Save *the* Date

2nd Annual New York Symposium

Innovation in Neurosciences (NYS-IN)

Featuring: NYS-IN Neuroendovascular Surgery Hands-On Simulation Course, The Complex Spine Lab and Botox Workshop

Friday, June 6, 2025 / 8 a.m. – 5 p.m.
New York Academy of Medicine
1216 5th Ave, New York, NY 10029

Course Description

First things first—it's pronounced NYZIN! A nod to the cutting-edge nature of this event, where "NY" meets "Z" for a zinger of innovation in neuroscience. This isn't just another conference—it's the future of neuroscience, with style. AI is everywhere these days, and we get it—AI fatigue is real. But here at NYZIN, we're cutting through the noise and getting straight to the signal that matters: real-world breakthroughs that are reshaping neurological care. No hype, no fluff—just game-changing innovations that will leave you thinking, this is the future of healthcare. AI is revolutionizing stroke detection, seizure management, neurorehabilitation, and neuroimaging, making diagnoses faster and treatment smarter. In neurological surgery, AI-driven imaging, robotics, and surgical planning are bringing next-level accuracy to the OR, reducing risks and improving recovery. And in neurological emergencies, AI is a real-time decision-making powerhouse, providing faster insights and better outcomes in brain bleeds, trauma, and ICU monitoring. At NYZIN, you won't just hear about the future—you'll see it, engage with it, and take it back to your practice. Join us and be part of the revolution.

Credit Designation

AMA PRA Category 1 Credits™ will be offered through New York Medical College.

NYS-IN Co-Chairs

Fawaz Al-Mufti, MD
Chirag Gandhi, MD
Stephan Mayer, MD

WMCHealth
Westchester Medical Center Health Network

NEW YORK MEDICAL COLLEGE
A MEMBER OF TOURO UNIVERSITY

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NEW YORK SYMPOSIUM: INNOVATION IN NEUROSCIENCES (NYS-IN) AGENDA		
7:30	**Registration and Breakfast**	**Location: First Floor Presidents Gallery**
7:50	**Welcome Address NYS-IN: Annual Meeting Chairs**	
Topic: Neuroendovascular I		
8:00	**The Triple Threat: Balancing Medicine, Innovation, & Entrepreneurship**	
8:10	**Advent of Ambulatory Neuroendovascular Surgery Centers**	
8:20	**Transcontinental Tele-Robotic Mechanical Thrombectomy**	
8:30	**MMA Embolization for Migraine – The Trigeminal Trial**	
8:40	**Silencing the Noise: Neuroendovascular Approaches to Tinnitus Management**	
8:50	**Q & A Topic Discussion**	
Topic: Neuroendovascular II		
9:00	**Material Science of Flow Diversion: 3D Printing, Biodegradabilty to Surface Modification**	
9:10	**Lessons from the MeVO Trials: Failure and the Path to Future Success**	
9:20	**Introducing the WMC/NYMC Center for Research & Innovation**	**Renee Garrick, MD Neil Schluger, MD**
9:30	**Keynote Address Plenary Session: AI Implementation and Use in a Real-Life Health System**	**David Lubarsky, MD, MBA**
9:50	**Q & A Topic Discussion & Coffee Break**	**Location: First Floor Presidents Gallery**
Topic: Stroke and Neurocritical Care		
10:00	**Advanced Intervention for Refractory Vasospasm**	
10:10	**Minimally Invasive Monitoring in the NeuroICU**	
10:20	**Minimally Invasive Surgery for ICH: Complication Management**	
10:30	**Holo-Stroke: Assessing for Immersive Stroke Care Through Stroke Hologram Teleportation**	
10:40	**Neurocritical Care of the Future: Black Mirror Edition**	
10:50	**Q & A Topic Discussion & Coffee Break**	**Location: Second Floor Heritage Hall**

Topic: Traumatic Brain Injury (TBI)	
11:00	**Courage under fire: the hidden battle of TBI**
11:10	**Comprehensive Concussion Care: A Modern Approach**
11:20	**Inside the Impact: Unraveling the Pathophysiology of Concussion**
11:30	**Covert Consciousness: Insights into Coma, Consciousness, and Recovery**
11:40	**Critical Care Bioinformatics: Beyond Big Data**
11:50	**Q & A Topic Discussion**

Lunch Break: The Voices of Innovation		**Location: Second Floor Heritage Hall**
12:00	**Go Big or Go Home: Large Bore Catheters - The Right Size for Perfect Fit**	
Topic: Epilepsy and Pediatric Neurosciences		
1:00	**AI–Powered Rapid EEG: Transforming Seizure Detection and Diagnosis**	
1:10	**Epilepsy and Tumors: Navigating the Intersection of Oncology and Seizures**	
1:20	**Senovomate and Fenfluramine: Emerging Therapies for Refractory Epilepsy and LGS**	
1:30	**Laser Ablation in Epilepsy Surgery: A Minimally Invasive Approach to Seizure Control**	
1:40	**Thalamic RNS: Advanced Neuromodulation for LGS and Generalized Epilepsy**	
1:50	**Q & A Topic Discussion & Coffee Break**	**Location: First Floor Presidents Gallery**
Topic: Neuroimaging Innovations		
2:00	**AI–Powered Stroke Triage: Accelerating Transferred Decisions with NCCT Imaging**	
2:10	**Transforming Neurovascular Programs with AI: The Evolving Landscape of Neuroendovascular Therapy**	
2:20	**Portable MRI at Bedside – Is It Worth the Swoop?**	
2:30	**Imaging Connectomics in Clinical Neurosciences**	
2:40	**Imaging Brain Autoregulation: Ready for Prime Time?**	
2:50	**Q & A Topic Discussion**	

Topic: Innovation in Neurosciences		
3:00	**AI in Clinical Practice: The Doctor Will See You Now**	
3:10	**Brain–Computer Interfaces and The Future of Neural Engineering**	
3:20	**From Napkin to Prototype: Embarking on a 1000–Mile Journey in Neurosciences Innovation**	
3:30	**Innovation in Neuro-Oncologic Surgery: From Brachytherapy, Gyroscopic SR to Tumor–Derived Immunotherapies**	
3:40	**Innovations in Tumor Fluorescence Surgery**	
3:50	**Q & A Topic Discussion & Coffee Break**	**Location: Second Floor Heritage Hall**
Topic: Pain, Spine & Neuromodulation		
4:00	**Advancing Pain Management: Basivertebral Nerve Ablation and Emerging Interventional Technologies**	
4:10	**Deep Brain Stimulation for Depression and other Psychiatric Disorders**	
4:20	**Closed Loop Spinal Cord Stimulation: The Future of Personalized Neuromodulation**	
4:30	**Neuroendovascular Vagal Nerve Stimulation**	
4:40	**Transcranial Magnetic Stimulation (TMS) For Hyperacute Rehab: Expanding Non-Invasive Treatment Options**	
4:50	**Q & A Topic Discussion**	
4:55	**Closing Remarks**	

PARALLEL SESSIONS 3:00 PM		
NEUROENDOVASCULAR HANDS-ON SIMULATION COURSE **Location: Presidents Gallery**	**COMPLEX SPINE LAB** **Location: Presidents Gallery**	**BOTOX HANDS-ON SIMULATION WORKSHOP** **Location: Presidents Gallery**
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.**	**This intensive Spine Lab course is designed specifically for neurosurgery residents interested in spine surgery.** **Experience unparalleled hands-on training and 1:1 mentorship from leading spine surgeons.** **This immersive program provides personalized feedback and practical guidance, allowing you to refine your surgical techniques and develop critical decision-making skills in a supportive, state-of-the-art environment.** **Advance your expertise in complex spinal procedures and prepare for a successful career!**	**Master Botox injections with expert-led, hands-on training. This intensive workshop provides the skills and knowledge you need to confidently and safely administer Botox treatments for headache treatment. Learn facial anatomy, indications, injection techniques and best practices from specialized professionals.**