

Zachary Adam Medress

- Affiliate, Dean's Office Operations - Dean Other
- Resident in Neurosurgery

Publications

PUBLICATIONS

- **Predictors of 2-year reoperation in Medicare patients undergoing primary thoracolumbar deformity surgery.** *Journal of neurosurgery. Spine*
Varshneya, K., Jokhai, R. T., Fatemi, P., Stienen, M. N., Medress, Z. A., Ho, A. L., Ratliff, J. K., Veeravagu, A.
2020: 1–5
- **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type** *GLOBAL SPINE JOURNAL*
Varshneya, K., Medress, Z. A., Stienen, M. N., Nathan, J., Ho, A., Pendharkar, A. V., Loo, S., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.
2020
- **Designer, injectable gels to prevent transplanted Schwann cell loss during spinal cord injury therapy.** *Science advances*
Marquardt, L. M., Doulames, V. M., Wang, A. T., Dubbin, K., Suhar, R. A., Kratochvil, M. J., Medress, Z. A., Plant, G. W., Heilshorn, S. C.
2020; 6 (14): eaaz1039
- **Postoperative Complication Burden, Revision Risk, and Health Care Use in Obese Patients Undergoing Primary Adult Thoracolumbar Deformity Surgery** *GLOBAL SPINE JOURNAL*
Varshneya, K., Pangal, D. J., Stienen, M. N., Ho, A. L., Fatemi, P., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.
2020
- **Single- versus dual-attending strategy for spinal deformity surgery: 2-year experience and systematic review of the literature.** *Journal of neurosurgery. Spine*
Cheng, I. n., Stienen, M. N., Medress, Z. A., Varshneya, K. n., Ho, A. L., Ratliff, J. K., Veeravagu, A. n.
2020: 1–12
- **A Predictive-Modeling Based Screening Tool for Prolonged Opioid Use after Surgical Management of Low Back and Lower Extremity Pain.** *The spine journal : official journal of the North American Spine Society*
Zhang, Y. n., Fatemi, P. n., Medress, Z. n., Azad, T. D., Veeravagu, A. n., Desai, A. n., Ratliff, J. K.
2020
- **Complications, Costs, and Quality Outcomes of Patients Undergoing Cervical Deformity Surgery with Intraoperative BMP Use.** *Spine*
Varshneya, K. n., Wadhwa, H. n., Pendharkar, A. V., Medress, Z. A., Stienen, M. N., Ratliff, J. K., Veeravagu, A. n.
2020
- **Commentary: Predictors of the Best Outcomes Following Minimally Invasive Surgery for Grade 1 Degenerative Lumbar Spondylolisthesis.** *Neurosurgery*
Medress, Z. A., Veeravagu, A. n.
2020
- **Postoperative Complication Burden, Revision Risk, and Health Care Use in Obese Patients Undergoing Primary Adult Thoracolumbar Deformity Surgery.** *Global spine journal*
Varshneya, K. n., Pangal, D. J., Stienen, M. N., Ho, A. L., Fatemi, P. n., Medress, Z. A., Herrick, D. B., Desai, A. n., Ratliff, J. K., Veeravagu, A. n.
2020: 2192568220904341
- **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type.** *Global spine journal*
Varshneya, K. n., Medress, Z. A., Stienen, M. N., Nathan, J. n., Ho, A. n., Pendharkar, A. V., Loo, S. n., Aikin, J. n., Li, G. n., Desai, A. n., Ratliff, J. K., Veeravagu, A. n.
2020: 2192568220915717

- **Racial and socioeconomic correlates of treatment and survival among patients with meningioma: a population-based study.** *Journal of neuro-oncology*
Bhambhani, H. P., Rodrigues, A. J., Medress, Z. A., Hayden Gephart, M. n.
2020
- **Risks, costs, and outcomes of cerebrospinal fluid leaks after pediatric skull fractures: a MarketScan analysis between 2007 and 2015** *NEUROSURGICAL FOCUS*
Varshneya, K., Rodrigues, A. J., Medress, Z. A., Stienen, M. N., Grant, G. A., Ratliff, J. K., Veeravagu, A.
2019; 47 (5): E10
- **Trends in Anterior Lumbar Interbody Fusion in the United States: A MarketScan Study From 2007 to 2014.** *Clinical spine surgery*
Varshneya, K., Medress, Z. A., Jensen, M., Azad, T. D., Rodrigues, A., Stienen, M. N., Desai, A., Ratliff, J. K., Veeravagu, A.
2019
- **Simulating Episode-Based Bundled Payments for Cranial Neurosurgical Procedures.** *Neurosurgery*
Medress, Z., Ugiliweneza, B., Parker, J., Wang, D., Burton, E., Boakye, M., Skirboll, S.
2019
- **Grade II Spondylolisthesis: Reverse Bohlman Procedure with Trans-Discal S1-L5 and S2Ai Screws Placed with Robotic Guidance.** *World neurosurgery*
Ho, A. L., Varshneya, K., Medress, Z. A., Pendharkar, A. V., Sussman, E. S., Cheng, I., Veeravagu, A.
2019
- **Stem cell therapies for acute spinal cord injury in humans: a review** *NEUROSURGICAL FOCUS*
Jin, M. C., Medress, Z. A., Azad, T. D., Doulames, V. M., Veeravagu, A.
2019; 46 (3): E10
- **Children with epilepsy demonstrate macro- and microstructural changes in the thalamus, putamen, and amygdala.** *Neuroradiology*
MacEachern, S. J., Santoro, J. D., Hahn, K. J., Medress, Z. A., Stecher, X. n., Li, M. D., Hahn, J. S., Yeom, K. W., Forkert, N. D.
2019
- **Local axonal protection by WldS as revealed by conditional regulation of protein stability** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wang, J. T., Medress, Z. A., Vargas, M. E., Barres, B. A.
2015; 112 (33): 10093-10100
- **Local axonal protection by WldS as revealed by conditional regulation of protein stability.** *Proceedings of the National Academy of Sciences of the United States of America*
Wang, J. T., Medress, Z. A., Vargas, M. E., Barres, B. A.
2015; 112 (33): 10093-10100
- **The role of automatic computer-aided surgical trajectory planning in improving the expected safety of stereotactic neurosurgery** *INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY*
Trobe, M., Shamir, R. R., Joskowicz, L., Medress, Z., Rosenthal, G., Mayer, A., Levin, N., Bick, A., Shoshan, Y.
2015; 10 (7): 1127-1140
- **Molecular and Genetic Predictors of Breast-to-Brain Metastasis: Review and Case Presentation.** *Cureus*
Medress, Z., Hayden Gephart, M.
2015; 7 (1)
- **Cervical Fracture Stabilization within 72 Hours of Injury is Associated with Decreased Hospitalization Costs with Comparable Perioperative Outcomes in a Propensity Score-Matched Cohort.** *Cureus*
Medress, Z., Arrigo, R. T., Hayden Gephart, M., Zygorakis, C. C., Boakye, M.
2015; 7 (1)
- **Pilocytic astrocytoma with IDH1 mutation in the cerebellum of an elderly patient.** *Clinical neuropathology*
Medress, Z. A., Xu, L. W., Ziskin, J. L., Lefterova, M. n., Vogel, H. n., Li, G. n.
2014
- **Axon degeneration: Molecular mechanisms of a self-destruction pathway** *JOURNAL OF CELL BIOLOGY*
Wang, J. T., Medress, Z. A., Barres, B. A.
2012; 196 (1): 7-18