



Anand Veeravagu

Assistant Professor of Neurosurgery and, by courtesy, of Orthopaedic Surgery at the Stanford University Medical Center

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

213 Quarry Rd Rm 2851

MC 5957

Palo Alto, CA 94304

Tel (650) 723-6469

Fax (650) 725-0390

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Jacqueline Ventura - Administrative Associate

Email venturaj@stanford.edu

Tel (650)723-0320

Bio

BIO

Dr. Anand Veeravagu is Assistant Professor of Neurosurgery and Assistant Professor of Orthopedic Surgery, by courtesy, and Director of Minimally Invasive NeuroSpine Surgery here at Stanford. Dr. Veeravagu is focused on advancing minimally invasive surgical techniques for diseases of the spine and cares for patients with a wide range of spinal disorders.

Dr. Veeravagu graduated from the Johns Hopkins University Biomedical Engineering program with a focus on spinal cord injury and regeneration. Committed to medical device development, neuroregeneration, and non-invasive imaging he accepted a position to complete his MD at the Stanford University School of Medicine. While a medical student, Dr. Veeravagu worked with neurosurgery and the molecular imaging program to develop novel, non-invasive imaging tools and treatments for malignant neoplasms of central nervous system.

Dr. Veeravagu subsequently completed his neurosurgical residency at Stanford University. As a resident, Dr. Veeravagu was appointed by the President of the United States as a White House Fellow in 2012, serving as Special Assistant to Secretary of Defense Leon Panetta and Chuck Hagel to guide Department of Defense Policy on traumatic brain injury, spinal cord injury, and mental health treatment for the United States military. One of 14 people from around the nation to be selected, Dr. Veeravagu served as a speech writer, national security advisor, and health consultant directly to the Secretary of Defense.

After completion of his neurosurgical residency, Dr. Veeravagu was awarded the prestigious Neurosurgical Research and Education Foundation Post-Residency Clinical Fellowship Grant and completed his fellowship training in minimally invasive and complex deformity spine at Stanford University with both neurosurgical and orthopaedic training. Dr. Veeravagu also completed a clinical scholar rotation at the University of Miami Miller School of Medicine focused on endoscopic and robotic spine surgery.

Dr. Veeravagu's research efforts are focused on the utilization of large national databases to assess cost, quality, and effectiveness of various treatment algorithms as well as predictive analytics. Dr. Veeravagu is also an author and writes about current events, health policy, and public health-related topics for the San Francisco Chronicle, The Daily Beast, The BBC, and the Huffington Post.

CLINICAL FOCUS

- Neurosurgery
- Spine Surgery
- Minimally Invasive Spine Surgery
- Complex Deformity and Scoliosis Spine Surgery
- Robotic Spine Surgery
- Spinal Oncology
- spondylolisthesis
- artificial disc replacement
- Degenerative Disc Disease
- Adult reconstructive spinal surgery
- Spinal cord neoplasms
- Spinal metastatic disease
- spinal stenosis
- Spine Radiation Therapy & Radiosurgery

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Neurosurgery
- Assistant Professor - Med Center Line (By courtesy), Orthopaedic Surgery

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Hospital and Clinics (2016) CA
- Fellowship, University of Miami School of Medicine , Clinical Scholar in Spinal Robotics and Minimally Invasive Spine Surgery (2016)
- Fellowship, Stanford University , Minimally Invasive and Complex Deformity Spine Neurosurgery (2016)
- Residency: Stanford University (2015)
- Internship: Stanford University (2010) CA
- Medical Education: Stanford University School of Medicine (2009) CA
- Bachelor of Science, Johns Hopkins University , Biomedical Engineering, conc. Electrical Engineering & Minor: Multicultural and Regional Studies (2005)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The focus of my laboratory is to utilize precision medicine techniques to improve the diagnosis and treatment of neurologic conditions. From traumatic brain injury to spinal scoliosis, the ability to capture detailed data regarding clinical symptoms and treatment outcomes has empowered us to do better for patients. Utilize data to do better for patients, that's what we do.

Stanford Neurosurgical Ai and Machine Learning Lab

<http://med.stanford.edu/neurosurgery/research/AILab.html>

CLINICAL TRIALS

- Dexamethasone With or Without Thalidomide in Treating Patients With Newly Diagnosed Multiple Myeloma, Not Recruiting

Publications

PUBLICATIONS

- **Patient Satisfaction and Press Ganey Scores for Spine Versus Nonspine Neurosurgery Clinics.** *Clinical spine surgery*
Chen, Y., Johnson, E., Montalvo, C., Stratford, S., Veeravagu, A., Tharin, S., Desai, A., Ratliff, J., Shuer, L., Park, J.
2019
- **Socioeconomic Predictors of Surgical Resection and Survival for Patients With Osseous Spinal Neoplasms** *CLINICAL SPINE SURGERY*

- Deb, S., Brewster, R., Pendharkar, A., Veeravagu, A., Ratliff, J., Desai, A.
2019; 32 (3): 125–31
- **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
 - **Objective measures of functional impairment for degenerative diseases of the lumbar spine: a systematic review of the literature.** *The spine journal : official journal of the North American Spine Society*
Stienen, M. N., Ho, A. L., Staartjes, V. E., Maldaner, N., Veeravagu, A., Desai, A., Gautschi, O. P., Bellut, D., Regli, L., Ratliff, J. K., Park, J.
2019
 - **Initial Provider Specialty Is Associated With Long-term Opiate Use in Patients With Newly Diagnosed Low Back and Lower Extremity Pain** *SPINE*
Azad, T. D., Vail, D., Bentley, J., Han, S. S., Suarez, P., Varshneya, K., Mittal, V., Veeravagu, A., Desai, M., Bhattacharya, J., Ratliff, J. K.
2019; 44 (3): 211–18
 - **Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain.** *JAMA network open*
Kim, L. H., Vail, D., Azad, T. D., Bentley, J. P., Zhang, Y., Ho, A. L., Fatemi, P., Feng, A., Varshneya, K., Desai, M., Veeravagu, A., Ratliff, J. K.
2019; 2 (5): e193676
 - **Lumboperitoneal and Ventriculoperitoneal Shunting for Idiopathic Intracranial Hypertension Demonstrate Comparable Failure and Complication Rates.** *Neurosurgery*
Azad, T. D., Zhang, Y., Varshneya, K., Veeravagu, A., Ratliff, J. K., Li, G.
2019
 - **Spine. Operative neurosurgery (Hagerstown, Md.)**
Ahmad, F. U., Bisson, E. F., Burks, S. S., Chang, J. J., Chugh, A. J., Côté, I., Frerich, J. M., Gersey, Z. C., Hendricks, B. K., Karsy, M., Kasliwal, M., Krause, K. L., Manzano, et al
2019
 - **Utility of cervical collars following cervical fusion surgery; does it improve fusion rates or outcomes? A systematic review.** *World neurosurgery*
Karikari, I., Ghogawala, Z., Ropper, A., Yavin, D., Gabr, M., Goodwin, C. R., Abd-El-Barr, M., Veeravagu, A., Wang, M. C.
2018
 - **Socioeconomic Predictors of Surgical Resection and Survival for Patients With Osseous Spinal Neoplasms.** *Clinical spine surgery*
Deb, S., Brewster, R., Pendharkar, A. V., Veeravagu, A., Ratliff, J., Desai, A.
2018
 - **Intraoperative analgesic regimens and surgical duration after spine surgery Response** *NEUROSURGICAL FOCUS*
O'Connell, C., Sun, E., Ratliff, J. K., Veeravagu, A.
2018; 45 (3)
 - **Outpatient spine surgery: defining the outcomes, value, and barriers to implementation.** *Neurosurgical focus*
Pendharkar, A. V., Shahin, M. N., Ho, A. L., Sussman, E. S., Purger, D. A., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2018; 44 (5): E11
 - **Propensity-matched comparison of outcomes and cost after macroscopic and microscopic lumbar discectomy using a national longitudinal database.** *Neurosurgical focus*
Pendharkar, A. V., Rezaei, P. G., Ho, A. L., Sussman, E. S., Purger, D. A., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2018; 44 (5): E12
 - **Geographic variation in the surgical management of lumbar spondylolisthesis: characterizing practice patterns and outcomes.** *The spine journal : official journal of the North American Spine Society*
Azad, T. D., Vail, D., O'Connell, C., Han, S. S., Veeravagu, A., Ratliff, J. K.
2018
 - **Surgical outcomes of pediatric spinal cord astrocytomas: systematic review and meta-analysis.** *Journal of neurosurgery. Pediatrics*
Azad, T. D., Pendharkar, A. V., Pan, J., Huang, Y., Li, A., Esparza, R., Mehta, S., Connolly, I. D., Veeravagu, A., Campen, C. J., Cheshier, S. H., Edwards, M. S., Fisher, et al
2018: 1–7

- **Initial Provider Specialty is Associated with Long-term Opiate Use in Patients with Newly Diagnosed Low Back and Lower Extremity Pain.** *Spine*
Azad, T., Vail, D., Bentley, J., Han, S., Suarez, P., Varshneya, K., Mittal, V., Veeravagu, A., Desai, M., Bhattacharya, J., Ratliff, J.
2018
- **Stabilization of the Craniocervical Junction Following Resection of Chordomas and Chondrosarcomas of the Skull Base and Spine** *CHORDOMAS AND CHONDROSARCOMAS OF THE SKULL BASE AND SPINE, 2ND EDITION*
Azad, T. D., Veeravagu, A., Ravikumar, V., Ratliff, J. K., Harsh, G. R., VazGuimaraes, F.
2018: 271–78
- **Long-Term Effectiveness of Gross-Total Resection for Symptomatic Spinal Cord Cavernous Malformations.** *Neurosurgery*
Azad, T. D., Veeravagu, A., Li, A., Zhang, M., Madhugiri, V., Steinberg, G. K.
2018
- **Preoperative depression, lumbar fusion, and opioid use: an assessment of postoperative prescription, quality, and economic outcomes.** *Neurosurgical focus*
O'Connell, C., Azad, T. D., Mittal, V., Vail, D., Johnson, E., Desai, A., Sun, E., Ratliff, J. K., Veeravagu, A.
2018; 44 (1): E5
- **Impact of Inpatient Venous Thromboembolism Continues After Discharge: Retrospective Propensity Scored Analysis in a Longitudinal Database** *CLINICAL SPINE SURGERY*
Li, A. Y., Azad, T. D., Veeravagu, A., Bhatti, I., Li, A., Cole, T., Desai, A., Ratliff, J. K.
2017; 30 (10): E1392–E1398
- **Endoscope-Assisted Abscess Drainage Secondary to Endoscope-Assisted Transforaminal Lumbar Interbody Fusion: 1-Year Follow-Up** *WORLD NEUROSURGERY*
Madhavan, K., Burks, S., Chieng, L., Veeravagu, A., Wang, M. Y.
2017; 107: 511–14
- **Surgeon Procedure Volume and Complication Rates in Anterior Cervical Discectomy and Fusions: Analysis of a National Longitudinal Database.** *Clinical spine surgery*
Cole, T., Veeravagu, A., Zhang, M., Ratliff, J. K.
2017; 30 (5): E633-E639
- **Cranioplasty Complications and Costs: A National Population-Level Analysis Using the MarketScan Longitudinal Database.** *World neurosurgery*
Li, A., Azad, T. D., Veeravagu, A., Bhatti, I., Long, C., Ratliff, J. K., Li, G.
2017; 102: 209-220
- **Outpatient vs Inpatient Anterior Cervical Discectomy and Fusion: A Population-Level Analysis of Outcomes and Cost.** *Neurosurgery*
Purger, D. A., Pendharkar, A. V., Ho, A. L., Sussman, E. S., Yang, L., Desai, M., Veeravagu, A., Ratliff, J. K., Desai, A.
2017
- **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
- **Microsurgical vs. Endoscopic Excision of Colloid Cysts: An Analysis of Complications and Costs Using a Longitudinal Administrative Database.** *Frontiers in neurology*
Connolly, I. D., Johnson, E., Lamsam, L., Veeravagu, A., Ratliff, J., Li, G.
2017; 8: 259
- **Endoscopic vs. Microscopic Resection of Sellar Lesions—A Matched Analysis of Clinical and Socioeconomic Outcomes.** *Frontiers in surgery*
Azad, T. D., Lee, Y. J., Vail, D., Veeravagu, A., Hwang, P. H., Ratliff, J. K., Li, G.
2017; 4: 33
- **Outcomes of cervical laminoplasty—Population-level analysis of a national longitudinal database.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Veeravagu, A., Azad, T. D., Zhang, M., Li, A., Pendharkar, A. V., Ratliff, J. K., Shuer, L. M.

2017

- **Postoperative Opioid Use, Complications, and Costs in Surgical Management of Lumbar Spondylolisthesis.** *Spine*
Vail, D., Azad, T. D., O'Connell, C., Han, S. S., Veeravagu, A., Ratliff, J. K.
2017
- **Diagnostic Utility of Intraoperative Neurophysiological Monitoring for Intramedullary Spinal Cord Tumors: Systematic Review and Meta-Analysis.** *Clinical spine surgery*
Azad, T. D., Pendharkar, A. V., Nguyen, V., Pan, J., Connolly, I. D., Veeravagu, A., Popat, R., Ratliff, J. K., Grant, G. A.
2017
- **Spontaneous Intrauterine Depressed Skull Fractures: Report of Two Cases Requiring Neurosurgical Intervention and Literature Review.** *World neurosurgery*
Veeravagu, A., Azad, T. D., Jiang, B., Edwards, M. S.
2017
- **Neurosurgical Randomized Controlled Trials-Distance Travelled.** *Neurosurgery*
Azad, T. D., Veeravagu, A., Mittal, V., Esparza, R., Johnson, E., Ioannidis, J. P., Grant, G. A.
2017
- **CyberKnife stereotactic radiosurgery for the treatment of symptomatic vertebral hemangiomas: a single-institution experience** *NEUROSURGICAL FOCUS*
Zhang, M., Chen, Y., Chang, S. D., Veeravagu, A.
2017; 42 (1)
- **Cervical Osteochondroma Causing Myelopathy in Adults: Management Considerations and Literature Review** *WORLD NEUROSURGERY*
Veeravagu, A., Li, A., Shuer, L. M., Desai, A. M.
2017; 97
- **Biopsy versus resection for the management of low-grade gliomas** *COCHRANE DATABASE OF SYSTEMATIC REVIEWS*
Jiang, B., Chaichana, K., Veeravagu, A., Chang, S. D., Black, K. L., Patil, C. G.
2017
- **Optimization of tumor resection with intra-operative magnetic resonance imaging** *JOURNAL OF CLINICAL NEUROSCIENCE*
Swinney, C., Li, A., Bhatti, I., Veeravagu, A.
2016; 34: 11-14
- **Cervical Fracture/Subluxation in a Patient with a Prior C2-Sacrum Fusion: Case Report and Review of Literature.** *Cureus*
Chen, Y., Chan, A. Y., Kumar, K. K., Veeravagu, A.
2016; 8 (11)
- **Cervical Osteochondroma Causing Myelopathy in Adults: Management Considerations and Literature Review.** *World neurosurgery*
Veeravagu, A., Li, A., Shuer, L. M., Desai, A. M.
2016
- **Impact of Inpatient Venous Thromboembolism Continues After Discharge: Retrospective Propensity Scored Analysis in a Longitudinal Database.** *Clinical spine surgery*
Li, A. Y., Azad, T. D., Veeravagu, A., Bhatti, I., Li, A., Cole, T., Desai, A., Ratliff, J. K.
2016: -?
- **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.
2016: 1-8
- **Complications, Readmissions, and Revisions for Spine Procedures Performed by Orthopedic Surgeons Versus Neurosurgeons: A Retrospective, Longitudinal Study.** *Clinical spine surgery*
Mabud, T., Norden, J., Veeravagu, A., Swinney, C., Cole, T., McCutcheon, B. A., Ratliff, J.
2016: -?
- **Surgeon Procedure Volume and Complication Rates in Anterior Cervical Discectomy and Fusions: Analysis of a National Longitudinal Database.** *Clinical spine surgery*

- Cole, T., Veeravagu, A., Zhang, M., Ratliff, J. K.
2016: -?
- **Delayed Presentation of Sciatic Nerve Injury after Total Hip Arthroplasty: Neurosurgical Considerations, Diagnosis, and Management.** *Journal of neurological surgery reports*
Xu, L. W., Veeravagu, A., Azad, T. D., Harraher, C., Ratliff, J. K.
2016; 77 (3): e134-8
 - **Surgical outcomes of cervical spondylotic myelopathy: an analysis of a national, administrative, longitudinal database.** *Neurosurgical focus*
Veeravagu, A., Connolly, I. D., Lamsam, L., Li, A., Swinney, C., Azad, T. D., Desai, A., Ratliff, J. K.
2016; 40 (6): E11-?
 - **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
 - **Neurorestoration after stroke** *NEUROSURGICAL FOCUS*
Azad, T. D., Veeravagu, A., Steinberg, G. K.
2016; 40 (5)
 - **Abducens Nerve Avulsion and Facial Nerve Palsy After Temporal Bone Fracture: A Rare Concomitance of Injuries.** *World neurosurgery*
Azad, T. D., Veeravagu, A., Corrales, C. E., Chow, K. K., Fischbein, N. J., Harris, O. A.
2016; 88: 689 e5-8
 - **Junior Seau: An Illustrative Case of Chronic Traumatic Encephalopathy and Update on Chronic Sports-Related Head Injury** *WORLD NEUROSURGERY*
Azad, T. D., Li, A., Pendharkar, A. V., Veeravagu, A., Grant, G. A.
2016; 86
 - **A brief history of endoscopic spine surgery.** *Neurosurgical focus*
Telfeian, A. E., Veeravagu, A., Oyelese, A. A., Gokaslan, Z. L.
2016; 40 (2): E2-?
 - **Postoperative Visual Loss Following Lumbar Spine Surgery: A Review of Risk Factors by Diagnosis** *WORLD NEUROSURGERY*
Li, A., Swinney, C., Veeravagu, A., Bhatti, I., Ratliff, J.
2015; 84 (6): 2010-2021
 - **Craniotomy for Resection of Meningioma: An Age-Stratified Analysis of the MarketScan Longitudinal Database** *WORLD NEUROSURGERY*
Connolly, I. D., Cole, T., Veeravagu, A., Popat, R., Ratliff, J., Li, G.
2015; 84 (6): 1864-1870
 - **Improved capture of adverse events after spinal surgery procedures with a longitudinal administrative database** *JOURNAL OF NEUROSURGERY-SPINE*
Veeravagu, A., Cole, T. S., Azad, T. D., Ratliff, J. K.
2015; 23 (3): 374-382
 - **Improved capture of adverse events after spinal surgery procedures with a longitudinal administrative database.** *Journal of neurosurgery. Spine*
Veeravagu, A., Cole, T. S., Azad, T. D., Ratliff, J. K.
2015; 23 (3): 374-382
 - **Anterior Versus Posterior Approach for Multilevel Degenerative Cervical Disease A Retrospective Propensity Score-Matched Study of the MarketScan Database** *SPINE*
Cole, T., Veeravagu, A., Zhang, M., Azad, T. D., Desai, A., Ratliff, J. K.
2015; 40 (13): 1033-1038
 - **Anterior Versus Posterior Approach for Multilevel Degenerative Cervical Disease: A Retrospective Propensity Score-Matched Study of the MarketScan Database.** *Spine*
Cole, T., Veeravagu, A., Zhang, M., Azad, T. D., Desai, A., Ratliff, J. K.
2015; 40 (13): 1033-1038
 - **Nelson Syndrome: Update on Therapeutic Approaches** *WORLD NEUROSURGERY*
Azad, T. D., Veeravagu, A., Kumar, S., Katznelson, L.

2015; 83 (6): 1135-1140

- **Nelson Syndrome: Update on Therapeutic Approaches.** *World neurosurgery*
Azad, T. D., Veeravagu, A., Kumar, S., Katznelson, L.
2015; 83 (6): 1135-1140
- **Perspective on "the role of adjuvant radiotherapy after gross total resection of atypical meningiomas".** *World neurosurgery*
Veeravagu, A., Azad, T. D., Chang, S. D.
2015; 83 (5): 737-738
- **National trends in burn and inhalation injury in burn patients: results of analysis of the nationwide inpatient sample database.** *Journal of burn care & research*
Veeravagu, A., Yoon, B. C., Jiang, B., Carvalho, C. M., Rincon, F., Maltenfort, M., Jallo, J., Ratliff, J. K.
2015; 36 (2): 258-265
- **Intracranial fat migration: A newly described complication of autologous fat repair of a cerebrospinal fluid leak following supracerebellar infratentorial approach.** *International journal of surgery case reports*
Ludwig, C. A., Aujla, P., Moreno, M., Veeravagu, A., Li, G.
2015; 7C: 1-5
- **Retrosigmoid Versus Translabyrinthine Approach for Acoustic Neuroma Resection: An Assessment of Complications and Payments in a Longitudinal Administrative Database.** *Cure-us*
Cole, T., Veeravagu, A., Zhang, M., Azad, T., Swinney, C., Li, G. H., Ratliff, J. K., Giannotta, S. L.
2015; 7 (10)
- **The use of bone morphogenetic protein in thoracolumbar spine procedures: analysis of the MarketScan longitudinal database** *SPINE JOURNAL*
Veeravagu, A., Cole, T. S., Jiang, B., Ratliff, J. K., Gidwani, R. A.
2014; 14 (12): 2929-2937
- **The use of bone morphogenetic protein in thoracolumbar spine procedures: analysis of the MarketScan longitudinal database.** *spine journal*
Veeravagu, A., Cole, T. S., Jiang, B., Ratliff, J. K., Gidwani, R. A.
2014; 14 (12): 2929-2937
- **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
- **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
- **Usage of Recombinant Human Bone Morphogenetic Protein in Cervical Spine Procedures** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Cole, T., Veeravagu, A., Jiang, B., Ratliff, J. K.
2014; 96A (17): 1409-1416
- **Acute Lung Injury in Patients with Subarachnoid Hemorrhage: A Nationwide Inpatient Sample Study** *WORLD NEUROSURGERY*
Veeravagu, A., Chen, Y., Ludwig, C., Rincon, F., Maltenfort, M., Jallo, J., Choudhri, O., Steinberg, G. K., Ratliff, J. K.
2014; 82 (1-2): E235-E241
- **Acute lung injury in patients with subarachnoid hemorrhage: a nationwide inpatient sample study.** *World neurosurgery*
Veeravagu, A., Chen, Y., Ludwig, C., Rincon, F., Maltenfort, M., Jallo, J., Choudhri, O., Steinberg, G. K., Ratliff, J. K.
2014; 82 (1-2): e235-41

- **Revision rates and complication incidence in single- and multilevel anterior cervical discectomy and fusion procedures: an administrative database study.** *spine journal*
Veeravagu, A., Cole, T., Jiang, B., Ratliff, J. K.
2014; 14 (7): 1125-1131
- **Revision rates and complication incidence in single- and multilevel anterior cervical discectomy and fusion procedures: an administrative database study** *SPINE JOURNAL*
Veeravagu, A., Cole, T., Jiang, B., Ratliff, J. K.
2014; 14 (7): 1125-1131
- **Neurosurgical interventions for spondyloepiphyseal dysplasia congenita: clinical presentation and assessment of the literature.** *World neurosurgery*
Veeravagu, A., Lad, S. P., Camara-Quintana, J. Q., Jiang, B., Shuer, L.
2013; 80 (3-4): 437 e1-8
- **CyberKnife radiosurgery for the management of skull base and spinal chondrosarcomas.** *Journal of neuro-oncology*
Jiang, B., Veeravagu, A., Feroze, A. H., Lee, M., Harsh, G. R., Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D.
2013; 114 (2): 209-218
- **Volumetric Analysis of Intracranial Arteriovenous Malformations Contoured for CyberKnife Radiosurgery With 3-Dimensional Rotational Angiography vs Computed Tomography/Magnetic Resonance Imaging.** *Neurosurgery*
Veeravagu, A., Hansasuta, A., Jiang, B., Karim, A. S., Gibbs, I. C., Chang, S. D.
2013; 73 (2): 262-270
- **Fungal infection of a ventriculoperitoneal shunt: histoplasmosis diagnosis and treatment.** *World neurosurgery*
Veeravagu, A., Ludwig, C., Camara-Quintana, J. Q., Jiang, B., Lad, N., Shuer, L.
2013; 80 (1-2): 222 e5-13
- **Fungal infection of a ventriculoperitoneal shunt: histoplasmosis diagnosis and treatment.** *World neurosurgery*
Veeravagu, A., Ludwig, C., Camara-Quintana, J. Q., Jiang, B., Lad, N., Shuer, L.
2013; 80 (1-2): 222 e5-222 e13
- **Acute respiratory distress syndrome and acute lung injury in patients with vertebral column fracture(s) and spinal cord injury: a nationwide inpatient sample study** *SPINAL CORD*
Veeravagu, A., Jiang, B., Rincon, F., Maltenfort, M., Jallo, J., Ratliff, J. K.
2013; 51 (6): 461-465
- **Brain tuberculoma in a non-endemic area.** *Infectious disease reports*
Lober, R. M., Veeravagu, A., Singh, H.
2013; 5 (1)
- **Biopsy versus resection for the management of low-grade gliomas.** *Cochrane database of systematic reviews*
Veeravagu, A., Jiang, B., Ludwig, C., Chang, S. D., Black, K. L., Patil, C. G.
2013; 4: CD009319-?
- **Traumatic epistaxis: Skull base defects, intracranial complications and neurosurgical considerations.** *International journal of surgery case reports*
Veeravagu, A., Joseph, R., Jiang, B., Lober, R. M., Ludwig, C., Torres, R., Singh, H.
2013; 4 (8): 656-661
- **Spontaneous intracranial hypotension secondary to anterior thoracic osteophyte: Resolution after primary dural repair via posterior approach.** *International journal of surgery case reports*
Veeravagu, A., Gupta, G., Jiang, B., Berta, S. C., Mindea, S. A., Chang, S. D.
2013; 4 (1): 26-29
- **CyberKnife stereotactic radiosurgery for the treatment of intramedullary spinal cord metastases** *JOURNAL OF CLINICAL NEUROSCIENCE*
Veeravagu, A., Lieberston, R. E., Mener, A., Chen, Y., Soltys, S. G., Gibbs, I. C., Adler, J. R., Tian, A. G., Chang, S. D.
2012; 19 (9): 1273-1277
- **The effect of centralization of caseload for primary brain tumor surgeries: trends from 2001-2007** *ACTA NEUROCHIRURGICA*
Nuno, M., Mukherjee, D., Carico, C., Elramsisy, A., Veeravagu, A., Black, K. L., Patil, C. G.
2012; 154 (8): 1343-1350

- **Management of intracranial and extracranial chordomas with CyberKnife stereotactic radiosurgery** *JOURNAL OF CLINICAL NEUROSCIENCE*
Jiang, B., Veeravagu, A., Lee, M., Harsh, G. R., Lieberson, R. E., Bhatti, I., Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D.
2012; 19 (8): 1101-1106
- **Renal Osteodystrophy: Neurosurgical Considerations and Challenges** *WORLD NEUROSURGERY*
Veeravagu, A., Ponnusamy, K., Jiang, B., Bydon, M., McGirt, M., Gottfried, O. N., Witham, T., Gokaslan, Z. L., Bydon, A.
2012; 78 (1-2)
- **Intramedullary spinal cord metastasis from prostate carcinoma: a case report.** *Journal of medical case reports*
Lieberson, R. E., Veeravagu, A., Eckermann, J. M., Doty, J. R., Jiang, B., Andrews, R., Chang, S. D.
2012; 6 (1): 139-?
- **CyberKnife Stereotactic Radiosurgery for Recurrent, Metastatic, and Residual Hemangiopericytomas** *JOURNAL OF HEMATOLOGY & ONCOLOGY*
Veeravagu, A., Jiang, B., Patil, C. G., Lee, M., Soltys, S. G., Gibbs, I. C., Chang, S. D.
2011; 4
- **Craniotomy for resection of meningioma in the elderly: a multicentre, prospective analysis from the National Surgical Quality Improvement Program** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*
Patil, C. G., Veeravagu, A., Lad, S. P., Boakye, M.
2010; 81 (5): 502-505
- **The role of radiosurgery in the treatment of craniopharyngiomas** *NEUROSURGICAL FOCUS*
Veeravagu, A., Lee, M., Jiang, B., Chang, S. D.
2010; 28 (4)
- **Resolution of syringomyelia after release of tethered cord** *SURGICAL NEUROLOGY*
Hsu, A. R., Hou, L. C., Veeravagu, A., Barnes, P. D., Huhn, S. L.
2009; 72 (6): 657-661
- **HMG-CoA Reductase Inhibition Causes Increased Necrosis and Apoptosis in an In Vivo Mouse Glioblastoma Multiforme Model** *ANTICANCER RESEARCH*
Bababegy, S. R., Polevaya, N. V., Youssef, S., Sun, A., Xiong, A., Prugpichailers, T., Veeravagu, A., Hou, L. C., Steinman, L., Tse, V.
2009; 29 (12): 4901-4908
- **Risk Factors for Postoperative Spinal Wound Infections After Spinal Decompression and Fusion Surgeries** *SPINE*
Veeravagu, A., Patil, C. G., Lad, S. P., Boakye, M.
2009; 34 (17): 1869-1872
- **Integrin alpha(v)beta(3)-Targeted Radioimmunotherapy of Glioblastoma Multiforme** *CLINICAL CANCER RESEARCH*
Veeravagu, A., Liu, Z., Niu, G., Chen, K., Jia, B., Cai, W., Jin, C., Hsu, A. R., Connolly, A. J., Tse, V., Wang, F., Chen, X.
2008; 14 (22): 7330-7339
- **The temporal correlation of dynamic contrast-enhanced magnetic resonance imaging with tumor angiogenesis in a murine glioblastoma model** *56th Annual Meeting of the Congress-of-Neurological-Surgeons*
Veeravagu, A., Hou, L. C., Hsu, A. R., Cai, W., Greve, J. M., Chen, X., Tse, V.
MANEY PUBLISHING.2008: 952-59
- **The Cancer Stem Cell-Vascular Niche Complex in Brain Tumor Formation** *STEM CELLS AND DEVELOPMENT*
Veeravagu, A., Bababegy, S. R., Kalani, M. Y., Hou, L. C., Tse, V.
2008; 17 (5): 859-867
- **Outcomes after repeat transsphenoidal surgery for recurrent Cushing's disease** *NEUROSURGERY*
Patil, C. G., Veeravagu, A., Prevedello, D. A., Katznelson, L., Vance, M. L., Laws, E. R., Kelly, D. F., Oyesiku, N. M., Post, K. D., Esposito, F., Cappabianca, P.
2008; 63 (2): 266-271
- **Moyamoya disease in pediatric patients: outcomes of neurosurgical interventions** *NEUROSURGICAL FOCUS*
Veeravagu, A., Guzman, R., Patil, C. G., Hou, L. C., Lee, M., Steinberg, G. K.
2008; 24 (2)
- **Glutaric acidemia type I: a neurosurgical perspective** *JOURNAL OF NEUROSURGERY*

- Hou, L. C., Veeravagu, A., Hsu, A. R., Enns, G. M., Huhn, S. L.
2007; 107 (2): 167-172
- **Integrin alpha(v)beta(3) antagonists for anti-angiogenic cancer treatment** *RECENT PATENTS ON ANTI-CANCER DRUG DISCOVERY*
Hsu, A. R., Veeravagu, A., Cai, W., Hou, L. C., Tse, V., Chen, X.
2007; 2 (2): 143-158
 - **Multimodality molecular imaging of glioblastoma growth inhibition with vasculature-targeting fusion toxin VEGF(121)/rGel** *JOURNAL OF NUCLEAR MEDICINE*
Hsu, A. R., Cai, W., Veeravagu, A., Mohamedali, K. A., Chen, K., Kim, S., Vogel, H., Hou, L. C., Tse, V., Rosenblum, M. G., Chen, X.
2007; 48 (3): 445-454
 - **Molecular events of brain metastasis.** *Neurosurgical focus*
Santarelli, J. G., Sarkissian, V., Hou, L. C., Veeravagu, A., Tse, V.
2007; 22 (3): E1-?
 - **Spinal gout in a renal transplant patient: a case report and literature review** *SURGICAL NEUROLOGY*
Hou, L. C., Hsu, A. R., Veeravagu, A., Boakye, M.
2007; 67 (1): 65-73
 - **Vascular endothelial growth factor and vascular endothelial growth factor receptor inhibitors as anti-angiogenic agents in cancer therapy** *RECENT PATENTS ON ANTI-CANCER DRUG DISCOVERY*
Veeravagu, A., Hsu, A. R., Cai, W., Hou, L. C., Tse, V. C., Chen, X.
2007; 2 (1): 59-71
 - **CyberKnife radiosurgical rhizotomy for the treatment of atypical trigeminal nerve pain.** *Neurosurgical focus*
Patil, C. G., Veeravagu, A., Bower, R. S., Li, G., Chang, S. D., Lim, M., Adler, J. R.
2007; 23 (6): E9-?
 - **In vivo near-infrared fluorescence imaging of integrin alpha(v)beta(3) in an orthotopic glioblastoma model** *MOLECULAR IMAGING AND BIOLOGY*
Hsu, A. R., Hou, L. C., Veeravagu, A., Greve, J. M., Vogel, H., Tse, V., Chen, X.
2006; 8 (6): 315-323
 - **Recurrent glioblastoma multiforme: a review of natural history and management options.** *Neurosurgical focus*
Hou, L. C., Veeravagu, A., Hsu, A. R., Tse, V. C.
2006; 20 (4): E5-?