephan Mayer, MD**
8:20-8:30	**Deciphering the Stroke Net Thrombectomy Endovascular Platform (STEP): Innovations in Stroke Trials**	**J Mocco, MD**
8:30-8:40	**Subdural Hematoma Management in the Era of MMA Embolization**	**Jared Knopman, MD**
8:40-9:00	**Debate: Minimally Invasive Intracranial Hematoma Evacuation for All Pro: Universal Application or Con: Selective Strategy in the Era of Precision Medicine**	**Christopher Kellner,MD vs Alexander Merkler,MD**
9:00-9:05	**Q & A Topic Discussion**	**Ji Chong, MD & Andrew Bauerschmidt, MD**
9:05-9:10	**Welcome Address: Chief Medical Officer of Westchester Medical Center & Dean of New York Medical College The WMC/NYMC Center for Research & Innovation**	**Fawaz Al-Mufti, MD Renee Garrick, MD Neil Schluger, MD**
9:10-9:40	**Keynote Address: Brain Computer Interface Plenary Session - Hosack Hall**	**Tom Oxley, MD**
9:40-10:40	**Innovation in Neuroendovascular Surgery Moderators: Justin Santarelli, MD; Dorothea Altschul, MD & Lisha Melathe, PA**	
9:45-9:55	**Silencing the Noise: Neuroendovascular Approaches to Tinnitus Management**	**Athos Patsalides, MD**
9:55-10:05	**Innovation in Management of Delayed Cerebral Ischemia in Subarachnoid Hemorrhage**	**Pankaja Ramakrishnan, MD**
10:05-10:15	**Endovascular Cerebrospinal Fluid Diversion: The Next Revolution in Hydrocephalus Treatment**	**Charles Matouk, MD**
10:15-10:35	***Debate*: Treatment Modalities for Wide Neck Aneurysms Pro: Reviving a Lost Art: Assisted Coil Embolization Con: Embracing Innovation: Flow Diversion and Intrasaccular Devices**	**Seon-Kyu Lee, MD, PhD vs Shahram Majidi, MD**
10:35- 10:40	**Q & A Topic Discussion**	**Dorothea Altschul, MD; Justin Santarelli, MD; Lisha Melathe, PA**
10:40-10:50	**Coffee Break**	**Location: Second Floor Congress Hall (Room 20)**

10:50-11:55	**Innovation in Stroke II** **Moderators: Chai Medicherla, MD & Sara K. Rostanski, MD**	
10:50-11:00	Dispelling Controversies in use of Direct oral anticoagulants (DOACs)	Hooman Kamel, MD
11:00-11:10	Going Long for Stroke: Tackling Medium Vessel Occlusions (MeVO) and Distal Vessel Occlusions (DiVO)	Bree Chancellor, MD
11:10-11:20	Flow Reversal and Proximal Cerebral Protection Device in Carotid Stenting	Priyank Khandelwal MD
11:20-11:30	Go Big or Go Home: Large Bore Catheters – The Right Size for Perfect Fit	Brian Jankowitz, MD
11:30-11:50	Debate: Large Core Ischemic Strokes: Treat at Will or Exercise Caution Pro: Treating with Confidence Con: Practicing Prudence	Joshua Z Willey, MD vs Grace Mandigo, MD
11:50- 11:55	Q & A Topic Discussion	Chai Medicherla, MD & Sara K. Rostanski, MD
11:55-12:55	**Innovation in Neuroimaging and Neuroendovascular Surgery II** **Moderators: Sundeep Mangala, MD & John Pile-Spellman, MD**	
12:00-12:10	Innovation in Flow Diversion Technology	Justin Santarelli, MD
12:10-12:20	Navigated Microscope Integration and Heads Up Display-Virtual and Augmented Reality in the Neurosurgical Workflow	Joshua Bederson, MD
12:20-12:30	Unmet Needs in Acute Ischemic Stroke: Overcoming Recalcitrant Clots	Srikanth Boddu, MD
12:30--12:40	Expanding the Frontiers of Neonatal and Pediatric Neurointerventions	Johanna Fifi, MD
12:40-12:50	Intravascular Optical Coherence Tomography: Evolution in Neuroendovascular Surgery	Matthew J Gounis PhD
12:50-12:55	Q & A Topic Discussion	Sundeep Mangala, MD John Pile-Spellman, MD
12:55-2:00	**Lunch Break: The Voices of Innovation**	**Location: Third Floor Periodical / Reading Room**
1:10-1:20	Glide Your Way Up a Tortuous ICA: Advanced Techniques with CereGlide 71 Aspiration Catheters	Gurmeen Kaur. MD
1:20-1:30	Transforming Neurovascular Programs with AI: The Evolving Landscape of Neuroendovascular Therapy	Lee Birnbaum, MD
1:30-1:40	Ultra-Early BP control in Acute Intracerebral Hemorrhage	Janelle Poyant, PharmD
1:40-1:50	Contouring the Shallow, Wide-Necked Aneurysm Dilemma: Advanced Techniques	David Altschul, MD
1:50-2:00	Revolutionizing Flow Diversion through Innovative Surface Modification- The FRED Xperience.	Oded Goren, MD

2:10-3:15	**Innovation in Neuroscience Critical Care and Brain Computer Interphase** **Moderator: Neha Dangayach, MD & David Langer, MD**	
2:10-2:20	Pioneering the Future of Healthcare: Electronic Intensive Care Unit (eICU)	Dipak Chandy, MD
2:20-2:30	Minimally Invasive Monitoring in the NCC: Stereotactic Bedside Procedures and Smart CSF Diversion Systems	Kiwon Lee, MD
2:30-2:40	Brain-computer interfaces and the future of neural engineering	Benjamin Rapoport, MD
2:40-2:50	Bioinformatics Artificial Intelligence and Machine Learning	Soojin Park, MD
2:50-3:10	Debate: Targeted Temperature Modulation Pro: It's About the Ice: Go for Deep Cooling Con: It's About the fire: Fever Control	Alex Reynolds, MD vs Jon Rosenberg, MD
3:10-3:15	Q & A Topic Discussion	Neha Dangayach, MD & Andrew Bauerschmidt, MD

3:00-5:00 PARALLEL SESSION	**NEUROENDOVASCULAR HANDS-ON SIMULATION COURSE AT THE NEW YORK ACADEMY OF MEDICINE - PRESIDENTS GALLERY Moderators: Gurmeen Kaur, MD, Fawaz Al-Mufti, MD & Chirag Gandhi, MD**	

3:15-4:00	**Innovation in Neurosciences & Neuromodulation: Rapid Fire Moderators: Katherine D. Amodeo, MD & Daniel Friedman, MD**	
3:15-3:25	Vagal nerve stimulation (VNS) and Responsive neurostimulation (RNS)	Carrie Muh, MD
3:25- 3:35	Updates in Neuromodulation (Pain Modulation & Functional Neurosurgery	Vishad Sukul, MD
3:35-3:45	Breaking New Ground: Exploring Novel Anti-Epileptic Medications & Modalities	Patricia McGoldrick, NP MPA, MSN, FAES
3:45-3:55	Seizing the Future: Artificial Intelligence-Enhanced Rapid Response Electroencephalography in Epilepsy	Manisha Holmes, MD
3:55-4:00	Q & A Topic Discussion	Katherine D. Amodeo, MD & Daniel Friedman, MD
4:00-4:15	**Coffee Break**	**Location: Second Floor Congress Hall (Room 20)**
4:15-5:10	**Innovation in Spine & Neuro-oncology Moderators: Jared Pisapia, MD & Rachana Tyagi, MD**	
4:15-4:25	Opening New Vistas: Connectomics Guidance and Intraoperative Neuromonitoring	Randy D'Amico, MD
4:25- 4:35	Fusing Innovation: Unlocking the Potential of AI in Minimally Invasive Spine Surgery	Merritt Kinon, MD
4:35-4:45	CAR-T Cells: Engineering Immune Cells in Neuro-oncology - A Roadmap	Synphen Wu, MD
4:45-4:55	Innovation in Neurooncological Surgery: From Brachytherapy, Gyroscopic SR to Tumor-derived immunotherapies	Simon Hanft, MD
4:55-5:05	From Napkin to Prototype: Embarking on a 1000-Mile Journey in Neurosciences Innovation	Joe Borello, PhD Jacob Wolf, BID
5:05-5:10	Q & A Topic Discussion	Jared Pisapia, MD & Rachana Tyagi, MD

3:00-5:00 PARALLEL SESSION	NEUROENDOVASCULAR HANDS-ON SIMULATION COURSE AT THE NEW YORK ACADEMY OF MEDICINE - PRESIDENTS GALLERY
	Moderators: Gurmeen Kaur, MD, Fawaz Al-Mufti, MD & Chirag Gandhi, MD

This simulation course offers an advanced learning opportunity tailored exclusively for fellows and senior residents embarking on their careers in neuroendovascular surgery. The focal point of this session is the individualized 1:1 mentoring provided by experienced professionals, guaranteeing recipients receive customized guidance, invaluable insights, and constructive feedback to optimize their learning trajectory and cultivate expertise in neuroendovascular interventions. Engage directly with renowned thought leaders in the field, acquiring practical wisdom and honing your skills to bolster your progression toward becoming a proficient practitioner in neuroendovascular surgery.

3:10-3:20	Nuts and Bolts of Neuroendovascular Surgery	Discussants: Gurmeen Kaur, MD & Fawaz Al-Mufti, MD
3:20-3:30	Procedural Complication Management	Discussants: Jared Cooper, MD & Chirag D. Gandhi, MD

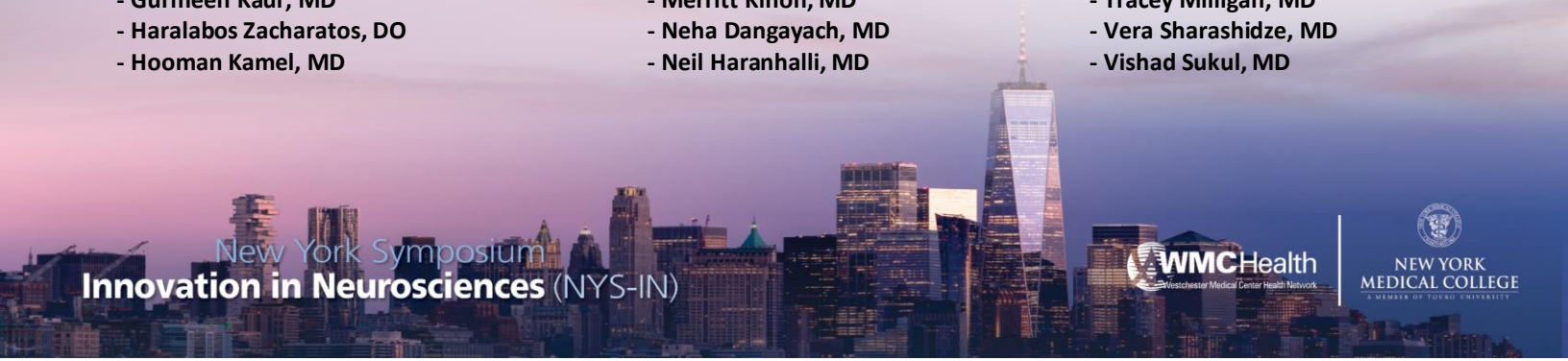
Faculty		Stations
David Altschul, MD	Flow Diversion Embolization	Pipeline / Medtronic
Oded Goren, MD	Intrasaccular Embolization	Woven Endovascular Bridge / Microvention
Haralabos Zacharatos, DO	Endovascular Thrombectomy	Cereglide- Embotrap / Cerenovus
Vera Sharashidze, MD	Stent Assisted Coiling	LVIS-EVO / MicroVention
Bree Chancellor, MD	Balloon Assisted Coil Embolization	Target Transform / Stryker
Sundeep Mangla, MD	Endovascular Thrombectomy	Solitaire X Stent Retrievers / Medtronic
Neil Haranhalli, MD	Flow Diversion Embolization	Surpass Evolve / Stryker
Pankaja Ramakrishnan, MD	Liquid Embolic Embolization	nBCA / Cerenovus
Gurmeen Kaur, MD	Carotid Artery Stenting	Medtronic
Fawaz Al-Mufti, MD		
Chirag Gandhi, MD		

NYS-IN Moderators & Organizing Committee:

NYS-IN Symposium Co-Chairs	**Fawaz Al-Mufti, MD; Stephan Mayer, MD; Chirag D. Gandhi, MD**
Section Chair Innovation in Hemorrhagic Stroke I	Ji Chong, MD & Andrew Bauerschmidt, MD
Section Chair Innovation in Neuroendovascular Surgery I	Justin Santarelli, MD; Dorothea Altschul, MD; Lisha Melathe, PA
Section Chair Innovation in Ischemic Stroke I	Chai Medicherla, MD & Sara K. Rostanski, MD
Section Chair Innovation in Neuroimaging & Neuroendovascular Surgery II	Sundeep Mangla, MD & John Pile-Spellman, MD
Section Chair Innovation in NCC and BCI	Neha Dangayach, MD & David Langer, MD
Section Chair Innovation in Neurosciences & Neuromodulation	Katherine D. Amodeo, MD & Daniel Friedman, MD
Section Chair Innovation in Spine & Neuro-oncology	Jared Pisapia, MD & Rachana Tyagi, MD
Neuroendovascular Fellows Course Director	Gurmeen Kaur, MD & Fawaz Al-Mufti, MD
Directors of Logistics and Organizational Development	Lynda George,MHA, WMC Brain and Spine Institute Lisha Melathe,PA, WMC Brain and Spine Institute Peter Jones,MBA, WMC Brain and Spine Institute Sahar Malek,MHA, WMC Brain and Spine Institute Sydney Ericson,BS WMC Brain and Spine Institute Preeth Abraham,MBA, WMC Brain and Spine Institute Laura Debuys,BA, WMC Brain and Spine Institute Deborah Viola,MBA, PhD, WMC Research & Grants Administration Margaret Astrologo,MBA New York Medical College

NYS-IN Faculty

- Alex Merkler, MD
- Alex Reynolds, MD
- Andrew Bauerschmidt, MD
- Athos Patsalides, MD
- Benjamin Rapoport, MD
- Bree Chancellor, MD
- Brian Jankowitz, MD
- Chirag Gandhi, MD (Chair)
- Chaitanya Medicherla, MD
- Charles Matouk, MD
- Christopher Kellner, MD
- Daniel Friedman, MD
- David Altschul, MD
- David Langer, MD
- Dipak Chandy, MD
- Dorothea Altschul, MD
- Fawaz Al-Mufti, MD (Chair)
- Grace Mandigo, MD
- Gurmeen Kaur, MD
- Haralabos Zacharatos, DO
- Hooman Kamel, MD
- Jacob Wolf
- Jared Pisapia, MD
- Jared Knopman, MD
- J Mocco, MD
- Ji Chong, MD
- Janelle Poyant, PharmD
- Jan Rosenberg, MD
- Joe Borello, PhD
- John Pile-Spellman, MD
- Joshua B Bederson
- Joshua Z Willey, MD
- Justin Santarelli, MD
- Kiwon Lee, MD
- Katherine D. Amodeo, MD
- Lee Birnbaum, MD
- Lisha Melathe, PA
- Manisha Holmes, MD
- Matthew J Gounis, PhD
- Merritt Kinon, MD
- Neha Dangayach, MD
- Neil Haranhalli, MD
- Oded Goren, MD
- Patricia McGoldrick, NP
- Pankaja Ramakrishnan, MD
- Priyank Khandelwal, MD
- Randy D'Amico, MD
- Richard Zampolin, MD
- Sara K. Rostanski, MD
- Sandeep Mangala, MD
- Shahram Majidi, MD
- Simon Hanft, MD
- Soojin Park, MD
- Srikanth Boddu, MD
- Stephan Mayer, MD (Chair)
- Steve Wolf, MD
- Sudeep Mangala, MD
- Synphen Wu, MD
- Tom Oxley, MD
- Tomoko Kitago, MD
- Tracey Milligan, MD
- Vera Sharashidze, MD
- Vishad Sukul, MD



NEW YORK SYMPOSIUM – INNOVATION IN NEUROSCIENCES (NYS-IN) EXHIBITORS

PLATINUM

CERENOVUS

RAPIDAI

Chiesi

MicroVention TERUMO

stryker Neurovascular

Medtronic

GOLD

kaneka

Endophys
Measuring physiology where it happens.

SILVER

Penumbra

Q'apel

CereVasc

ImperativeCare

RAPIDMEDICAL

SPRYTE MEDICAL

IRRAflow

Sim&Cure
SECURE YOUR TREATMENT

AstraZeneca

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SK life science navigator
a subsidiary of SK biopharmaceuticals

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LEARN ABOUT OUR EXHIBITORS

PLATINUM

At CERENOVUS, we are focused on elevating stroke awareness and related policy issues to better triage, treat and serve patients around the globe. We: Partner with and support Get Ahead of Stroke to improve systems of care for stroke patients by driving legislative changes. Partner with MT2020+ to accelerate access to stroke thrombectomy surgery globally. Drive research and programs to increase awareness of and change inequities in stroke care for communities of color.

Our aim is to be recognized as a research-focused international Group, able to develop and commercialize innovative pharmaceutical solutions to improve the quality of human life. We wish to maintain a high-quality entrepreneurial team characterized by self-confidence and a collaborative spirit. Our goal is to combine commitment to results with integrity, operating in a socially and environmentally responsible manner.

The Medtronic Mission has motivated us to do the extraordinary for 60 years — and counting. We strive to contribute to human welfare by application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that alleviate pain, restore health, and extend life.

MicroVention is to be an industry leader in the creation and commercialization of innovative neuroendovascular technologies that provide a meaningful improvement in patient lives.

Our AI-based platform is designed for speed, scalability and security with flexibility and customization to meet each hospital's specific needs. It's the long-term solution you can rely on.

Stryker is a global leader in medical technologies and, together with our customers, we are driven to make healthcare better. We offer innovative products and services in MedSurg, Neurotechnology, Orthopedics and Spine that help improve patient and healthcare outcomes.

GOLD

Our mission is to help improve safety and outcomes in procedures when time-to-treatment and blood pressure management are critical.

Although our mission is to expand treatment options for neurovascular embolization, at our core, we focus on sustainability. That's why we've developed a simple portfolio of coils. Using memory-shape technology, Kaneka is able to offer a small, yet versatile, portfolio of coils that allows you to do more, with less.

KANEKA NEUROVASCULAR

SILVER

We are a global, science-led, patient-focused pharmaceutical company. We are dedicated to transforming the future of healthcare by unlocking the power of what science can do for people, society and the planet.

Cerevasc specializes n the minimally invasive treatment of hydrocephalus. They are developing the eShunt System for the treatment of communicating hydrocephalus.

Accelerating the development of life-changing technologies to bring more care to more patients suffering from stroke and other devastating vascular diseases.

A fundamental redesign of fluid management technology developed by leading neurosurgeons, the IRRAflow system demonstrates a significant technological step forward compared to other currently available treatment options. IRRAflow's transformational technology provides a controlled fluid exchange system that allows the neurosurgeon to actively manage intracranial pressure and CSF drainage.

In 2023, NeuraSignal proudly acquired the business of NovaSignal, yet our origin story traces back a decade earlier. Originally known as NovaSignal, our foundation was laid in 2013 with a single-minded mission: to facilitate greater access to crucial medical data, enabling physicians to profoundly enhance patient care.

"Transforming Patient Care through Innovative Therapies". Penumbra's mission is to help as many people as possible by innovating new technologies to address unmet medical needs.

In the simplest sense, we're a company that creates solutions. More specifically, we design novel access device technology for vascular interventions and unmet clinical needs. Because in the precious seconds that surround a stroke emergency, clinicians need technology that delivers. That's where we come in.

SILVER

Our mission is to develop safe and effective neurovascular medical devices that are beneficial to patients and meet physicians' needs. We are committed to advancing patient care by providing the most reliable, easiest to use and highest quality products supported by proven clinical data.

We develop solutions for life. In doing so, we have made it our mission to improve medical care worldwide with our products and services. We are relentless in our joint efforts to explore new avenues and achieve our goals.

The mission of Sim&Cure is to secure neurovascular treatment of brain aneurysms by improving the therapeutic strategy and the patient's care through using personalized solutions.

We are SK Life Science, a pharmaceutical company changing the future of CNS and oncology treatment. We believe there is more to life when you connect health with happiness.

Advancing cerebrovascular care through groundbreaking neuro intravascular imaging and AI technologies.

At UCB, we believe that everyone deserves to live the best life that they can. That's why – as a global biopharmaceutical leader - we're focused on creating valuable solutions that make improvements to the lives of people living with neurological and autoimmune conditions now and into the future.

BRONZE

Integra Promises to limit uncertainty by making everything you touch and do as simple as possible.

Phenox will provide innovative, disruptive technologies through continuous improvement for the treatment of neurovascular diseases by neurovascular interventionists that will improve and save patient's lives. We will be successful because we will always strive to do what is best for the patient.

VESALIO is dedicated to advancing the care of patients suffering from vascular occlusion by providing physicians superior technology designed to improve clinical outcomes.

Ceribell's mission is to make EEG diagnostics widely available, more efficient, and more cost-effective, to improve the detection and treatment of neurological conditions.