



Corinna Zygourakis

Assistant Professor of Neurosurgery at the Stanford University Medical Center

 Curriculum Vitae available Online

CLINICAL OFFICES

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Corinna Zygourakis specializes in comprehensive surgical care of the adult spine, and focuses on the treatment of complex spinal disorders, including spinal deformity, revision surgery, and spinal tumors. Dr. Zygourakis employs the latest minimally invasive, motion-sparing, and robotic surgical techniques to achieve the best outcomes for her patients. Her philosophy is to take care of patients with respect and compassion, as she would want her own family treated.

Dr. Zygourakis trained at the Johns Hopkins Hospital for her combined neurosurgery and orthopedic surgery complex spine fellowship, where she performed the first surgery internationally with the Globus Excelsius spinal robot. She completed her residency at the top-ranked neurosurgical program at the University of California, San Francisco, and obtained her M.D. degree cum laude from Harvard Medical School. Committed to serving and advocating for spine patients through her clinical, education, and research efforts, Dr. Zygourakis has published more than forty scientific articles and book chapters on healthcare costs, quality of neurosurgical care, and spine surgery.

CLINICAL FOCUS

- Neurosurgery
- Spinal Deformity Surgery
- Spine Tumor Surgery
- Minimally Invasive Spine Surgery
- Robotic Spine Surgery
- Spinal Cord Injury

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Neurosurgery

HONORS AND AWARDS

- Byers Center for Bidesign Faculty Fellowship, Stanford University (2019-2020)

- Top 20 Under 40 Spine Surgeons, SpineLine, North American Spine Society (2019)
- High Impact Manuscript Award, Neurosurgery (2017)
- Best Senior Resident Clinical Research Presentation, Resident Research Day, University of California, San Francisco (2016)
- Excellence and Innovation Award in Graduate Medical Education, University of California, San Francisco (2016)
- Sustainability Award from UCSF Chancellor for Project on OR Waste, University of California, San Francisco (2016)
- UCSF Health "Great Save Award" from CEO for OR Surgical Cost Reduction Project, University of California, San Francisco (2016)
- CTSI Catalyst Award, Development of Doctor Mobile App that Decreases Costs, University of California, San Francisco (2015)
- Naffziger Award for Outstanding Neurosurgical Resident, University of California, San Francisco (2015)
- UCSF Center for Healthcare Value Research Fellowship, University of California, San Francisco (2015)
- Caring Wisely Grant, OR SCORE (OR Surgical Cost Reduction Project), University of California, San Francisco (2014)
- Cum Laude, Harvard Medical School (2011)
- Seidman Prize for Outstanding Senior HST Medical Student Thesis, Harvard Medical School (2011)
- Howard Hughes Medical Institute Research Fellowship for Medical Students, Howard Hughes Medical Institute (2008-2009)
- Paul and Daisy Soros National Fellowship for New Americans, Paul and Daisy Soros Foundation (2006-2008)
- Mabel Beckman Award, Caltech Commencement Prize to Top Graduating Woman, California Institute of Technology (2006)
- Jack E. Froehlich Award, Caltech Academic Prize to Top Junior, California Institute of Technology (2005)
- Axline and Lingle Awards, Caltech Full-Tuition Merit Scholarships, California Institute of Technology (2002-2006)
- Neuroscience Research Prize, American Academy of Neurology & Child Neurology Society (2002)
- USA Today All-USA High School Academic First Team, USA Today (2002)
- United States Presidential Scholar, U.S. Presidential Scholars Program (2002)

PROFESSIONAL EDUCATION

- Fellowship: Johns Hopkins Neurosurgery Spine Fellowship (2018) MD
- Residency: UCSF Neurological Surgery Residency (2017) CA
- Medical Education: Harvard Medical School (2011) MA
- Fellowship, Johns Hopkins Hospital , Complex Spine Fellowship, Depts of Neurosurgery & Orthopedic Surgery (2018)
- Residency, University of California, San Francisco , Neurological Surgery (2017)
- M.D., Harvard Medical School, Massachusetts Institute of Technology, Health Sciences and Technology Joint Program , Neuroscience Honors Thesis *Cum laude (2011)
- Study Abroad, Cambridge University , Physiology (2005)
- B.S., California Institute of Technology , Biology, English Literature *with honors (2006)

LINKS

- Medical Record Review: <https://stanfordhealthcare.org/second-opinion/medical-record-review.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My goal is to translate research into real-world action and decision-making so that my work can impact patients and the institutions in which they receive care. With a research focus on healthcare cost and quality of care, I approach neurosurgery in a unique way—one that applies business operations, economics, and healthcare delivery principles to our field. I have pursued formal LEAN business training, and believe in the importance of working together with other departments and administrators, as well as physicians and surgeons on the hospital and national level, to effect change. During my residency, I developed and led a multi-departmental

prospective study at UCSF called OR SCORE (OR Surgical Cost Reduction Project) that brought together surgeons from the neurosurgery, orthopedics and ENT departments with nurses and administrators. OR SCORE successfully reduced surgical supply costs by nearly one million dollars in its first year by providing >60 surgeons with price transparency scorecards. This work led to a first-author publication in JAMA Surgery, but more importantly, set the foundation for further quality improvement and cost reduction efforts across the UCSF hospital system.

A volunteer neurosurgical mission trip to Guadalajara, Mexico, where limited resources create an OR environment that is strikingly more frugal than the U.S., inspired me to lead another project aimed at quantifying and reducing operating room waste at UCSF. I have also conducted research looking at the safety and outcomes of overlapping surgery, as well as several projects to define the factors underlying variation in cost for neurosurgical care using UCSF's hospital data and national databases like the National Inpatient Sample, Vizient (formerly known as University Health Consortium), and Medicare.

As a clinical fellow at Johns Hopkins, I continued and expanded these research efforts. I designed and implemented an Enhanced Recovery after Surgery (ERAS) protocol at the Johns Hopkins Bayview hospital. This protocol standardized care for our spine patients, emphasizing pre-operative rehabilitation, psychiatric and nutritional assessments, and smoking cessation, as well as intra- and post-operative multi-modal pain therapy, early mobilization, and standardized antibiotic and bowel regimens. I also collaborated with engineers in the Johns Hopkins Carnegie Center for Surgical Innovation to develop better algorithms for intra-operative CT imaging, and provided assistance with operations to a basic science study looking at the role of cerebrospinal fluid drainage and duraplasty in a porcine model of spinal cord injury.

At Stanford, I am building a research group focused on: (1) perfecting paradigms for delivery of high-end technology in spinal care, including robotics and navigation, (2) implementing cost and quality strategies in large healthcare systems, and (3) computational analysis of big-data to effect real-time risk stratification and decision making in spine surgery. I'm excited to collaborate with my peers across surgical and medical departments, as well as business and engineering colleagues.

CLINICAL TRIALS

- Improving Spine Surgical Care With Real-Time Objective Patient Tracking Using the Apple Watch, Recruiting

Publications

PUBLICATIONS

- **First spine surgery utilizing real-time image-guided robotic assistance.** *Computer assisted surgery (Abingdon, England)*
Ahmed, A. K., Zygourakis, C. C., Kalb, S., Zhu, A. M., Molina, C. A., Jiang, B., Blitz, A. M., Bydon, A., Crawford, N. R., Theodore, N.
2019; 1-5
- **Primum non nocere: robots and spinal surgery.** *Journal of spine surgery (Hong Kong)*
Zygourakis, C. C., Theodore, N.
2018; 4 (4): 810-11
- **Technique: open lumbar decompression and fusion with the Excelsius GPS robot.** *Neurosurgical focus*
Zygourakis, C. C., Ahmed, A. K., Kalb, S. n., Zhu, A. M., Bydon, A. n., Crawford, N. R., Theodore, N. n.
2018; 45 (VideoSuppl1): V6
- **Association Between Surgeon Scorecard Use and Operating Room Costs.** *JAMA surgery*
Zygourakis, C. C., Valencia, V. n., Moriates, C. n., Boscardin, C. K., Catschegn, S. n., Rajkomar, A. n., Bozic, K. J., Soo Hoo, K. n., Goldberg, A. N., Pitts, L. n., Lawton, M. T., Dudley, R. A., Gonzales, et al
2017; 152 (3): 284-91
- **Commentary: Transdural Spinal Cord Herniation: An Exceptional Complication of Thoracoscopic Discectomy.** *Operative neurosurgery (Hagerstown, Md.)*
Jensen, M., Zygourakis, C.
2021
- **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
- **Posterior Vertebral Column Subtraction Osteotomy for Recurrent Tethered Cord Syndrome: A Multicenter, Retrospective Analysis.** *Neurosurgery*
Theodore, N., Cottrill, E., Kalb, S., Zygourakis, C., Jiang, B., Pennington, Z., Lubelski, D., Westbroek, E. M., Ahmed, A. K., Ehresman, J., Sciubba, D. M.,
Witham, T. F., Turner, et al
2020
 - **Experience with an Enhanced Recovery After Spine Surgery protocol at an academic community hospital.** *Journal of neurosurgery. Spine*
Young, R., Cottrill, E., Pennington, Z., Ehresman, J., Ahmed, A. K., Kim, T., Jiang, B., Lubelski, D., Zhu, A. M., Wright, K. S., Gavin, D., Russo, A., Hanna, et al
2020: 1–8
 - **Commentary: Predicting Postoperative Outcomes in Brain Tumor Patients With a 5-Factor Modified Frailty Index.** *Neurosurgery*
Zhang, M., Hayden Gephart, M., Zygourakis, C. C.
2020
 - **Leptomeningeal spread with spinal involvement of pineal glioblastoma at initial presentation: A case report** *INTERDISCIPLINARY NEUROSURGERY-
ADVANCED TECHNIQUES AND CASE MANAGEMENT*
Yerneni, K., Fatemi, P., Vogel, H., Li, G., Zygourakis, C. C.
2020; 21
 - **Objective activity tracking in spine surgery: a prospective feasibility study with a low-cost consumer grade wearable accelerometer.** *Scientific reports*
Stienen, M. N., Rezaei, P. G., Ho, A. L., Veeravagu, A., Zygourakis, C. C., Tomkins-Lane, C., Park, J., Ratliff, J. K., Desai, A. M.
2020; 10 (1): 4939
 - **Robot-Assisted versus Freehand Instrumentation in Short-Segment Lumbar Fusion: Experience with Real-Time, Image-Guided Spinal Robot.** *World
neurosurgery*
Jiang, B. n., Pennington, Z. n., Azad, T. n., Liu, A. n., Ahmed, A. K., Zygourakis, C. C., Westbroek, E. M., Zhu, A. n., Cottrill, E. n., Theodore, N. n.
2020
 - **Simultaneous Coccidioidomycosis and Phaeohyphomycosis in a Kidney Transplant Recipient: A Case Report and Literature Review.** *Transplant infectious
disease : an official journal of the Transplantation Society*
Puing, A. G., Couture-Cossette, A. n., Wang, A. X., Zygourakis, C. C., Cheng, X. n., Stevens, B. A., Banaei, N. n., Novoa, R. A., Ho, D. Y., Subramanian, A. n.
2020: e13365
 - **Systematic Review of Cost-Effectiveness Analyses in US Spine Surgery.** *World neurosurgery*
Chang, D. n., Zygourakis, C. C., Wadhwa, H. n., Kahn, J. G.
2020
 - **Automatic analysis of global spinal alignment from simple annotation of vertebral bodies.** *Journal of medical imaging (Bellingham, Wash.)*
Doerr, S. A., De Silva, T. n., Vijayan, R. n., Han, R. n., Uneri, A. n., Ketcha, M. D., Zhang, X. n., Khanna, N. n., Westbroek, E. n., Jiang, B. n., Zygourakis, C. n.,
Aygün, N. n., Theodore, et al
2020; 7 (3): 035001
 - **Does double-blind peer review impact gender authorship trends? An evaluation of two leading neurosurgical journals from 2010 to 2019.** *Journal of
neurosurgery*
Mahajan, U. V., Wadhwa, H. n., Fatemi, P. n., Xu, S. n., Shan, J. n., Benzil, D. L., Zygourakis, C. C.
2020: 1–9
 - **Association between Physician Industry Payments and Cost of Anterior Cervical Discectomy and Fusion in Medicare Beneficiaries.** *World neurosurgery*
Liu, C. n., Ahmed, K. n., Chen, C. L., Dudley, R. A., Gonzales, R. n., Orrico, K. n., Yerneni, K. n., Stienen, M. N., Veeravagu, A. n., Desai, A. n., Park, J. n.,
Ratliff, J. K., Zygourakis, et al
2020
 - **Tenosynovial giant cell tumor of the suboccipital region - A rare, benign neoplasm in this location.** *Journal of clinical neuroscience : official journal of the
Neurosurgical Society of Australasia*
Singh, R. n., Stienen, M. N., Ganjoo, K. n., Kolahi, K. S., Cayrol, R. n., Charville, G. W., Born, D. E., Zygourakis, C. C.
2020
 - **Digital transformation in spine research and outcome assessment.** *The spine journal : official journal of the North American Spine Society*
Maldaner, N. n., Tomkins-Lane, C. n., Desai, A. n., Zygourakis, C. C., Weyerbrock, A. n., Gautschi, O. P., Stienen, M. N.

2020; 20 (2): 310–11

- **The Effect of Renin-angiotensin System Blockers on Spinal Cord Dysfunction and Imaging Features of Spinal Cord Compression in Patients with Symptomatic Cervical Spondylosis.** *The spine journal : official journal of the North American Spine Society*
Perdomo-Pantoja, A., Chara, A., Kalb, S., Casaos, J., Ahmed, A., Pennington, Z., Cottrill, E., Shah, S., Jiang, B., Manbachi, A., Zygourakis, C., Witham, T. F., Theodore, et al
2019
- **Assessment of a triage protocol for emergent neurosurgical cases at a single institution.** *World neurosurgery*
Ehresman, J., Ahmed, A. K., Lubelski, D., Pennington, Z., Jiang, B., Zygourakis, C., Cottrill, E., Theodore, N.
2019
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease** *GLOBAL SPINE JOURNAL*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A., Ho, A. L., Stienen, M., Zygourakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019
- **Known-component 3D image reconstruction for improved intraoperative imaging in spine surgery: A clinical pilot study.** *Medical physics*
Zhang, X., Uneri, A., Webster Stayman, J., Zygourakis, C. C., Lo, S. L., Theodore, N., Siewerdsen, J. H.
2019
- **Accuracy of Current Techniques for Placement of Pedicle Screws in the Spine: A Comprehensive Systematic Review and Meta-Analysis of 51,161 Screws** *WORLD NEUROSURGERY*
Perdomo-Pantoja, A., Ishida, W., Zygourakis, C., Holmes, C., Iyer, R. R., Cottrill, E., Theodore, N., Witham, T. F., Lo, S. L.
2019; 126: 664+
- **Estimating a price point for cost-benefit of bone morphogenetic protein in pseudarthrosis prevention for adult spinal deformity surgery** *JOURNAL OF NEUROSURGERY-SPINE*
Safaei, M. M., Dalle Ore, C. L., Zygourakis, C. C., Deviren, V., Ames, C. P.
2019; 30 (6): 814–21
- **Accuracy of Current Techniques for Placement of Pedicle Screws in the Spine: A Comprehensive Systematic Review and Meta-Analysis of 51,161 Screws.** *World neurosurgery*
Perdomo-Pantoja, A., Ishida, W., Zygourakis, C., Holmes, C., Iyer, R. R., Cottrill, E., Theodore, N., Witham, T. F., Lo, S. L.
2019
- **Estimating a price point for cost-benefit of bone morphogenetic protein in pseudarthrosis prevention for adult spinal deformity surgery.** *Journal of neurosurgery. Spine*
Safaei, M. M., Dalle Ore, C. L., Zygourakis, C. C., Deviren, V., Ames, C. P.
2019: 1–8
- **Protocol for Urgent and Emergent Cases at a Large Academic Level 1 Trauma Center** *CUREUS*
Ahmed, K., Zygourakis, C., Kalb, S., Pennington, Z., Molina, C., Emerson, T., Theodore, N.
2019; 11 (1)
- **Protocol for Urgent and Emergent Cases at a Large Academic Level 1 Trauma Center.** *Cureus*
Ahmed, K. n., Zygourakis, C. n., Kalb, S. n., Pennington, Z. n., Molina, C. n., Emerson, T. n., Theodore, N. n.
2019; 11 (1): e3973
- **First spine surgery utilizing real-time image-guided robotic assistance** *COMPUTER ASSISTED SURGERY*
Ahmed, A., Zygourakis, C. C., Kalb, S., Zhu, A. M., Molina, C. A., Jiang, B., Blitz, A. M., Bydon, A., Crawford, N. R., Theodore, N.
2019; 24 (1): 13–17
- **Reliability of the 6-minute walking test smartphone application.** *Journal of neurosurgery. Spine*
Stienen, M. N., Gautschi, O. P., Staartjes, V. E., Maldaner, N. n., Sosnova, M. n., Ho, A. L., Veeravagu, A. n., Desai, A. n., Zygourakis, C. C., Park, J. n., Regli, L. n., Ratliff, J. K.
2019: 1–8
- **New spinal robotic technologies.** *Frontiers of medicine*
Jiang, B. n., Azad, T. D., Cottrill, E. n., Zygourakis, C. C., Zhu, A. M., Crawford, N. n., Theodore, N. n.
2019

- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease.** *Global spine journal*
Azad, T. D., Varshneya, K. n., Herrick, D. B., Pendharkar, A. V., Ho, A. L., Stienen, M. n., Zygourakis, C. n., Bagshaw, H. P., Veeravagu, A. n., Ratliff, J. K., Desai, A. n.
2019; 2192568219889363
- **Analysis of National Rates, Cost, and Sources of Cost Variation in Adult Spinal Deformity** *NEUROSURGERY*
Zygourakis, C. C., Liu, C. Y., Keefe, M., Moriates, C., Ratliff, J., Dudley, R., Gonzales, R., Mummaneni, P. V., Ames, C. P.
2018; 82 (3): 378–87
- **Implementation and Impact of a Hospital-Wide Instrument Set Review: Early Experiences at a Multisite Tertiary Care Academic Institution.** *American journal of medical quality : the official journal of the American College of Medical Quality*
Yoon, S. n., Zygourakis, C. C., Seaman, J. n., Zhu, M. n., Ahmed, A. K., Kliot, T. n., Antrum, S. n., Goldberg, A. N.
2018; 1062860618783261
- **Pedicle screw accuracy assessment in ExcelsiusGPS® robotic spine surgery: evaluation of deviation from pre-planned trajectory.** *Chinese neurosurgical journal*
Jiang, B. n., Karim Ahmed, A. n., Zygourakis, C. C., Kalb, S. n., Zhu, A. M., Godzik, J. n., Molina, C. A., Blitz, A. M., Bydon, A. n., Crawford, N. n., Theodore, N. n.
2018; 4: 23
- **Center variation in episode-of-care costs for adult spinal deformity surgery: results from a prospective, multicenter database.** *The spine journal : official journal of the North American Spine Society*
Yeramaneni, S. n., Ames, C. P., Bess, S. n., Burton, D. n., Smith, J. S., Glassman, S. n., Gum, J. L., Carreon, L. n., Jain, A. n., Zygourakis, C. n., Avramis, I. n., Hostin, R. n.
2018; 18 (10): 1829–36
- **The unreimbursed costs of preventing revision surgery in adult spinal deformity: analysis of cost-effectiveness of proximal junctional failure prevention with ligament augmentation.** *Neurosurgical focus*
Safaei, M. M., Dalle Ore, C. L., Zygourakis, C. C., Deviren, V. n., Ames, C. P.
2018; 44 (5): E13
- **Immediate improvement of intraoperative monitoring signals following CSF release for cervical spine stenosis: Case report.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Pennington, Z. n., Zygourakis, C. n., Ahmed, A. K., Kalb, S. n., Zhu, A. n., Theodore, N. n.
2018; 53: 235–37
- **The Safety and Efficacy of CT-Guided, Fluoroscopy-Free Vertebroplasty in Adult Spinal Deformity Surgery.** *World neurosurgery*
Zygourakis, C. C., DiGiorgio, A. M., Crutcher, C. L., Safaei, M. n., Nicholls, F. H., Dalle Ore, C. n., Ahmed, A. K., Deviren, V. n., Ames, C. P.
2018; 116: e944–e950
- **Trends in Utilization and Cost of Cervical Spine Surgery Using the National Inpatient Sample Database, 2001 to 2013** *SPINE*
Liu, C. Y., Zygourakis, C. C., Yoon, S., Kliot, T., Moriates, C., Ratliff, J., Dudley, R., Gonzales, R., Mummaneni, P. V., Ames, C. P.
2017; 42 (15): E906–E913
- **Geographic and Hospital Variation in Cost of Lumbar Laminectomy and Lumbar Fusion for Degenerative Conditions** *NEUROSURGERY*
Zygourakis, C. C., Liu, C. Y., Wakam, G., Moriates, C., Boscardin, C., Ames, C. P., Mummaneni, P. V., Ratliff, J., Dudley, R., Gonzales, R.
2017; 81 (2): 331–40
- **Analysis of Cost Variation in Craniotomy for Tumor Using 2 National Databases.** *Neurosurgery*
Zygourakis, C. C., Liu, C. Y., Yoon, S. n., Moriates, C. n., Boscardin, C. n., Dudley, R. A., Lawton, M. T., Theodosopoulos, P. n., Berger, M. S., Gonzales, R. n.
2017; 81 (6): 972–79
- **Clinical utility and cost analysis of routine postoperative head CT in elective aneurysm clippings.** *Journal of neurosurgery*
Zygourakis, C. C., Winkler, E. n., Pitts, L. n., Hannegan, L. n., Franc, B. n., Lawton, M. T.
2017; 126 (2): 558–63
- **Operating room waste: disposable supply utilization in neurosurgical procedures.** *Journal of neurosurgery*
Zygourakis, C. C., Yoon, S. n., Valencia, V. n., Boscardin, C. n., Moriates, C. n., Gonzales, R. n., Lawton, M. T.
2017; 126 (2): 620–25

- **Sexual function after cervical spine surgery: Independent predictors of functional impairment.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Keefe, M. K., Zygourakis, C. C., Theologis, A. A., Canepa, E. n., Shaw, J. D., Goldman, L. H., Burch, S. n., Berven, S. n., Chou, D. n., Tay, B. n., Mummaneni, P. n., Deviren, V. n., Ames, et al
2017; 36: 94–101
- **Performing concurrent operations in academic vascular neurosurgery does not affect patient outcomes.** *Journal of neurosurgery*
Zygourakis, C. C., Lee, J. n., Barba, J. n., Lobo, E. n., Lawton, M. T.
2017; 127 (5): 1089–95
- **Comparison of Patient Outcomes and Cost of Overlapping Versus Nonoverlapping Spine Surgery.** *World neurosurgery*
Zygourakis, C. C., Sizzdahkhani, S. n., Keefe, M. n., Lee, J. n., Chou, D. n., Mummaneni, P. V., Ames, C. P.
2017; 100: 658–64.e8
- **Comparison of Patient Outcomes in 3725 Overlapping vs 3633 Nonoverlapping Neurosurgical Procedures Using a Single Institution's Clinical and Administrative Database.** *Neurosurgery*
Zygourakis, C. C., Keefe, M. n., Lee, J. n., Barba, J. n., McDermott, M. W., Mummaneni, P. V., Lawton, M. T.
2017; 80 (2): 257–68
- **Cost-Effectiveness Analysis of Surgical versus Medical Treatment of Prolactinomas.** *Journal of neurological surgery. Part B, Skull base*
Zygourakis, C. C., Imber, B. S., Chen, R. n., Han, S. J., Blevins, L. n., Molinaro, A. n., Kahn, J. G., Aghi, M. K.
2017; 78 (2): 125–31
- **Developing an algorithm for cost-effective, clinically judicious management of peripheral nerve tumors.** *Surgical neurology international*
Birk, H. n., Zygourakis, C. C., Kliot, M. n.
2016; 7: 80
- **Preventing Delays in First-Case Starts on the Neurosurgery Service: A Resident-Led Initiative at an Academic Institution.** *Journal of surgical education*
Han, S. J., Rolston, J. D., Zygourakis, C. C., Sun, M. Z., McDermott, M. W., Lau, C. Y., Aghi, M. K.
2016; 73 (2): 291–95
- **Economic Impact of Revision Surgery for Proximal Junctional Failure After Adult Spinal Deformity Surgery: A Cost Analysis of 57 Operations in a 10-year Experience at a Major Deformity Center.** *Spine*
Theologis, A. A., Miller, L. n., Callahan, M. n., Lau, D. n., Zygourakis, C. n., Scheer, J. K., Burch, S. n., Pekmezci, M. n., Chou, D. n., Tay, B. n., Mummaneni, P. n., Berven, S. n., Deviren, et al
2016; 41 (16): E964–72
- **Predictors of Variation in Neurosurgical Supply Costs and Outcomes Across 4904 Surgeries at a Single Institution.** *World neurosurgery*
Zygourakis, C. C., Valencia, V. n., Boscardin, C. n., Nayak, R. U., Moriates, C. n., Gonzales, R. n., Theodosopoulos, P. n., Lawton, M. T.
2016; 96: 177–83
- **The impact of a patient education bundle on neurosurgery patient satisfaction.** *Surgical neurology international*
Kliot, T. n., Zygourakis, C. C., Imershein, S. n., Lau, C. n., Kliot, M. n.
2015; 6 (Suppl 22): S567–72
- **Pituicytomas and spindle cell oncocytomas: modern case series from the University of California, San Francisco.** *Pituitary*
Zygourakis, C. C., Rolston, J. D., Lee, H. S., Partow, C. n., Kunwar, S. n., Aghi, M. K.
2015; 18 (1): 150–58
- **Management of central nervous system teratoma.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Zygourakis, C. C., Davis, J. L., Kaur, G. n., Ames, C. P., Gupta, N. n., Auguste, K. I., Parsa, A. T.
2015; 22 (1): 98–104
- **Transient pupillary dilation following local papaverine application in intracranial aneurysm surgery.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Zygourakis, C. C., Vasudeva, V. n., Lai, P. M., Kim, A. H., Wang, H. n., Du, R. n.
2015; 22 (4): 676–79
- **Cost-effectiveness research in neurosurgery.** *Neurosurgery clinics of North America*
Zygourakis, C. C., Kahn, J. G.

2015; 26 (2): 189–96, viii

- **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., Zygourakis, C. C., Boakye, M.
2015; 7 (1)
- **Surgery is cost-effective treatment for young patients with vestibular schwannomas: decision tree modeling of surgery, radiation, and observation.** *Neurosurgical focus*
Zygourakis, C. C., Oh, T. n., Sun, M. Z., Barani, I. n., Kahn, J. G., Parsa, A. T.
2014; 37 (5): E8
- **What do hotels and hospitals have in common? How we can learn from the hotel industry to take better care of patients.** *Surgical neurology international*
Zygourakis, C. C., Rolston, J. D., Treadway, J. n., Chang, S. n., Kliot, M. n.
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