

JOEL SHERMAN KATZ, D.O.

EDUCATION

2018 – 2019 Children’s Hospital of Pittsburgh, Pediatric Neurosurgery Fellowship
2012 - 2018 Grant / Riverside Medical Center, Ohio Health, Neurosurgery Resident
2007 - 2011 Touro College of Osteopathic Medicine, DO
2003 - 2007 Yeshiva University, BA, Biology

RESEARCH EXPERIENCE

2011 - 2012 Hofstra North Shore LIJ School of Medicine, Department of Neurosurgery, Michael Schulder, MD; Neurosurgery research fellowship. Coordinated various prospective neuro-oncologic trials.

2009 - 2010 NYU Langone Medical Center, Division of Pediatric Neurosurgery, Howard Weiner, MD; Actively involved in multiple Tuberous Sclerosis Complex research projects.

2008 University of Colorado Health Sciences Center, Department of Neurosurgery, Michael Handler, MD; Completed retrospective research project in pediatric trauma.

PUBLICATIONS

Katz JS, Oluigbo CO, Wilkinson CC, McNatt S, Handler MH. Prevalence of cervical spine injury in infants with head trauma. *Journal of Neurosurgery: Pediatrics* 5:470-473, 2010

Katz JS, Milla S, Wiggins G, Devinsky O, Weiner HL, Roth J. Intraventricular lesions in Tuberous Sclerosis Complex: a possible association with the caudate nucleus. *Journal of Neurosurgery: Pediatrics* 4:406-413, 2012

Vaughn J, Hagiwara M, **Katz JS**, Roth J, Devinsky O, Weiner HL, Milla S. Evaluation of focal cerebellar lesions in pediatric and young adult patients with tuberous sclerosis: Characterization of the lesions and a longitudinal study in a large cohort. *American Journal of Neuroradiology*: 3:655-659, 2013

Chalifoux JR, Perry N, **Katz JS**, Wiggins G, Roth J, Miles D, Devinsky O, Weiner HL, Milla S. The ability of high field strength 7 Tesla MRI to reveal previously uncharacterized brain lesions in patients with tuberous sclerosis complex. *Journal of Neurosurgery: Pediatrics*: 3:268-273, 2013

Kushnirsky M, Nguyen V, **Katz JS**, Steinklein J, Rosen L, Warshall C, Schulder M, Knisely JP. Time-delayed contrast-enhancement MRI improves detection of brain metastases and apparent treatment volumes. *Journal of Neurosurgery*: 11:1-7, 2015

Katz JS, Frankel H, Ma T, Zagzag D, Liechty B, Zeev B, Tzadok M, Devinsky O, Weiner HL, Roth J. Unique findings of subependymal giant cell astrocytoma within cortical tubers in patients with

tuberous sclerosis complex: a histopathological evaluation. *Childs Nervous System*: 33(4):601-607, 2017

Katz JS, Peruzzi P, Pierson C, Finlay J, Leonard J. Cerebellopontine Angle Tumors in Young Children, Displaying Cranial Nerve Deficits, and Restricted Diffusion on Diffusion-Weighted Imaging: a New Clinical Triad for Atypical Teratoid/Rhabdoid Tumors. *Childs Nervous System*: 33(5):833-838, 2017

Dornbos D, **Katz JS**, Youssef P, Powers CJ, Nimjee SM. Glycoprotein IIb/IIIa Inhibitors in the Treatment of Thromboembolic Complications During Endovascular Embolization of Intracranial Aneurysms. *Neurosurgery*: 82(3):268-277, 2018

Wochna JC, Marciano R, Catanescu I, **Katz J**, Spalding MC, Narayan K. Cortical Trajectory Pedicle Screws for the Fixation of Traumatic Thoracolumbar Fractures. *Cureus* 10(6): e2891

Katz JS, Abel TJ. Stereoelectroencephalography Versus Subdural Electrodes for Localization of the Epileptogenic Zone: What is the Evidence? *Neurotherapeutics*: 16(1): 59-66, 2019

Yan H, **Katz JS**, Anderson M, Mansouri A, Remick M, Ibrahim GM, Abel TJ. Method of invasive monitoring in epilepsy surgery and seizure freedom and morbidity: A systematic review. *Epilepsia*: 60(9): 1960-1972, 2019

ORAL ABSTRACT

“Incidence of Cervical Spine Injury in Infants with Head Trauma” Handler MH and **Katz JS**. 37th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Spokane, Washington, December 2008.

“Intraventricular lesions in Tuberous Sclerosis Complex: a possible association with the caudate nucleus” **Katz, J.**, Milla, S., Wiggins, G., Devinsky, O., Weiner, H., Roth, J. 39th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery; Cleveland, OH, December 2010

“7T imaging of Tuberous Sclerosis,” Weiner, H., Wiggins, G., Roth, J., **Katz, J.**, Miles, D., Devinsky, O., Milla, S. Meeting of the American Society of Pediatric Neurosurgeons, Lana’i, Hawaii, February 2011.

“Evaluation of focal cerebellar lesions in pediatric and young adult patients with tuberous sclerosis: characterization of lesions and longitudinal study in a large cohort” Vaughn, J., **Katz, J.**, Weiner, H., Roth, J., Milla, S. ASNR 49th Annual Meeting; Seattle, WA, June 2011

“Fractionated Stereotactic Radiosurgery for Cerebral Metastases: Tumor Control” **Katz JS**, Ghaly M, Knisely J, Schulder M. American Society for Stereotactic and Functional Neurosurgery Biennial Meeting, San Francisco, California, June 2012

“Unique Findings of Subependymal Giant Cell Astrocytoma in Cortical Tubers Found in Patients with Tuberous Sclerosis Complex. A Histopathological Evaluation” **Katz, J.**, Hyman, F., Ma, T., Zagzag, D., Weiner, H., Roth, J. 43th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery; Amelia Island, FL, December 2014

“Optic pathway gliomas and their volumetric response to chemotherapy: 12 cc³ volume threshold for improvement vs. treatment failure” **Katz, J.**, Dornbos, D., Leonard, J. 46th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery; Houston, TX, November 2017

“Cortical Trajectory Pedicle Screws for Fixation of Traumatic Thoracolumbar Fractures,” Wochna JC, Marciano, RD, Catanescu I, **Katz JS**, Spalding C, Narayan, K. 13th Annual Academic Surgical Congress, Jacksonville, FL January 2018

“Optic pathway gliomas and their volumetric response to chemotherapy: 12 cc³ volume threshold for improvement vs. treatment failure” **Katz, J.**, Dornbos, D., Leonard, J. 46th Annual Meeting of the International Society for Pediatric Neurosurgery; Tel Aviv, IS, October 2018

“Craniopharyngioma: pros and cons of craniotomy vs. endoscopic endonasal” Leonard RL, Drapeau A MH and **Katz JS**. Ohio State Neurological Society Annual Meeting, Columbus, Ohio, March 2020.

BOOK CHAPTER

Normal Pressure Hydrocephalus. **Katz JS**, Narayan K. Practical Neurosurgery

POSTER PRESENTATIONS

“Effect of Hydrogen Bonding on the IR Spectrum of [Fe(CN)₄(CO)₂]²⁻ Complex,” A. Etra, **J. Katz**, R. Viswanathan, J. Jiang, 232nd ACS National Meeting, San Francisco, CA, September 2006.

“Fractionated stereotactic radiosurgery for intracranial metastases: tumor control,” **Katz JS**, Ghaly M, Knisely J, Schulder M. 2012 Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 2012

“Adjuvant tumor bed radiosurgery following surgical resection of intracranial metastases,” **Katz JS**, Ghaly M, Knisely J, Schulder M. 2012 Congress of Neurological Surgeons Annual Meeting, Chicago, IL, October 2012

“Fractionated stereotactic radiosurgery for intracranial metastases: tumor control,” **Katz JS**, Ghaly M, Knisely J, Schulder M. 17th Annual Scientific Meeting & Education Day of the Society for Neuro-Oncology, Washington, DC, November 2012

“Adjuvant tumor bed radiosurgery following surgical resection of intracranial metastases,” **Katz JS**, Ghaly M, Knisely J, Schulder M. 17th Annual Scientific Meeting & Education Day of the Society for Neuro-Oncology, Washington, DC, November 2012

“Value of Diffusion-weight imaging in Atypical Teratoid/Rhabdoid Tumors arising within the Cerebellopontine Angle in Young Children,” **Katz JS**, Peruzzi P, Pierson C, Finlay J, Leonard J. Ohio State Neurosurgical Society, Cincinnati, OH, April 2016

“Unique findings of subependymal giant cell astrocytoma within cortical tubers in patients with Tuberous Sclerosis Complex: a histopathological Evaluation,” **Katz JS**, Frankel H, Ma T, Zagzag D, Liechty B, Zeev B, Tzadok M, Devinsky O, Weiner H, Roth J. Ohio State Neurosurgical Society, Cincinnati, OH, April 2016

“A Unique presentation of an intracranial abscess secondary to retained projectile after debridement with dural closure,” Milton J, Marciano R, **Katz J**, Ahammad Z, Awuor V. Annual Clinical Assembly, Phoenix, AZ, September 2016

“Perforated Craniotomy: A Novel Surgical Technique for the Treatment of Chronic Subdural Hematomas,” **Katz JS**, Milton J, Marciano R, Ahammad Z, Entwistle J, Awuor V, Seaman B, Karas C, Narayan K. Congress of Neurological Surgeons 2016 Annual Meeting, San Diego, CA, September 2016

“Pediatric hangings and strangulation injury: presenting clinical patterns and associative outcomes,” **Katz, JS**, Lacount, S, Sribnick, E. 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgeons, Orlando, FL, December 2016.

“Pediatric hangings and strangulation injury: presenting clinical patterns and associative outcomes,” **Katz, JS**, Lacount, S, Sribnick, E. Ohio State Neurosurgical Society, Columbus, OH, April 2017

“Glycoprotein IIb/IIIa in prevention and rescue treatment of thromboembolic complications during endovascular embolization of intracranial aneurysms,” Dornbos, D, **Katz JS**, Youssef, P, Powers, CJ, Nimjee SM. Essentials of Neurocritical Care Conference, Columbus, OH, May 2017

“Cortical Trajectory Pedicle Screws for Fixation of Traumatic Thoracolumbar Fractures,” Marciano, RD, **Katz JS**, Narayan, K. Congress of Neurological Surgeons 2017 Annual Meeting, Boston, MA, October 2017

“Survival in pediatric ependymoma based on location and radiation treatment within the USA: a large, three decade, population-based observational study” **Katz, JS**, Sosa, S, Karas, C. 46th Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgeons, Houston, TX, November 2017.

“Survival in pediatric medulloblastoma based on location and radiation treatment regimens within the USA: a large, three decade, population-based observational study” **Katz, JS**, Sosa, S, Karas, C.

46th Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgeons, Houston, TX, November 2017.

“Optic pathway gliomas and their volumetric response to chemotherapy: 12 cc³ volume threshold for improvement vs. treatment failure” **Katz, J.**, Dornbos, D., Leonard, J. Ohio State Neurosurgical Society, Columbus, OH, March 2018

“Outcomes Following Tethered Cord Release In Myelomeningocele Patients: A Twenty Years’ Experience At A Single Institution” **Katz, JS**, McDowell, M, Greene, S. 47th Annual Meeting of the AANS/CNS Section on Pediatric Neurosurgeons, Vanderbilt, TN, December 2018.

AWARDS

First place resident poster award for “Unique findings of subependymal giant cell astrocytoma within cortical tubers in patients with Tuberous Sclerosis Complex: a histopathological Evaluation,” **Katz JS**, Frankel H, Ma T, Zagzag D, Liechty B, Zeev B, Tzadok M, Devinsky O, Weiner H, Roth J. Ohio State Neurosurgical Society, Cincinnati, OH, April 2016