

Zihan Masood

zihan@nybsj.com

EMPLOYMENT

New York Brain, Spine & Joint, Long Island, NY

Neurosurgeon

EDUCATION

Hospital of University of Pennsylvania, Philadelphia, PA

Department of Neurosurgery

Complex Spine Surgery Fellowship

University of Kansas Medical Center, Kansas City, KS

Neurological Surgery Residency Program

University of Cincinnati College of Medicine, Cincinnati, OH

Doctor of Medicine

University of Cincinnati – Dept. of Molecular and Cellular Physiology, Cincinnati, OH

Master of Science in Physiology

University of North Carolina at Chapel Hill

Bachelor of Arts in Public Policy & Biology

LABORATORY EXPERIENCE

Precision Neural Dynamics Lab

Department of Neurosurgery, Kansas University Medical Center, Kansas City, MO

Research Associate

University of Cincinnati – Dept. of Molecular and Cellular Physiology

Research Assistant – *Effects of histamine on interstitial fluid dynamics*

PUBLICATIONS

Masood, Z., Chung, R. J., Kincaid, J., Turlip, R. W., Chauhan, D., Dagli, M. M., Ahmad, H. S., Gu, B. J., Ghenbot, Y., Yoon, J. W. (2025). Thoracic Stenosis Decompression Using Bi-portal Endoscopic Technique. *Journal of Clinical Neuroscience*.

Chung, R. J., Turlip, R. W., Dagli, M. M., Chauhan, D., Ahmad, H. S., **Masood, Z.**, Gu, B., Ghenbot, Y., & Yoon, J. W. (2025). Direct Percutaneous Repair of Multisegmental Pars Defect Using Biportal Endoscopic Approach: 2-Dimensional Operative Video. *Operative neurosurgery*, August 25, 2025.

Chung, R. J., Chauhan, D., Ahmad, H. S., Turlip, R., Bryan, K., Wang, P., Dagli M., Ghenbot Y., **Masood, Z.** & Yoon, J. W. (2024). Single-Level Endoscopic Transforaminal Lumbar Interbody Fusion With Fluoroscopy-Based Instrument Tracking: A 2-Dimensional Operative Video. *Operative Neurosurgery*, 10-1227.

Masood Z, Domino JS, Gragg A, Burchiel K, Kinsman M, Sharma VD. Deep Brain Stimulation for the Treatment of Hemichorea: Case Series and Literature Review. *Tremor Other Hyperkinet Mov (N Y)*. 2023;13:21.

Alvarado, A. M., **Masood, Z.**, & Woodrow, S. (2022). Cervical syringomyelia with caudal thoracic epidural lipomatosis: case report and literature review. *International Journal of Neuroscience*, 1-7.

Vadivelu, S., **Masood, Z.**, Krueger, B., Marciano, R., Chen, D., Houseman, C., & Insinga, S. (2017).

Long-term resolution of delayed onset hypoglossal nerve palsy following occipital condyle fracture: Case report and review of the literature. *Journal of Craniovertebral Junction and Spine*, 8(2), 149.

ABSTRACTS & PRESENTATIONS

Dagli MM, Gujral J, Ahmad HS, Chauhan D, Turlip R, Bryan K, Wathen CA, Ghenbot Y, Arena JD, Golubovsky JL, **Masood Z**, Gu BJ, Shost M, Shin JH, Ozturk AK, Welch WC, Yoon JW. *Development and Validation of an Artificial Intelligence Model to Predict Reoperation Following Surgical Site Infection Using the ACS NSQIP Database: An Analysis of 96,216 Patients*. E-poster presented at: Spine Summit, AANS; Feb 20-23, 2025; Tampa, FL.

Dagli MM, Ahmad HS, Chauhan D, Turlip R, Bryan K, Wathen CA, Ghenbot Y, Arena JD, Golubovsky JL, **Masood Z**, Gu BJ, Shost M, Shin JH, Ozturk AK, Welch WC, Yoon JW. *Development and Validation of a Novel AI Framework Using NLP with LLM Integration to Automate Clinical Data Extraction and Postoperative Billing: An Analysis of 68,260 Records*. Podium presentation at: Spine Summit, AANS; Feb 20-23, 2025; Tampa, FL.

Z Masood, Y Ghenbot, JW Yoon, “*Technical Feasibility and Safety of Transpedicular Thoracic Corpectomy for Circumferential Decompression of Spinal Cord From Renal Cell Metastasis Using Biportal Endoscopic Technique: An Argument for the Paradigm Shift in Separation Surgery?*” Society for Minimally Invasive Spine Surgery Annual Form 2024, Las Vegas, NV, 8/6/24

D Mafla, M Matloub, **Z Masood**, B Schatmeyer, L Holland, P Landazuri, “*Encephaloceles and Epilepsy, characteristics of our cohort and surgical outcomes in medically refractory epilepsy due to temporal lobe encephaloceles*” 14th annual GME Research Forum May 2022, Kansas City, MO

Z Masood, J Domino, A Gragg, K Burchiel, V Sharma, M Kinsman, “*Deep Brain Stimulation for the treatment of hemichorea: Case Series and Literature Review*” Midwest Neurosurgical Society Annual Meeting, Omaha, NE, 8/14/21

Z Masood, D Gattozi, R Chamoun, “*Surgery vs LITT for failed SRS: Institutional data & review of literature*” Teachenor-Williamson Society, Kansas City, MO, 10/12/19

N Lall, R Radhakrishnan, C Stevenson, **Z Masood**, B Zhang, Y Zhang, B Kline-Fath
“*Imaging Factors Predicting Need for Surgery in Chiari 1 Malformation*” American Society of Neuroradiology 54th Annual Meeting 5/23/16

Z Masood, M Nieman, V Lasko, J Lorenzo, “*Changes in interstitial compliance and fluid mobilization with the H1-receptor antagonist Cetirizine*” Department of Molecular and Cellular Physiology,
Master’s Thesis Poster Presentation, University of Cincinnati College of Medicine, University of Cincinnati

Neurosurgery & Neurology Grand Round Presentations, Kansas University Medical Center, Kansas City, MO
“*Supraorbital Craniotomy for Resection of Aneurysmal Bone Cyst – Case Presentation*”

“*Infratentorial Supracerebellar Approach for Pineal Region Tumor – Case Presentation*”

“*Surgical Treatment Options for Neuropathic Facial Pain*”

“*MRI Guided Focused Ultrasound for Treatment of Movement Disorders*”

“*Nervus Intermedius Neuralgia – Case presentation*”

“*Responsive Neurostimulation Device for Management of Seizures*”

“*Surgical Techniques in Carotid Endarterectomy*”

“*Surgical Management of Intractable Seizures – Corpus Callosotomy*”

“*NF 2 and surgical resection of Spinal Ependymomas Case Presentation*”

“*Surgical Clipping versus endovascular coiling for treatment of ruptured aneurysms*”

AWARDS & LEADERSHIP

Society for Minimally Invasive Spine Surgery Young Surgeon Grant

Quality Improvement Committee

Department of Neurosurgery, Kansas University Medical Center, Kansas City, MO

- Coordinated and helped procure LimiTorr lumbar drain for hospital
- Created & updated post operative pituitary order set on Epic
- Updated neuro critical care post operative order set on Epic

Residents as Teachers Scholars, Kansas University Medical Center

2nd Place Poster Presentation, Master's Thesis Capstone Event, University of Cincinnati

BOARD CERTIFICATIONS

American Board of Neurological Surgery Primary Written Board Exam – Passed

USMLE Step 1

USMLE Step 2 CK

USMLE Step 2 CS

USMLE Step 3

MEDICAL LICENSURE

New York State (337471)

Pennsylvania State Board of Medicine (MD484399)

Florida Board of Medicine (ME170830)

Missouri (2019009619)

DEA License

MEDICAL CERTIFICATIONS

ACLS

BLS

PROFESSIONAL SOCIETIES

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Society for Minimally Invasive Spine Surgery

Midwest Neurosurgical Society