



## John Ratliff, MD, FACS

Professor of Neurosurgery and, by courtesy, of Orthopaedic Surgery

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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### Bio

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#### BIO

Dr. John Ratliff is Professor and Vice Chair of Neurosurgery, Departmental Quality Officer, and Co-Director of the Spine and Peripheral Nerve Surgery Division. As a spine surgeon, he treats a diverse array of degenerative spinal conditions. He has a specific research emphasis on quality improvement, decreasing complications in spine surgery, and improving surgical treatment of intramedullary spinal cord tumors.

Dr. Ratliff is Chair of the Joint AANS/CNS Washington Committee. He has served on the Executive Committee of the Congress of Neurological Surgeons and the Joint Section of Disorders of Spine and Peripheral Nerves, is Recording Secretary for the Council of State Neurosurgical Societies, and is on the Board of Directors of Neuropoint Alliance. He is immediate past-chairman of the joint AANS/CNS Neurosurgery Quality Council.

#### CLINICAL FOCUS

- Adult reconstructive spinal surgery
- Spinal cord neoplasms
- Spinal stenosis
- Minimally invasive spinal surgery
- Spinal metastatic disease
- Spinal disc herniation
- Radiosurgery of spinal tumors
- Peripheral Nerve Neoplasms
- Neurological Surgery

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurosurgery
- Professor - University Medical Line (By courtesy), Orthopaedic Surgery

## **ADMINISTRATIVE APPOINTMENTS**

- Instructor, New York University, Manhattan Veteran's Affairs Medical Center, Bellevue Medical Center, New York University, New York, New York, (2001-2002)
- Assistant Professor, Rush University School of Medicine, Chicago, Illinois, (2002-2005)
- Director of Spine and Peripheral Nerve Surgery, Rush University School of Medicine, Chicago, Illinois, (2002-2005)
- Assistant Professor, Thomas Jefferson University, Philadelphia, Pennsylvania, (2005-2008)
- Associate Professor, Thomas Jefferson University, Philadelphia, Pennsylvania, (2008-2011)
- Chair, Quality Improvement Workgroup, American Association of Neurological Surgeons/Congress of Neurological Surgeons, (2010- present)
- Associate Professor, Stanford University School of Medicine, (2011- present)
- Co-Director, Division of Spine and Peripheral Nerve Surgery, Department of Neurosurgery, Stanford University, (2011- present)
- Vice Chair, Operations and Development, Department of Neurosurgery, Stanford University, (2013- present)
- Member at Large, Congress of Neurological Surgeons, (2014-2016)
- Professor of Neurosurgery, Stanford University School of Medicine, (2016- present)
- Recording Secretary, Council of State Neurosurgical Societies, (2019-2021)
- Chair, Washington Committee, AANS/CNS, (2021-2023)

## **HONORS AND AWARDS**

- Charlie Kuntz Scholar Award, AANS/CNS Disorders of Spine and Peripheral Nerves Joint Section (2016)
- Denise O'Leary Award for Clinical Excellence, Stanford University Hospital and Clinics Board of Directors (2015)
- Top Oral Platform Presentation, AANS/CNS Disorders of Spine and Peripheral Nerves Joint Section (2015)
- Stanford University Department of Neurosurgery Excellence in Education and Mentorship Award, Stanford University Department of Neurosurgery (2013)
- Walsh Foundation Research Grant, Walsh Foundation (2013)
- Orthopedic Research and Education Foundation research grant award, Orthopedic Research and Education Foundation (2012)
- Robert Florin, MD Award for Excellence in Research, American Association of Neurological Surgeons (2010)
- Brandeis University Health Policy Leaders Program Scholarship, American College of Surgeons (2009)
- Chicago Institute for Neurosurgery and Neuroresearch Foundation Research Grant, Chicago Institute of Neurosurgery and Neuroresearch Foundation (2003)

## **PROFESSIONAL EDUCATION**

- Medical Education: Tulane University School of Medicine Registrar (1995) LA
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (2005)
- Fellowship: New York University Medical Center (2002) NY
- Residency: Louisiana State University - New Orleans (2001) LA
- Internship: Louisiana State University - New Orleans (1996) LA
- MD, Tulane Medical School, Medicine (1995)

## **LINKS**

- Lab Site: <http://neurosurgery.stanford.edu/research/ratliff/research.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

At present, I am working on a prospective measure to assess the risk of complications in spine surgery procedures. I am studying the impact of patient disease process, choice of operative approach, and patient pre-operative comorbidities on complication occurrence. The goal of this effort will be to develop a clinical tool that may be used in patient counseling.

Presently, a prospectively developed measure of comorbidities is being modeled to ICD-9 nomenclature for use in the Nationwide Inpatient Sample database.

My longer term research goals are to develop clearer means of assessing outcomes in spine surgery procedures and developing patient-centered outcomes assessments that may be scalable for larger populations.

### CLINICAL TRIALS

- MR Guided High Intensity Focused Ultrasound for Lumbar Back Pain, Not Recruiting
- Restore CLINICAL TRIAL, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Zeyi Zhou

#### Postdoctoral Faculty Sponsor

Renuka Chintapalli

## Publications

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### PUBLICATIONS

- **Health Care Resource Utilization in Management of Opioid-Naive Patients With Newly Diagnosed Neck Pain.** *JAMA network open*  
Jin, M. C., Jensen, M., Zhou, Z., Rodrigues, A., Ren, A., Barros Guinle, M. I., Veeravagu, A., Zygorakis, C. C., Desai, A. M., Ratliff, J. K.  
2022; 5 (7): e2222062
- **Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain.** *JAMA network open*  
Kim, L. H., Vail, D. n., Azad, T. D., Bentley, J. P., Zhang, Y. n., Ho, A. L., Fatemi, P. n., Feng, A. n., Varshneya, K. n., Desai, M. n., Veeravagu, A. n., Ratliff, J. K.  
2019; 2 (5): e193676
- **A machine learning approach for predictive models of adverse events following spine surgery.** *The spine journal : official journal of the North American Spine Society*  
Han, S. S., Azad, T. D., Suarez, P. A., Ratliff, J. K.  
2019
- **Intracranial Hemorrhage in Deep Vein Thrombosis/Pulmonary Embolus Patients Without Atrial Fibrillation: Direct Oral Anticoagulants Versus Warfarin.** *Stroke*  
Lamsam, L., Sussman, E. S., Iyer, A. K., Bhambhani, H. P., Han, S. S., Skirboll, S., Ratliff, J. K.  
2018
- **Initial Provider Specialty is Associated with Long-term Opiate Use in Patients with Newly Diagnosed Low Back and Lower Extremity Pain.** *Spine*  
Azad, T. n., Vail, D. n., Bentley, J. n., Han, S. n., Suarez, P. n., Varshneya, K. n., Mittal, V. n., Veeravagu, A. n., Desai, M. n., Bhattacharya, J. n., Ratliff, J. n.  
2018

- **Predicting complication risk in spine surgery: a prospective analysis of a novel risk assessment tool.** *Journal of neurosurgery. Spine*  
Veeravagu, A., Li, A., Swinney, C., Tian, L., Moraff, A., Azad, T. D., Cheng, I., Alamin, T., Hu, S. S., Anderson, R. L., Shuer, L., Desai, A., Park, et al  
2017; 1-11
- **An assessment of data and methodology of online surgeon scorecards** *JOURNAL OF NEUROSURGERY-SPINE*  
Xu, L. W., Li, A., Swinney, C., Babu, M., Veeravagu, A., Wolfe, S. Q., Nahed, B. V., Ratliff, J. K.  
2017; 26 (2): 235-242
- **Predicting Occurrence of Spine Surgery Complications Using "Big Data" Modeling of an Administrative Claims Database** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*  
Ratliff, J. K., Balise, R., Veeravagu, A., Cole, T. S., Cheng, I., Olshen, R. A., Tian, L.  
2016; 98 (10): 824-834
- **Building an electronic health record integrated quality of life outcomes registry for spine surgery** *JOURNAL OF NEUROSURGERY-SPINE*  
Azad, T. D., Kalani, M., Wolf, T., Kearney, A., Lee, Y., Flannery, L., Chen, D., Berroya, R., Eisenberg, M., Park, J., Shuer, L., Kerr, A., Ratliff, et al  
2016; 24 (1): 176-185
- **Intraoperative Neuromonitoring in Single-Level Spinal Procedures A Retrospective Propensity Score-Matched Analysis in a National Longitudinal Database** *SPINE*  
Cole, T., Veeravagu, A., Zhang, M., Li, A., Ratliff, J. K.  
2014; 39 (23): 1950-1959
- **Usage of Recombinant Human Bone Morphogenetic Protein in Cervical Spine Procedures: Analysis of the MarketScan Longitudinal Database.** *journal of bone and joint surgery. American volume*  
Cole, T., Veeravagu, A., Jiang, B., Ratliff, J. K.  
2014; 96 (17): 1409-1416
- **The perils of comparative effectiveness, cost-effectiveness, and value of care research: lessons learned from washington state.** *Neurosurgery*  
Ratliff, J. K.  
2014; 61: 12-15
- **Impact of bone morphogenetic proteins on frequency of revision surgery, use of autograft bone, and total hospital charges in surgery for lumbar degenerative disease: review of the Nationwide Inpatient Sample from 2002 to 2008** *SPINE JOURNAL*  
Dagostino, P. R., Whitmore, R. G., Smith, G. A., Maltenfort, M. G., Ratliff, J. K.  
2014; 14 (1): 20-30
- **ASA grade and Charlson Comorbidity Index of spinal surgery patients: correlation with complications and societal costs** *SPINE JOURNAL*  
Whitmore, R. G., Stephen, J. H., Vernick, C., Campbell, P. G., Yadla, S., Ghobrial, G. M., Maltenfort, M. G., Ratliff, J. K.  
2014; 14 (1): 31-38
- **Revision rates and complication incidence in single- and multilevel anterior cervical discectomy and fusion procedures: an administrative database study** *THE SPINE JOURNAL*  
Veeravagu, A., Cole, T., Jiang, B., Ratliff, J. K.  
2013
- **Patient comorbidity score predicting the incidence of perioperative complications: assessing the impact of comorbidities on complications in spine surgery** *Clinical article JOURNAL OF NEUROSURGERY-SPINE*  
Campbell, P. G., Yadla, S., Nasser, R., Malone, J., Maltenfort, M. G., Ratliff, J. K.  
2012; 16 (1): 37-43
- **Geographic variation and regional trends in adoption of endovascular techniques for cerebral aneurysms** *JOURNAL OF NEUROSURGERY*  
Smith, G. A., Dagostino, P., Maltenfort, M. G., Dumont, A. S., Ratliff, J. K.  
2011; 114 (6): 1768-1777
- **Comparison of ICD-9 based, retrospective, and prospective assessments of perioperative complications assessment of accuracy in reporting** *Clinical article JOURNAL OF NEUROSURGERY-SPINE*  
Campbell, P. G., Malone, J., Yadla, S., Chitale, R., Nasser, R., Maltenfort, M. G., Vaccaro, A., Ratliff, J. K.  
2011; 14 (1): 16-22
- **Using Machine Learning Models to Identify Factors Associated With 30-Day Readmissions After Posterior Cervical Fusions: A Longitudinal Cohort Study.** *Neurospine*

- Gonzalez-Suarez, A. D., Rezaei, P. G., Herrick, D., Tigchelaar, S. S., Ratliff, J. K., Rusu, M., Scheinker, D., Jeon, I., Desai, A. M.  
2024
- **Getting What You Pay For: Impact of Copayments on Physical Therapy and Opioid Initiation, Timing, and Continuation for Newly Diagnosed Low Back Pain.** *The spine journal : official journal of the North American Spine Society*  
Jin, M. C., Jensen, M., Barros Guinle, M. I., Ren, A., Zhou, Z., Zygourakis, C. C., Desai, A. M., Veeravagu, A., Ratliff, J. K.  
2024
  - **Factors affecting retirement and workforce attrition in neurosurgery: results of a Council of State Neurosurgical Societies national survey.** *Journal of neurosurgery*  
Sharma, A. M., Tenny, S., Yang, G. L., Cheng, J., Ratliff, J. K., Steinmetz, M. P., Krishnamurthy, S., Adogwa, O., Swartz, K.  
2023: 1-10
  - **Contemporary Trends in Minimally Invasive Sacroiliac Joint Fusion Utilization in the Medicare Population by Specialty.** *Neurosurgery*  
Hersh, A. M., Jimenez, A. E., Pellot, K. I., Gong, J. H., Jiang, K., Khalifeh, J. M., Ahmed, A. K., Raad, M., Veeravagu, A., Ratliff, J. K., Jain, A., Lubelski, D., Bydon, et al  
2023
  - **Letter: Commentary: The Anatomy of Devalued Codes: The 63047 and the 22633.** *Neurosurgery*  
Ratliff, J. K., Tumialan, L. M., Orrico, K. O., Cheng, J. S.  
2023
  - **Objective outcome measures may demonstrate continued change in functional recovery in patients with ceiling effects of subjective patient-reported outcome measures after surgery for lumbar degenerative disorders.** *The spine journal : official journal of the North American Spine Society*  
Ziga, M., Sosnova, M., Zeitberger, A. M., Regli, L., Bozinov, O., Weyerbrock, A., Ratliff, J. K., Stienen, M. N., Maldaner, N.  
2023
  - **Representativeness of the American Spine Registry: a comparison of patient characteristics with the National Inpatient Sample.** *Journal of neurosurgery. Spine*  
Bydon, M., Sardar, Z. M., Michalopoulos, G. D., El Sammak, S., Chan, A. K., Carreon, L. Y., Norheim, E., Park, P., Ratliff, J. K., Tumialan, L., Pugely, A. J., Steinmetz, M. P., Hsu, et al  
2023: 1-10
  - **Identification of Factors Associated With 30-Day Readmissions After Posterior Lumbar Fusion Using Machine Learning and Traditional Models: A National Longitudinal Database Study.** *Spine*  
Rezaei, P. G., Herrick, D., Ratliff, J. K., Rusu, M., Scheinker, D., Desai, A. M.  
2023
  - **A Stepwise Replicable Approach to Negotiating Value-driven Supply Chain Contracts for Orthobiologics.** *The Journal of the American Academy of Orthopaedic Surgeons*  
Gupta, A., Lee, J., Chawla, A., Rajagopalan, V., Kohler, M., Moelling, B., McFarlane, K. H., Sheth, K. R., Ratliff, J. K., Hu, S. S., Wall, J. K., Shea, K. G.  
2023
  - **Opioid usage in lumbar disc herniation patients with nonsurgical, early, and late surgical treatments.** *World neurosurgery*  
Zhou, Z., Jin, M. C., Jensen, M. R., Barros Guinle, M. I., Ren, A., Agarwal, A. A., Leaston, J., Ratliff, J. K.  
2023
  - **Trends, Payments, and Costs Associated with BMP Use in Medicare Beneficiaries Undergoing Spinal Fusion.** *The spine journal : official journal of the North American Spine Society*  
Wadhwa, H., Wu, J. Y., Malacon, K., Ames, C., Ratliff, J., Zygourakis, C.  
2023
  - **Quality and patient safety research in pediatric neurosurgery: a review.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*  
Ruiz Colón, G. D., Wu, A., Ratliff, J. K., Prolo, L. M.  
2023
  - **A Protocol for Reducing Intensive Care Utilization After Craniotomy: A 3-Year Assessment.** *Neurosurgery*  
Ruiz Colón, G. D., Ohkuma, R., Pendharkar, A. V., Heifets, B. D., Li, G., Lu, A., Gephart, M. H., Ratliff, J. K.  
2023

- **Neurosurgical Utilization, Charges, and Reimbursement After the Affordable Care Act: Trends From 2011 to 2019.** *Neurosurgery*  
Hersh, A. M., Dedrickson, T., Gong, J. H., Jimenez, A. E., Materi, J., Veeravagu, A., Ratliff, J. K., Azad, T. D.  
2023
- **Utilization Trends, Cost, and Payments for Adult Spinal Deformity Surgery in Commercial and Medicare-Insured Populations.** *Neurosurgery*  
Wadhwa, H., Leung, C., Sklar, M., Ames, C. P., Veeravagu, A., Desai, A., Ratliff, J., Zygourakis, C. C.  
2022
- **Modifiers of and Disparities in Palliative and Supportive Care Timing and Utilization among Neurosurgical Patients with Malignant Central Nervous System Tumors.** *Cancers*  
Jin, M. C., Hsin, G., Ratliff, J., Thomas, R., Zygourakis, C. C., Li, G., Wu, A.  
2022; 14 (10)
- **An integrated risk model stratifying seizure risk following brain tumor resection among seizure-naïve patients without antiepileptic prophylaxis.** *Neurosurgical focus*  
Jin, M. C., Parker, J. J., Prolo, L. M., Wu, A., Halpern, C. H., Li, G., Ratliff, J. K., Han, S. S., Skirboll, S. L., Grant, G. A.  
2022; 52 (4): E3
- **Prediction of Discharge Status and Readmissions after Resection of Intradural Spinal Tumors.** *Neurospine*  
Jin, M. C., Ho, A. L., Feng, A. Y., Medress, Z. A., Pendharkar, A. V., Rezaei, P., Ratliff, J. K., Desai, A. M.  
2022; 19 (1): 133-145
- **Commentary: Loss of Relativity: The Physician Fee Schedule, the Neurosurgeon, and the Trojan Horse** *NEUROSURGERY*  
Tumialan, L. M., Veeravagu, A., Ratliff, J. K.  
2021; 89 (6): E323-E324
- **The impact of osteoporosis on adult deformity surgery outcomes in Medicare patients.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Varshneya, K., Bhattacharjya, A., Jokhai, R. T., Fatemi, P., Medress, Z. A., Stienen, M. N., Ho, A. L., Ratliff, J. K., Veeravagu, A.  
2021
- **Commentary: Loss of Relativity: The Physician Fee Schedule, the Neurosurgeon, and the Trojan Horse.** *Neurosurgery*  
Tumialan, L. M., Veeravagu, A., Ratliff, J. K.  
2021
- **Outcome Measures of Medicare Patients With Diabetes Mellitus Undergoing Thoracolumbar Deformity Surgery.** *Clinical spine surgery*  
Varshneya, K., Bhattacharjya, A., Sharma, J., Stienen, M. N., Medress, Z. A., Ratliff, J. K., Veeravagu, A.  
2021
- **Surgical Outcomes of Human Immunodeficiency Virus-positive Patients Undergoing Lumbar Degenerative Surgery.** *Clinical spine surgery*  
Varshneya, K., Wadhwa, H., Ho, A. L., Medress, Z. A., Stienen, M. N., Desai, A., Ratliff, J. K., Veeravagu, A.  
2021
- **Hemorrhage risk of direct oral anticoagulants in real-world venous thromboembolism patients.** *Thrombosis research*  
Jin, M. C., Sussman, E. S., Feng, A. Y., Han, S. S., Skirboll, S. L., Berube, C., Ratliff, J. K.  
2021; 204: 126-133
- **External validation of a predictive model of adverse events following spine surgery.** *The spine journal : official journal of the North American Spine Society*  
Fatemi, P., Zhang, Y., Han, S. S., Purington, N., Zygourakis, C. C., Veeravagu, A., Desai, A., Park, J., Shuer, L. M., Ratliff, J. K.  
2021
- **Radiolucent carbon fiber-reinforced implants for treatment of spinal tumors- clinical, radiographic, and dosimetric considerations.** *World neurosurgery*  
Takayanagi, A., Siddiqi, I., Ghanchi, H., Lischalk, J., Vrionis, F., Ratliff, J., Bilsky, M., Hariri, O. R.  
2021
- **Factors which predict adverse events following surgery in adults with cervical spinal deformity** *BONE & JOINT JOURNAL*  
Varshneya, K., Jokhai, R., Medress, Z. A., Stienen, M. N., Ho, A., Fatemi, P., Ratliff, J. K., Veeravagu, A.  
2021; 103B (4): 734-38
- **Factors which predict adverse events following surgery in adults with cervical spinal deformity.** *The bone & joint journal*

- Varshneya, K., Jokhai, R., Medress, Z. A., Stienen, M. N., Ho, A., Fatemi, P., Ratliff, J. K., Veeravagu, A.  
2021; 103-B (4): 734–38
- **Telehealth Adoption Across Neurosurgical Subspecialties at a Single Academic Institution During the COVID-19 Pandemic.** *World neurosurgery*  
Leung, C., Wadhwa, H., Sklar, M., Sheth, K., Loo, S., Ratliff, J., Zygourakis, C. C.  
2021
  - **Risk Factors for Revision Surgery After Primary Adult Thoracolumbar Deformity Surgery.** *Clinical spine surgery*  
Varshneya, K., Stienen, M. N., Medress, Z. A., Fatemi, P., Pendharkar, A. V., Ratliff, J. K., Veeravagu, A.  
2021
  - **An Analysis of Public Interest in Elective Neurosurgical Procedures during the COVID-19 Pandemic through Online Search Engine Trends.** *World neurosurgery*  
Feng, A. Y., Garcia, C. A., Jin, M. C., Ho, A. L., Li, G. n., Grant, G. n., Ratliff, J. n., Skirboll, S. L.  
2021
  - **Defining and Describing Treatment Heterogeneity in New-Onset Idiopathic Lower Back and Extremity Pain Through Reconstruction of Longitudinal Care Sequences.** *The spine journal : official journal of the North American Spine Society*  
Jin, M. C., Azad, T. D., Fatemi, P., Ho, A. L., Vail, D., Zhang, Y., Feng, A. Y., Kim, L. H., Bentley, J. P., Stienen, M. N., Li, G., Desai, A. M., Veeravagu, et al  
2021
  - **Anterior Cervical Discectomy and Fusion vs. Laminoplasty for Multilevel Cervical Spondylotic Myelopathy: A National Administrative Database Analysis.** *World neurosurgery*  
Wadhwa, H., Sharma, J., Varshneya, K., Fatemi, P., Nathan, J., Medress, Z. A., Stienen, M. N., Ratliff, J. K., Veeravagu, A.  
2021
  - **Obesity in Patients Undergoing Lumbar Degenerative Surgery-A Retrospective Cohort Study of Postoperative Outcomes.** *Spine*  
Varshneya, K., Wadhwa, H., Stienen, M. N., Ho, A. L., Medress, Z. A., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.  
2021; 46 (17): 1191-1196
  - **Single vs Multistage Surgical Management of Single and Two-Level Lumbar Degenerative Disease.** *World neurosurgery*  
Varshneya, K., Wadhwa, H., Stienen, M. N., Ho, A. L., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.  
2021
  - **Advanced Age Does Not Impact Outcomes After 1-level or 2-level Lateral Lumbar Interbody Fusion.** *Clinical spine surgery*  
Wadhwa, H., Oquendo, Y. A., Tigchelaar, S. S., Warren, S. I., Koltsov, J. C., Desai, A., Veeravagu, A., Alamin, T. F., Ratliff, J. K., Hu, S. S., Cheng, I.  
2021
  - **Status epilepticus after intracranial neurosurgery: incidence and risk stratification by perioperative clinical features.** *Journal of neurosurgery*  
Jin, M. C., Parker, J. J., Zhang, M. n., Medress, Z. A., Halpern, C. H., Li, G. n., Ratliff, J. K., Grant, G. A., Fisher, R. S., Skirboll, S. n.  
2021: 1–13
  - **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*  
Denduluri, S. K., Koltsov, J. C., Ziino, C. n., Segovia, N. n., McMains, C. n., Falakassa, J. n., Ratliff, J. n., Wood, K. B., Alamin, T. n., Cheng, I. n., Hu, S. S.  
2021; 34 (2): E121–E125
  - **Commentary: The Enforceability of Noncompete Clauses in the Medical Profession: A Review by the Workforce Committee and the Medico-legal Committee of the Council of State Neurosurgical Societies.** *Neurosurgery*  
Veeravagu, A., Medress, Z. A., Ratliff, J.  
2020
  - **Fostering Reproducibility and Generalizability in Machine Learning for Clinical Prediction Modeling in Spine Surgery.** *The spine journal : official journal of the North American Spine Society*  
Azad, T. D., Ehresman, J., Ahmed, A. K., Staartjes, V. E., Lubelski, D., Stienen, M. N., Veeravagu, A., Ratliff, J. K.  
2020
  - **Predictive Modeling of Long-Term Opioid and Benzodiazepine Use after Intradural Tumor Resection.** *The spine journal : official journal of the North American Spine Society*  
Jin, M. C., Ho, A. L., Feng, A. Y., Zhang, Y., Staartjes, V. E., Stienen, M. N., Han, S. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.  
2020

- **Can the Charlson Comorbidity Index be used to predict the ASA grade in patients undergoing spine surgery?** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Mannion, A. F., Bianchi, G., Mariaux, F., Fekete, T. F., Reitmeier, R., Moser, B., Whitmore, R. G., Ratliff, J., Haschtman, D.  
2020
- **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*  
Denduluri, S. K., Koltsov, J. C., Ziino, C., Segovia, N., McMains, C., Falakassa, J., Ratliff, J., Wood, K. B., Alamin, T., Cheng, I., Hu, S. S.  
2020
- **The Effect of Socioeconomic Status on Age at Diagnosis and Overall Survival in Patients with Intracranial Meningioma.** *The International journal of neuroscience*  
Brewster, R., Deb, S., Pendharkar, A. V., Ratliff, J., Li, G., Desai, A.  
2020: 1–12
- **Aneurysmal subarachnoid hemorrhage in patients with migraine and tension headache: A cohort comparison study.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Lamsam, L., Bhambhani, H. P., Thomas, A., Ratliff, J. K., Moore, J. M.  
2020; 79: 90–94
- **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: 2192568220915717
- **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.  
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