

Kunal Vakharia, MD, MBA, MBE

University of South Florida, Morsani College of Medicine, Tampa, Florida

Citizenship

US Citizen

Education

Johns Hopkins University, Masters in Business Administration, 2020, Beta Gamma Sigma Honor Society	January 2017- March 2020
University of Pennsylvania, Masters in Bioethics, 2016	May 2013-May 2016
Thomas Jefferson Medical College, Medical Doctorate, 2013	September 2009- May 2013
Pennsylvania State University, BS in Science, Minor in Economics, 2009	September 2007 – May 2009

Postgraduate Training

Endovascular RFP Certificate	2025
ABNS Board Certified	2024
Cyberknife Certificate	2023
Gamma Knife Certificate	2022
Mayo Clinic, 200 First St SW, Rochester MN, Skull Base Neuro-Oncology Fellowship	July 2020-June 2021
University at Buffalo, 100 High St, Buffalo, NY, Cerebrovascular/Endovascular Fellowship	July 2017-June 2019
University at Buffalo, 100 High St, Buffalo, NY, Neurosurgical Residency	June 2013-June 2020

Honors/Awards

Bypassing Surgical Failure: The Role Of Biomarkers In Predicting Revascularization. Best Cerebrovascular Poster Award, Congress of Neurological Surgeons	October 2025
Can Synthetic Data Safely Expand Clinical Datasets In Rare Brain Tumors? Best Operative Technique Data Science Poster Award, Congress of Neurological Surgeons	October 2025

Patient-Centered Microsurgical Strategies For Giant Intracranial Aneurysms Using Double Machine Learning. Best Operative Cerebrovascular Poster Award, Congress of Neurological Surgeons	October 2025
Golden Apple Staff Teaching Award	June 2025
Tampa Magazine Top Docs Winner	2025
Castle Connelly Top Doctor	2025
LINNC Americas 2025 Grantee	March 2025
World Neurosurgery Editors Selection	October 2023
CNS Leadership Institute	2023-2025
Golden Apple Staff Teaching Award	June 2022
Beta Gamma Sigma Honor Society	April 2020
Erie County Medical Society Award	May 2020
Resident Effective Communication Award	2018-2019
Gold Humanism Honor Society	2018
George McClellan Surgical Honors Society	2012
Francis R Pentz and Helen M Pentz Memorial Academic Excellence Scholarship	2007-2009

Appointments

Assistant Editor, Cerebrovascular Section, Neurosurgery Practice	January 2026 – December 2028
Associate Professor of Neurosurgery, University of South Florida	July 2025 - current
Assistant Professor of Neurosurgery, University of South Florida	August 2021- June 2025
Associate Program Director, University of South Florida	October 2022-current
Medical Student Director, University of South Florida	October 2022-current

Teaching, Supervisory

Congress of Neurological Surgeons Written Boards Course Director	2024 - present
Assistant Professor of Neurosurgery – responsibility includes teaching 14 residents, endovascular and skull base fellows	2021-present

Associate Program Director/Medical Student Director – educate/mentor 44 observers and 28 medical students from 2023-2025 2022-present

Proctor for Woven Endobridge and FRED X Stent – formal teaching of peers across country on how to use these new endovascular technologies 2022-present

Lectures/Oral Presentations

National/International

ADAPT 2.0, Orlando, Florida February 2026

Coiling of Fusiform Posterior Cerebral Artery Aneurysms, LINNC Americas, Orlando, Florida February 2026

ADAPT 2.0, NEAR Center, Charleston, South Carolina. December 2025

Transvenous AVM Embolization. World Federation of Neurosurgery, Dubai, UAE. December 2025

Machine Learning-Driven Prediction of Inflow and Outflow in AVMs. World Federation of Neurosurgery, Dubai, UAE. December 2025

In-situ bypass techniques for complex aneurysm management. World Federation of Neurosurgery, Dubai, UAE. December 2025

Use of Surpass Elite Flow Diversion for Giant Aneurysms, Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Moderator General Scientific Session III, Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Crossroads of Innovation in Skull Base Surgery, Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Moderator Skull Base/Vascular, Pacific Rim Symposium, Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Moderator Cerebrovascular/Endovascular, Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Effectiveness of Subdural Evacuating Port System (SEPS) and Middle Meningeal Artery Embolization (MMAE) for Chronic Subdural Hematomas – A multicenter experience. Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

CNS+ Chatbot and AtlasGPT: Evaluating Domain-Specific LLMs In Neurosurgery. Congress of Neurological Surgeons (CNS) 2025 Annual Meeting, California, LA. October 2025

Contemporary Management of Cerebral Aneurysms. Florida Neurosurgical Society, Palm Beach, FL. August 2025

Outcomes with Repeat Radiosurgery for Arteriovenous Malformations, SNIS 2025 Annual Meeting, Nashville, TN.	July 2025
Intrasaccular Flow Diversion, SNIS 2025 Annual Meeting, Nashville, TN.	July 2025
Periprocedural Safety and Immediate Closure Rate of the FDA Approved Tornado-US Trial: Evaluating Nautilus Assisted Coil Embolization for Ruptured Wide Neck Aneurysms, SNIS Annual Meeting, Nashville, TN	July 2025
Intrasaccular Flow Diversion, Endovascular EDGE Course, Dallas, Tx	May 2025
Stent-Assisted Coiling, Endovascular EDGE Course, Dallas, Tx	May 2025
Machine Learning for Complex Cerebral Aneurysms, Walter Grand Neurosurgical Forum, Ponte Vedra, FL.	May 2025
Machine Learning-Driven Prediction of Aneurysm Occlusion after Woven Endobridge, Cerebrovascular Winter Symposium, Jackson, WY.	March 2025
Transvenous Arteriovenous Malformation Embolization, LINNC Americas, Brazil	March 2025
Pitfalls with Inferior Petrosal Sinus Sampling, North American Skull Base Society, New Orleans, LA	February 2025
Beyond the Bleed: Optimizing Recovery after Intracranial Hemorrhage, Mt Sinai Grand Rounds, New York, NY	January 2025
Pregnancy Outcomes and Anesthetic Practices in a Cohort of MoyaMoya Disease Patients, AANS Annual Meeting, Boston	April 2025
AtlasGPT as a Patient Education Tool, Southern Neurosurgical Society, Marco Island, FL	February 2025
Navigating Delivery and Anesthesia in Pregnant Patients with Chiari Malformation, Southern Neurosurgical Society, Marco Island, FL	February 2025
Surgical Management of Craniopharyngiomas: Pursuing Stalk Preservation in Skull Base Approaches, 4 th Annual WSBC, Cairo, Egypt	November 2024
CNS Live Case – Woven Endobridge Device for a complex Right Middle Cerebral Artery Aneurysm, Houston, TX	October 2024
Leadership Evaluation – First Case On Time Starts, Houston, TX	September 2024
Life of a Neurosurgeon – Pathways Program, Houston, TX	September 2024
Adults and Families: The Impact of Normal Pressure Hydrocephalus, Hydrocephalus Association, Tampa, FL	July 2024

Revisiting Intra-arterial chemotherapy – palliative utility in a case of recurrent esthesioneuroblastoma and literature review, North American Skull Base Society, Atlanta, GA	February 2024
Venous sinus stenting for cerebrospinal fluid leaks in setting of idiopathic intracranial hypertension – an institutional review and systematic review of literature, North American Skull Base Society, Atlanta, GA	February 2024
Closer to the Clot, Congress of Neurological Surgeons, Washington DC	September 2023
Stroke: A paradigm shift for large core thrombectomy and potential for burnout, Congress of Neurological Surgeons, Washington DC	September 2023
Evolving technologies for the treatment of cerebrovascular lesions. Moderator. Congress of Neurological Surgeons, Washington DC	September 2023
Leadership in the CNS and Beyond. Congress of Neurological Surgeons, Washington DC	September 2023
Transvenous Embolization Of A Ruptured Brainstem Arteriovenous Malformation With Selective Arterial And Venous Flow Arrest. SNIS, San Diego, CA	August 2023
Arteriovenous Malformations. Moderator. SNIS San Diego, CA	August 2023
Aspirations in aspiration. SNIS, San Diego, CA	August 2023
Breaking Grounds: Aneurysms. Moderator. 15 th Annual Cerebrovascular Complications Conference. Jackson Hole, WY	June 2023
Tumor Embolization Complications: Lessons Learned. 15 th Annual Cerebrovascular Complications Conference. Jackson Hole, WY	June 2023
Transvenous AVM Embolization: A true paradigm shift? Ponte Vedra Neurosurgical Forum, Ponte Vedra, FL	April 2023
On-Label Use of WEB for Cerebral Aneurysms. Seattle Science Foundation, Seattle, WA	March 2023
Exoscopic Surgery. North American Skull Base Society, Tampa, FL	February 2023
Novel Cytotoxic Chemotherapy Agents for Glioblastoma. F Prime, Tampa, FL	November 2022
Innovations in Ischemic and Hemorrhagic Stroke. WCF Stroke Conference, FL	November 2022
Preradiosurgical embolization of arteriovenous malformations reduces target volume – the main determinant for complete obliteration: single-center experience with 4 years of follow-up, Congress of Neurological Surgeons, San Francisco, CA	September 2022

Novel use of Drug-Eluting, Balloon-Expandable Resolute Onyx Coronary Stent as a Novel Treatment Strategy for Vertebral Artery Ostial Stenosis. Congress of Neurological Surgeons, San Francisco, CA	September 2022
Beyond the ASPECTS: Use of CTP is Reliable in Predicting Final Infarct Volume within 6 Hours of Stroke Symptoms Onset. Congress of Neurological Surgeons, San Francisco, CA	September 2022
Femoral Access Complications. 3C Conference, Jacobs Institute, Jackson Hole, WY.	June 2022
Managing Complications of Comaneci Assisted Coiling. 3C Conference, Jacobs Institute, Jackson Hole, WY.	June 2022
Management of Hemodynamic Carotid Occlusion. Ponte Vedra Neurosurgical Forum, Ponte Vedra, FL.	April 2022
The Evolving Mindset of a Cerebrovascular Neurosurgeon: Multimodal Treatment of Cerebral AVMs. Virginia Commonwealth University Grand Rounds, Richmond, VA.	November 2020
Le Faux Miroir. NASBS Surgeons Log 2020, Webinar.	July 2020
3D DSA Rotational Spin Rupture Complication. Failure Analysis Advisory Council Meeting, Jackson Hole, WY.	August 2018
Minor Strokes with proximal large vessel occlusion in anterior circulation; is intravenous thrombolysis enough. American Academy of Neurology. Boston, MA.	April 2017
Targeting of amygdalar corticotrophin-releasing factor neurons that project to the locus coeruleus by noradrenergic afferents. Society for Neuroscience 41th Annual Meeting, Washington DC.	November 2011
Follow-Up Angiography in Subarachnoid Hemorrhage with Negative Initial Angiography. Congress of Neurological Surgeons. Washington, DC.	October 2011
<u>Regional</u>	
Intra-arterial Therapies for Tumors, USF Health, USF Neurosurgery Grand Rounds, Tampa, FL	September 2025
Aspiration 2.0 Stroke System, USF Health, Western Florida Stroke Symposium	September 2025
Anterior Endoscopic Skull Base Approaches, USF Neurosurgery Skull Base Course, USF Health, Tampa, FL	July 2025
Bypass and Orbitozygomatic Approach Basics, USF Neurosurgery Course, Course Director, USF Health, Tampa, FL	May 2025

Endovascular Basics: Understanding Aneurysm and Stroke Treatment, USF Neurosurgery Course, Course Director, USF Health, Tampa, FL.	March 2025
ICAD: Revisiting the Paradigm, USF Neurosurgery Grand Rounds, USF Health, Tampa, FL	March 2025
Endoscopic Endonasal Approaches to the Cavernous Sinus, Pituitary Symposium, USF Health, Tampa, FL	March 2025
Understanding cSDH and MMA Embolization, USF Health, Tampa, FL	February 2025
Flow Diversion and Stent-Assisted Coiling, Endovascular EDGE Course, Miami, FL	February 2025
Tuberculum Sella and Planum Meningioma Approaches: Transtuberculum and Planum Endoscopic Approaches, USF Skull Base Course, Tampa, FL	February 2025
Minimalist Approach to Endovascular Thrombectomy, Orlando Stroke Conference, Orlando, FL	November 2024
Supraorbital Craniotomy: Surgical Planning and Step-by-step Approach, USF Skull Base Course, Tampa, FL	August 2024
Innovations in Cerebrovascular Medicine, USF Family Medicine, Tampa, FL	May 2024
Endoscopic Endonasal Approach to Pituitary Tumors, USF Endocrinology Grand Rounds, Tampa, FL	April 2024
Endoscopic Approach for Craniopharyngiomas, USF Skull Base Course, Tampa, FL	April 2024
What is the importance of distal intracranial access?, Baycare Grand Rounds, St. Petersburg, FL	April 2024
MIS Clot Evacuation: Standard of Care?, USF Neuroscience Lecture Series, Tampa, FL	March 2024
Idiopathic Normal Pressure Hydrocephalus, Tampa General Hospital Podcast, Tampa, FL	February 2024
Beyond the Scalpel: Hybrid Cerebrovascular Neurosurgery, USF Neurosurgery Grand Rounds, Tampa, FL	January 2024
Surgical Management of Craniopharyngiomas. University of South Florida Pituitary Tumor Board, Tampa, FL	July 2023
ICAD: Revisiting the Treatment Paradigm: Interventions for Intracranial Atherosclerotic Disease. University of South Florida Neurology Grand Rounds, Tampa, FL	October 2022

Microsurgical Management of Cavernous Malformations. University of South Florida Grand Rounds, Tampa, FL	October 2022
Expanding our Decision-Making Paradigm: Microsurgical Management of Cerebral Aneurysms. University of South Florida Grand Rounds, Tampa, FL	September 2022
There is more than one right answer: the case of cerebral aneurysms. Tampa General Hospital Podcast, Tampa, FL	August 2022
Endoscopic Endonasal Pituitary Tumor Resection. University of South Florida Pituitary Tumor Board, Tampa, FL.	August 2022
The Different Flavors of Stroke. Tampa General Hospital, Tampa, FL.	May 2022
Management of Iatrogenic Vascular Injuries in Cranial Surgery. University of South Florida Grand Rounds, Tampa, FL.	February 2022
Microsurgery for Dural Arteriovenous Fistulas. University of South Florida Grand Rounds, Tampa, FL.	December 2021
Microsurgery for Arteriovenous Malformations. University of South Florida Grand Rounds, Tampa, FL.	December 2021
Microsurgery for Posterior Circulation Aneurysms. University of South Florida Grand Rounds, Tampa, FL.	December 2021
Microsurgery for Anterior Circulation Aneurysms. University of South Florida Grand Rounds, Tampa, FL.	December 2021
Inferior Petrosal Sinus Sampling. University of South Florida Pituitary Tumor Board, Tampa, FL.	November 2021
Pushing the Envelope with Transradial Access. Neurosurgical Grands Rounds, Gates Vascular Institute, Buffalo, NY.	February 2020
Transcarotid Stenting. Neurosurgical Grands Rounds, Gates Vascular Institute, Buffalo, NY.	October 2019
Minimally Invasive Intracranial Clot Evacuation. Neurosurgical Grands Rounds, Gates Vascular Institute, Buffalo, NY	August 2019
Training with Models. University at Buffalo, Gates Vascular Institute, Buffalo, NY	March 2019
Recognizing the Ivy Sign: Moyamoya Disease and Management. University at Buffalo, Gates Vascular Institute, Buffalo, NY.	October 2018
The Efficacy of Hemicraniectomy in Stroke Patients. Neurosurgical Grand Rounds, University at Buffalo, Gates Vascular Institute, Buffalo, NY.	

Post-operative C5 Neuropraxia. Spine Conference, University at Buffalo,
Gates Vascular Institute, Buffalo, NY.

September
2016

Treatment of Cerebral AVMs: ARUBA and beyond. Neurosurgical Grand
Rounds, University at Buffalo, Gates Vascular Institute, Buffalo, NY.

May 2016

Carotid Endarterectomy: Operative Techniques. Neurosurgical Grand
Rounds, University at Buffalo, Gates Vascular Institute, Buffalo, NY.

March 2016

March 2015

Clinical Trials

ClinicalTrials.gov: NCT04057352

Role: PI

2025-present

Stryker Neurovascular

Treatment of Unruptured Wide Neck Aneurysm with the Citadel
Embolization Device

ClinicalTrials.gov: NCT04963933

Role: PI

2023- Present

Endostream Medical Ltd

Treatment of Ruptured and Unruptured Wide-Neck Aneurysms With
Nautilus™ Device Assisted Occlusion (TORNADO)

ClinicalTrials.gov: NCT04451525

Role: CoI

2023- Present

MicroVention

REal-World Analyses of Stroke - Thrombus Occlusion REtrieval
(RESTORE)

ClinicalTrials.gov: NCT05636124

Role: PI

2023-Present

Kaneka Corporation

Cost Effectiveness, Safety, and Efficacy of the Kaneka iED Coil System
for the Treatment of Wide Necked Ruptured and Unruptured Intracranial
Aneurysms (CLASS)

ClinicalTrials.gov: NCT05714501

Role: CoI

2023- Present

Perfuzo

Millipede AspiRation for Revascularization in Stroke (MARRS) Study

ClinicalTrials.gov: NCT05611242

Role: CoI

2023- Present

Mercy Health Ohio
Proximal Internal Carotid Artery Acute Stroke Secondary to Tandem or
Local Occlusion Thrombectomy Trial (PICASSO)

ClinicalTrials.gov: NCT04494295
Role: PI
2022 – to present
Integra LifeSciences Corporation
The MIRROR Registry: Minimally Invasive Intracerebral Hemorrhage
Evacuation (MIRROR)

ClinicalTrials.gov: NCT05151172
Role: CoI
2022 - present
University of Calgary
Endovascular Treatment to Improve Outcomes for Medium Vessel
Occlusions (ESCAPE-MeVO Trial) (ESCAPE-MeVO)

ClinicalTrials.gov: NCT05081128
Role: CoI
2022-present
Johns Hopkins University
A Placebo-Controlled Efficacy in iNPH Shunting (PENS) Trial (PENS)

ClinicalTrials.gov: NCT04106583
Role: CoI
2021-2023
Penumbra, Inc
SURF: A Prospective, Multicenter Study Assessing the Embolization of
Intracranial Aneurysms using WAVE Extra Soft Coils, a part of the
Penumbra SOFT COIL System

ClinicalTrials.gov: NCT03845491
Role: CoI
2021-2022
Stryker Neurovascular
ASSIST Registry Studying Various Operator Techniques

ClinicalTrials.gov: NCT04402632
Role: Co I
2021 – to present
Medtronic Neurovascular
Embolization of the Middle Meningeal Artery With ONYX™ Liquid
Embolic System for Subacute and Chronic Subdural Hematoma
(EMBOLISE)

ClinicalTrials.gov: NCT04129125
Role: Co I
2021 – to present
Imperative Care

The Imperative Trial: Treatment of Acute Ischemic Stroke With the Zoom Reperfusion System

ClinicalTrials.gov: NCT04437862

Role: Co I

2021 – to present

MIVI Neuroscience, Inc.

A Study to Evaluate the Q Revascularization System for Neurointervention in Acute Ischemic Stroke (EvaQ)

ClinicalTrials.gov: NCT03805308

Role: Co I

2019 – to present

Mercy Health Ohio

The TESLA Trial: Thrombectomy for Emergent Salvage of Large Anterior Circulation Ischemic Stroke

ClinicalTrials.gov NCT01655784

Role: Co I

2015 – to present

Stryker

Framing Eighteen Coils in Cerebral Aneurysms Trial (FEAT)

Medical Licensure

Minnesota

2019-2022

Florida

2021-present

Grants

Agency: USF Health; TGH Cancer Institute
I.D.# Translational Research Program
Title: Cell-free DNA Profiling of Cerebrospinal Fluid to Identify Biomarkers of Immune Evasion in CNS Lymphoma
P.I.: Kunal Vakharia
Co-Inv: Sajeel Chowdhary
Percent effort: 30%
Total costs for project period: \$15,000
Project period: 8/2025-8/2026

Agency: National Science Foundation
I.D.# SBIR Phase 2
Title: An AI-Enhanced Angiographic System to Guide Endovascular Treatment of Intracranial Aneurysms
P.I.: Mohammad Mahdi Shiraz
Co-Inv: Kunal Vakharia
Percent effort: 25%
Total costs for project period: \$999,862
Project period: 10/2023-10/2025

Published Bibliography

Peer-Reviewed

Reyes BA, Carvalho AF, **Vakharia K**, Van Bockstaele EJ. Amygdalar peptidergic circuits regulating noradrenergic locus coeruleus neurons: linking limbic and arousal centers. *Exp Neurol*. 2011 Jul;230(1):96-105. doi: 10.1016/j.expneurol.2011.04.001. Epub 2011 Apr 16. PMID: 21515261; PMCID: PMC3112280.

Reyes BA, **Vakharia K**, Ferraro TN, Levenson R, Berrettini WH, Van Bockstaele EJ. Opiate agonist-induced re-distribution of Wntless, a mu-opioid receptor interacting protein, in rat striatal neurons. *Exp Neurol*. 2012 Jan;233(1):205-13. doi: 10.1016/j.expneurol.2011.09.037. Epub 2011 Oct 6. PMID: 22001156; PMCID: PMC3268889.

Tanquilut, N., Alonzo, N., James, A., Rowlands, D., **Vakharia, K.**, Sanchez, G., Yesner, E., San Jose, R., Tanquilut, M.R., Reyes, B.A.S. Hypoglycemic activity of *Antidesma bunius* L and *Mollugo oppositifolia* L fresh and alcoholic extracts in the db/db diabetic mouse model. *Journal of Ethnopharmacology*. 2012.

Vakharia K, Siasios I, Dimopoulos VG, Pollina J: Posterior Reversible Encephalopathy Syndrome Resolving Within 48 Hours in a Normotensive Patient Who Underwent Thoracic Spine Surgery. *J Clin Med Res* 8:263-266, March 2016

Siasios I, Kapsalaki EZ, Fountas KN, Fotiadou A, Dorsch A, **Vakharia K**, Pollina J, Dimopoulos V: The Role of Diffusion Tensor Imaging and Fractional Anisotropy in the Evaluation of Patients with Idiopathic Normal Pressure Hydrocephalus: A Literature Review. *Neurosurg Focus* 41:E12, September 2016 DOI 0.3171/2016.6.FOCUS16192).

Siasios I, **Vakharia K**, Gibbons KJ, Dimopoulos VG: Large, Spontaneous Spinal Subdural-Epidural Hematoma After Epidural Anesthesia for Caesarean Section: Conservative Management with Excellent Outcome. *Surg Neurol Int* 7:S664-S667, September 22, 2016 (DOI 10.4103/2152-7806.191073).

Vakharia K, Siasios ID, Dorsch AB, Leonardo J. Spontaneous intraventricular rupture of a craniopharyngioma cyst: A case report. *Int J Crit Illn Inj Sci*. 2017 Apr-Jun;7(2):126-128. doi: 10.4103/IJCIIS.IJCIIS_121_16. PMID: 28660168; PMCID: PMC5479076.

Siasios I, **Vakharia K**, Kowalski JM, Dimopoulos VG, Pollina J: C1-C2 Posterior Cervical Fixation by a Harms Technique Modification: Technical Note. *The Journal of Spine Surgery* 4:14-18, January-March 2017.

Morrison JF, **Vakharia K**, Moreland DB: Lumbar Laminectomy in a Captive, Adult Polar Bear (*Ursus Maritimus*). *Surg Neurol Int* 8:112, June 13, 2017.

Meyers JE, **Vakharia K**, Kowalski JM, Dimopoulos VG, Pollina J. Steinmann Pins for C1 Lateral Mass Screw Placement During Atlantoaxial Stabilization. *World Neurosurg*. 2017 Dec;108:560-565. doi: 10.1016/j.wneu.2017.09.051. Epub 2017 Sep 18. PMID: 28927912.

Siasios I, **Vakharia K**, Khan A, Meyers JE, Yavorek S, Pollina J, Dimopoulos V: Bowel Injury in Lumbar Spine Surgery: A Review of the Literature. *J Spine Surg* 4:130-137, March 2018. (DOI 10.21037/jss.2018.03.10). PMID 29732433

Siasios I, Winograd E, Khan A, **Vakharia K**, Dimopoulos VG, Pollina J. Cervical sagittal balance parameters after single-level anterior cervical discectomy and fusion: Correlations with clinical and functional outcomes. *J Craniovert Jun Spine* 2018; 9:56-62.

Franke, AJ, Skelton IV WP, Woody LE, Bregy A, Shah AH, **Vakharia, K**, et al. Role of bevacizumab for treatment-refractory meningiomas: A systematic analysis and literature review. *Surg Neurol Int* 2018; 9.

Rajabzadeh-Oghaz H, Varble N, Shallwani H, Tutino VM, Mowla A, Shakir HJ, **Vakharia K**, Atwal GS, Siddiqui AH, Davies JM, Meng H. Computer-Assisted Three Dimensional Morphology Evaluation of Intracranial Aneurysms. *World Neurosurg*. 2018 Jul 31. pii: S1878-8750(18)31688-7. doi: 10.1016/j.wneu.2018.07.208.

Vakharia K, Kamal H, Atwal GS, Budny JL: Transtentorial Herniation from Tumefactive Multiple Sclerosis Mimicking Primary Brain Tumor: Case Report, *Surg Neurol Int*, August 9, 2018.

Vakharia K, Munich SA, Tso MK, Waqas M, Levy EI: Stent Anchor Technique to Reduce Microcatheter Loop for Stent-Assisted Coiling of Anterior Communicating Artery Aneurysm. *Neurosurg Focus* 46 (Suppl 1):V7, January 2019.

Vakharia K, Munich SA, Waqas M, Setlur Nagesh SV, Levy EI: Deployment of Distal Posterior Cerebral Artery Flow Diverter in Tortuous Anatomy. *Neurosurg Focus* 46 (Suppl 1):V8, January 2019.

Tutino VM, Rajabzadeh-Oghaz H, Chandra AR, Gutierrez LC, Schweser F, Preda M, Chien A, **Vakharia K**, Ionita C, Siddiqui A, Kolega J. 9.4 T Magnetic Resonance Imaging of the Mouse Circle of Willis Enables Serial Characterization of Flow-Induced Vascular Remodeling by Computational Fluid Dynamics. *Current neurovascular research*. 2018 Nov 1;15(4):312-25.

Munich SA, Waqas M, **Vakharia K**, McPheeters MJ, Siddiqui AH: Use of Intra-arterial Tissue Plasminogen Activator in Acute Stroke: Video Case. *Neurosurgery*, November 29, 2018.

Vakharia K, Waqas M, Munich SA, McPheeters MJ, Levy EI: Management of Iatrogenic Internal Carotid Artery Dissection and Middle

Cerebral Artery Restenosis during Endovascular Treatment of Acute Stroke: Video Case, *Neurosurgery*, December 10, 2018.

Waqas M, **Vakharia K**, Munich SA, Morrison JF, Mokin M, Levy EI, Siddiqui AH. Initial Emergency Room Triage of Acute Ischemic Stroke. *Neurosurgery*. 2019 Jul 1;85(suppl_1):S38-S46. doi: 10.1093/neuros/nyz067. PMID: 31197342.

Munich SA, **Vakharia K**, Levy EI. Left M2 Occlusion With Thrombolysis in Cerebral Infarction (TICI) 2b Recanalization Using "Solumbra" Technique: Video Case. *Neurosurgery*. 2019 Jul 1;85(suppl_1):S68-S69. doi: 10.1093/neuros/nyz082. PMID: 31197339.

Munich SA, **Vakharia K**, Levy EI. Overview of Mechanical Thrombectomy Techniques. *Neurosurgery*. 2019 Jul 1;85(suppl_1):S60-S67. doi: 10.1093/neuros/nyz071. PMID: 31197338.

Waqas M, **Vakharia K**, Weimer PV, Hashmi E, Davies JM, Siddiqui AH: Safety and Effectiveness of Embolization for Chronic Subdural Hematoma: Systematic Review and Case Series. *World Neurosurg* (epub March 13, 2019 DOI 10.1016/j.wneu.2019.02.208). PMID 30878752

Fanous AA, Jowdy PK, Morr S, **Vakharia K**, Shallwani H, Lorincz K, Hopkins LN, Davies JM, Snyder KV, Siddiqui AH, Levy EI. Vascular Anatomy and Not Age is Responsible for Increased Risk of Complications in Symptomatic Elderly Patients Undergoing Carotid Artery Stenting. *World Neurosurg*. 2019 Aug;128:e513-e521. doi: 10.1016/j.wneu.2019.04.187. Epub 2019 Apr 30. PMID: 31048049.

Vakharia K, Munich SA, Levy EI. Commentary: The Continued Role and Value of Imaging for Acute Ischemic Stroke. *Neurosurgery*. 2019 Jul 1;85(suppl_1):S31-S33. doi: 10.1093/neuros/nyz188. PMID: 31197344.

Stapleton CJ, Chen Y-F, Shallwani H, **Vakharia K**, Turan TN, Woo HH, Derdeyn CP, Charbel FT, Siddiqui AH, Sepideh A-H: Submaximal Angioplasty for Symptomatic Intracranial Atherosclerotic Disease: a Meta-Analysis of Peri-Procedural and Long-Term Risk. *Neurosurgery* (epub August 21, 2019 DOI 10.1093/neuros/nyz337). PMID 31435656.

Vakharia K, Munich SA, Waqas M, Levy EI, Siddiqui AH: Treatment of Anterior Circulation Aneurysms in the Internal Carotid Artery with Flow Diverters. *Neurosurgery* 86(Supplement_1):S55-S63, January 2020 (epub December 16, 2019 DOI 10.1093/neuros/nyz315). PMID 31838527

Vakharia K, Munich SA, Waqas M, McPheeters MJ, Levy EI: Dual Microwire Rail Technique to Advance a Microcatheter Past the Ostium of a Dissecting Carotid Artery Aneurysm for Flow Diverter Deployment: 2-Dimensional Operative Video. *Oper Neurosurg* (epub August 23, 2019 DOI 10.1093/ons/opz251).

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E. Pressman, M. Monsour, B. Clampitt, S. Schimmel, I. Peto, K. Piper, S. Agazzi, H. Van Loveren, **K. Vakharia**. A 15-Year Surgical Experience with Intracranial Hemangioblastomas - A Safe, Effective, and Only Somewhat Bloody Endeavor. ePoster AANS 2024 Annual Meeting

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E. Pressman, J. Gordon, A. Alayli, G. Lockard, W.R. Guerrero, S. Agazzi, M. Mokin, H.V. Loveren, **K. Vakharia**, “The Hunt and Hess Scale and World Federation of Neurological Surgeons Scale in Prediction of Outcome in the Modern Era”. 2024 Congress of Neurological Surgeons (CNS) Annual Meeting, September 28-October 2, 2024; Houston, TX, USA.

E. Pressman, I. Peto, A. Alayli, G. Lockard, J. Gordon, S. Agazzi, H.V. Loveren, **K. Vakharia**, “Risk of Intraparenchymal Hemorrhage After Resection of Meningiomas Involving the Superior Sagittal Sinus and Associated Risk Factors”. 2024 Congress of Neurological Surgeons (CNS) Annual Meeting, September 28-October 2, 2024; Houston, TX, USA.

B.E. Sayed, S. Schimmel, A. Patel, E. Pressman, **K. Vakharia**, “Clinical Characteristics and Surgical Management of Intracranial Epidermoid Cysts: A retrospective Analysis of 50 Patients”. 2024 Congress of Neurological Surgeons (CNS) Annual Meeting, September 28-October 2, 2024; Houston, TX, USA.

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M. Monsour, E. Pressman, K. Pressman, S. Hartnett-Wright, M.Cain, **K. Vakharia**, “Impact of Decompressive Craniectomy on Labor Management in Pregnant Women”. 2024 Congress of Neurological Surgeons (CNS) Annual Meeting, September 28-October 2, 2024; Houston, TX, USA.

S. Schimmel, E. Dunn, E. Pressman, W.R.Guerrero, M. Mokin, **K. Vakharia**, “Bridging the Gap: A Scoping Review of Microsurgical and Endovascular Approaches to anterior Ethmoidal DAVFs”. 2024 Congress of Neurological Surgeons (CNS) Annual Meeting, September 28-October 2, 2024; Houston, TX, USA.

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Lim J, Vakharia K. Effectiveness Of Subdural Evacuating Port System (SEPS) And Middle Meningeal Artery Embolization (MMAE) For Chronic Subdural Hematomas – A Multicenter Experience. Congress of Neurological Surgeons, Los Angeles, October 2025.

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Jones K, Vakharia K. Outcomes Of Carotid Interventions In Hypercoagulable Patients: A Comparative Analysis Of Stenting Versus Endarterectomy. Congress of Neurological Surgeons, Los Angeles, October 2025.

Lim J, Vakharia K. Liquid Versus Particle Embolic Agents In Preoperative Embolization Of Intracranial Meningiomas: A Multicenter Propensity Score-Matched Analysis. Congress of Neurological Surgeons, Los Angeles, October 2025.

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Babel S, Vakharia K. Personalized Effects Of Stent Use On Packing Density And Recanalization Risk In Intracranial Aneurysms Using Neyman Causal Machine Learning. Congress of Neurological Surgeons, Los Angeles, October 2025.

Patel A, Vakharia K. Cost Analysis Of Zoom 88 Intracranial Access Catheters In Thrombectomies. Congress of Neurological Surgeons, Los Angeles, October 2025.

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Babel S, Vakharia K. Can Synthetic Data Safely Expand Clinical Datasets In Rare Brain Tumors? Congress of Neurological Surgeons, Los Angeles, October 2025.

Bullard N, Vakharia K. Single-Stage Coil Embolization Of Multiple Intracranial Aneurysms: Systematic Review And Meta-Analysis. Congress of Neurological Surgeons, Los Angeles, October 2025.

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Rashidi F, **Vakharia K**, Bauer A, Obrzut M. The Safety and Efficacy of Surpass Flow Diverter for Intracranial Aneurysms: A comprehensive systematic review and meta-analysis. Congress of Neurological Surgeons, Los Angeles, October 2025.

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Vandama JC, Naeem MU, Kamat S, Ryan C, Pressman E, **Vakharia K**. Broadcasting the Brain: A Systematic Assessment of Neurosurgical Podcasts. *University of South Florida 16th Annual RISE Student Symposium*; November 2025, Tampa, Florida.

Jaikumar V, Levy B, Cappuzzo C, **Vakharia K**, Monteiro A, Waqas M, Lim J, Siddiqui A, Levy E. Liquid vs Particle Embolic Agents for Preoperative Embolization of Intracranial Meningiomas: A Multicenter Propensity Score-Matched Analysis. SVIN Annual Meeting, Orlando, FL, November 2025.

Patel A, Pressman E, **Vakharia K**. Zoom Superbore Guide Catheters Versus Conventional Catheters for Large Vessel Occlusion Thrombectomy: A Single-Center Experience. SVIN Annual Meeting, Orlando, FL, November 2025.

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Service

Vice Chair of Development Committee, Congress of Neurological Surgeons	2024-2026
Vice Chair of Guidelines Committee, Congress of Neurological Surgeons	2025-2026
NASBS Scientific Program Committee	2023-2024; 2025-2026
USF Faculty Senate – Representing Morsani College of Medicine	2025-2028
NASBS Communications Chair	2025-2028
NASBS Marketing Chair	2025-2028
TGH Best Practices Innovation Committee	2025-2026
TGH Bylaws Committee	2025-2026
TGH Cancer Committee	2025-2026
CNS Foundation Board Member	2024-2026
SNIS AVM NVQI-QOD Working Group	2024-2025
Chair of SANS, Congress of Neurological Surgeons	2024-2026
Vice Chair of International Committee, Congress of Neurological Surgeons	2024-2025
NASBS Communications Committee	2024-2025
Member-at-Large, Congress of Neurological Surgeons	2024-2026
Ex-officio on Executive Committee, Congress of Neurological Surgeons	2022-present
Research Committee, University of South Florida	2023-2026
Financial Oversight Committee, University of South Florida	2023-2026

Chair of Diversity, Equity, and Inclusion, Congress of Neurological Surgeons	2023-2024
Chair of Neurosurgery Survival Guide, Congress of Neurological Surgeons	2023-2024
Vice Chair of Nexus Committee, Congress of Neurological Surgeons	2023-2024
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Vice Chair of Neurosurgery Survival Guide, Congress of Neurological Surgeons	2022-2023
Vice Chair of Resident Committee, Congress of Neurological Surgeons	2022-2023
Member of Development Committee, Congress of Neurological Surgeons	2022-2024
Member of SANS Committee, Congress of Neurological Surgeons	2022-2024
Online Content Reviewer, Congress of Neurological Surgeons	2022-present
Cerebrovascular/Endovascular Planning Committee, North American Skull Base Society	2023-2024
Website and Social Media Team, North American Skull Base Society	2022-present
Member of Leadership Institute, Congress of Neurological Surgeons	2023-2025
Course Director of Skull Base Cadaver Course and Resident Training, University of South Florida	2022-present
Social Media Manager/Liaison, University of South Florida	2022-2024
Speaker/Translator, Operative Neurosurgery Speaks	2021-2024
Website Committee, Joint Cerebrovascular Section	2020-2024
YNC Liaison, Joint Cerebrovascular Section	2020-2022
Director of Social Media, Joint Cerebrovascular Section	2020-2024
AVM Planning Committee, Society of Neurointerventional Surgeons	2022-2023
Social Media Member, Society of Neurointerventional Surgeons	2023-present
Resident Liaison, Congress of Neurological Surgeons	2016-2020
Cadaver Course Coordinator, University at Buffalo	2014-2018