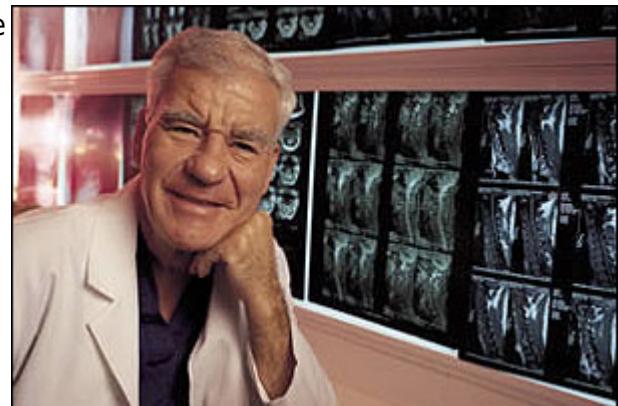


Volker Sonntag

Nacido en Prusia Occidental , pasó sus primeros años de vida en un campo de refugiados de la Alemania Occidental .



Llegó a Estados Unidos en 1957 sin saber inglés

Comienza Medicina en la Universidad de la Escuela Médica de Arizona en 1971.

Ha hecho importantes contribuciones a la comprensión de los trastornos de la columna

Ha editado cinco libros, realizadas más de 800 presentaciones en todo el mundo , y escrito más de 90 capítulos de libros y 300 artículos de revistas.

Es reconocido como uno de los Mejores Doctores en América. En 2002 , el Dr. Sonntag fue nombrado el invitado de honor del Congreso de Cirujanos Neurológicos , el más alto honor que un neurocirujano por sus pares.

Sus colegas y amigos están muy orgullosos de lo que el Dr. Sonntag aporta al grupo . Según el Dr. Spetzler , presidente del BNA , "Siempre da lo mejor a sus pacientes , a sus residentes , becarios y su familia. No hay ni una sola fibra falsa en su cuerpo. "

Cuando no está en el trabajo, el Dr. Sonntag se puede encontrar con su familia o ir de excursión al Gran Cañón.

A él le gustaría ser recordado “ como alguien que intenta encontrar el equilibrio perfecto, con pasión por el trabajo (especialmente la investigación y el programa de residencia) , la pasión por la familia y la pasión por la vida .

Publicaciones

1: Wait SD, Kalani MY, Little AS, Consiglieri GD, Ross JS, Kucia MR, Sonntag VK, Theodore N. Prospective observational study of acute postlumbar laminectomy MRI. J Neurosurg Spine. 2013 Oct 18. [Epub ahead of print] PubMed PMID: 24138058.

2: Kakarla UK, Kalani MY, Sharma GK, Sonntag VK, Theodore N. Surgical management of coccidioidomycosis of the spine: clinical article. J Neurosurg Spine. 2011 Oct;15(4):441-6. doi: 10.3171/2011.5.SPINE10596. Epub 2011 Jul 8. PubMed PMID: 21740127.

3: Safavi-Abbas S, Senoglu M, Theodore N, Workman RK, Gharabaghi A, Feiz-Erfan I, Spetzler RF, Sonntag VK. Microsurgical management of spinal schwannomas: evaluation of 128 cases. J Neurosurg Spine. 2008 Jul;9(1):40-7. doi: 10.3171/SPI/2008/9/7/040. PubMed PMID: 18590409.

- 4: Horn EM, Lekovic GP, Feiz-Erfan I, Sonntag VK, Theodore N. Cervical magnetic resonance imaging abnormalities not predictive of cervical spine instability in traumatically injured patients. Invited submission from the Joint Section Meeting on Disorders of the Spine and Peripheral Nerves, March 2004. *J Neurosurg Spine*. 2004 Jul;1(1):39-42. PubMed PMID: 15291018.
- 5: Kakarla UK, Little AS, Chang SW, Sonntag VK, Theodore N. Placement of percutaneous thoracic pedicle screws using neuronavigation. *World Neurosurg*. 2010 Dec;74(6):606-10. doi: 10.1016/j.wneu.2010.03.028. PubMed PMID: 21492627.
- 6: Horn EM, Hott JS, Porter RW, Theodore N, Papadopoulos SM, Sonntag VK. Atlantoaxial stabilization with the use of C1-3 lateral mass screw fixation. Technical note. *J Neurosurg Spine*. 2006 Aug;5(2):172-7. PubMed PMID: 16925087.
- 7: Horn EM, Theodore N, Feiz-Erfan I, Lekovic GP, Dickman CA, Sonntag VK. Complications of halo fixation in the elderly. *J Neurosurg Spine*. 2006 Jul;5(1):46-9. PubMed PMID: 16850955.
- 8: Senoglu M, Safavi-Abbasi S, Theodore N, Bambakidis NC, Crawford NR, Sonntag VK. The frequency and clinical significance of congenital defects of the posterior and anterior arch of the atlas. *J Neurosurg Spine*. 2007 Oct;7(4):399-402. PubMed PMID: 17933313.
- 9: Theodore N, Kalani MY, Sonntag VK. Letter to the Editor: Occipitocervical fusion. *J Neurosurg Pediatr*. 2013 Nov;12(5):532-3. doi: 10.3171/2013.6.PEDS13271. Epub 2013 Sep 20. PubMed PMID: 24053567.
- 10: Horn EM, Feiz-Erfan I, Lekovic GP, Dickman CA, Sonntag VK, Theodore N. Survivors of occipitoatlantal dislocation injuries: imaging and clinical correlates. *J Neurosurg Spine*. 2007 Feb;6(2):113-20. PubMed PMID: 17330577.
- 11: Sonntag VK, Theodore N. Honored guest presentation: leading the future of spinal surgery. *Clin Neurosurg*. 2003;50:178-206. Review. PubMed PMID: 14677438.
- 12: Brasiliense LB, Theodore N, Lazaro BC, Sayed ZA, Deniz FE, Sonntag VK, Crawford NR. Quantitative analysis of misplaced pedicle screws in the thoracic spine: how much pullout strength is lost?: presented at the 2009 Joint Spine Section Meeting. *J Neurosurg Spine*. 2010 May;12(5):503-8. doi: 10.3171/2009.11.SPINE09408. PubMed PMID: 20433298.
- 13: Theodore N, Sonntag VK. Decision making in degenerative cervical spine surgery. *Clin Neurosurg*. 2001;48:260-76. Review. PubMed PMID: 11692646.
- 14: Lazaro BC, Deniz FE, Brasiliense LB, Reyes PM, Sawa AG, Theodore N, Sonntag VK, Crawford NR. Biomechanics of thoracic short versus long fixation after 3-column injury. *J Neurosurg Spine*. 2011 Feb;14(2):226-34. doi: 10.3171/2010.10.SPINE09785. Epub 2010 Dec 24. PubMed PMID: 21184641.
- 15: Subramaniam V, Chamberlain RH, Theodore N, Baek S, Safavi-Abbasi S, Senoğlu M, Sonntag VK, Crawford NR. Biomechanical effects of laminoplasty versus laminectomy: stenosis and stability. *Spine (Phila Pa 1976)*. 2009 Jul 15;34(16):E573-8. doi: 10.1097/BRS.0b013e3181aa0214. PubMed PMID: 19770600.
- 16: Wait SD, Ponce FA, Colle KO, Parry PV, Sonntag VK. Importance of the C1 anterior tubercle depth and lateral mass geometry when placing C1 lateral mass screws. *Neurosurgery*. 2009 Nov;65(5):952-6; discussion 956-7. doi: 10.1227/01.NEU.0000350156.20774.AC. PubMed PMID: 19834409.

- 17: Cavalcanti DD, Martirosyan NL, Verma K, Safavi-Abbasi S, Porter RW, Theodore N, Sonntag VK, Dickman CA, Spetzler RF. Surgical management and outcome of schwannomas in the craniocervical region. *J Neurosurg.* 2011 May;114(5):1257-67. doi: 10.3171/2010.5.JNS0966. Epub 2010 Jul 9. PubMed PMID: 20617880.
- 18: Hott JS, Papadopoulos SM, Theodore N, Dickman CA, Sonntag VK. Intraoperative Iso-C C-arm navigation in cervical spinal surgery: review of the first 52 cases. *Spine (Phila Pa 1976).* 2004 Dec 15;29(24):2856-60. PubMed PMID: 15599290.
- 19: Kakarla UK, Chang SW, Theodore N, Sonntag VK. Atlas fractures. *Neurosurgery.* 2010 Mar;66(3 Suppl):60-7. doi: 10.1227/01.NEU.0000366108.02499.8F. Review. PubMed PMID: 20173529.
- 20: Baaj AA, Uribe JS, Nichols TA, Theodore N, Crawford NR, Sonntag VK, Vale FL. Health care burden of cervical spine fractures in the United States: analysis of a nationwide database over a 10-year period. *J Neurosurg Spine.* 2010 Jul;13(1):61-6. doi: 10.3171/2010.3.SPINE09530. PubMed PMID: 20594019.
- 21: Eleraky MA, Theodore N, Adams M, Rekate HL, Sonntag VK. Pediatric cervical spine injuries: report of 102 cases and review of the literature. *J Neurosurg.* 2000 Jan;92(1 Suppl):12-7. Review. PubMed PMID: 10616052.
- 22: Chang SW, Kakarla UK, Maughan PH, DeSanto J, Fox D, Theodore N, Dickman CA, Papadopoulos S, Sonntag VK. Four-level anterior cervical discectomy and fusion with plate fixation: radiographic and clinical results. *Neurosurgery.* 2010 Apr;66(4):639-46; discussion 646-7. doi: 10.1227/01.NEU.0000367449.60796.94. PubMed PMID: 20305488.
- 23: Song GS, Theodore N, Dickman CA, Sonntag VK. Unilateral posterior atlantoaxial transarticular screw fixation. *J Neurosurg.* 1997 Dec;87(6):851-5. PubMed PMID: 9384394.
- 24: Rocha R, Safavi-Abbasi S, Reis C, Theodore N, Bambakidis N, de Oliveira E, Sonntag VK, Crawford NR. Working area, safety zones, and angles of approach for posterior C-1 lateral mass screw placement: a quantitative anatomical and morphometric evaluation. *J Neurosurg Spine.* 2007 Mar;6(3):247-54. PubMed PMID: 17355024.
- 25: Apostolides PJ, Theodore N, Karahalios DG, Sonntag VK. Triple anterior screw fixation of an acute combination atlas-axis fracture. Case report. *J Neurosurg.* 1997 Jul;87(1):96-9. PubMed PMID: 9202272.
- 26: Horn EM, Reyes PM, Baek S, Senoglu M, Theodore N, Sonntag VK, Crawford NR. Biomechanics of C-7 transfacet screw fixation. *J Neurosurg Spine.* 2009 Sep;11(3):338-43. doi: 10.3171/2009.3.SPINE08785. PubMed PMID: 19769516.
- 27: Horn EM, Theodore N, Crawford NR, Bambakidis NC, Sonntag VK. Transfacet screw placement for posterior fixation of C-7. *J Neurosurg Spine.* 2008 Aug;9(2):200-6. doi: 10.3171/SPI/2008/9/8/200. PubMed PMID: 18764755.
- 28: Kalb S, Reis MT, Cowperthwaite MC, Fox DJ, Lefevre R, Theodore N, Papadopoulos SM, Sonntag VK. Dysphagia after anterior cervical spine surgery: incidence and risk factors. *World Neurosurg.* 2012 Jan;77(1):183-7. doi: 10.1016/j.wneu.2011.07.004. Epub 2011 Nov 15. PubMed PMID: 22155226.
- 29: Baaj AA, Reyes PM, Yaqoobi AS, Uribe JS, Vale FL, Theodore N, Sonntag VK, Crawford NR. Biomechanical advantage of the index-level pedicle screw in unstable thoracolumbar junction fractures. *J Neurosurg Spine.* 2011 Feb;14(2):192-7. doi: 10.3171/2010.10.SPINE10222. Epub 2011 Jan

7. PubMed PMID: 21214311.

30: Oppenlander ME, Clark JC, Sonntag VK, Theodore N. Pediatric craniovertebral junction trauma. *Adv Tech Stand Neurosurg.* 2014;40:333-53. doi: 10.1007/978-3-319-01065-6_12. PubMed PMID: 24265053.

31: Mortazavi MM, Dogan S, Civelek E, Tubbs RS, Theodore N, Rekate HL, Sonntag VK. Pediatric multilevel spine injuries: an institutional experience. *Childs Nerv Syst.* 2011 Jul;27(7):1095-100. doi: 10.1007/s00381-010-1348-y. Epub 2010 Nov 26. PubMed PMID: 21110031.

32: Oppenlander ME, Kalyvas J, Sonntag VK, Theodore N. Technical advances in pediatric craniovertebral junction surgery. *Adv Tech Stand Neurosurg.* 2014;40:201-13. doi: 10.1007/978-3-319-01065-6_6. PubMed PMID: 24265047.

33: Dogan S, Safavi-Abbas S, Theodore N, Horn E, Rekate HL, Sonntag VK. Pediatric subaxial cervical spine injuries: origins, management, and outcome in 51 patients. *Neurosurg Focus.* 2006 Feb 15;20(2):E1. PubMed PMID: 16512652.

34: Maughan PH, Horn EM, Theodore N, Feiz-Erfan I, Sonntag VK. Avulsion fracture of the foramen magnum treated with occiput-to-c1 fusion: technical case report. *Neurosurgery.* 2005 Sep;57(3):E600; discussion E600. PubMed PMID: 16145511.

35: Lazaro BC, Brasiliense LB, Sawa AG, Reyes PM, Theodore N, Sonntag VK, Crawford NR. Biomechanics of a novel minimally invasive lumbar interspinous spacer: effects on kinematics, facet loads, and foramen height. *Neurosurgery.* 2010 Mar;66(3 Suppl Operative):126-32; discussion 132-3. doi: 10.1227/01.NEU.0000348561.59062.A2. PubMed PMID: 20173562.

36: Rekate HL, Theodore N, Sonntag VK, Dickman CA. Pediatric spine and spinal cord trauma. State of the art for the third millennium. *Childs Nerv Syst.* 1999 Nov;15(11-12):743-50. Review. PubMed PMID: 10603016.

37: Bambakidis NC, Horn EM, Nakaji P, Theodore N, Bless E, Dellovade T, Ma C, Wang X, Preul MC, Coons SW, Spetzler RF, Sonntag VK. Endogenous stem cell proliferation induced by intravenous hedgehog agonist administration after contusion in the adult rat spinal cord. *J Neurosurg Spine.* 2009 Feb;10(2):171-6. doi: 10.3171/2008.10.SPI08231. PubMed PMID: 19278333.

38: Rogers CL, Theodore N, Dickman CA, Sonntag VK, Thomas T, Lam S, Speiser BL. Surgery and permanent 125I seed paraspinal brachytherapy for malignant tumors with spinal cord compression. *Int J Radiat Oncol Biol Phys.* 2002 Oct 1;54(2):505-13. PubMed PMID: 12243829.

39: Dogan S, Safavi-Abbas S, Theodore N, Chang SW, Horn EM, Mariwalla NR, Rekate HL, Sonntag VK. Thoracolumbar and sacral spinal injuries in children and adolescents: a review of 89 cases. *J Neurosurg.* 2007 Jun;106(6 Suppl):426-33. PubMed PMID: 17566397.

40: Cavalcanti DD, Agrawal A, Garcia-Gonzalez U, Crawford NR, Tavares PL, Theodore N, Sonntag VK, Preul MC. Anterolateral C1-C2 transarticular fixation for atlantoaxial arthrodesis: landmarks, working area, and angles of approach. *Neurosurgery.* 2010 Sep;67(3 Suppl Operative):ons38-42. doi: 10.1227/01.NEU.0000383134.47267.OF. PubMed PMID: 20679950.

41: Theodore N, Sonntag VK. Spinal surgery: the past century and the next. *Neurosurgery.* 2000 Apr;46(4):767-77. Review. PubMed PMID: 10764249.

42: Bambakidis NC, Theodore N, Nakaji P, Harvey A, Sonntag VK, Preul MC, Miller RH. Endogenous

- stem cell proliferation after central nervous system injury: alternative therapeutic options. *Neurosurg Focus.* 2005 Sep 15;19(3):E1. Review. PubMed PMID: 16190599.
- 43: Baaj AA, Gantwerker BR, Theodore N, Uribe JS, Vale FL, Crawford NR, Sonntag VK. Radiographic Assessment of Thoracolumbar Fractures based on Axial Zones. *J Spinal Disord Tech.* 2012 Mar 27. [Epub ahead of print] PubMed PMID: 22456686.
- 44: Bambakidis NC, Butler J, Horn EM, Wang X, Preul MC, Theodore N, Spetzler RF, Sonntag VK. Stem cell biology and its therapeutic applications in the setting of spinal cord injury. *Neurosurg Focus.* 2008;24(3-4):E20. doi: 10.3171/FOC/2008/24/3-4/E19. Review. PubMed PMID: 18341397.
- 45: Assina R, Sankar T, Theodore N, Javedan SP, Gibson AR, Horn KM, Berens M, Sonntag VK, Preul MC. Activated autologous macrophage implantation in a large-animal model of spinal cord injury. *Neurosurg Focus.* 2008;25(5):E3. doi: 10.3171/FOC.2008.25.11.E3. PubMed PMID: 18980477.
- 46: Papadopoulos SM, Dickman CA, Sonntag VK. Atlantoaxial stabilization in rheumatoid arthritis. *J Neurosurg.* 1991 Jan;74(1):1-7. PubMed PMID: 1984487.
- 47: Tuite GF, Papadopoulos SM, Sonntag VK. Caspar plate fixation for the treatment of complex hangman's fractures. *Neurosurgery.* 1992 May;30(5):761-4; discussion 764-5. PubMed PMID: 1584391.
- 48: Senoglu M, Safavi-Abbasi S, Theodore N, Crawford NR, Sonntag VK. Feasible and accurate occipitoatlantal transarticular fixation: an anatomic study. *Neurosurgery.* 2010 Mar;66(3 Suppl Operative):173-7; discussion 177. doi: 10.1227/01.NEU.0000350982.03929.05. PubMed PMID: 20173567.
- 49: Hurlbert RJ, Theodore N, Drabier JB, Magwood AM, Sonntag VK. A prospective randomized double-blind controlled trial to evaluate the efficacy of an analgesic epidural paste following lumbar decompressive surgery. *J Neurosurg.* 1999 Apr;90(2 Suppl):191-7. PubMed PMID: 10199248.
- 50: Horn EM, Theodore N, Assina R, Spetzler RF, Sonntag VK, Preul MC. The effects of intrathecal hypotension on tissue perfusion and pathophysiological outcome after acute spinal cord injury. *Neurosurg Focus.* 2008;25(5):E12. doi: 10.3171/FOC.2008.25.11.E12. PubMed PMID: 18980472.
- 51: Bozkus H, Ames CP, Chamberlain RH, Nottmeier EW, Sonntag VK, Papadopoulos SM, Crawford NR. Biomechanical analysis of rigid stabilization techniques for three-column injury in the lower cervical spine. *Spine (Phila Pa 1976).* 2005 Apr 15;30(8):915-22. PubMed PMID: 15834336.
- 52: Dickman CA, Papadopoulos SM, Sonntag VK, Spetzler RF, Rekate HL, Drabier J. Traumatic occipitoatlantal dislocations. *J Spinal Disord.* 1993 Aug;6(4):300-13. Review. PubMed PMID: 8219544.
- 53: Dickman CA, Shedd SA, Spetzler RF, Shetter AG, Sonntag VK. Spinal epidural hematoma associated with epidural anesthesia: complications of systemic heparinization in patients receiving peripheral vascular thrombolytic therapy. *Anesthesiology.* 1990 May;72(5):947-50. PubMed PMID: 2339809.
- 54: Ames CP, Smith JS, Preul MC, Crawford NR, Kim GE, Nottmeier E, Chamberlain R, Speiser B, Sonntag VK, Dickman CA. Effect of recombinant human bone morphogenetic protein-2 in an experimental model of spinal fusion in a radiated area. *Spine (Phila Pa 1976).* 2005 Dec 1;30(23):2585-92. PubMed PMID: 16319743.
- 55: Naderi S, Crawford NR, Melton MS, Sonntag VK, Dickman CA. Biomechanical analysis of cranial

settling after transoral odontoidectomy. *Neurosurg Focus*. 1999 Jun 15;6(6):e7. PubMed PMID: 16972751.

56: Dickman CA, Sonntag VK. Cruciate paralysis after a traumatic upper cervical spine injury. *Spine (Phila Pa 1976)*. 1992 Oct;17(10):1268. PubMed PMID: 1440024.

57: Levi AD, Sonntag VK, Dickman C, Mather J, Li RH, Cordoba SC, Bichard B, Berens M. The role of cultured Schwann cell grafts in the repair of gaps within the peripheral nervous system of primates. *Exp Neurol*. 1997 Jan;143(1):25-36. PubMed PMID: 9000443.

58: Bartolomei JC, Theodore N, Sonntag VK. Adjacent level degeneration after anterior cervical fusion: a clinical review. *Neurosurg Clin N Am*. 2005 Oct;16(4):575-87, v. Review. PubMed PMID: 16326280.

59: Ng WP, Fehlings MG, Cuddy B, Dickman C, Fazl M, Green B, Hitchon P, Northrup B, Sonntag V, Wagner F, Tator CH. Surgical treatment for acute spinal cord injury study pilot study #2: evaluation of protocol for decompressive surgery within 8 hours of injury. *Neurosurg Focus*. 1999 Jan 15;6(1):e3. PubMed PMID: 17031916.

60: Dickman CA, Sonntag VK. Injuries involving the transverse atlantal ligament: classification and treatment guidelines based upon experience with 39 injuries. *Neurosurgery*. 1997 Apr;40(4):886-7. PubMed PMID: 9092872.

61: Green JR, Aidem H, Brown L, Brown S, George W, Harrington T, Hoffman G, Johnson R, Shetter A, Sonntag V, et al. Chymopapain and lumbar disc protrusion. *Ariz Med*. 1983 Sep;40(9):623-5. PubMed PMID: 6357154.

62: Chou D, Hartl R, Sonntag VK. Conus medullaris syndrome without lower-extremity involvement in L-1 burst fractures: report of four cases. *J Neurosurg Spine*. 2006 Mar;4(3):265-9. PubMed PMID: 16572629.

63: Gonzalez LF, Sonntag VK, Dickman CA, Crawford NR. Technique for fixating the atlantooccipital complex with a transarticular screw. *Spine (Phila Pa 1976)*. 2002 Jan 15;27(2):219-20. PubMed PMID: 11805673.

64: Naderi S, Crawford NR, Song GS, Sonntag VK, Dickman CA. Biomechanical comparison of C1-C2 posterior fixations. Cable, graft, and screw combinations. *Spine (Phila Pa 1976)*. 1998 Sep 15;23(18):1946-55; discussion 1955-6. PubMed PMID: 9779526.

65: Dickman CA, Theodore N, Hurlbert JR, Apostolides PJ, Sonntag VK. Thoracic disc. *J Neurosurg*. 1996 Jul;85(1):187-8; author reply 189-90. PubMed PMID: 8683272.

66: Zabramski JM, Spetzler RF, Sonntag VK. Impact of a standardized protocol and antibiotic-impregnated catheters on ventriculostomy infection rates in cerebrovascular patients. *Neurosurgery*. 2011 Jul;69(1):E260. doi: 10.1227/NEU.0b013e31821756ca. PubMed PMID: 21430594.

67: Gonzalez LF, Fiorella D, Crawford NR, Wallace RC, Feiz-Erfan I, Drumm D, Papadopoulos SM, Sonntag VK. Vertical atlantoaxial distraction injuries: radiological criteria and clinical implications. *J Neurosurg Spine*. 2004 Oct;1(3):273-80. PubMed PMID: 15478365.

68: Mamourian AC, Dickman CA, Drayer BP, Sonntag VK. Spinal epidural abscess: three cases following spinal epidural injection demonstrated with magnetic resonance imaging. *Anesthesiology*. 1993 Jan;78(1):204-7. PubMed PMID: 8424558.

- 69: Zabramski JM, Spetzler RF, Sonntag VK. Treatment of spinal cavernous angiomas. *J Neurosurg.* 1988 Sep;69(3):476. PubMed PMID: 3404246.
- 70: Marano SR, Sonntag VK, Spetzler RF. Planum sphenoidale meningioma mimicking pituitary apoplexy: a case report. *Neurosurgery.* 1984 Dec;15(6):859-62. PubMed PMID: 6514160.
- 71: Ames CP, Cornwall GB, Crawford NR, Nottmeier E, Chamberlain RH, Sonntag VK. Feasibility of a resorbable anterior cervical graft containment plate. *J Neurosurg.* 2002 Nov;97(4 Suppl):440-6. PubMed PMID: 12449198.
- 72: Marano SR, Fischer DW, Gaines C, Sonntag VK. Anatomical study of the superficial temporal artery. *Neurosurgery.* 1985 Jun;16(6):786-90. PubMed PMID: 4010900.
- 73: Abla AA, Maroon JC, Lochhead R, Sonntag VK, Maroon A, Field M. Return to golf after spine surgery. *J Neurosurg Spine.* 2011 Jan;14(1):23-30. doi: 10.3171/2010.9.SPINE10160. Epub 2010 Dec 10. PubMed PMID: 21142457.
- 74: Nehls DG, Spetzler RF, Shetter AG, Sonntag VK. Application of new technology in the treatment of cerebellopontine angle tumors. *Clin Neurosurg.* 1985;32:223-41. Review. PubMed PMID: 3933875.
- 75: Lazaro BC, Reyes PM, Newcomb AG, Yaqoobi AS, Brasiliense LB, Sonntag VK, Crawford NR. Biomechanics of dynamic rod segments for achieving transitional stiffness with lumbosacral fusion. *Neurosurgery.* 2013 Sep;73(3):517-27. doi: 10.1227/NEU.0000000000000009. PubMed PMID: 23756746.
- 76: Dickman CA, Mamourian A, Drayer BP, Sonntag VK, Spetzler RF. MR imaging of lateral disc herniation. *J Neurosurg.* 1990 Oct;73(4):642-3. PubMed PMID: 2264876.
- 77: Duggal N, Chamberlain RH, Perez-Garza LE, Espinoza-Larios A, Sonntag VK, Crawford NR. Hangman's fracture: a biomechanical comparison of stabilization techniques. *Spine (Phila Pa 1976).* 2007 Jan 15;32(2):182-7. PubMed PMID: 17224812.
- 78: Hott JS, Lynch JJ, Chamberlain RH, Sonntag VK, Crawford NR. Biomechanical comparison of C1-2 posterior fixation techniques. *J Neurosurg Spine.* 2005 Feb;2(2):175-81. PubMed PMID: 15739530.
- 79: Deshmukh VR, Rekate HL, Sonntag VK. High cervical disc herniation presenting with C-2 radiculopathy. Case report and review of the literature. *J Neurosurg.* 2004 Mar;100(3 Suppl Spine):303-6. Review. PubMed PMID: 15029922.
- 80: Gonzalez LF, Klopstein JD, Crawford NR, Dickman CA, Sonntag VK. Use of dual transarticular screws to fixate simultaneous occipitoatlantal and atlantoaxial dislocations. *J Neurosurg Spine.* 2005 Oct;3(4):318-23. PubMed PMID: 16266074.
- 81: Härtl R, Chamberlain RH, Fifield MS, Chou D, Sonntag VK, Crawford NR. Biomechanical comparison of two new atlantoaxial fixation techniques with C1-2 transarticular screw-graft fixation. *J Neurosurg Spine.* 2006 Oct;5(4):336-42. PubMed PMID: 17048771.
- 82: Duggal N, Chamberlain RH, Park SC, Sonntag VK, Dickman CA, Crawford NR. Unilateral cervical facet dislocation: biomechanics of fixation. *Spine (Phila Pa 1976).* 2005 Apr 1;30(7):E164-8. PubMed PMID: 15803065.
- 83: Feiz-Erfan I, Harrigan M, Sonntag VK, Harrington TR. Effect of autologous platelet gel on early and late graft fusion in anterior cervical spine surgery. *J Neurosurg Spine.* 2007 Nov;7(5):496-502. PubMed

PMID: 17977190.

- 84: Kroppenstedt SN, Golfinos J, Sonntag VK, Spetzler RF. Pineal region lesion masquerading choroid plexus papilloma: case report. *Surg Neurol.* 2003 Feb;59(2):124-7; discussion 127. PubMed PMID: 12648913.
- 85: Carter LP, Crowell RM, Sonntag VK, Spetzler RF. Cortical blood flow during extracranial-intracranial bypass surgery. *Stroke.* 1984 Sep-Oct;15(5):836-9. PubMed PMID: 6474534.
- 86: Bambakidis NC, Feiz-Erfan I, Horn EM, Gonzalez LF, Baek S, Yüksel KZ, Brantley AG, Sonntag VK, Crawford NR. Biomechanical comparison of occipitoatlantal screw fixation techniques. *J Neurosurg Spine.* 2008 Feb;8(2):143-52. doi: 10.3171/SPI/2008/8/2/143. PubMed PMID: 18248286.
- 87: Greene KA, Dickman CA, Marciano FF, Drabier J, Drayer BP, Sonntag VK. Transverse atlantal ligament disruption associated with odontoid fractures. *Spine (Phila Pa 1976).* 1994 Oct 15;19(20):2307-14. PubMed PMID: 7846576.
- 88: Greene KA, Marciano FF, Sonntag VK. Pharmacological management of spinal cord injury: current status of drugs designed to augment functional recovery of the injured human spinal cord. *J Spinal Disord.* 1996 Oct;9(5):355-66. Review. PubMed PMID: 8938603.
- 89: Schievink WI, Wijdicks EF, Meyer FB, Sonntag VK. Spontaneous intracranial hypotension mimicking aneurysmal subarachnoid hemorrhage. *Neurosurgery.* 2001 Mar;48(3):513-6; discussion 516-7. PubMed PMID: 11270540.
- 90: Spetzler RF, Hadley MN, Sonntag VK. The transoral approach to the anterior superior cervical spine. A review of 29 cases. *Acta Neurochir Suppl (Wien).* 1988;43:69-74. PubMed PMID: 3213660.
- 91: Kim LJ, Klopfenstein JD, Zabramski JM, Sonntag VK, Spetzler RF. Analysis of pain resolution after surgical resection of intramedullary spinal cord cavernous malformations. *Neurosurgery.* 2006 Jan;58(1):106-11; discussion 106-11. PubMed PMID: 16385334.
- 92: Lawton MT, Porter RW, Heiserman JE, Jacobowitz R, Sonntag VK, Dickman CA. Surgical management of spinal epidural hematoma: relationship between surgical timing and neurological outcome. *J Neurosurg.* 1995 Jul;83(1):1-7. PubMed PMID: 7782824.
- 93: Hadley MN, Fitzpatrick BC, Sonntag VK, Browner CM. Facet fracture-dislocation injuries of the cervical spine. *Neurosurgery.* 1992 May;30(5):661-6. PubMed PMID: 1584374.
- 94: Pope MH, Goel VK, Sumner DR, Andersson GB, Boden SD, Fraser RD, Garfin SR, Hanley EN Jr, Katz JN, Sonntag VK, et al. Biomechanics introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976).* 1995 Dec 15;20(24 Suppl):84S. PubMed PMID: 8747261.
- 95: Sonntag VK, Han PP, Vishteh AG. Anterior cervical discectomy. *Neurosurgery.* 2001 Oct;49(4):909-12. PubMed PMID: 11564253.
- 96: Detwiler PW, Spetzler CB, Taylor SB, Crawford NR, Porter RW, Sonntag VK. Biomechanical comparison of facet-sparing laminectomy and Christmas tree laminectomy. *J Neurosurg.* 2003 Sep;99(2 Suppl):214-20. PubMed PMID: 12956465.
- 97: Sonntag VK. Navigation and MRI during surgery: spine advances. *World Neurosurg.* 2012 Jul;78(1-2):76-7. doi: 10.1016/j.wneu.2011.10.025. Epub 2011 Nov 1. PubMed PMID: 22120215.

- 98: Galler RM, Dogan S, Fifield MS, Bozkus H, Chamberlain RH, Sonntag VK, Crawford NR. Biomechanical comparison of instrumented and uninstrumented multilevel cervical discectomy versus corpectomy. *Spine (Phila Pa 1976)*. 2007 May 15;32(11):1220-6. PubMed PMID: 17495779.
- 99: Greene KA, Dickman CA, Marciano FF, Drabier JB, Hadley MN, Sonntag VK. Acute axis fractures. Analysis of management and outcome in 340 consecutive cases. *Spine (Phila Pa 1976)*. 1997 Aug 15;22(16):1843-52. PubMed PMID: 9280020.
- 100: Dickman CA, Zabramski JM, Sonntag VK, Coons S. Myelopathy due to epidural varicose veins of the cervicothoracic junction. Case report. *J Neurosurg*. 1988 Dec;69(6):940-1. PubMed PMID: 3193200.
- 101: Sonntag VK, Marciano FF. Role of spinal instrumentation in fusion for degenerative disease of the lumbosacral spine. *West J Med*. 1995 Mar;162(3):262-3. PubMed PMID: 7725718; PubMed Central PMCID: PMC1022720.
- 102: Garrett MP, Kakarla UK, Porter RW, Sonntag VK. Formation of painful seroma and edema after the use of recombinant human bone morphogenetic protein-2 in posterolateral lumbar spine fusions. *Neurosurgery*. 2010 Jun;66(6):1044-9; discussion 1049. doi: 10.1227/01.NEU.0000369517.21018.F2. PubMed PMID: 20495420.
- 103: Herman JM, Sonntag VK. Cervical corpectomy and plate fixation for postlaminectomy kyphosis. *J Neurosurg*. 1994 Jun;80(6):963-70. PubMed PMID: 8189276.
- 104: Kick SA, Sonntag VK, Spetzler RF. Neurosurgery at the Barrow Neurological Institute. *Neurosurgery*. 1997 Oct;41(4):930-7. PubMed PMID: 9316056.
- 105: Bambakidis NC, Feiz-Erfan I, Klopfenstein JD, Sonntag VK. Indications for surgical fusion of the cervical and lumbar motion segment. *Spine (Phila Pa 1976)*. 2005 Aug 15;30(16 Suppl):S2-6. Review. PubMed PMID: 16103830.
- 106: Hadley MN, Zabramski JM, Browner CM, Rekate H, Sonntag VK. Pediatric spinal trauma. Review of 122 cases of spinal cord and vertebral column injuries. *J Neurosurg*. 1988 Jan;68(1):18-24. PubMed PMID: 3335907.
- 107: Sonntag VK, Klara P. Controversy in spine care. Is fusion necessary after anterior cervical discectomy? *Spine (Phila Pa 1976)*. 1996 May 1;21(9):1111-3. Review. PubMed PMID: 8724101.
- 108: Apostolides PJ, Dickman CA, Golfinos JG, Papadopoulos SM, Sonntag VK. Threaded Steinmann pin fusion of the cranivertebral junction. *Spine (Phila Pa 1976)*. 1996 Jul 15;21(14):1630-7. PubMed PMID: 8839464.
- 109: Kim LJ, Rekate HL, Klopfenstein JD, Sonntag VK. Treatment of basilar invagination associated with Chiari I malformations in the pediatric population: cervical reduction and posterior occipitocervical fusion. *J Neurosurg*. 2004 Nov;101(2 Suppl):189-95. PubMed PMID: 15835107.
- 110: Guest J, Eleraky MA, Apostolides PJ, Dickman CA, Sonntag VK. Traumatic central cord syndrome: results of surgical management. *J Neurosurg*. 2002 Jul;97(1 Suppl):25-32. PubMed PMID: 12120648.
- 111: Hadley MN, Dickman CA, Browner CM, Sonntag VK. Acute axis fractures: a review of 229 cases. *J Neurosurg*. 1989 Nov;71(5 Pt 1):642-7. PubMed PMID: 2809718.
- 112: Sonntag VK. Beware of the Arcuate Foramen. *World Neurosurg*. 2013 Oct 18. doi:pii: S1878-8750(13)01367-3. 10.1016/j.wneu.2013.10.042. [Epub ahead of print] PubMed PMID:

24145237.

- 113: Vishteh AG, Crawford NR, Chamberlain RH, Thramann JJ, Park SC, Craig JB, Sonntag VK, Dickman CA. Biomechanical comparison of anterior versus posterior lumbar threaded interbody fusion cages. *Spine (Phila Pa 1976)*. 2005 Feb 1;30(3):302-10. PubMed PMID: 15682011.
- 114: Hadley MN, Dickman CA, Browner CM, Sonntag VK. Acute traumatic atlas fractures: management and long term outcome. *Neurosurgery*. 1988 Jul;23(1):31-5. PubMed PMID: 3173661.
- 115: Chou D, Larios AE, Chamberlain RH, Fifield MS, Hartl R, Dickman CA, Sonntag VK, Crawford NR. A biomechanical comparison of three anterior thoracolumbar implants after corpectomy: are two screws better than one? *J Neurosurg Spine*. 2006 Mar;4(3):213-8. PubMed PMID: 16572620.
- 116: Abla AA, Link T, Fusco D, Wilson DA, Sonntag VK. Comparison of dural grafts in Chiari decompression surgery: Review of the literature. *J Craniovertebr Junction Spine*. 2010 Jan;1(1):29-37. doi: 10.4103/0974-8237.65479. PubMed PMID: 20890412; PubMed Central PMCID: PMC2944852.
- 117: Sonntag VK, Detwiler PW, Porter RW. Neurological surgery. *J Am Coll Surg*. 1999 Feb;188(2):161-70. Review. PubMed PMID: 10024160.
- 118: Hadley MN, Sonntag VK. Cervical disc herniations. The anterior approach to symptomatic interspace pathology. *Neurosurg Clin N Am*. 1993 Jan;4(1):45-52. Review. PubMed PMID: 8428155.
- 119: Nehls DG, Sonntag VK, Murphy AR, Johnson PC, Waggener JD. Fibroblastic tumor of the abducens nerve. Case report. *J Neurosurg*. 1985 Feb;62(2):296-9. PubMed PMID: 3968570.
- 120: Herman JM, Sonntag VK. Diving accidents. Mechanism of injury and treatment of the patient. *Crit Care Nurs Clin North Am*. 1991 Jun;3(2):331-7. PubMed PMID: 2054138.
- 121: Sonntag VK, Waggener JD. Congenital dermoid cyst of the anterior fontanel in a Mexican-American. *Surg Neurol*. 1980 May;13(5):371-3. PubMed PMID: 7385005.
- 122: Levi AD, Dickman CA, Sonntag VK. Management of postoperative infections after spinal instrumentation. *J Neurosurg*. 1997 Jun;86(6):975-80. PubMed PMID: 9171176.
- 123: Masferrer R, Gomez CH, Karahalios DG, Sonntag VK. Efficacy of pedicle screw fixation in the treatment of spinal instability and failed back surgery: a 5-year review. *J Neurosurg*. 1998 Sep;89(3):371-7. PubMed PMID: 9724109.
- 124: Yüksel KZ, Yüksel M, Gonzalez LF, Baek S, Heiserman JE, Sonntag VK, Crawford NR. Occipitocervical vertical distraction injuries: anatomical biomechanical, and 3-tesla magnetic resonance imaging investigation. *Spine (Phila Pa 1976)*. 2008 Sep 1;33(19):2066-73. doi: 10.1097/BRS.0b013e31817e2cfc. PubMed PMID: 18758362.
- 125: Sonntag VK. Excellence in spinal neurosurgery. *Clin Neurosurg*. 2010;57:15-8. PubMed PMID: 21280489.
- 126: Sonntag VK. The asymptomatic degenerative cervical disc: a dilemma. *World Neurosurg*. 2012 Sep-Oct;78(3-4):241-2. doi: 10.1016/j.wneu.2012.02.048. Epub 2012 Feb 22. PubMed PMID: 22366748.
- 127: Javedan S, Sonntag VK. Lumbar disc herniation: microsurgical approach. *Neurosurgery*. 2003 Jan;52(1):160-2; discussion 162-4. PubMed PMID: 12493114.

- 128: Sonntag VK. Atlantoaxial stabilization: a minimally invasive alternative. *World Neurosurg.* 2013 Sep-Oct;80(3-4):315-6. doi: 10.1016/j.wneu.2012.04.013. Epub 2012 Apr 28. PubMed PMID: 22548884.
- 129: Golfinos JG, Dickman CA, Zabramski JM, Sonntag VK, Spetzler RF. Repair of vertebral artery injury during anterior cervical decompression. *Spine (Phila Pa 1976)*. 1994 Nov 15;19(22):2552-6. PubMed PMID: 7855680.
- 130: Ronderos JF, Jacobowitz R, Sonntag VK, Crawford NR, Dickman CA. Comparative pull-out strength of tapped and untapped pilot holes for bicortical anterior cervical screws. *Spine (Phila Pa 1976)*. 1997 Jan 15;22(2):167-70. PubMed PMID: 9122796.
- 131: Eleraky MA, Masferrer R, Sonntag VK. Posterior atlantoaxial facet screw fixation in rheumatoid arthritis. *J Neurosurg.* 1998 Jul;89(1):8-12. PubMed PMID: 9647166.
- 132: Eleraky MA, Llanos C, Sonntag VK. Cervical corpectomy: report of 185 cases and review of the literature. *J Neurosurg.* 1999 Jan;90(1 Suppl):35-41. PubMed PMID: 10413123.
- 133: Paramore CG, Dickman CA, Sonntag VK. The anatomical suitability of the C1-2 complex for transarticular screw fixation. *J Neurosurg.* 1996 Aug;85(2):221-4. PubMed PMID: 8755749.
- 134: Broc GG, Crawford NR, Sonntag VK, Dickman CA. Biomechanical effects of transthoracic microdiscectomy. *Spine (Phila Pa 1976)*. 1997 Mar 15;22(6):605-12. PubMed PMID: 9089932.
- 135: Feiz-Erfan I, Klopfenstein JD, Bambakidis NC, Sonntag VK. Surgical management of cervical disc disease: from no fusion to fusion and back again. *Clin Neurosurg.* 2005;52:331-7. PubMed PMID: 16626090.
- 136: Sonntag VK. No movement, no cyst. *World Neurosurg.* 2013 May-Jun;79(5-6):660-1. doi: 10.1016/j.wneu.2012.11.021. Epub 2012 Nov 14. PubMed PMID: 23159654.
- 137: Agrawal A, Kapfhammer JP, Kress A, Wichers H, Deep A, Feindel W, Sonntag VK, Spetzler RF, Preul MC. Josef Klingler's models of white matter tracts: influences on neuroanatomy, neurosurgery, and neuroimaging. *Neurosurgery.* 2011 Aug;69(2):238-52; discussion 252-4. doi: 10.1227/NEU.0b013e318214ab79. PubMed PMID: 21368687.
- 138: Sonntag VK. Pedicle screw fixation made safer by the use of computed tomography-guided intraoperative navigation. *World Neurosurg.* 2013 Feb;79(2):286-7. doi: 10.1016/j.wneu.2011.06.050. Epub 2011 Nov 7. PubMed PMID: 22120343.
- 139: Hott JS, Deshmukh VR, Klopfenstein JD, Sonntag VK, Dickman CA, Spetzler RF, Papadopoulos SM. Intraoperative Iso-C C-arm navigation in craniospinal surgery: the first 60 cases. *Neurosurgery.* 2004 May;54(5):1131-6; discussion 1136-7. PubMed PMID: 15113467.
- 140: Sonntag VK. Treatment of the herniated lumbar disc: persistent problem. *World Neurosurg.* 2010 Dec;74(6):574-5. doi: 10.1016/j.wneu.2010.08.006. PubMed PMID: 21492621.
- 141: Vishteh AG, Schievink WI, Baskin JJ, Sonntag VK. Cervical bone spur presenting with spontaneous intracranial hypotension. Case report. *J Neurosurg.* 1998 Sep;89(3):483-4. PubMed PMID: 9724127.
- 142: Kim LJ, Sonntag VK, Hott JT, Nemeth JA, Klopfenstein JD, Tweardy L. Scalp burns from halo pins following magnetic resonance imaging. Case illustration. *J Neurosurg.* 2003 Jul;99(1):186. PubMed PMID: 12854765.

- 143: Paramore CG, Dickman CA, Sonntag VK. Radiographic and clinical follow-up review of Caspar plates in 49 patients. *J Neurosurg.* 1996 Jun;84(6):957-61. PubMed PMID: 8847590.
- 144: Porter RW, Crawford NR, Chamberlain RH, Park SC, Detwiler PW, Apostolides PJ, Sonntag VK. Biomechanical analysis of multilevel cervical corpectomy and plate constructs. *J Neurosurg.* 2003 Jul;99(1 Suppl):98-103. PubMed PMID: 12859068.
- 145: Sonntag VK. Concussions in soccer: use your head-but not as a weapon. *World Neurosurg.* 2012 Nov;78(5):431-2. doi: 10.1016/j.wneu.2011.12.064. Epub 2011 Dec 17. PubMed PMID: 22381293.
- 146: Tominaga T, Dickman CA, Sonntag VK, Coons S. Comparative anatomy of the baboon and the human cervical spine. *Spine (Phila Pa 1976).* 1995 Jan 15;20(2):131-7. PubMed PMID: 7716616.
- 147: Porchet F, Sonntag VK, Vrodos N. Cervical amyloidoma of C2. Case report and review of the literature. *Spine (Phila Pa 1976).* 1998 Jan 1;23(1):133-8. Review. PubMed PMID: 9460163.
- 148: Zubay GP, Sonntag VK. Revelations to deformity correction and scoliosis surgery. *Clin Neurosurg.* 2002;49:188-208. Review. PubMed PMID: 12506555.
- 149: Sonntag VK. Honored guest presentation: the neurosurgeon as mentor and student. *Clin Neurosurg.* 2003;50:329-38. Review. PubMed PMID: 14677450.
- 150: Nottmeier EW, Sonntag VK. Honored guest presentation: discovery of the spine specialist: instrumentation of the cervical spine. *Clin Neurosurg.* 2003;50:45-74. PubMed PMID: 14677435.
- 151: Dickman CA, Crawford NR, Tominaga T, Brantley AG, Coons S, Sonntag VK. Morphology and kinematics of the baboon upper cervical spine. A model of the atlantoaxial complex. *Spine (Phila Pa 1976).* 1994 Nov 15;19(22):2518-23. PubMed PMID: 7855675.
- 152: Dickman CA, Sonntag VK. Surgical management of atlantoaxial nonunions. *J Neurosurg.* 1995 Aug;83(2):248-53. PubMed PMID: 7616270.
- 153: Agrawal A, Cavalcanti DD, Garcia-Gonzalez U, Chang SW, Crawford NR, Sonntag VK, Spetzler RF, Preul MC. Comparison of extraoral and transoral approaches to the craniocervical junction: morphometric and quantitative analysis. *World Neurosurg.* 2010 Jul;74(1):178-88. doi: 10.1016/j.wneu.2010.03.034. PubMed PMID: 21300011.
- 154: Sawin PD, Dickman CA, Crawford NR, Melton MS, Bichard WD, Sonntag VK. The effects of dexamethasone on bone fusion in an experimental model of posterolateral lumbar spinal arthrodesis. *J Neurosurg.* 2001 Jan;94(1 Suppl):76-81. PubMed PMID: 11147871.
- 155: Chen TY, Crawford NR, Sonntag VK, Dickman CA. Biomechanical effects of progressive anterior cervical decompression. *Spine (Phila Pa 1976).* 2001 Jan 1;26(1):6-13; discussion 14. PubMed PMID: 11148638.
- 156: Dickman CA, Hadley MN, Browner C, Sonntag VK. Neurosurgical management of acute atlas-axis combination fractures. A review of 25 cases. *J Neurosurg.* 1989 Jan;70(1):45-9. PubMed PMID: 2909687.
- 157: Dickman CA, Rosenthal D, Karahalios DG, Paramore CG, Mican CA, Apostolides PJ, Lorenz R, Sonntag VK. Thoracic vertebrectomy and reconstruction using a microsurgical thoracoscopic approach. *Neurosurgery.* 1996 Feb;38(2):279-93. PubMed PMID: 8869055.

- 158: Sonntag VK. Lateral mass screw fixation of the atlas: importance of anatomy of C1 for lateral mass screw placement. *World Neurosurg.* 2010 Aug-Sep;74(2-3):270-1. doi: 10.1016/j.wneu.2010.06.010. PubMed PMID: 21492556.
- 159: Sonntag VK. Ossification of the ligamentum flavum (OLF): an increasing cause of cervical myelopathy. *World Neurosurg.* 2011 Mar-Apr;75(3-4):445-6. doi: 10.1016/j.wneu.2010.12.022. PubMed PMID: 21600492.
- 160: Sonntag VK. The World Cup and World Neurosurgery. *World Neurosurg.* 2010 Aug-Sep;74(2-3):234-8. doi: 10.1016/j.wneu.2010.08.019. PubMed PMID: 21492542.
- 161: Hadley MN, Sonntag VK, Amos MR, Hodak JA, Lopez LJ. Three-dimensional computed tomography in the diagnosis of vertebral column pathological conditions. *Neurosurgery.* 1987 Aug;21(2):186-92. PubMed PMID: 3658130.
- 162: Bambakidis NC, Wang X, Lukas RJ, Spetzler RF, Sonntag VK, Preul MC. Intravenous hedgehog agonist induces proliferation of neural and oligodendrocyte precursors in rodent spinal cord injury. *Neurosurgery.* 2010 Dec;67(6):1709-15; discussion 1715. doi: 10.1227/NEU.0b013e3181f9b0a5. PubMed PMID: 21107202.
- 163: Sonntag VK. Treatment of isthmic spondylolisthesis: still controversial. *World Neurosurg.* 2010 May;73(5):469-70. doi: 10.1016/j.wneu.2010.03.011. PubMed PMID: 20920927.
- 164: Levi AD, Sonntag VK. Management of posttraumatic syringomyelia using an expansile duraplasty. A case report. *Spine (Phila Pa 1976).* 1998 Jan 1;23(1):128-32. PubMed PMID: 9460162.
- 165: Hadley MN, Sonntag VK, Rekate HL, Murphy A. The infant whiplash-shake injury syndrome: a clinical and pathological study. *Neurosurgery.* 1989 Apr;24(4):536-40. PubMed PMID: 2710298.
- 166: Pappas CT, Gibson AR, Sonntag VK. Decussation of hind-limb and fore-limb fibers in the monkey corticospinal tract: relevance to cruciate paralysis. *J Neurosurg.* 1991 Dec;75(6):935-40. PubMed PMID: 1719167.
- 167: Dickman CA, Sonntag VK, Papadopoulos SM, Hadley MN. The interspinous method of posterior atlantoaxial arthrodesis. *J Neurosurg.* 1991 Feb;74(2):190-8. PubMed PMID: 1988587.
- 168: Sonntag VK, Herman JM. Reoperation of the cervical spine for degenerative disease and tumor. *Clin Neurosurg.* 1992;39:244-69. PubMed PMID: 1458743.
- 169: Ames CP, Crawford NR, Chamberlain RH, Cornwall GB, Nottmeier E, Sonntag VK. Feasibility of a resorbable anterior cervical graft containment plate. *Orthopedics.* 2002 Oct;25(10 Suppl):s1149-55. Review. PubMed PMID: 12401025.
- 170: Yuksel M, Heiserman JE, Sonntag VK. Magnetic resonance imaging of the craniocervical junction at 3-T: observation of the accessory atlantoaxial ligaments. *Neurosurgery.* 2006 Oct;59(4):888-92; discussion 892-3. PubMed PMID: 17038953.
- 171: Yilmaz M, Yuksel KZ, Baek S, Sawa AG, Dalbayrak S, Sonntag VK, Crawford NR. Biomechanics of Cervical "Skip" Corpectomy versus Standard Multilevel Corpectomy. *J Spinal Disord Tech.* 2012 Jul 13. [Epub ahead of print] PubMed PMID: 22801457; PubMed Central PMCID: PMC3549310.
- 172: Dickman CA, Zabramski JM, Rekate HL, Sonntag VK. Spinal cord injuries in children without radiographic abnormalities. *West J Med.* 1993 Jan;158(1):67-8. PubMed PMID: 8470391; PubMed

Central PMCID: PMC1021946.

173: Sonntag V, Pappas CT. Lumbar stenosis in the elderly. *West J Med.* 1988 Sep;149(3):324-5. PubMed PMID: 18750470; PubMed Central PMCID: PMC1026421.

174: Deniz FE, Brasiliense LB, Lazaro BC, Reyes PM, Sawa AG, Sonntag VK, Crawford NR. Biomechanical evaluation of posterior thoracic transpedicular discectomy. *J Neurosurg Spine.* 2010 Aug;13(2):253-9. doi: 10.3171/2010.3.SPINE09432. PubMed PMID: 20672963.

175: Detwiler PW, Porter RW, Harrington TR, Sonntag VK, Spetzler RF. Vascular decompression of a vertebral artery loop producing cervical radiculopathy. Case report. *J Neurosurg.* 1998 Sep;89(3):485-8. PubMed PMID: 9724128.

176: Marcotte P, Dickman CA, Sonntag VK, Karahalios DG, Drabier J. Posterior atlantoaxial facet screw fixation. *J Neurosurg.* 1993 Aug;79(2):234-7. PubMed PMID: 8331406.

177: Westmark RM, Westmark KD, Sonntag VK. Disappearing cervical disc. Case report. *J Neurosurg.* 1997 Feb;86(2):289-90. PubMed PMID: 9010432.

178: Sonntag VK, Plenge KL, Balis MS, Raudzens PA, Hodak JA, Clark RJ, Waggener JD. Surgical treatment of an abscess in a Rathke's cleft cyst. *Surg Neurol.* 1983 Aug;20(2):152-6. PubMed PMID: 6879413.

179: Plenge KL, Sonntag VK. Chronic subdural hematoma causing "transient ischemic attacks" in a young woman. *Ann Neurol.* 1979 Sep;6(3):279. PubMed PMID: 534432.

180: Karahalios DG, Apostolides PJ, Sonntag VK. Degenerative lumbar spinal instability: technical aspects of operative treatment. *Clin Neurosurg.* 1997;44:109-35. Review. PubMed PMID: 10080005.

181: Pappas CT, Harrington T, Sonntag VK. Outcome analysis in 654 surgically treated lumbar disc herniations. *Neurosurgery.* 1992 Jun;30(6):862-6. PubMed PMID: 1614587.

182: Kakarla UK, Valdivia JV, Sonntag VK, Bambakidis NC. Intracranial hemorrhage and spinal cord injury from a fractured C1-C2 sublaminar cable: case report. *Neurosurgery.* 2010 Jun;66(6):E1203-4. doi: 10.1227/01.NEU.0000369198.70959.E1. PubMed PMID: 20495390.

183: Dickman CA, Greene KA, Sonntag VK. Injuries involving the transverse atlantal ligament: classification and treatment guidelines based upon experience with 39 injuries. *Neurosurgery.* 1996 Jan;38(1):44-50. PubMed PMID: 8747950.

184: Levy DI, Sonntag VK. Titanium dural clip testing. Technical note. *J Neurosurg.* 1994 Dec;81(6):947-9. PubMed PMID: 7965130.

185: Dickman CA, Mamourian A, Sonntag VK, Drayer BP. Magnetic resonance imaging of the transverse atlantal ligament for the evaluation of atlantoaxial instability. *J Neurosurg.* 1991 Aug;75(2):221-7. PubMed PMID: 2072158.

186: Papadopoulos SM, Dickman CA, Sonntag VK, Rekate HL, Spetzler RF. Traumatic atlantooccipital dislocation with survival. *Neurosurgery.* 1991 Apr;28(4):574-9. PubMed PMID: 2034353.

187: Apostolides PJ, Jacobowitz R, Sonntag VK. Lumbar discectomy microdiscectomy: "the gold standard". *Clin Neurosurg.* 1996;43:228-38. Review. PubMed PMID: 9247807.

- 188: Vishteh AG, Beals SP, Joganic EF, Reiff JL, Dickman CA, Sonntag VK, Spetzler RF. Bilateral sagittal split mandibular osteotomies as an adjunct to the transoral approach to the anterior craniovertebral junction. Technical note. *J Neurosurg.* 1999 Apr;90(2 Suppl):267-70. PubMed PMID: 10199263.
- 189: Dickman CA, Hadley MN, Pappas CT, Sonntag VK, Geisler FH. Cruciate paralysis: a clinical and radiographic analysis of injuries to the cervicomedullary junction. *J Neurosurg.* 1990 Dec;73(6):850-8. Review. PubMed PMID: 2230968.
- 190: Hadley MN, Spetzler RF, Sonntag VK. The transoral approach to the superior cervical spine. A review of 53 cases of extradural cervicomedullary compression. *J Neurosurg.* 1989 Jul;71(1):16-23. PubMed PMID: 2738638.
- 191: Sonntag VK. Neurosurgical spine fellowships: the Phoenix model. *Acta Neurochir Suppl.* 1997;69:130-4. PubMed PMID: 9253459.
- 192: Sonntag VK, Waggner JD, Kaplan AM. Surgical removal of a hemangioma of the pineal region in a 4-week-old infant. *Neurosurgery.* 1981 May;8(5):586-8. PubMed PMID: 7266801.
- 193: Greene KA, Gorman WF, Sonntag VK. Gentle cervical hyperextension causing quadriplegia in an older man with symptomatic cervical spondylosis. *J Am Geriatr Soc.* 1998 Feb;46(2):208-9. PubMed PMID: 9475451.
- 194: Marano SR, Calica AB, Sonntag VK. Bilateral upper extremity paralysis (Bell's cruciate paralysis) from a gunshot wound to the cervicomedullary junction. *Neurosurgery.* 1986 May;18(5):642-4. PubMed PMID: 3714016.
- 195: Cagli S, Crawford NR, Sonntag VK, Dickman CA. Biomechanics of grade I degenerative lumbar spondylolisthesis. Part 2: treatment with threaded interbody cages/dowels and pedicle screws. *J Neurosurg.* 2001 Jan;94(1 Suppl):51-60. PubMed PMID: 11147868.
- 196: Vishteh AG, Crawford NR, Melton MS, Spetzler RF, Sonntag VK, Dickman CA. Stability of the craniovertebral junction after unilateral occipital condyle resection: a biomechanical study. *J Neurosurg.* 1999 Jan;90(1 Suppl):91-8. PubMed PMID: 10413132.
- 197: Hadley MN, Browner CM, Liu SS, Sonntag VK. New subtype of acute odontoid fractures (type IIA). *Neurosurgery.* 1988 Jan;22(1 Pt 1):67-71. PubMed PMID: 3344089.
- 198: Crawford NR, Cagli S, Sonntag VK, Dickman CA. Biomechanics of grade I degenerative lumbar spondylolisthesis. Part 1: in vitro model. *J Neurosurg.* 2001 Jan;94(1 Suppl):45-50. PubMed PMID: 11147867.
- 199: Safavi-Abbasi S, Feiz-Erfan I, Spetzler RF, Kim L, Dogan S, Porter RW, Sonntag VK. Hemorrhage of cavernous malformations during pregnancy and in the peripartum period: causal or coincidence? Case report and review of the literature. *Neurosurg Focus.* 2006 Jul 15;21(1):e12. PubMed PMID: 16859250.
- 200: Yücesoy K, Yüksel KZ, Baek S, Sonntag VK, Crawford NR. Biomechanics of unilateral compared with bilateral lumbar pedicle screw fixation for stabilization of unilateral vertebral disease. *J Neurosurg Spine.* 2008 Jan;8(1):44-51. doi: 10.3171/SPI-08/01/044. PubMed PMID: 18173346.
- 201: Dickman CA, Sonntag VK. Posterior C1-C2 transarticular screw fixation for atlantoaxial arthrodesis. *Neurosurgery.* 1998 Aug;43(2):275-80; discussion 280-1. PubMed PMID: 9696080.
- 202: Rocha R, Sawa AG, Baek S, Safavi-Abbasi S, Hattendorf F, Sonntag VK, Crawford NR. Atlantoaxial

rotatory subluxation with ligamentous disruption: a biomechanical comparison of current fusion methods. *Neurosurgery*. 2009 Mar;64(3 Suppl):ons137-43; discussion ons143-4. doi: 10.1227/01.NEU.0000335778.31497.5B. PubMed PMID: 19240563.

203: Dickman CA, Foley KT, Sonntag VK, Smith MM. Cannulated screws for odontoid screw fixation and atlantoaxial transarticular screw fixation. Technical note. *J Neurosurg*. 1995 Dec;83(6):1095-100. PubMed PMID: 7490629.

204: Pappas CT, Johnson PC, Sonntag VK. Signet-ring cell lymphoma of the central nervous system. Case report. *J Neurosurg*. 1988 Nov;69(5):789-92. PubMed PMID: 3183739.

205: Hadley MN, Martin NA, Spetzler RF, Sonntag VK, Johnson PC. Comparative transoral dural closure techniques: a canine model. *Neurosurgery*. 1988 Feb;22(2):392-7. PubMed PMID: 2451189.

206: Hott JS, Henn JS, Sonntag VK. A new table-fixed retractor for anterior odontoid screw fixation: technical note. *J Neurosurg*. 2003 Apr;98(3 Suppl):294-6. PubMed PMID: 12691389.

207: Bozkuş H, Senoğlu M, Baek S, Sawa AG, Ozer AF, Sonntag VK, Crawford NR. Dynamic lumbar pedicle screw-rod stabilization: in vitro biomechanical comparison with standard rigid pedicle screw-rod stabilization. *J Neurosurg Spine*. 2010 Feb;12(2):183-9. doi: 10.3171/2009.9.SPINE0951. PubMed PMID: 20121354.

208: Hadley MN, Browner C, Sonntag VK. Axis fractures: a comprehensive review of management and treatment in 107 cases. *Neurosurgery*. 1985 Aug;17(2):281-90. PubMed PMID: 4033879.

209: Gonzalez LF, Crawford NR, Chamberlain RH, Perez Garza LE, Preul MC, Sonntag VK, Dickman CA. Craniovertebral junction fixation with transarticular screws: biomechanical analysis of a novel technique. *J Neurosurg*. 2003 Mar;98(2 Suppl):202-9. PubMed PMID: 12650406.

210: Boden SD, Andersson GB, Fraser RD, Garfin SR, Goel VK, Hanley EN Jr, Katz JN, Pope MH, Sonntag VK, Spratt KF, et al. Selection of the optimal procedure to achieve lumbar spinal fusion. Introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976)*. 1995 Dec 15;20(24 Suppl):166S. PubMed PMID: 8747272.

211: Hott JS, Feiz-Erfan I, Kim LJ, Rekate HL, Sonntag VK. Nonsurgical treatment of a C6-7 unilateral locked facet joint in an infant. Case report. *J Neurosurg*. 2004 Feb;100(2 Suppl Pediatrics):220-2. PubMed PMID: 14758955.

212: Yüksel KZ, Adams MS, Chamberlain RH, Potocnjak M, Park SC, Sonntag VK, Crawford NR. Pullout resistance of thoracic extrapedicular screws used as a salvage procedure. *Spine J*. 2007 May-Jun;7(3):286-91. Epub 2006 Sep 11. PubMed PMID: 17482111.

213: Dickman CA, Sonntag VK, Johnson P, Medina M. Amyloidoma of the cervical spine: a case report. *Neurosurgery*. 1988 Feb;22(2):419-22. PubMed PMID: 3352895.

214: Dickman CA, Crawford NR, Brantley AG, Sonntag VK. Biomechanical effects of transoral odontoidectomy. *Neurosurgery*. 1995 Jun;36(6):1146-52; discussion 1152-3. PubMed PMID: 7643995.

215: Crawford NR, Duggal N, Chamberlain RH, Park SC, Sonntag VK, Dickman CA. Unilateral cervical facet dislocation: injury mechanism and biomechanical consequences. *Spine (Phila Pa 1976)*. 2002 Sep 1;27(17):1858-64; discussion 1864. PubMed PMID: 12221349.

216: Espinoza-Larios A, Ames CP, Chamberlain RH, Sonntag VK, Dickman CA, Crawford NR.

- Biomechanical comparison of two-level cervical locking posterior screw/rod and hook/rod techniques. *Spine J.* 2007 Mar-Apr;7(2):194-204. Epub 2006 Dec 22. PubMed PMID: 17321969.
- 217: Apostolides PJ, Karahalios DG, Yapp RA, Sonntag VK. Use of the BendMeister rod bender for occipitocervical fusion: technical note. *Neurosurgery.* 1998 Aug;43(2):389-90; discussion 391. PubMed PMID: 9696098.
- 218: Brasiliense LB, Lazaro BC, Reyes PM, Fox D, Sonntag VK, Crawford NR. Stabilization of the atlantoaxial joint with C1-C3 lateral mass screw constructs: biomechanical comparison with standard technique. *Neurosurgery.* 2010 Dec;67(2 Suppl Operative):422-8. doi: 10.1227/NEU.0b013e3181fb414c. PubMed PMID: 21099568.
- 219: Ames CP, Crawford NR, Chamberlain RH, Deshmukh V, Sadikovic B, Sonntag VK. Biomechanical evaluation of a bioresorbable odontoid screw. *J Neurosurg Spine.* 2005 Feb;2(2):182-7. PubMed PMID: 15739531.
- 220: Bailes JE, Hadley MN, Quigley MR, Sonntag VK, Cerullo LJ. Management of athletic injuries of the cervical spine and spinal cord. *Neurosurgery.* 1991 Oct;29(4):491-7. PubMed PMID: 1944827.
- 221: Adams MS, Crawford NR, Chamberlain RH, Bse, Sonntag VK, Dickman CA. Biomechanical comparison of anterior cervical plating and combined anterior/lateral mass plating. *Spine J.* 2001 May-Jun;1(3):166-70. PubMed PMID: 14588343.
- 222: Visocchi M, Masferrer R, Sonntag VK, Dickman CA. Thoracoscopic approaches to the thoracic spine. *Acta Neurochir (Wien).* 1998;140(8):737-43; discussion 743-4. PubMed PMID: 9810439.
- 223: Sonntag VK, Kalfas I. Innovative cervical fusion and instrumentation techniques. *Clin Neurosurg.* 1991;37:636-60. Review. PubMed PMID: 2009712.
- 224: Boden SD, Sumner DR, Andersson GB, Fraser RD, Garfin SR, Goel VK, Hanley EN Jr, Katz JN, Pope MH, Sonntag VK, et al. Biologic issues in lumbar spinal fusion. Introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976).* 1995 Dec 15;20(24 Suppl):100S-101S. PubMed PMID: 8747263.
- 225: Fehlings MG, Rao SC, Tator CH, Skaf G, Arnold P, Benzel E, Dickman C, Cuddy B, Green B, Hitchon P, Northrup B, Sonntag V, Wagner F, Wilberger J. The optimal radiologic method for assessing spinal canal compromise and cord compression in patients with cervical spinal cord injury. Part II: Results of a multicenter study. *Spine (Phila Pa 1976).* 1999 Mar 15;24(6):605-13. PubMed PMID: 10101829.
- 226: Burnett MG, Sonntag VK. Return to contact sports after spinal surgery. *Neurosurg Focus.* 2006 Oct 15;21(4):E5. PubMed PMID: 17112195.
- 227: Bracken MB, Shepard MJ, Holford TR, Leo-Summers L, Aldrich EF, Fazl M, Fehlings M, Herr DL, Hitchon PW, Marshall LF, Nockels RP, Pascale V, Perot PL Jr, Piepmeier J, Sonntag VK, Wagner F, Wilberger JE, Winn HR, Young W. Administration of methylprednisolone for 24 or 48 hours or tirilazad mesylate for 48 hours in the treatment of acute spinal cord injury. Results of the Third National Acute Spinal Cord Injury Randomized Controlled Trial. *National Acute Spinal Cord Injury Study. JAMA.* 1997 May 28;277(20):1597-604. PubMed PMID: 9168289.
- 228: Bracken MB, Aldrich EF, Herr DL, Hitchon PW, Holford TR, Marshall LF, Nockels RP, Pascale V, Shepard MJ, Sonntag VK, Winn HR, Young W. Clinical measurement, statistical analysis, and risk-benefit: controversies from trials of spinal injury. *J Trauma.* 2000 Mar;48(3):558-61. PubMed PMID: 10744306.

- 229: Chen TY, Dickman CA, Eleraky M, Sonntag VK. The role of decompression for acute incomplete cervical spinal cord injury in cervical spondylosis. *Spine (Phila Pa 1976)*. 1998 Nov 15;23(22):2398-403. PubMed PMID: 9836353.
- 230: Hadley MN, Sonntag VK, Pittman HW. Suprascapular nerve entrapment. A summary of seven cases. *J Neurosurg*. 1986 Jun;64(6):843-8. PubMed PMID: 3701435.
- 231: Sonntag VK, Marciano FF. Is fusion indicated for lumbar spinal disorders? *Spine (Phila Pa 1976)*. 1995 Dec 15;20(24 Suppl):138S-142S. Review. PubMed PMID: 8747268.
- 232: Teitelbaum GP, Shaolian S, McDougall CG, Preul MC, Crawford NR, Sonntag VK. New percutaneously inserted spinal fixation system. *Spine (Phila Pa 1976)*. 2004 Mar 15;29(6):703-9. PubMed PMID: 15014282.
- 233: Sonntag VK. Athena, Aesculapius and beyond: the art of mentoring: 2001 North American Spine Society presidential address. *Spine J*. 2002 Jan-Feb;2(1):5-9. PubMed PMID: 14588283.
- 234: Sonntag VK, Hadley MN, Dickman CA, Browner CM. Atlas fractures: treatment and long-term results. *Acta Neurochir Suppl (Wien)*. 1988;43:63-8. PubMed PMID: 3213659.
- 235: Doğan S, Baek S, Sonntag VK, Crawford NR. Biomechanical consequences of cervical spondylectomy versus corpectomy. *Neurosurgery*. 2008 Oct;63(4 Suppl 2):303-8; discussion 308. doi: 10.1227/01.NEU.0000327569.03654.96. PubMed PMID: 18981835.
- 236: Vishteh AG, Coscarella E, Nguyen B, Sonntag VK, McDougall CG. Fatal basilar artery thrombosis after traumatic cervical facet dislocation. Case report. *J Neurosurg Sci*. 1999 Sep;43(3):195-9. PubMed PMID: 10817387.
- 237: Sonntag VK. The development of spinal neurosurgery: a historical perspective. *Neurosurgery*. 2007 Apr;60(4):587-8. PubMed PMID: 17415192.
- 238: Levi AD, Choi WG, Keller PJ, Heiserman JE, Sonntag VK, Dickman CA. The radiographic and imaging characteristics of porous tantalum implants within the human cervical spine. *Spine (Phila Pa 1976)*. 1998 Jun 1;23(11):1245-50; discussion 1251. PubMed PMID: 9636978.
- 239: Browner CM, Hadley MN, Sonntag VK, Mattingly LG. Halo immobilization brace care: an innovative approach. *J Neurosci Nurs*. 1987 Feb;19(1):24-9. PubMed PMID: 2951452.
- 240: Sonntag VK. Lumbar and cervical disc herniations: a common problem, many solutions. *World Neurosurg*. 2012 Jan;77(1):71-2. doi: 10.1016/j.wneu.2011.06.007. PubMed PMID: 22405388.
- 241: Eleraky MA, Apostolidis PJ, Dickman CA, Sonntag VK. Herniated thoracic discs mimic cardiac disease: three case reports. *Acta Neurochir (Wien)*. 1998;140(7):643-6. PubMed PMID: 9781275.
- 242: Sonntag VK. The early management of cervical spine injuries. *Ariz Med*. 1982 Oct;39(10):644-7. PubMed PMID: 7150023.
- 243: Knightly JJ, Greene KA, Marciano FF, Ronderos JF, Sonntag VK. Locked facets and disc herniation. *J Neurosurg*. 1994 May;80(5):952-3. PubMed PMID: 8169646.
- 244: Dickman CA, Rekate HL, Sonntag VK, Zabramski JM. Pediatric spinal trauma: vertebral column and spinal cord injuries in children. *Pediatr Neurosci*. 1989;15(5):237-55; discussion 56. Review. PubMed PMID: 2488952.

- 245: Menezes AH, Sonntag VK, Wang MY. The management of cranivertebral junction disorders. Foreword. *Neurosurgery*. 2010 Mar;66(3 Suppl):1. doi: 10.1227/01.neu.0000369104.01471.43. PubMed PMID: 20173510.
- 246: Zdeblick TA, Hanley EN Jr, Sonntag VK, Andersson GB, Boden SD, Fraser RD, Garfin SR, Goel VK, Katz JN, Pope MH, et al. Indications for lumbar spinal fusion. Introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976)*. 1995 Dec 15;20(24 Suppl):124S-125S. PubMed PMID: 8747266.
- 247: Cagli S, Chamberlain RH, Sonntag VK, Crawford NR. The biomechanical effects of cervical multilevel oblique corpectomy. *Spine (Phila Pa 1976)*. 2004 Jul 1;29(13):1420-7. PubMed PMID: 15223932.
- 248: Liu SS, Williams KD, Drayer BP, Spetzler RF, Sonntag VK. Synovial cysts of the lumbosacral spine: diagnosis by MR imaging. *AJR Am J Roentgenol*. 1990 Jan;154(1):163-6. PubMed PMID: 2104702.
- 249: Kushchayev SV, Moskalenko VF, Wiener PC, Tsymbaliuk VI, Cherkasov VG, Dzyavulska IV, Kovalchuk OI, Sonntag VK, Spetzler RF, Preul MC. The discovery of the pyramidal neurons: Vladimir Betz and a new era of neuroscience. *Brain*. 2012 Jan;135(Pt 1):285-300. doi: 10.1093/brain/awr276. Epub 2011 Nov 10. PubMed PMID: 22075067.
- 250: Sonntag VK, Douglas RA. Management of cervical spinal cord trauma. *J Neurotrauma*. 1992 Mar;9 Suppl 1:S385-96. Review. PubMed PMID: 1588629.
- 251: Demakas JJ, Sonntag VK, Kaplan AM, Kelley JJ, Waggner JD. Surgical management of pineal area tumors in early childhood. *Surg Neurol*. 1982 Jun;17(6):435-40. PubMed PMID: 7112375.
- 252: Yucesoy K, Sonntag VK. Terminology confusion in spinal surgery: laminotomy, laminoplasty, laminectomy. *J Neurosurg*. 2000 Feb;92(2):371. PubMed PMID: 10659036.
- 253: Liu SS, Johnson PC, Sonntag VK. Meningioangiomatosis: a case report. *Surg Neurol*. 1989 May;31(5):376-80. PubMed PMID: 2496485.
- 254: Liu SS, Williams KD, Drayer BP, Spetzler RF, Sonntag VK. Synovial cysts of the lumbosacral spine: diagnosis by MR imaging. *AJNR Am J Neuroradiol*. 1989 Nov-Dec;10(6):1239-42. PubMed PMID: 2512789.
- 255: Katz JN, Spratt KF, Andersson GB, Boden SD, Fraser RD, Garfin SR, Goel VK, Hanley EN Jr, Pope MH, Sonntag VK, et al. Epidemiology introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976)*. 1995 Dec 15;20(24 Suppl):76S-77S. PubMed PMID: 8747259.
- 256: Sonntag VK, Stein BM. Intracerebral Ewing's sarcoma: case report. *Neurosurgery*. 1978 Jan-Feb;2(1):55-7. PubMed PMID: 683483.
- 257: Hood RS, Sonntag VK, Stein BM. Letter: Arteritis due to EACA therapy. *J Neurosurg*. 1975 Jan;42(1):117-8. PubMed PMID: 1110384.
- 258: Sonntag VK, Stein BM. Arteriopathic complications during treatment of subarachnoid hemorrhage with epsilon-aminocaproic acid. *J Neurosurg*. 1974 Apr;40(4):480-5. PubMed PMID: 4814379.
- 259: Sonntag VK, Yuan RH, Stein BM. Giant intracranial aneurysms: a review of 13 cases. *Surg Neurol*. 1977 Aug;8(2):81-4. PubMed PMID: 888090.
- 260: Dickman CA, Zabramski JM, Hadley MN, Rekate HL, Sonntag VK. Pediatric spinal cord injury

- without radiographic abnormalities: report of 26 cases and review of the literature. *J Spinal Disord.* 1991 Sep;4(3):296-305. Review. PubMed PMID: 1802160.
- 261: Sonntag VK, Steiner S, Stein BM. Neurosurgery and the physician assistant. *Surg Neurol.* 1977 Sep;8(3):207-8. PubMed PMID: 19852.
- 262: Wilberger JE, Hoffman HJ, Fabi RA, Reilly GD, Tahmouresie A, Alexander E Jr, Shuey HM Jr, Sonntag VK, Pelofsky S, Goodman JM, Awad IA, Giannotta SL, Van Gilder JC, Herz DA, Collins WF. Subspecialty certification. *Surg Neurol.* 1997 Apr;47(4):403-11. PubMed PMID: 9122849.
- 263: Detwiler PW, Marciano FF, Porter RW, Sonntag VK. Lumbar stenosis: indications for fusion with and without instrumentation. *Neurosurg Focus.* 1997 Aug 15;3(2):e4; discussion 1 p following e4. PubMed PMID: 15104422.
- 264: Garfin SR, Spratt KF, Andersson GB, Boden SD, Fraser RD, Goel VK, Hanley EN Jr, Katz JN, Pope MH, Sonntag VK, et al. Use of internal fixation instrumentation. Introduction. 1995 Focus Issue Meeting on Fusion. *Spine (Phila Pa 1976).* 1995 Dec 15;20(24 Suppl):154S-156S. PubMed PMID: 8747270.
- 265: Detwiler PW, Porter RW, Han PP, Karahalios DG, Masferrer R, Sonntag VK. Surgical treatment of lumbar spondylolisthesis. *Adv Tech Stand Neurosurg.* 2000;26:331-46. Review. PubMed PMID: 10997202.
- 266: Sonntag VK, Hadley MN. Nonoperative management of cervical spine injuries. *Clin Neurosurg.* 1988;34:630-49. Review. PubMed PMID: 3288418.
- 267: Hott JS, Horn E, Sonntag VK, Coons SW, Shetter A. Intramedullary histoplasmosis spinal cord abscess in a nonendemic region: case report and review of the literature. *J Spinal Disord Tech.* 2003 Apr;16(2):212-5. Review. PubMed PMID: 12679679.
- 268: Sonntag VK. Management of bilateral locked facets of the cervical spine. *Neurosurgery.* 1981 Feb;8(2):150-2. PubMed PMID: 7207780.
- 269: Ames CP, Crawford NR, Chamberlain RH, Deshmukh V, Sadikovic B, Sonntag VK. Biomechanical analysis of a resorbable anterior cervical graft containment plate. *Spine (Phila Pa 1976).* 2005 May 1;30(9):1031-8. PubMed PMID: 15864155.
- 270: Bracken MB, Shepard MJ, Holford TR, Leo-Summers L, Aldrich EF, Fazl M, Fehlings MG, Herr DL, Hitchon PW, Marshall LF, Nockels RP, Pascale V, Perot PL Jr, Piepmeyer J, Sonntag VK, Wagner F, Wilberger JE, Winn HR, Young W. Methylprednisolone or tirlazad mesylate administration after acute spinal cord injury: 1-year follow up. Results of the third National Acute Spinal Cord Injury randomized controlled trial. *J Neurosurg.* 1998 Nov;89(5):699-706. PubMed PMID: 9817404.
- 271: Hadley MN, Sonntag VK, Grahm TW, Masferrer R, Browner C. Axis fractures resulting from motor vehicle accidents. The need for occupant restraints. *Spine (Phila Pa 1976).* 1986 Nov;11(9):861-4. PubMed PMID: 3824060.
- 272: Ames CP, Bozkus MH, Chamberlain RH, Acosta FL Jr, Papadopoulos SM, Sonntag VK, Crawford NR. Biomechanics of stabilization after cervicothoracic compression-flexion injury. *Spine (Phila Pa 1976).* 2005 Jul 1;30(13):1505-12. PubMed PMID: 15990664.
- 273: Sonntag VK. Acute subdural hematoma with a lucid interval. *JAMA.* 1978 Nov 17;240(21):2284-5. PubMed PMID: 702756.

- 274: Bloomfield SM, Sonntag VK. Delayed cerebral vasospasm after uncomplicated operation on an unruptured aneurysm: case report. *Neurosurgery*. 1985 Nov;17(5):792-6. PubMed PMID: 4069331.
- 275: Sonntag VK, Douglas RA. Management of spinal cord trauma. *Neurosurg Clin N Am*. 1990 Jul;1(3):729-50. Review. PubMed PMID: 2136166.
- 276: Sonntag VK, Dickman CA. Craniocervical stabilization. *Clin Neurosurg*. 1993;40:243-72. Review. PubMed PMID: 8111986.
- 277: Sonntag VK. Unusual penetrating injury of the superior sagittal sinus. *Surg Neurol*. 1982 Nov;18(5):350. PubMed PMID: 7179097.
- 278: Scott RM, Sonntag VK, Wilcox LM, Adelman LS, Rockel TH. Visual loss from optochiasmatic arachnoiditis after tuberculous meningitis. Case report. *J Neurosurg*. 1977 Apr;46(4):524-6. PubMed PMID: 845636.
- 279: Sonntag VK. Unusual presentations of lumbar stenosis. *Ariz Med*. 1984 Apr;41(4):228-34. PubMed PMID: 6743032.
- 280: Sonntag VK, Kelly JJ. Adult shunt ascites. *Ariz Med*. 1981 Mar;38(3):182-4. PubMed PMID: 7224871.
- 281: Sonntag VK. Effects of L-dopa on five patients with parkinsonism. *Ariz Med*. 1970 Apr;27(4):96-8. PubMed PMID: 5427441.
- 282: Sonntag VK. Trans-sphenoidal hypophysectomy for intractable cancer pain. *Ariz Med*. 1981 Jan;38(1):23-5. PubMed PMID: 7197149.
- 283: Sonntag VK. Letter: Foot drop and the peroneal nerve. *N Engl J Med*. 1976 Sep 9;295(11):625-6. PubMed PMID: 950982.
- 284: Sonntag VK. Letter: Tinel's sign. *N Engl J Med*. 1974 Aug 1;291(5):263. PubMed PMID: 4599986.
- 285: Andersson GB, Burkus JK, Foley KT, Haid RW, Nockels RP, Polly DW Jr, Sonntag VK, Traynelis VC, Weinstein JN. Summary statement: treatment of the painful motion segment. *Spine (Phila Pa 1976)*. 2005 Aug 15;30(16 Suppl):S1. Review. PubMed PMID: 16103828.
- 286: Naderi S, Detwiler PW, Sonntag VKH. Degenerative spondylolisthesis: when to fuse? *Crit Rev Neurosurg*. 1998 Jul 20;8(4):217-20. PubMed PMID: 9683681.

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