

CURRICULUM VITAE

KONSTANTINA SVOKOS DO, MS

EDUCATION

Undergraduate University at Albany, State University of New York
Bachelor's Degree in Science Biology, 5/2002

Medical School New York College of Osteopathic Medicine of the NY Institute of Technology
Doctor of Osteopathy 5/2010

Master's Degree NY Institute of Technology, Master's in Neuromuscular Sciences
5/2010

POST GRADUATE TRAINING

Residency Philadelphia College of Osteopathic Medicine,
4190 City Ave, Philadelphia, PA 19130, Neurological Surgery, 7/2010-6/2016

Fellowship University of Colorado, Children's Hospital Colorado
13123 E 16th Ave, Aurora, CO 80045
Pediatric Neurosurgery 7/2016-6/2017

Fellowship Warren Alpert Medical School of Brown University
Rhode Island Hospital
Complex Spine Surgery 7/2019 -2/2020

ACADEMIC APPOINTMENTS

Brown University Assistant Professor of Neurosurgery and Pediatrics,
9/2017 to present

Rhode Island Hospital Pediatric Neurosurgeon 9/2017 to present
Director of Fetal Neurosurgery, 2018 to present

New York College of Osteopathic Medicine Pre-Doctoral Academic Medicine Fellow, Neuroscience
1/2008 -12/2008

University at Albany, SUNY Graduate Teaching Assistant, Biology, 8/2002-5/2003

HOSPITAL APPOINTMENTS

Rhode Island Hospital	General Neurosurgeon 9/2017 to present
Hasbro Children's Hospital	Pediatric Neurosurgeon 9/2017 Clinical focus: oncology, epilepsy, fetal myelomeningocele repair (1 st case in New England: 5/2018)
Women and Infant's Hospital	Medical Staff Neurosurgeon 11/2020 to present

PROFESSIONAL LICENCES AND BOARD CERTIFICATION

Pennsylvania Medical Training License 7/2010-6/2017 License # PA OT 013354

Colorado Medical Training License 7/2016-8/2019 License # TL 0005911

Rhode Island Full Medical License 6/2017-6/2020 License # DO 00879

University of Pittsburgh Center for Image Guided Neurosurgery 5/2018 Gamma Knife Certification.
Perfection Training

American Board of Osteopathic Surgeons Neurosurgery Board 12/19/2018

HOSPITAL COMMITTEES

Hasbro's Children's Hospital	Neurosurgery Liaison for Pediatric Trauma Committee- Performance Improvement Patient Safety 9/2017
	Neurocritical Care Liaison for the Pediatric ICU- Neurosurgery Multidisciplinary Conferences

MEMBERSHIP IN SOCIETIES

New England Neurosurgical Society
American Association of Neurological Surgeons
American Osteopathic Association
American College of Osteopathic Surgeons
Rhode Island Brain and Spine Tumor Foundation

PUBLICATION LIST

ORIGINAL PUBLICATIONS IN PEER REVIEWED JOURNALS

1. A role for spinal, but not supraspinal, alpha (2) adrenergic receptors in the actions of impropgan, a powerful, non-opioid analgesic. Svokos K, Nalwalk JW, Leurs R, Menge WM, Timmerman H, Hough LB. *Brain Res.* 2001 Dec 27;923(1-2):12-9 PMID:11743967
2. Pain-relieving drugs and the brain histaminergic system: multiple analgesic mechanisms from histamine, impropgan and cimetidine. Hough LB, Nalwalk JW, Svokos K, Leurs R, Timmermann H. *Inflamm Res.* 2004 Mar;53 Suppl 1:S43-4. Epub 2004 Mar 5 PMID:15054611
3. Activation of brain stem nuclei by impropgan, a non-opioid analgesic. Nalwalk JW, Svokos K, Taraschenko O, Leurs R, Timmerman H, Hough LB. *Brain Res.* 2004 Sep 24;1021(2):248-55 PMID:15342273
4. Absence of 5-HT₃ and cholinergic mechanisms in impropgan antinociception. Nalwalk JW, Svokos K, Leurs R, Hough LB. *Pharmacol Biochem Behav.* 2005 Mar;80(3):505-10 PMID:15740793
5. Antinociceptive, brain-penetrating derivatives related to impropgan, a non-opioid analgesic. Hough LB, Nalwalk JW, Lu Q, Shan Z, Svokos K, Wentland MP, Montero MJ. *Eur J Pharmacol.* 2005 Oct 17;522(1-3):38-46. Epub 2005 Oct 10 PMID:16216240
6. Antinociceptive activity of chemical congeners of impropgan: optimization of side chain length leads to the discovery of a new, potent, non-opioid analgesic. Hough LB, de Esch IJ, Janssen E, Phillips J, Svokos K, Kern B, Trachler J, Abood ME, Leurs R, Nalwalk JW. *Neuropharmacology.* 2006 Sep;51(3):447-56. Epub 2006 Jun 23 PMID: 16806300
7. Cannabinoid-impropgan cross-tolerance: Impropgan is a cannabinomimetic analgesic lacking affinity at the cannabinoid CB₁ receptor. Nalwalk JW, Svokos K, Hough LB. *Eur J Pharmacol.* 2006 Nov 7;549(1-3):79-83. Epub 2006 Aug 26 PMID:16989809
8. Non-opioid antinociception produced by brain stem injections of impropgan: significance of local, but not cross-regional, cannabinoid mechanisms. Hough LB, Svokos K, Nalwalk JW. *Brain Res.* 2009 Jan 9;1247:62-70. doi: 10.1016/j.brainres.2008.10.008. Epub 2008 Oct 21 PMID:18983834
9. Tactile/proprioceptive integration during arm localization is intact in individuals with Parkinson's disease. Rabin E, Muratori L, Svokos K, Gordon A. *Neurosci Lett.* 2010 Feb 5;470(1):38-42. doi: 10.1016/j.neulet.2009.12.051. Epub 2009 Dec 30 PMID: 20036715
10. Molecular biology of brain metastasis. Svokos KA, Salhia B, Toms SA. *Int J Mol Sci.* 2014 May 28;15(6):9519-30. doi: 10.3390/ijms15069519. Review PMID:24879524
11. Roux-En-Y Gastric Bypass versus Sleeve Gastrectomy as Revisional Procedure after Adjustable Gastric Band: a Systematic Review and Meta-Analysis. Magouliotis DE, Tasiopoulou VS, Svokos

AA, Svokos KA, Sioka E, Zacharoulis D. *Obes Surg.* 2017 May;27(5):1365-1373. doi: 10.1007/s11695-017-2644-3. Review. PMID:28303508

12. One-Anastomosis Gastric Bypass Versus Sleeve Gastrectomy for Morbid Obesity: a Systematic Review and Meta-analysis. Magouliotis DE, Tasiopoulou VS, Svokos AA, Svokos KA, Sioka E, Zacharoulis D. *Obes Surg.* 2017 Sept; 27 (9): 2479-2487. doi: 10.1007/s11695-017-2807-2. Review. PMID:28681256
13. Ursodeoxycholic Acid in the Prevention of Gallstone Formation After Bariatric Surgery: an Updated Systematic Review and Meta-analysis. Magouliotis DE, Tasiopoulou VS, Svokos AA, Svokos KA, Chatedaki C, Sioka E, Zacharoulis D. *Obes Surg.* 2017 Nov; 27 (11): 3021-3030 doi: 10.1007/s11695-017-2924-y. Review PMID:28889240
14. Extracorporeal membrane oxygenation versus cardiopulmonary bypass during lung transplantation: a meta-analysis. Magouliotis DE, Tasiopoulou VS, Svokos AA, Svokos KA, Zacharoulis D, *General Thoracic and Cardiovascular Surgery*, 2018 Jan; 66 (1): 38-47, doi: 10.1007/s11748-017-0836-3, PMID: 28918471
15. Robotic versus laparoscopic sleeve gastrectomy: a review of the current evidence
Tasiopoulou VS, Svokos AA, Svokos KA, Zacharoulis D, Magouliotis DE
Minerva Chir, 2017 Dec 14, doi: 10.23736/S0026-4733.17.07583-6, PMID: 29243456
16. Single Incision Versus Conventional Laparoscopic Sleeve Gastrectomy for Morbid Obesity: A Meta-Analysis Magouliotis DE, Tasiopoulou VS, **Svokos** AA, **Svokos** KA, Sioka E, Zacharoulis D. *J Laparoendosc Adv Surg Tech A.* 2018 Jun;28(6):690-699. doi: 10.1089/lap.2017.0245. Epub 2018 Feb 1. PMID: 29389227
17. Tumor-treating fields as a fourth treating modality for glioblastoma: a meta-analysis
Magouliotis DE, Asproдини EK, **Svokos** KA, Tasiopoulou VS, **Svokos** AA, Toms SA.
Acta Neurochir (Wien). 2018 Jun;160(6):1167-1174. doi: 10.1007/s00701-018-3536-6. Epub 2018 Apr 25. PMID: 29696502
18. A meta-analysis of laparoscopic versus open left lateral hepatic sectionectomy.
Zacharoulis D, Tasiopoulou VS, **Svokos** KA, **Svokos** AA, Christodoulidis G, Mamaloudis I, Sioka E, Magouliotis DE. *HPB (Oxford)*. 2018 Dec;20(12):1130-1136. doi: 10.1016/j.hpb.2018.06.1812. Epub 2018 Jul 23. PMID: 30045827
19. Banded vs. non-banded Roux-en-Y gastric bypass for morbid obesity: a systematic review and meta-analysis. Magouliotis DE, Tasiopoulou VS, Svokos KA, Svokos AA, Sioka E, Tzovaras G, Zacharoulis D. *Clin Obes.* 2018 Dec;8(6):424-433. doi: 10.1111/cob.12274. Epub 2018 Aug 24. PMID: 30144284
20. Transcriptomic analysis of the Aquaporin (AQP) gene family interactome identifies a molecular panel of four prognostic markers in patients with pancreatic ductal adenocarcinoma. Magouliotis DE, Tasiopoulou VS, Dimas K, Sakellaridis N, Svokos KA, Svokos

AA, Zacharoulis D. *Pancreatology*. 2019 Apr;19(3):436-442. doi: 10.1016/j.pan.2019.02.006. Epub 2019 Feb 11. PMID: 30826259

21. In Silico Transcriptomic Analysis of the Chloride Intracellular Channels (CLIC) Interactome Identifies a Molecular Panel of Seven Prognostic Markers in Patients with Ductal Adenocarcinoma
Magouliotis DE, Sakellaridis N, Dimas K, Tasiopoulou VS, Svokos KA, Svokos AA, Zacharoulis D *Current Genomics*, 2020 Feb; 21 (2): 119-127

22. Complex wound closure by plastic surgery following resection of spinal neoplasms minimizes postoperative wound complications in high-risk patients.
Leary OP, Liu DD, Boyajian MK, Syed S, Camara-Quintana JQ, Niu T, Svokos KA, Crozier J, Oyelese AA, Liu PY, Woo AS, Gokaslan ZL, Fridley JS. *J Neurosurg Spine*. 2020 Feb 28:1-10. doi: 10.3171/2019.12.SPINE191238. Online ahead of print. PMID: 32109877

23. An Open Fetal Myelomeningocele Repair With Incorporation of a Skin Allograft. Snegovskikh D, Svokos K, Souza D, Renaud E, Klinge PM, Carr SR, Luks FI. *J Obstet Gynaecol Can*. 2020 Feb;42(2):177-178. doi: 10.1016/j.jogc.2019.04.015. Epub 2019 Jul 6. PMID: 31289012

24. 3D-Printed Anatomic Modeling for Surgical Planning and Real-Time Operative Guidance in Complex Primary Spinal Column Tumors: Single-Center Experience and Case Series.
Leary ScB OP, Crozier J, Liu ScB DD, Niu T, Pertsch NJ, Camara-Quintana JQ, Svokos KA, Syed SS, Telfeian AE, Oyelese AA, Woo AS, Gokaslan ZL, Fridley JS. *World Neurosurg*. 2020 Sep 30:S1878-8750(20)32164-1.

OTHER PEER REVIEWED PUBLICATIONS

Induction of SIRT1 by Resveratrol Targets Proteins Involved in Mood Disorders, Svokos, K, Leheste, J, Hallas, B, Torres, G *The Journal of the American Osteopathic Association*, 2008 Aug Vol 108 (8)

Neuropathic Pain: A discussion of the pathophysiology of neuropathic pain and overview of the modalities used to alleviate it. Svokos K, Goldstein LB *Practical Pain Management*, 2009 June; 9 (5): 50-56

Genomic Analysis of Non-NF 2 Meningiomas Reveals Mutations in TRAF7, KLF 4, AKT1 and SMO, Svokos, K and Toms, S *CNS Essential Papers in Neurosurgery* edited by Bendok B, Ghogawala Z, Tecle N, Ragel B, Asthagiri A, Resnick D, *CNS*, 9/2014

BOOKS AND BOOK CHAPTERS

Traumatic Brain Injury in Children, **Svokos, K**, Kershenovich A, Pediatric Surgery: Diagnosis and Treatment, Kennedy A, Scorpio, R, Coppola C Springer, 2014

Spinal Trauma in Children, **Svokos, K**, Kershenovich A Pediatric Surgery: Diagnosis and Treatment, Kennedy A, Scorpio, R, Coppola C Springer, 2014

Pathobiology of brain metastases: Molecular mechanisms, **Svokos, K**, Lal S, Toms S Volume series Brain Metastases from Primary Cancers, Elsevier/Academic Press, 7/2014

ABSTRACTS

Society for Neuroscience Conference, San Diego, CA 11/2001

Svokos, K, Nalwalk, JW, Menge, HW, Leurs, R, Timmerman, H, Glick, SD and Hough, LB,
A role for spinal, but not supraspinal, alpha2 adrenergic receptors in the actions of impropgan, a non-opioid analgesic Abstract #617.8, N-9

American Osteopathic Association Convention, Las Vegas, NV 10/2008

Svokos, K, Leheste J, Hallas B, Torres G, "Induction of SIRT1 by Resveratrol targets proteins involved in mood disorders" Abstract #2008-37, Poster B8, Basic Sciences

Society for Neuroscience Conference, Washington, DC 11/2008

Leheste, JR, Svokos, K, Sarwar, S, Hallas BH, Torres G,
SIRT1: Epigenetic Control of DNA Targets with CNS Function", Session: Molecular Studies of Aging, Session #144

Society for Neuroscience Conference, Chicago, IL 10/2009

Leheste JR, Svokos K, Cohen M, Dileo JN, Zakhary SM, Hallas BH, Torres G
Resveratrol-dependent SIRT1 activation affects the transmission of photoperiodic information through GPR50

Congress of Neurological Surgeons, Chicago, IL 10/2012

Svokos K, Turtz T, Woodrow S.

Spontaneous Superior Sagittal Sinus thrombosis after Lumboperitoneal Shunt Insertion for Pseudotumor Cerebri

The International Society for the advancement of Spine Surgery, Miami, FL 4/2014

Svokos K, Roberts C, Yocom S

Atlantooccipital Dislocation and Concomitant Resolution of Post-operative Quadriplegia

AANS/ CNS Section on Pediatric Neurological Surgery, Orlando, Fla 12/2016

Svokos, K, Batista L, Handler M, O'Neil B

International survey on the operative management of infants with occult spinal dysraphism

AANS/ CNS Section on Pediatric Neurological Surgery, Orlando, Fla 12/2016

Svokos, K, Batista L, Handler M, O'Neil B

International survey on the management of lumbosacral cutaneous stigmata in infants with suspected occult spinal dysraphism

European Respiratory Society , International Congress, Milan, Italy, 9/2017

Magouliotis, D, Tasiopoulou, V, Svokos, K, Svokos, A, Olland, A, Massard, G, Zacharoulis, D

Intraoperative extracorporeal membrane oxygenation versus cardiopulmonary bypass for lung transplantation: A meta-analysis

UNIVERSITY TEACHING ROLES

University at Albany, State University of New York Graduate Teaching Assistant, Biology, 8/2002-5/2003
Biology courses and biology labs, 30-100 students/class

New York College of Osteopathic Medicine Pre-Doctoral Academic Medicine Fellow, Neuroscience
1/2008 -12/2008, Neuroanatomy and Neuroscience lectures and anatomy labs, 100-300 students/ class

Brown University
Monthly Lecturer : Pediatric Neurosurgery Topics
Curriculum to the Brown Neurosurgery Residents
Monthly Lecturer : Pediatric ICU – Neurosurgery Topics
Lecturer to the Fetal Medicine Course for the first and second year medical students Spring 2018
Small group leader of the Brain Sciences course to the first and second year medical students Winter 2017
Lecturer to Clinical Nursing Education Series on numerous neurosurgical topics

Philadelphia College of Osteopathic Medicine Mentor to junior residents
Invited speaker to the 5th Annual Neurosurgical Symposium, Jan 2018 “Pediatric Neuro-oncology: Current Trends and what the Future Holds” and Lab Instructor of the cadaveric Portion of the Symposium

LANGUAGES

English, Greek, Conversational Spanish and French

