

## PUBLICATIONS

### *Peer Reviewed Papers*

1. Career satisfaction and burnout among U.S. neurosurgeons: a feasibility and pilot study – **Klimo P**, Decuyper M, Ragel BT, McCartney S, Couldwell WT, Boop FA. *World Neurosurg*, [Epub ahead of print]
2. Imaging changes in very young children with brain tumor treated with proton therapy and chemotherapy – Sabin ND, Merchant TE, Harreld JH, Patay Z, **Klimo P**, Qaddoumi I, Armstrong GT, Wright K, Gray J, Indelicato DJ, Gajjar A. *AJNR Am J Neuroradiol*, 34:446-450, 2013
3. Management and outcome of focal low-grade brainstem tumors in pediatric patients: the St. Jude experience – **Klimo P**, Pai Panandiker AS, Thompson CJ, Boop FA, Qaddoumi I, Gajjar A, Armstrong GT, Ellison DW, Kun LE, Ogg RJ, Sanford RA. *J Neurosurg Pediatr*, 11:274-281, 2013
4. Occipitocervical fusion using a contoured rod and wire construct in children: a reappraisal of a vintage technique – **Klimo P**, Astur N, Gabrick K, Warner WC Jr, Muhlbauer MS. *J Neurosurg Pediatr*, 11:160-169, 2013
5. Spectrum of traumatic brain injury from mild to severe – DeCuypere M, **Klimo P**. *Surg Clin N Am*, 92:939-957, 2012
6. Diagnostic utility and correlation of tumor markers in the serum and cerebrospinal fluid of children with intracranial germ cell tumors – Qaddoumi I, Sane M, Li S, Kocak M, Pai-Panandiker A, Harreld J, **Klimo P**, Wright K, Broniscer, Gajjar A. *Childs Nerv Syst*, 28:1017-1024, 2012
7. Minicraniotomy versus bur holes for evacuation of chronic subdural collections in infants – a preliminary single institution experience - **Klimo P Jr**, Mathews A, Lew SM, Zwienerberg-Lee M, Kaufman BA. *J Neurosurg Pediatr*, 8:423-429, 2011
8. Antibiotic-impregnated shunt systems versus standard shunt systems: a meta-and cost-savings analysis - **Klimo P Jr**, Thompson CJ, Ragel BT, Boop FA. *J Neurosurg Pediatr*, 8:600-612, 2011
  - Paper was selected for a structured abstract created for the National Health Service (NHS, UK) Centre for Reviews and Dissemination (CRD) Economic Evaluation Database:  
<http://www.crd.york.ac.uk/CRDWeb/ShowRecord.asp?AccessionNumber=22012006500>
9. Incidental osodontoideum: current management strategies - **Klimo P Jr**, Coon V, Brockmeyer D. *Neurosurg Focus*, 31:E10, 2011

10. A fourth atlantoaxial joint – Riesenburger RI, **Klimo P Jr**, Yao KC. *Spine J*, 11:e6-9, 2011
11. Resection of infantile brain tumors after neoadjuvant chemotherapy: the St. Jude experience – Van Poppel M, **Klimo P Jr**, Dewire M, Sanford RA, Boop F, Broniscer A, Wright K, Gajjar A. *J Neurosurg Pediatr*, 8:251-256, 2011
12. Economic analysis of the military health professions scholarship program for neurosurgeons – Ragel B, **Klimo P Jr**, Grant GA, Taggard DA, McCafferty RR, Ellenbogen RG. *Neurosurgery*, 69:525-532, 2011
13. Diagnosis and management of arteriovenous malformations in children - Niazi TN, **Klimo P Jr**, Anderson RC, Raffel C. *Neurosurg Clin N Am*, 21:443-456, 2010
14. Indirect revascularization techniques for treating moyamoya disease - Patel NN, Mangano FT, **Klimo P Jr**. *Neurosurg Clin N Am*, 21:553-563, 2010
15. Wartime decompressive craniectomy: technique and lessons learned - Ragel BT, **Klimo P Jr**, Martin JE, Teff RJ, Bakken HE, Armonda RA. *Neurosurg Focus*, 28:E2, 2010
16. Can surgery improve neurologic function in penetrating spinal injury? A review of the military and civilian literature and treatment recommendations for military neurosurgeons - **Klimo P Jr**, Ragel BT, Rosner M, Gluf W, McCafferty R. *Neurosurg Focus*, 28:E4, 2010
17. Neurosurgery in Afghanistan during Operation Enduring Freedom: A 24-month experience – Ragel B, **Klimo P**, Kowalski RJ, McCafferty RR, Liu JM, Taggard DA, Garrett D Jr, Brevard SB. *Neurosurg Focus*, 28:E8, 2010
18. Pediatric neurosurgery during Operation Enduring Freedom – **Klimo P**, Ragel B, Scott WH, McCafferty R. *J Neurosurg Pediatrics*, 6:107-114, 2010
19. Effect of surgeon turnover and deployments on neurosurgical case volume at a military hospital - Ragel B, **Klimo P**. *AANS Neurosurgeon*, 19:2, 2010
20. Traumatic central cord syndrome: etiology, management and outcomes – Yadla S, **Klimo P**, Harrop J. *Topics in Spinal Cord Injury Rehabilitation*, 15:73-84, 2010
21. Outcomes following single-treatment Gamma Knife surgery for trigeminal neuralgia with a minimum 3-year follow-up – Riesenburger RI, Hwang SW, Schirmer CM, Zerris V, Wu JK, Mahn K, **Klimo P**, Mignano CJ, Thompson CJ, Yao KC. *J Neurosurg* 112:766-771, 2010
22. The posterior petrosal approach: technique and applications in pediatric neurosurgery – **Klimo P**, Browd S, Pravdenkova S, Couldwell W, Walker M, Al-Mefty O. *J Neurosurg Pediatrics* 4:353-362, 2009

23. Long-term outcomes after multilevel anterior cervical decompression, instrumentation and fusion – **Klimo P**, Patel A, Finn M, Apfelbaum R. *J Spinal Res Found* 4:50-60, 2009
24. Spinal cord transection distal to a cervical fracture-dislocation in a young child: Mechanism of injury – **Klimo P**, Haridas A, Proctor M. *Inj Extra* 40:259-262, 2009
25. Primary pediatric intraspinal sarcomas. Report of 3 cases – **Klimo P**, Codd PJ, Grier H, Goumnerova LC. *J Neurosurg Pediatrics* 4:222-229, 2009
26. Use of polyetheretherketone spacer and recombinant human bone morphogenetic protein-2 in the cervical spine: a radiographic analysis – **Klimo P**, Peelle MW. *Spine J*, 9:959-966, 2009
27. Congenital anomalies of the cervical spine – **Klimo P**, Rao G, Brockmeyer DL. *J Spinal Res Found*, 4:33-42, 2009
28. Increasing the neurosurgical caseload at a military hospital: initial experience with a joint military-veterans affairs (VA) sharing agreement-Ragel BT, Taggard DA, **Klimo P**, Liu JM, Robison S, Sholes AH. *Military Medicine*174:103-105, 2009
29. OR noise – The potential for hearing loss – **Klimo P**, Couldwell WT. *AANS Neurosurgeon*. 17:13, 2008
30. Stress and burnout – Insidious influences – **Klimo P**, Couldwell WT. *AANS Neurosurgeon*. 17:17-18, 2008
31. Os odontoideum: presentation, diagnosis, and treatment in a series of 78 patients – **Klimo P**, Kan P, Rao G, Apfelbaum R, Brockmeyer D. *J Neurosurg Spine*, 9:332-342, 2008
32. Foramen magnum stenosis from overgrowth of the opisthion in a child with achondroplasia – Jha, RM, **Klimo P**, Smith ER. *J Neurosurg Pediatrics*, 2:136-138, 2008
33. Spinal tumors in children – Binning M, **Klimo P**, Gluf W, Goumnerova L. *Neurosurg Clin N Am*. 18:631-658, 2007
34. Cervical spine trauma in the pediatric patient – **Klimo P**, Ware ML, Gupta N, Brockmeyer DL. *Neurosurg Clin N Am*. 18:599-620, 2007
35. Chiari malformations, syringohydromyelia, and scoliosis – Hankinson TC, **Klimo P**, Feldstein NA, Anderson RC, Brockmeyer DL. *Neurosurg Clin N Am*, 18:549-68, 2007
36. Congenital anomalies of the cervical spine - **Klimo P**, Rao G, Brockmeyer DL. *Neurosurg Clin N Am*, 18:463-78, 2007
37. The lasso technique for posterior C1-2 fusion – **Klimo P**, Binning M, Brockmeyer DL, Apfelbaum RI. *Neurosurgery*, 61:94-99, 2007

38. Interpositional dural graft technique for the treatment of dural arteriovenous fistulas - Finn M, **Klimo P**, Couldwell WT. *Neurosurg Focus* 22:E10, 2007
39. Multimodality treatment of melanoma brain metastases incorporating stereotactic radiosurgery (SRS) – Samlowski WE, Watson GA Wang M, Rao G, **Klimo P**, Boucher K, Shrieve DC, Jensen RL. *Cancer* 9:1855-1862, 2007
40. Wound Complications Associated With The Use Of Bovine Serum Albumin-Glutaraldehyde Surgical Adhesive In Pediatric Patients – **Klimo P**, Khalil A, Slotkin J, Smith ER, Scott RM, Goumnerova LC. *Neurosurgery* 60(4 Suppl 2):305-309, 2007
41. Pediatric arteriovenous malformations: a 15-year experience with emphasis on residual and recurrent lesions – **Klimo P**, Rao G, Brockmeyer D. *Childs Nerv Syst*, 23:31-37, 2007
42. Vertebra plana due to an aneurysmal bone cyst of the lumbar spine – Codd PJ, Riesenburger R, **Klimo P**, Slotkin JR, Smith ER. *J Neurosurg (6 Suppl Pediatrics)* 105:490-495, 2006
43. Stereotactic radiosurgery as therapy for melanoma, renal carcinoma, and sarcoma brain metastases: Impact of added surgical resection and whole-brain radiotherapy – Rao G, **Klimo P**, Thompson CJ, Samlowski W, Wang M, Watson G, Shrieve D, Jensen RL. *Int J Radiat Oncol Biol Phys*, 66(4 Suppl):S20-5, 2006
44. Endoscopic third ventriculocisternostomy for brainstem tumors – **Klimo P**, Goumnerova LC. *J Neurosurg (4 Suppl Pediatrics)* 105:271-274, 2006
45. Computed tomography grading schemes used to predict cerebral vasospasm after aneurysmal subarachnoid hemorrhage: a historical review - **Klimo P**, Schmidt RH. *Neurosurg Focus* 21:E5, 2006
46. Anterior cervical fixation: analysis of load-sharing and stability with use of static and dynamic plates – Brodke DS, **Klimo P**, Bachus KN, Braun JT, Dailey AT. *J Bone Joint Surg Am* 88:1566-73, 2006
47. Surgical strategies for recurrent craniofacial meningiomas – Rao G, **Klimo P**, Jensen RLJ, MacDonald JD, Couldwell WT. *Neurosurgery* 58:874-880, 2006
48. Multilevel cervical disconnection syndrome: initial description, embryogenesis, and management – **Klimo P**, Anderson RCE, Brockmeyer DL. *J Neurosurg (Pediatrics)* 3)104:181-187, 2006
49. A Meta-Analysis of Surgery Versus Conventional Radiotherapy for the Treatment of Metastatic Spinal Epidural Disease – **Klimo P**, Thompson CJ, Kestle JRW, Schmidt MH. *Neuro-Oncol* 7:64-76, 2005
50. Metastatic spinal cord compression – Schmidt MH, **Klimo P**, Vrionis FD. *J Natl Compr Canc Netw*, 3:711-719, 2005

51. Potentially Useful Outcome Measures for Clinical Research in Pediatric Neurosurgery – **Klimo P**, Kestle JRW. *J Neurosurg (Pediatrics 3)* 103:207-212, 2005
52. Assessing the Validity of the Endoscopic Shunt Insertion Trial - Did Surgical Experience Affect the Results? – **Klimo P**, Thompson CJ, Drake J, Kestle JRW. *J Neurosurg (Pediatrics 2)* 101:130-133, 2004
53. Clinical Trials and Evidence-Based Medicine for Metastatic Spine Disease – **Klimo P**, Kestle JRW, Schmidt, M. *Neurosurg Clin N Am*, 15:549-564, 2004
54. Posterior Approaches and Outcomes in Metastatic Spine Disease – **Klimo P**, Dailey AT, Fessler RG. *Neurosurg Clin N Am*, 15:425-435, 2004
55. Minimally Invasive Treatments of Metastatic Tumors of the Spine – Binning MJ, Gottfried ON, **Klimo P**, Schmidt MH. *Neurosurg Clin N Am*, 15:459-465, 2004
56. Complications of ICP Monitoring in Children with Head Trauma – Anderson RCE, Kan P, **Klimo P**, Brockmeyer DL, Walker ML, Kestle JRW. *J Neurosurg (Pediatrics 1)* 101:53-58, 2004
57. Surgical Management of Spinal Metastases – **Klimo P**, Schmidt MH. *The Oncologist* 9:188-196, 2004
58. Marked Reduction of Cerebral Vasospasm with Lumbar CSF Drainage Following Subarachnoid Hemorrhage – **Klimo P**, MacDonald JD, Kestle JRW, Schmidt RH. *J Neurosurg* 100:215-224, 2004
59. Treatment of Metastatic Spinal Epidural Disease: A Review of the Literature – **Klimo P**, Kestle JRW, Schmidt, MH. *Neurosurg Focus* 15(5):Article 1, 2003
60. Congenital Partial Aplasia of the Posterior Arch of the Atlas Causing Myelopathy: Case Report and Review of the Literature - **Klimo P**, Couldwell WT. *Spine* 28(12):E224-228, 2003
61. Nerve Sheath Tumors of the Sacrum – **Klimo P**, Rao G, Schmidt RH, Schmidt MH. *Neurosurg Focus* 15(2):Article 12, 2003

#### ***Non-Peer Reviewed Articles***

1. Military Neurosurgery in Support of Operation Enduring Freedom (OEF) – **Klimo P**, Ragel B. *Young Neurosurgeons Committee Newsletter*, Spring 2009

#### ***Book Chapters***

1. Motion-Sparing, Nonimplant Surgery: Cervical Spine and Lumbar Spine – Riesenburger R, **Klimo P**, Benzel EC. In Benzel EC (ed.): *Spine Surgery – Techniques, Complication Avoidance, and Management 3<sup>rd</sup> Ed.* pp. 1505-1511, 2012.

2. Medulloblastoma - **Klimo P**, Adediran S, Wetjen N, Raffel C. In Ghogawala Z, Krishnaney AA, Steinmetz MP, Batjer HH, Benzel EC (ed.): *The Evidence for Neurosurgery*, pp.297-313, 2012.
3. Spinal CSF Leaks: Pseudomeningoceles and Fistulas – **Klimo P**. *Spine eHandbooks*, University of Neurosurgery, Congress of Neurological Surgeons
4. Evaluation and Management of Spinal Axis Tumors: Metastatic – **Klimo P**, Rao G, Rhines L. In Winn HR (ed.): *Youmans Neurological Surgery 6th Ed.* pp. 3154-3165, 2011.
5. Juvenile Nasal Angiofibroma – **Klimo P**, Boue DR, Raffel C. In Winn HR (ed.): *Youmans Neurological Surgery 6th Ed.* pp.1642-1647, 2011.
6. Traumatic Spondylolisthesis of the Axis/Axis Fractures – **Klimo P**, Riesenberger R, Schmidt MH. In Kim DH, Ludwig SC, Vaccaro AR, Chang J-C (ed.): *Atlas of Spine Trauma: Adult & Pediatric.* pp. 209-218, 2008.
7. Development and Maturation of the Axial Skeleton: Developmental Abnormalities of the Cervical Spine - Rao G, **Klimo P**, McCutcheon IE, Mendel E. In Kim DH, Ludwig SC, Vaccaro AR, Chang J-C (ed.): *Atlas of Spine Trauma: Adult & Pediatric.* pp. 473-488, 2008.
8. Microsurgical Treatment of Odontoid Fractures – **Klimo P**, Rao G, ApfelbaumRI. In Mayer HM (ed.): *Minimally Invasive Spine Surgery – A Surgical Manual 2<sup>nd</sup> Ed.* pp. 42-53, 2006.
9. Cerebral Vasospasm is Markedly Reduced by Lumbar Cerebrospinal Fluid Drainage – Schmidt RH, **Klimo P**. In MacDonal, RL (ed.): *Cerebral Vasospasm – Advances in Research and Treatment.* pp.259-262, 2005.
10. Posterior Laminoforaminotomy for Cervical Radiculopathy – **Klimo P**, ApfelbaumRI. In Clark CR (ed): *The Cervical Spine 4<sup>th</sup> Ed.*, pp. 1031-1042, 2005.
11. Nerve Sheath Tumors of the Spine – **Klimo P**, Schmidt MH, Fessler RG. In Black PM, Loeffler JS (eds.):*Cancer of the Nervous System 2<sup>nd</sup> Ed.*, pp.453-463, 2005.
12. Odontoid Screw Fixation – **Klimo P**, ApfelbaumRI. In Kim DH, VaccaroAR, Fessler RG (eds.): *Spinal Instrumentation - Surgical Techniques.* pp. 70-80, 2005.
13. Treatment of axis fractures - York JE, **Klimo P**, ApfelbaumRI. In Sonntag VK (ed): *Youmans Neurological Surgery 5th Ed. Vol 4*, pp. 4939-4949, 2004.