John M. Abrahams, M.D.

12 Sulgrave Road Scarsdale, NY 10583 (917) 567-9422 jma@nybrainspine.com

Date of Preparation: October 16, 2024

Personal Data:

Name: John M. Abrahams
Date of Birth: November 18, 1966
Birthplace: Glens Falls, NY

Citizenship: USA

Work Experience

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07/2023 - Present	New York Brain & Spine Surgery, P.C. Founder, President, Neurosurgery	White Plains, NY
08/2017 – 06/2023	Hudson Health, LLC Founder & President	White Plains, NY
06/2016 - 01/2023	Brain & Spine Surgeons of New York, P.C President, Neurosurgeon	White Plains, NY
08/2017 – 11/2019	Northwell Health Director, Neurosurgery, Westchester County	White Plains, NY
04/2013 – 04/2015	Westchester Medical Center Consultant, Westchester Medical Center Advanced Physician Services	Valhalla, NY
07/2004 – 06/2023	Brain & Spine Surgeons of New York, P.C. Neurosurgeon	White Plains, NY
07/2002 – 06/2004	Montefiore Medical Center Attending Neurosurgeon	Bronx, NY

Post-Doctoral Training

07/2001 – 06/2002 **Hospital of the University of Pennsylvania** Philadelphia, PA *Neurosurgery, Chief Resident*

07/2000 – 12/2000	Hospital of the University of Pennsylvania Spine Fellow	Philadelphia, PA
07/1999 – 06/2000	Institute for Medicine & Engineering, PENN Research Assistant	Philadelphia, PA
07/1996 – 06/2001	Hospital of the University of Pennsylvania Neurosurgery, Resident	Philadelphia, PA
07/1995 – 06/1996	New York University Medical Center Intern, General Surgery	New York, NY
Education		
08/1991 – 05/1995	New York Medical College MD, Medicine	Valhalla, NY
08/1989 – 05/1991	Rensselaer Polytechnic Institute MS, Biomedical Engineering	Troy, NY
08/1985 – 05/1989	Le Moyne College BS, Physics	Syracuse, NY
Specialty Certification	on	
01/2012	American Board of Neurological Surgeons Recertification	
12/2004	American Board of Neurological Surgeons Certification	
Licensure		
04/2002	New York	
11/2009	Connecticut	
Awards, Honors and Membership in Honorary Societies		
03/2001	Best Research Presentation, Pennsylvania Neu	rologic Society

09/2001	Galbraith Award for Research, Cerebrovascular Surgery Congress of Neurological Surgeons
11/2001	Best Abstract, 4th International Society of Neurosurgical Technology and Instrument Invention

Memberships in Professional and Scientific Societies

09/2002	Congress of Neurological Surgeons Member
09/2002	American Association of Neurological Surgeons Member
07/2003	AANS/CNS Cerebrovascular Section Member
03/2004	Medical Society of the State of New York Member
10/2004	New York State Neurosurgical Society Member
10/2024	Westchester Academy of Medical Science Director, Socioeconomic Committee
11/2024	Westchester County Association Member

Teaching Responsibilities

01/2013 – 09/2019	Northern Westchester Hospital Chief, Neurosurgery
04/2013 – 06/2016	Westchester Medical Center Directors, Brain Tumor Program
01/2012 - Present	Northern Westchester Hospital Co-Director, Spine Section, Orthopedic Spine Institute
05/2008 - Present	New York Medical College Associate Professor, Neurosurgery

Assistant Professor, Neurosurgery

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01/2010	Brain & Spine Research Institute
	Founder & President

Funding & Grants

11/2006	Medtronic Charitable Contributions Gap Junction Inhibitors for Spinal Cord Injury	\$50,000
09/2006	Spinal Motion Kineflex-C Cervical Disc Replacement Principal Investigator	-
06/2006	Integra Foundation Randomized Study Using Licox in Traumatic Brain Injury	\$100,000
01/2006	New York Medical College Intramural Grant Carbenoloxone-eluting stents for treatment of acute stroke	\$10,000
09/2003	Anspach Grant De Novo Neurogenesis and Gliogenesis in a Rat Model of Stroke	\$25,000
01/2003	Albert Einstein College of Medicine Starter Grant Induction Neurogenesis in a Rat MCA Model of Stroke	\$40,000

Lectures by Invitation

Apr 2, 1991	"Effects of Heat and Pressure on Surface Light Reflectance at 660 and 880nm" - 3rd Annual Northeast Bioengineering Conference, Hartford, CT.
Aug 26, 1999	"Biologically Active Devices in Endovascular Neurosurgery" - Neurosurgery Grand Rounds, The Hospital of the University of Pennsylvania, PA.
Feb 10, 2001	"Delivery of human vascular endothelial growth factor with platinum coils enhances wall thickening and coil impregnation in a rat aneurysm model" - Fourth AANS/ Cerebrovascular Section Meeting, Hawaii.
Mar 7, 2001	"Surface Modifications of Platinum Microcoils for Localized Adenovirus Delivery under conditions of Arterial Stasis and Pressurization" - Philadelphia Neurologic Society, Philadelphia.

Oct 1, 2001	"Surface Modifications of Platinum and Biodegradable Microcoils for Localized Adenovirus Delivery In Vitro and In Vivo using a Rat Aneurysm Model. – Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California.
Oct 1, 2001	"Biodegradable Polyglycolide Endovascular Coils Promote Wall Thickening and Drug Delivery in a Rat Aneurysm Model" – Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California.
Dec 7, 2001	"Surface Modifications of Platinum and Biodegradable Microcoils for Localized Adenovirus Delivery In Vitro and In Vivo using a Rat Aneurysm Model." The Thirteenth Pan-Philadelphia Neurosurgery Conference, Philadelphia, Pennsylvania.
Sep 18, 2002	"Endovascular Research in Neurosurgery" Department of Biomedical Engineering, City College of New York, New York, New York.
Nov 13, 2002	"Cerebrovascular Disease in Neurosurgery", Albert Einstein College of Medicine, Bronx, New York.
Dec 3, 2002	"Evaluation of Subarachnoid Hemorrhage in the Emergency Room", Department of Emergency Medicine Grand Rounds, Montefiore Medical Center, Bronx, New York.
Feb 18, 2003	"Subarachnoid Hemorrhage on CT Scanning Predicts Development of Cerebral Vasospasm: The Fisher Grade Revisited" - Sixth AANS/ Cerebrovascular Section Meeting, Phoenix, Arizona.
Mar 10, 2003	"De Novo Neurogenesis and Acute Stroke: Are Exogenous Stem Cells Really Necessary?", Department of Ophthalmology Grand Rounds, Albert Einstein College of Medicine, Montefiore Medical Center, Bronx, NY.
Dec 8, 2003	"Medical Management of Cerebral Vasospasm", Department of Critical Care Grand Rounds, Albert Einstein College of Medicine, Montefiore Medical Center, Bronx, NY.
Mar 11, 2004	"Cervical and Lumbar Spondylosis", Department of Medicine Grand Rounds, Bronx-Lebanon Medical Center, Bronx, NY.
Sep 22, 2005	"Subarachnoid Hemorrhage", Department of Neurosurgery Grand Rounds, New York Medical College, Valhalla, NY.
Mar 3, 2006	"Spinal Cord Syndromes", First Year Medical Students, New York Medical College, Valhalla, NY.
Mar 17, 2006	"Entrepreneurship in Neurosurgery", Department of Neurosurgery Grand Rounds, New York Medical College, Valhalla, NY.
Mar 29, 2006	"Entrepreneurship in the Neurosciences", Department of Neurology Grand Rounds, New York Medical College, Valhalla, NY.
April 4, 2007	"Entrepreneurship in Neurosurgery", Department of Neurosurgery Grand Rounds, University of Pennsylvania, Philadelphia, Pennsylvania.
Feb 13, 2008	"Cerebral Oxygenation in Traumatic Brain Injury", Department of Neurology Grand Rounds, New York Medical College, Valhalla, NY.

Mar 13, 2008	"Managing the Head Injured Patient", Critical Care Nursing Symposium, Department of Surgery; Division of Trauma, New York Medical College, Valhalla, NY.
October 2008	"Entrepreneurship in Neurosurgery", 56th Congress of Neurological Surgeons, Orlando, FL.
October 2009	"Entrepreneurship in Neurosurgery", 57th Congress of Neurological Surgeons, San Diego, CA.
October 2010	"Entrepreneurship in Neurosurgery", 58th Congress of Neurological Surgeons, San Francisco, CA.
October 2012	"Innovation in Neurosurgery", 60th Congress of Neurological Surgeons, Chicago, IL.

Bibliography

- 1. Abrahams JM. Effects of heat and exercise on light reflectance within biological tissue using red and infrared light. Master's Thesis, August 1991.
- 2. Sakuma J, Ciporen J, Abrahams J, Young W. Independent depressive mechanisms of GABA and (+/-)-8-hydroxy-dipropylaminotetralin hydrobromide on young rat spinal axons. Neuroscience 75(3):927-38, 1996.
- 3. Saruhashi Y, Young W, Sugiomori M, Abrahams J, Sakuma J. Evidence for serotonin sensitivity of adult rat spinal axons: studies using randomized double pulse stimulation. Neuroscience 80(2):559-66, 1997.
- 4. Abrahams JM, Forman MS, Lavi E, Goldberg HI, Flamm ES. Hemangiopericytoma of the Third Ventricle: Case Report. J Neurosurg 90(2):359-362, 1999.
- 5. Abrahams JM, Hurst RW, Zager EL. Anterior choroidal arterial supply to the posterior cerebral artery distribution: Embryology and clinical implications. Neurosurgery 44(6):1308-1314; 1999.
- 6. Abrahams JM, Flamm ES. Hemangiopericytoma of the Third Ventricle: Case Report. Comment. J Neurosurg 91:167, 1999.
- 7. Abrahams JM, Duhaime AC, Rorke LB, Sutton LN, Schut L. Extrarenal nephroblastic proliferation in spinal dysraphism. Pediatr Neurosurg 31:40-44, 1999.
- 8. Saruhashi Y, Young W, Sugiomori M, Abrahams JM, Sakuma J. GABA increases refractoriness of adult rat dorsal column axons. Neuroscience 94(4):1207-1212. 1999.
- 9. Abrahams JM, Diamond SL, Hurst RW, Zager EL, Grady MS. Topic Review: Surface Modifications of Guglielmi Detachable Coils. Surg Neurol 54(1):34-51, 2000.
- 10. Abrahams JM, Arle JE, Hurst RW, Flamm ES. Extracranial Aneurysms of the Posterior Inferior Cerebellar Artery. Cerebrovasc Dis. 2000 Nov-Dec;10(6):466-70.
- 11. Abrahams JM, Forman MS, Grady MS, Diamond SL. Delivery of human vascular endothelial growth factor with platinum coils enhances wall thickening and coil impregnation in a rat aneurysm model. AJNR Amer J Neuroradiol 22(7):1410-7, 2001.
- 12. Abrahams JM, Putt M, Kaiser LB, Judy KJ. Risk factors affecting survival after brain metastases from non-small cell lung carcinoma: a follow-up study of 70 patients. J Neurosurg 95(4):595-600, 2001.
- 13. Abrahams JM, Forman MS, Grady MS, Diamond SL. Biodegradable Polyglycolide Endovascular Coils Promote Wall Thickening, Drug Delivery, and Gene Transfer in a Rat Aneurysm Model. Neurosurgery 49(5):1187-95, 2001.

- 14. Simon SL, Abrahams, JM, Grady MS, LeRoux PD, Rushton SA. Intramedullary Injection of Contrast into the Cervical Spinal Cord during Cervical Myelography: A Case Report. Spine 27:E274-7, 2002.
- Abrahams JM, Song C, Forman MS, Grady MS, Levy RJ, Diamond SL. Endovascular microcoil gene delivery using immobilized anti-adenovirus antibody for vector tethering. Stroke 33:1376-82, 2002.
- Abrahams JM, Saha PK, Hurst RW, Udupa JK, LeRoux, PD. Bone-Free Renditions of the Cerebrovasculature Using Three-Dimensional Computed Tomographic Angiography Using Fuzzy Connectedness. Neurosurgery 51:264-269, 2002.
- 17. Abrahams JM, Reiter GT, Acker MA, Sinson GP. Propofol (Letter). J Neurosurg 96:1160-1, 2002.
- 18. Abrahams JM, McGarvey M, Putt M, Baranov D, Sinson GP. Assessment of Coagulability in Neurosurgical Patients Using Thromboelastography. Surg Neurol 58:5-12, 2002.
- Arle JA, Abrahams JM, Zager EL, Taylor C, Galetta S. Pupil-Sparing Third Nerve Palsy with Preoperative Improvement from a Posterior Communicating Artery Aneurysm. Surg Neurol 57:423-7, 2002.
- 20. Abrahams JM, Sinson GP, Bagley LJ, Flamm ES, Hurst RW. Anterior Fossa Dural Arteriovenous Malformations: Clinical Presentation and Management Considerations. Surg Neurol 58:410-6, 2002.
- 21. Abrahams JM, Gokhan S, Flamm ES, Mehler MF. Topic Review: De Novo Neurogenesis and Acute Stroke: Are Exogenous Stem Cells Really Necessary? Neurosurgery 54:150-6.
- 22. Ances BM, McGarvey ML, Abrahams JM, Maldjian JA, Alsop DC, Zager EL, Detre JA: Continuous Arterial Spin Labeled Perfusion Magnetic Resonance Imaging in Patients Before and After Carotid Endarterectomy. J Neuroimaging 14:133-8, 2004.
- 23. Smith ML, Abrahams JM, Chandela S, Smith MJ, Hurst RW, Le Roux PD. Subarachnoid Hemorrhage on Computed Tomography Scanning, and the Development of Cerebral Vasospasm: The Fisher Grade Revisited 20 Years Later. Surg Neurol 63, 229-34, 2005.
- 24. Stiefel MF, Heuer GG, Abrahams JM, Bloom S, Smith MJ, Maloney-Wilensky E, Grady MS, LeRoux PD. The effect of nimodipine on cerebral oxygenation in patients with poorgrade subarachnoid hemorrhage. J Neurosurg 101:594-9, 2004.
- 25. Pan H, Zimmerman T, Abrahams JM, Jiang HL, Chen W. A bioactive hydrogel for tissue filling of aneurysm. J Neurosurg 112(3):658-65, 2010.
- 26. Omeis I, Chen W, Jhanwar-Uniyal M, Rozental R, Murali R, Abrahams JM: Local Delivery of Cromakalim Using a Biodegradable Controlled-Release System Prevents Cerebral Vasospasm in a Rat Subarachnoid Hemorrhage Model. J Neurosurg 110(5):1015-20, 2009.
- 27. Omeis I, Neil JA, Murali R, Abrahams JM: Treatment of Cerebral Vasospasm with Controlled-Release Systems for Intracranial Drug Delivery: Topic Review. Neurosurgery 63(6):1011-9, 2008.
- 28. Omeis I, Duggal N, Rubano J, Cerabona F, Abrahams JM, Fink M, Das K: Surgical Treatment of C2 Fractures in the Elderly: A Multicenter Retrospective Analysis. J of Spinal Disord. J Spinal Disord Tech 22(2):91-5, 2009.
- 29. Pan H, Zimmerman T, Zakhaleva J, Abrahams JM, Jiang H, Chen W. Embolization of a Common Carotid Aneurysm with rhVEGF coupled to a pH-Responsive Chitosan in a Rat Model. J Neurosurg, 112(3)658-65, 2010.
- 30. Ormond DR, Omeis I, Abrahams JM: Uncommon Presentation of an Intradiploic Orbital Epidermoid Tumor: Case Report. Oral Maxillofac Surg 15(3):165-7, 2011.
- 31. Yu Y, Santos LM, Mattiace LA, Costa ML, Ferreira LC, Benabou K, Kim AH, Abrahams J, Bennett MV, Rozental R: Reentrant Spiral Waves of Spreading Depression Cause Macular Degeneration in Hypoglycemic Chicken Retina. PNAS USA 109(7):2585-9, 2012.

- 32. Berlin CD, Seshan TV, Abrahams JM, Kornel EE. Intraoperative Herniation of an L5-S1 Disc During Microdiskectomy and Transforaminal Lumbar Interbody Fusion: A Case Report. J Med Case Rep, 473:3811-9, 2015.
- 33. Bloch O, Lim M, Sughrue ME, Komotar RJ, Abrahams JM, O'Rourke DM, D'Ambrosio A, Bruce JN, Parsa AT. Autologous Heat Shock Protein Peptide Vaccination for Newly Diagnosed Glioblastoma: Impact of Peripheral PD-L1 Expression on Response to Therapy. Clin Cancer Res. 2017 Jul 15;23(14):3575-3584.
- 34. Elsabeh R, Stegall R, Abrahams J. Increased Spinal Lumbar Fusion with Combined Magnetic Field (CMF) Bone Growth Stimulation. J Ortho Surg Tech 3(1):84 91, 2020.
- 35. Elsabeh R, Singh S, Shasho J, Saltzman Y, Abrahams JM. Cranial Neurosurgical Robotics. Br J Neurosurgery. 2021 35(5):532-540.
- 36. Abrahams JM. The Future of Private Practice Neurosurgery. J Neurosurg 2023 17:1-6.
- 37. Elsabeh RE, Abrahams JM. Best Practices in Cervical and Lumbar Fusion. J Spine Surg 2024 10(3):514-520.
- 38. Elsabeh RE, Abrahams JC, Krosser BI, Abrahams JM. Single Neurosurgeon Experience with the ZimVie LDR-C ROI Implant: A Study of 236 Patients with Predictive Outcome Modeling. J Spine Res Surg 2024 6(2):36 40.
- 39. Abrahams JM. The Basics of Artificial Intelligence in Healthcare and Neurosurgery. World Neurosurg 2024, 193: 171 175.

Abstracts

- 1. Abrahams JM, Bhattacharyya SK, Ostrander LE, Cui W. Effects of heat and pressure on surface light reflectance at 660 and 880 nm, Symposium of 3rd Annual Northeast Bioengineering Conference Abstract, April 2-3, 1991.
- 2. Sakuma J, Ciporen J, Saruhashi Y, Abrahams J, Young W. Independent depressive mechanisms of GABA and 5-HT1A on rat spinal axons. Society for Neuroscience Abstract, May 1995.
- 3. Sakuma J, Saruhashi Y, Abrahams J, Young W. Role of receptors on rat spinal axons. Third International Neuroscience Symposium Abstract, July 1995.
- Abrahams JM, Hurst RW, Zager EL. Novel three-dimensional image reconstruction for computed tomographic angiography. Congress of Neurological Surgeons Abstract, Boston, MA, October 1999.
- 5. Abrahams JM, Chalela JA, Maldjian JA, Alsop DC, Zager EL, Detre JA. Noninvasive MRI evaluation of cerebral blood flow in patients before and after carotid endarterectomy. Congress of Neurological Surgeons Abstract, Boston, MA, October 1999.
- 6. Treatment of non-small cell lung carcinoma brain metastasis: The experience at the Hospital of the University of Pennsylvania. Congress of Neurological Surgeons Abstract, San Antonio, TX, September 2000.
- 7. Topic Review: Surface modifications enhancing biological activity of Guglielmi detachable coils in treating intracranial aneurysms. Congress of Neurological Surgeons Abstract, San Antonio, TX, September 2000.
- 8. Abrahams JM, Song C, Forman MS, Grady MS, Levy RJ, Diamond SL. Biodegradable Polyglycolide Endovascular Coils Promote Wall Thickening, Drug Delivery, and Gene Transfer in a Rat Aneurysm Model of Arterial Hemostasis and Pressurization. Medtronic Neurosurgery + Science + Management Meeting Abstract, New Orleans, LA, October 2000.
- Saha PK, Abrahams JM, Udupa JK. Bone-free renditions of cerebral aneurysms via 3D computed tomographic angiography. 86th Radiology Society of North America, November 2000.

- 10. Saha PK, Udupa JK, Abrahams JM. Automatic bone-free rendering of cerebral aneurysms via 3D-CTA. SPIE: Medical Imaging, December 2000.
- 11. Abrahams JM, Song C, Forman MS, Grady MS, Levy RJ, Diamond SL. Biodegradable Polyglycolide Endovascular Coils Promote Wall Thickening & Drug Delivery in a Rat Aneurysm Model. Neurosurgery 49(2):507, August 2001.
- 12. Abrahams M. MD;, Song, C, Grady MS, Diamond SL, Levy RJ. Surface Modifications of Platinum and Biodegradable Microcoils for Localized Adenovirus Delivery in Vitro and in Vivo Using a Rat Aneurysm Model. Neurosurgery 49(2):506, August 2001.
- 13. Abrahams JM, Khurana D, Lenart CJ, Gokhan S, Mehler MF. Temporal Variation of Induction Neurogenesis in a Rat Model of Transient Middle Cerebral Artery Occlusion. Neurosurgery 55(2):452-453, August 2004.
- 14. Bloch O, Raizer JJ, Lim M, Sughrue M, Komotar R, Abrahams J, O'Rourke O, D'Ambrosio A, Bruce JN, Parsa A. Increased Survival For Newly Diagnosed Glioblastoma Patients Treated With An Autologous Heat Shock Protein Peptide Vaccine: PD-L1 Expression Modulates Response To Therapy. American Society of Clinical Oncology. May 2015.
- 15. Abrahams JM, Elsabeh R. Utilization of a Bone Dust Collector in Anterior Cervical Fusion and Posterior Lumbar Interbody Fusion. Amer Assoc Neurol Surg, Aug 2021.
- 16. Abrahams JM, Elsabeh R. Does the application of a Hemostatic Bone Putty consisting of Hydroxyapatite and β-Tricalcium Phosphate hinder bony fusion in Anterior Cervical Discectomy and Fusion? Amer Assoc Neurol Surg, Aug 2021.
- 17. Abrahams JM, Elsabeh R. Utilization of an Automated SMS-based electronic Patient Reported Outcome Tool in Spinal Surgery Patients. Amer Assoc Neurol Surg, Aug 2021.
- 18. Abrahams JM, Elsabeh R. Utility of Intraoperative Neuromonitoring Alerts Relating to Adverse Outcomes in Spine Surgery: A Study of 289 Patients. Amer Assoc Neurol Surg, Aug 2021.

Editorials, Reviews, Chapters (Print or Other Media)

- 1. Abrahams J.M., LeRoux, P.D., Experimental Models of Subarachnoid Hemorrhage, in Management of Cerebral Aneurysms, LeRoux PD & Winn HR (Eds.), W.B. Saunders, Philadelphia, 2003.
- 2. Abrahams J.M., Diamond S.L., Endovascular Biologic Endovascular Management, in Management of Cerebral Aneurysms, LeRoux PD & Winn HR (Eds.), W.B. Saunders, Philadelphia, 2003.
- 3. Ad Hoc Reviewer, Neurosurgery, December 2023.
- Ad Hoc Reviewer, Neurosurgery, January 2024.
- 5. Ad Hoc Reviewer, World Neurosurgery, February 2024.
- Ad Hoc Reviewer, World Neurosurgery, February 2024
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- 8. Ad Hoc Reviewer, World Neurosurgery, WNS-23-4732, March 2024
- 9. Ad Hoc Reviewer, World Neurosurgery, WNS-24-402, April 2024
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- 23. Ad Hoc Reviewer, Neurosurgery, NEU-D-24-00714, June 2024
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- 30. Ad Hoc Reviewer, World Neurosurgery, NEU-D-24-3333, July 2024
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- 39. Ad Hoc Reviewer, World Neurosurgery, NEU-D-24-5093, October 2024
- 40. Ad Hoc Reviewer, Neurosurgery, NEU-D-24-00895 R1, July 2024
- 41. Ad Hoc Reviewer, World Neurosurgery, NEU-D-24-5762, September 2024
- 42. Ad Hoc Reviewer, World Neurosurgery, NEU-D-24-5446, September 2024

Editorial Board, ASM Journal, Sept 2024 - Aug 2026

Business Experience

- 2024 MIT Artificial Intelligence in Healthcare: Fundamentals & Applications 12 Week Course; 4 Continuous Education Credits
- 2023 Founded New York Brain & Spine Surgery, P.C. (www.nybrainspine.com)
- Founded DTX Medical (www.dtxmed.com) as an outcome and remote telemetric monitoring (RTM) service line to integrate into orthopedic surgery, neurosurgery, physiatry and physical therapy practices. Two full-time employees with revenue expected March/April 2023. Acquired by Memora Health in 2024.
- Founded the Center for Cognitive Health (www.cognitive-centers.com) for the treatment of all cognitive disorders and concussion. The program has been adopted for a complete virtual care experience including at-home therapy.
- 2017 Founded Hudson Health LLC (www.hudsonhealth.com) as a management company to manage BSSNY and grew to 100 employees with a full-service line include Revenue Cycle Management, Information Technology, Compliance, Marketing, Research and Development.

- 2016 Merged three surgical groups into Brain & Spine Surgeons of New York (www.bssny.com) increasing revenue from \$21 M to \$45 M integrating 100 employees and extending the clinical program to 9 offices across the Hudson Valley. Acting President of the practice managing all day-to-day operations. Developed full-time research department with abstract and manuscript submission to multiple national meetings and peer-reviewed journals.
- Founded Osteomedix, Inc. to develop a novel Bone Collecting Device approved by the FDA and used in spine surgery. Merged into Capseus Medical, Inc. (www.capseus.com) with salesforce and growing sales figures.
- 2015 Robotics Research Project. Self-funded program to develop a Neurosurgical Robot through Master/Slave interaction. Partnered with Honeybee Robotics (Brooklyn, NY) and developed a Smart Retractor System. Patent granted in 2024.

Patents

- 4101110	
2024/0148457 A1 9,414,866	Smart Robot-Assisted Brain & Spine Surgical System Spinal implant apparatuses and methods of implanting and using
9,731,044	Biopolymer system for tissue sealing.
9,259,434	Biopolymer system for tissue sealing.
8,679,088	Cranial evacuation system and use thereof.
8,636,744	Spinal implant apparatuses and methods of implanting and using
8,591,856	Single Crystal Diamond Electrochemical Electrode
8,513,217	Biopolymer system for tissue sealing.
9,387,029	Spring Screw Apparatuses and Methods Using the Same
7,854,923 B2	Biopolymer system for tissue sealing.
7,829,377 B2	Diamond Medical Devices
2,808,235	Systeme De Biopolymeres Pour Reparer De Tissus (Canada).
2,858,696	Systeme De Biopolymeres Pour Reparer De Tissus (Canada).
2,686,132	Systeme De Biopolymeres Pour Reparer De Tissus (Canada).
2,013,237 B1	Biopolymer System for Tissue Sealing (Europe).
WO2007149130A1	Composition and Method for Vascularization
WO2009017753A2	Chitosan-Based Bioploymer System for Treating Degenerative Disc Disease
WO2006076354A3	Diamond Medical Devices

Pending Patents

15/206,698 Spring and Screw Apparatus and Methods of Using the Same 15/328,671 Anatomical Specimen Collection Device & System