

Salt Lake City

Salt Lake City (often shortened to Salt Lake and abbreviated as SLC) is the capital and the most populous municipality of the U.S. state of Utah. With an estimated population of 190,884 in 2014.

Utah Valley Regional Medical Center (Provo). Utah Valley Regional Medical Center, part of Salt Lake City-based Intermountain Healthcare, employs three neurosurgeons to deliver neurological and spinal surgical care, ranked 69th and 214th in the nation, respectively, by CareChex. The hospital features a neurological trauma and intensive care unit. U.S. News & World Report named the hospital the best in northern Utah for spine and neurosurgical procedures.

Department of Neurosurgery University of [Utah](#), [Salt Lake City](#).

Howard Colman

Division of Pediatric Neurosurgery, Department of Neurosurgery, Primary Children's Hospital, University of Utah

Utah Valley Regional Medical Center (Provo). Utah Valley Regional Medical Center, part of [Salt Lake City](#)-based Intermountain Healthcare, employs three neurosurgeons to deliver neurological and spinal surgical care, ranked 69th and 214th in the nation, respectively, by CareChex. The hospital features a neurological trauma and intensive care unit. U.S. News & World Report named the hospital the best in northern Utah for spine and neurosurgical procedures.

Peoples AR, Oswald LB, Ose J, Daniels B, Himbert C, Hathaway CA, Gigic B, Kirchhoff AC, Lin T, Grossman D, Tward J, Varghese TK Jr, Figueiredo JC, Toriola AT, Beck A, Scaife C, Shibata D, LaStayo P, Gonzalez B, Salas K, Ashworth A, Matsen C, Christenson C, Ma DS, Colman H, Hunt JP, Jones KB, Lee CJ, Larson M, Onega T, Akerley WL, Li CI, Schneider M, Penedo FJ, Siegel EM, Tworoger SS, Ulrich CM. [Impact](#) of the [COVID-19 pandemic](#) on rural and urban [cancer](#) patients' experiences, health behaviors, and perceptions. J Rural Health. 2022 Mar 3. doi: 10.1111/jrh.12648. Epub ahead of print. PMID: 35243690.

1201: Couldwell WT, Weiss MH, Rabb C, Liu JK, Apfelbaum RI, Fukushima T. Variations on the standard transsphenoidal approach to the sellar region, with emphasis on the extended approaches and parasellar approaches: surgical experience in 105 cases. Neurosurgery. 2004 Sep;55(3):539-47; discussion 547-50. PubMed PMID: 15335421.

1202: Gottfried ON, Liu JK, Couldwell WT. Comparison of radiosurgery and conventional surgery for the treatment of glomus jugulare tumors. Neurosurg Focus. 2004 Aug 15;17(2):E4. Review. PubMed PMID: 15329019.

1203: Fassett DR, Schmidt MH. Lumbosacral ependymomas: a review of the management of

intradural and extradural tumors. *Neurosurg Focus*. 2003 Nov 15;15(5):E13. Review. PubMed PMID: 15323470.

1204: Liu JK, Brockmeyer DL, Dailey AT, Schmidt MH. Surgical management of aneurysmal bone cysts of the spine. *Neurosurg Focus*. 2003 Nov 15;15(5):E4. Review. PubMed PMID: 15323461.

1205: Liu JK, Apfelbaum RI, Chiles BW 3rd, Schmidt MH. Cervical spinal metastasis: anterior reconstruction and stabilization techniques after tumor resection. *Neurosurg Focus*. 2003 Nov 15;15(5):E2. Review. PubMed PMID: 15323459.

1206: Klimo P Jr, Kestle JR, Schmidt MH. Treatment of metastatic spinal epidural disease: a review of the literature. *Neurosurg Focus*. 2003 Nov 15;15(5):E1. Review. PubMed PMID: 15323458.

1207: Walker M, Browd SR. Craniopagus twins: embryology, classification, surgical anatomy, and separation. *Childs Nerv Syst*. 2004 Aug;20(8-9):554-66. Epub 2004 Jul 23. Review. PubMed PMID: 15278385.

1208: Liu JK, Apfelbaum RI. Treatment of trigeminal neuralgia. *Neurosurg Clin N Am*. 2004 Jul;15(3):319-34. Review. PubMed PMID: 15246340.

1209: Jensen RL. Cauda equina syndrome as a postoperative complication of lumbar spine surgery. *Neurosurg Focus*. 2004 Jun 15;16(6):e7. Review. PubMed PMID: 15202877.

1210: Liu JK, Gottfried ON, Cole CD, Dougherty WR, Couldwell WT. Porous polyethylene implant for cranioplasty and skull base reconstruction. *Neurosurg Focus*. 2004 Mar 15;16(3):ECP1. PubMed PMID: 15198501.

1211: Rao G, Pedone CA, Del Valle L, Reiss K, Holland EC, Fults DW. Sonic hedgehog and insulin-like growth factor signaling synergize to induce medulloblastoma formation from nestin-expressing neural progenitors in mice. *Oncogene*. 2004 Aug 12;23(36):6156-62. PubMed PMID: 15195141.

1212: Fasset DR, Schmidt MH. Spinal epidural lipomatosis: a review of its causes and recommendations for treatment. *Neurosurg Focus*. 2004 Apr 15;16(4):E11. Review. PubMed PMID: 15191340.

1213: Amini A, Schmidt MH. Syndrome of inappropriate secretion of antidiuretic hormone and hyponatremia after spinal surgery. *Neurosurg Focus*. 2004 Apr 15;16(4):E10. Review. PubMed PMID: 15191339.

1214: Cole CD, Gottfried ON, Liu JK, Couldwell WT. Hyponatremia in the neurosurgical patient: diagnosis and management. *Neurosurg Focus*. 2004 Apr 15;16(4):E9. Review. PubMed PMID: 15191338.

1215: Fasset DR, Couldwell WT. Metastases to the pituitary gland. *Neurosurg Focus*. 2004 Apr 15;16(4):E8. Review. PubMed PMID: 15191337.

1216: Ragel BT, Couldwell WT. Pituitary carcinoma: a review of the literature. *Neurosurg Focus*. 2004 Apr 15;16(4):E7. Review. PubMed PMID: 15191336.

1217: Liu JK, Couldwell WT. Contemporary management of prolactinomas. *Neurosurg Focus*. 2004 Apr 15;16(4):E2. Review. PubMed PMID: 15191331.

1218: MacDonald J, Couldwell WT. Revision of vagal nerve stimulator electrodes: technical approach.

Acta Neurochir (Wien). 2004 Jun;146(6):567-70; discussion 570. Epub 2004 Apr 18. PubMed PMID: 15168224.

1219: Liu JK, Schaefer SD, Moscatello AL, Couldwell WT. Neurosurgical implications of allergic fungal sinusitis. J Neurosurg. 2004 May;100(5):883-90. PubMed PMID: 15137608.

1220: Klimo P Jr, Kestle JR, MacDonald JD, Schmidt RH. Marked reduction of cerebral vasospasm with lumbar drainage of cerebrospinal fluid after subarachnoid hemorrhage. J Neurosurg. 2004 Feb;100(2):215-24. PubMed PMID: 15086227.

1221: Schmidt MH, Meyer GA, Reichert KW, Cheng J, Krouwer HG, Ozker K, Whelan HT. Evaluation of photodynamic therapy near functional brain tissue in patients with recurrent brain tumors. J Neurooncol. 2004 Mar-Apr;67(1-2):201-7. PubMed PMID: 15072468.

1222: Kan P, Gottfried O, Blumenthal DT, Townsend JJ, Drozd-Borysiuk E, Brothman AR, Jensen RL. Oligodendroglioma and juvenile pilocytic astrocytoma presenting as synchronous primary brain tumors. Case report with histological and molecular differentiation of the tumors and review of the literature. J Neurosurg. 2004 Apr;100(4):700-5. PubMed PMID: 15070126.

1223: Klimo P Jr, Schmidt MH. Surgical management of spinal metastases. Oncologist. 2004;9(2):188-96. Review. PubMed PMID: 15047923.

1224: Jensen RL, Gillespie D, House P, Layfield L, Shelton C. Endolymphatic sac tumors in patients with and without von Hippel-Lindau disease: the role of genetic mutation, von Hippel-Lindau protein, and hypoxia inducible factor-1alpha expression. J Neurosurg. 2004 Mar;100(3):488-97. PubMed PMID: 15035285.

1225: Liu JK, Tenner MS, Gottfried ON, Stevens EA, Rosenow JM, Madan N, MacDonald JD, Kestle JR, Couldwell WT. Efficacy of multiple intraarterial papaverine infusions for improvement in cerebral circulation time in patients with recurrent cerebral vasospasm. J Neurosurg. 2004 Mar;100(3):414-21. PubMed PMID: 15035276.

1226: Liu JK, Decker D, Tenner MS, Couldwell WT, Chiles BW 3rd. Traumatic arteriovenous fistula of the posterior inferior cerebellar artery treated with endovascular coil embolization: case report. Surg Neurol. 2004 Mar;61(3):255-60; discussion 261. Erratum in: Surg Neurol. 2004 May;61(5):504. PubMed PMID: 14984997.

1227: Liu JK, Orlandi RR, Apfelbaum RI, Couldwell WT. Novel closure technique for the endonasal transsphenoidal approach. Technical note. J Neurosurg. 2004 Jan;100(1):161-4. PubMed PMID: 14743931.

1228: Kestle JR. Pediatric hydrocephalus: current management. Neurol Clin. 2003 Nov;21(4):883-95, vii. Review. PubMed PMID: 14743654.

1229: Rao G, Apfelbaum RI. Symptomatic pneumocephalus occurring years after transphenoidal surgery and radiation therapy for an invasive pituitary tumor: a case report and review of the literature. Pituitary. 2003;6(1):49-52. Review. PubMed PMID: 14674724.

1230: Gottfried ON, Soleau SW, Couldwell WT. Suprasellar displacement of intracavernous internal carotid artery: case report. Neurosurgery. 2003 Dec;53(6):1433-4; discussion 1434-5. PubMed PMID: 14633312.

1231: Liu JK, O'Neill B, Orlandi RR, Moscatello AL, Jensen RL, Couldwell WT. Endoscopic-assisted

craniofacial resection of esthesioneuroblastoma: minimizing facial incisions-technical note and report of 3 cases. *Minim Invasive Neurosurg*. 2003 Oct;46(5):310-5. PubMed PMID: 14628249.

1232: Rao G, Brodke DS, Rondina M, Bacchus K, Dailey AT. Inter- and intraobserver reliability of computed tomography in assessment of thoracic pedicle screw placement. *Spine (Phila Pa 1976)*. 2003 Nov 15;28(22):2527-30. PubMed PMID: 14624089.

1233: Brockmeyer D, Gollogly S, Smith JT. Scoliosis associated with Chiari 1 malformations: the effect of suboccipital decompression on scoliosis curve progression: a preliminary study. *Spine (Phila Pa 1976)*. 2003 Nov 15;28(22):2505-9. PubMed PMID: 14624085.

1234: Liu JK, Decker D, Schaefer SD, Moscatello AL, Orlandi RR, Weiss MH, Couldwell WT. Zones of approach for craniofacial resection: minimizing facial incisions for resection of anterior cranial base and paranasal sinus tumors. *Neurosurgery*. 2003 Nov;53(5):1126-35; discussion 1135-7. PubMed PMID: 14580279.

1235: House P, Dunn J, Carroll K, MacDonald J. Seeding of a cavernous angioma with *Mycoplasma hominis*: case report. *Neurosurgery*. 2003 Sep;53(3):749-52; discussion 752-3. PubMed PMID: 12943591.

1236: Gottfried ON, Fults DW, Townsend JJ, Couldwell WT. Spontaneous hemorrhage associated with a pilomyxoid astrocytoma. Case report. *J Neurosurg*. 2003 Aug;99(2):416-20. Review. PubMed PMID: 12924720.

1237: Rao G, Pedone CA, Coffin CM, Holland EC, Fults DW. c-Myc enhances sonic hedgehog-induced medulloblastoma formation from nestin-expressing neural progenitors in mice. *Neoplasia*. 2003 May-Jun;5(3):198-204. doi: 10.1016/S1476-5586(03)80052-0. PubMed PMID: 12869303; PubMed Central PMCID: PMC1502413.

1238: Couldwell WT, Rosenow JM, Rovit RL, Benzil DL. Hypophysopexy technique for radiosurgical treatment of cavernous sinus pituitary neuroendocrine tumor. *Pituitary*. 2002;5(3):169-73. PubMed PMID: 12812308.

1239: Klimo P Jr, Blumenthal DT, Couldwell WT. Congenital partial aplasia of the posterior arch of the atlas causing myelopathy: case report and review of the literature. *Spine (Phila Pa 1976)*. 2003 Jun 15;28(12):E224-8. PubMed PMID: 12811285.

1240: Ragel B, Jensen RL. New approaches for the treatment of refractory meningiomas. *Cancer Control*. 2003 Mar-Apr;10(2):148-58. PubMed PMID: 12712009.

1241: Liu JK, Weiss MH, Couldwell WT. Surgical approaches to pituitary tumors. *Neurosurg Clin N Am*. 2003 Jan;14(1):93-107. Review. PubMed PMID: 12690982.

1242: Couldwell WT, Rovit RL, Weiss MH. Role of surgery in the treatment of microprolactinomas. *Neurosurg Clin N Am*. 2003 Jan;14(1):89-92, vii. Review. PubMed PMID: 12690981.

1243: Simard MF. Pituitary tumor endocrinopathies and their endocrine evaluation. *Neurosurg Clin N Am*. 2003 Jan;14(1):41-54, vi. Review. PubMed PMID: 12690978.

1244: Kestle JR, Drake JM, Cochrane DD, Milner R, Walker ML, Abbott R 3rd, Boop FA; Endoscopic Shunt Insertion Trial participants. Lack of benefit of endoscopic ventriculoperitoneal shunt insertion: a multicenter randomized trial. *J Neurosurg*. 2003 Feb;98(2):284-90. PubMed PMID: 12593612.

- 1245: Soleau SW, Schmidt R, Stevens S, Osborn A, MacDonald JD. Extensive experience with dural sinus thrombosis. *Neurosurgery*. 2003 Mar;52(3):534-44; discussion 542-4. PubMed PMID: 12590677.
- 1246: Schmidt MH, Quinones-Hinojosa A, Rosenberg WS. Cervical myelopathy associated with degenerative spine disease and ossification of the posterior longitudinal ligament. *Semin Neurol*. 2002 Jun;22(2):143-8. Review. PubMed PMID: 12524559.
- 1247: Couldwell WT, Rovit RL. Rethinking neurosurgical subspecialization. *Surg Neurol*. 2002 Dec;58(6):359-63; discussion 363-70. Review. PubMed PMID: 12517596.
- 1248: Rao G, Jensen RL. Coexistent cerebral metastasis and cavernous malformation. *J Neurol Neurosurg Psychiatry*. 2003 Jan;74(1):105. PubMed PMID: 12486277; PubMed Central PMCID: PMC1738166.
- 1249: Brockmeyer D, Gruber DP, Haller J, Shelton C, Walker ML. Pediatric skull base surgery. 2. Experience and outcomes in 55 patients. *Pediatr Neurosurg*. 2003 Jan;38(1):9-15. PubMed PMID: 12476021.
- 1250: Brockmeyer DL. A bone and cable girth-hitch technique for atlantoaxial fusion in pediatric patients. Technical note. *J Neurosurg*. 2002 Oct;97(3 Suppl):400-2. PubMed PMID: 12408404.
- 1251: Heilbrun MP, Lee JN, Alvord L. Practical application of fMRI for surgical planning. *Stereotact Funct Neurosurg*. 2001;76(3-4):168-74. PubMed PMID: 12378095.
- 1252: Heilbrun MP. Optimization of cranial resections. *Stereotact Funct Neurosurg*. 2001;76(3-4):140-4. PubMed PMID: 12378090.
- 1253: Rao G, Brodke DS, Rondina M, Dailey AT. Comparison of computerized tomography and direct visualization in thoracic pedicle screw placement. *J Neurosurg*. 2002 Sep;97(2 Suppl):223-6. PubMed PMID: 12296683.
- 1254: Jensen RL, Soleau S, Bhayani MK, Christiansen D. Expression of hypoxia inducible factor-1 alpha and correlation with preoperative embolization of meningiomas. *J Neurosurg*. 2002 Sep;97(3):658-67. PubMed PMID: 12296651.
- 1255: Gluf WM, Kestle JR. 'Cortical thumb sign' in X-linked hydrocephalus. *Pediatr Neurosurg*. 2002 Aug;37(2):107-8. PubMed PMID: 12145522.
- 1256: Rao G, Arthur AS, Apfelbaum RI. Circumferential fracture of the skull base causing craniocervical dislocation. Case report. *J Neurosurg*. 2002 Jul;97(1 Suppl):118-22. Review. PubMed PMID: 12120634.
- 1257: Arthur AS, Whitehead WE, Kestle JR. Duration of antibiotic therapy for the treatment of shunt infection: a surgeon and patient survey. *Pediatr Neurosurg*. 2002 May;36(5):256-9. PubMed PMID: 12053044.
- 1258: Fults D, Pedone C, Dai C, Holland EC. MYC expression promotes the proliferation of neural progenitor cells in culture and in vivo. *Neoplasia*. 2002 Jan-Feb;4(1):32-9. PubMed PMID: 11922389; PubMed Central PMCID: PMC1503312.
- 1259: Whitehead WE, Kestle JR. The treatment of cerebrospinal fluid shunt infections. Results from a practice survey of the American Society of Pediatric Neurosurgeons. *Pediatr Neurosurg*. 2001 Oct;35(4):205-10. PubMed PMID: 11694798.

- 1260: Lombardi WJ, Woolston DJ, Roberts JW, Gross RE. Cognitive deficits in patients with essential tremor. *Neurology*. 2001 Sep 11;57(5):785-90. PubMed PMID: 11552004.
- 1261: Jensen RL, Wurster RD. Calcium channel antagonists inhibit growth of subcutaneous xenograft meningiomas in nude mice. *Surg Neurol*. 2001 May;55(5):275-83. PubMed PMID: 11516467.
- 1262: Lonser RR, Brodke DS, Dailey AT. Vertebral osteomyelitis secondary to *Pseudallescheria boydii*. *J Spinal Disord*. 2001 Aug;14(4):361-4. Review. PubMed PMID: 11481561.
- 1263: Fults D, Pedone C. Immunocytochemical mapping of the phosphatase and tensin homolog (PTEN/MMAC1) tumor suppressor protein in human gliomas. *Neuro Oncol*. 2000 Apr;2(2):71-9. doi: 10.1093/neuonc/2.2.71. PubMed PMID: 11303623; PubMed Central PMCID: PMC1919512.
- 1264: Swenson JD, Durcan S, Johnson D, Porth J, MacDonald J. The successful treatment of a spino-subcutaneous fistula after bone marrow harvest by using an epidural blood patch. *Anesth Analg*. 2001 Apr;92(4):1050-1. PubMed PMID: 11273949.
- 1265: Lonser RR, Glastonbury C, Apfelbaum RI. Retroclival craniopharyngioma. Case illustration. *J Neurosurg*. 2001 Mar;94(3):539. PubMed PMID: 11235965.
- 1266: Maughan PH, Scholten KJ, Schmidt RH. Recovery of water maze performance in aged versus young rats after brain injury with the impact acceleration model. *J Neurotrauma*. 2000 Dec;17(12):1141-53. PubMed PMID: 11186228.
- 1267: Schmidt RH, Scholten KJ, Maughan PH. Cognitive impairment and synaptosomal choline uptake in rats following impact acceleration injury. *J Neurotrauma*. 2000 Dec;17(12):1129-39. PubMed PMID: 11186227.
- 1268: Walker ML. History of ventriculostomy. *Neurosurg Clin N Am*. 2001 Jan;12(1):101-10, viii. PubMed PMID: 11175991.
- 1269: Kestle J, Drake J, Milner R, Sainte-Rose C, Cinalli G, Boop F, Piatt J, Haines S, Schiff S, Cochrane D, Steinbok P, MacNeil N. Long-term follow-up data from the Shunt Design Trial. *Pediatr Neurosurg*. 2000 Nov;33(5):230-236. PubMed PMID: 11155058.
- 1270: Adams AC, Keefe KA. Degree of immediate early gene induction in striatum by eticlopride determines sensitivity to N-methyl-D-aspartate receptor blockade. *Brain Res*. 2000 Dec 8;885(2):201-7. PubMed PMID: 11102574.
- 1271: Apfelbaum RI, Kriskovich MD, Haller JR. On the incidence, cause, and prevention of recurrent laryngeal nerve palsies during anterior cervical spine surgery. *Spine (Phila Pa 1976)*. 2000 Nov 15;25(22):2906-12. PubMed PMID: 11074678.
- 1272: Apfelbaum RI, Lonser RR, Veres R, Casey A. Direct anterior screw fixation for recent and remote odontoid fractures. *J Neurosurg*. 2000 Oct;93(2 Suppl):227-36. PubMed PMID: 11012053.
- 1273: Apfelbaum RI. Neurovascular decompression: the procedure of choice? *Clin Neurosurg*. 2000;46:473-98. Review. PubMed PMID: 10944696.
- 1274: Heilbrun MP, McDonald JD. The future of image-guided surgery. *Clin Neurosurg*. 2000;46:89-101. Review. PubMed PMID: 10944669.
- 1275: Orrison WW Jr. Magnetic source imaging in stereotactic and functional neurosurgery. *Stereotact*

Funct Neurosurg. 1999;72(2-4):89-94. Review. PubMed PMID: 10928916.

1276: Heilbrun P. Image guidance: the Foundation for the Future Design of Neurosurgical Procedural Facilities. Stereotact Funct Neurosurg. 1999;73(1-4):135-9. Review. PubMed PMID: 10853120.

1277: Gross RE, Dean A, Lewine J, Chong B, Jones G, Funke M, MacDonald P. The relationship of magnetic source imaging to ictal electrocorticography in a neuronavigational workspace. Stereotact Funct Neurosurg. 1999;73(1-4):109-14. PubMed PMID: 10853112.

1278: Smith BR. Magnetic resonance imaging analysis of embryos. Methods Mol Biol. 2000;135:211-6. PubMed PMID: 10791318.

1279: Gross RE, Lozano AM. Advances in neurostimulation for movement disorders. Neurol Res. 2000 Apr;22(3):247-58. Review. PubMed PMID: 10769817.

1280: Kestle J, Connolly M, Cochrane D. Pediatric peri-insular hemispherotomy. Pediatr Neurosurg. 2000 Jan;32(1):44-7. PubMed PMID: 10765138.

1281: Lombardi WJ, Gross RE, Trepanier LL, Lang AE, Lozano AM, Saint-Cyr JA. Relationship of lesion location to cognitive outcome following microelectrode-guided pallidotomy for Parkinson's disease: support for the existence of cognitive circuits in the human pallidum. Brain. 2000 Apr;123 (Pt 4):746-58. PubMed PMID: 10734006.

1282: Jensen RL, Petr M, Wurster RD. Calcium channel antagonist effect on in vitro meningioma signal transduction pathways after growth factor stimulation. Neurosurgery. 2000 Mar;46(3):692-702; discussion 702-3. PubMed PMID: 10719866.

1283: Kestle J, Cochrane D, Alisharan R. The initial treatment of hydrocephalus: an assessment of surgeons' preference between third ventriculostomy and shunt insertion. Neurol Res. 2000 Jan;22(1):65-8. PubMed PMID: 10672582.

1284: Schmidt RH, Scholten KJ, Maughan PH. Time course for recovery of water maze performance and central cholinergic innervation after fluid percussion injury. J Neurotrauma. 1999 Dec;16(12):1139-47. PubMed PMID: 10619193.

1285: Brockmeyer DL, York JE, Apfelbaum RI. Anatomical suitability of C1-2 transarticular screw placement in pediatric patients. J Neurosurg. 2000 Jan;92(1 Suppl):7-11. PubMed PMID: 10616051.

1286: Brockmeyer D. Down syndrome and craniovertebral instability. Topic review and treatment recommendations. Pediatr Neurosurg. 1999 Aug;31(2):71-7. Review. PubMed PMID: 10592475.

1287: Kestle JR. Clinical trials. World J Surg. 1999 Dec;23(12):1205-9. Review. PubMed PMID: 10552107.

1288: Kestle J, Milner R, Drake J. The shunt design trial: variation in surgical experience did not influence shunt survival. Pediatr Neurosurg. 1999 Jun;30(6):283-7. PubMed PMID: 10494053.

1289: Lewine JD, Andrews R, Chez M, Patil AA, Devinsky O, Smith M, Kanner A, Davis JT, Funke M, Jones G, Chong B, Provencal S, Weisend M, Lee RR, Orrison WW Jr. Magnetoencephalographic patterns of epileptiform activity in children with regressive autism spectrum disorders. Pediatrics. 1999 Sep;104(3 Pt 1):405-18. PubMed PMID: 10469763.

1290: XXVII annual congress of the international society for pediatric neurosurgery, salt lake city,

utah, USA, 26-30 september 1999 . Childs Nerv Syst. 1999 Aug;15(8):413-32. PubMed PMID: 10447615.

1291: Schmidt RH. Use of a microvascular Doppler probe to avoid basilar artery injury during endoscopic third ventriculostomy. Technical note. J Neurosurg. 1999 Jan;90(1):156-9. PubMed PMID: 10413172.

1292: Kestle J, Milner R, Drake D. An assessment of observer bias in the shunt design trial. Pediatr Neurosurg. 1999 Feb;30(2):57-61. PubMed PMID: 10325560.

1293: Brockmeyer DL, Apfelbaum RI. A new occipitocervical fusion construct in pediatric patients with occipitocervical instability. Technical note. J Neurosurg. 1999 Apr;90(2 Suppl):271-5. PubMed PMID: 10199264.

1294: McDonald JD, Chong BW, Lewine JD, Jones G, Burr RB, McDonald PR, Koehler SB, Tsuruda J, Orrison WW, Heilbrun MP. Integration of preoperative and intraoperative functional brain mapping in a frameless stereotactic environment for lesions near eloquent cortex. Technical note. J Neurosurg. 1999 Mar;90(3):591-8. PubMed PMID: 10067937.

1295: Brockmeyer D, Cogan-Kilgallon M, Darling C, McLone DG, Senger C. Nine-year-old female with neck pain. Pediatr Neurosurg. 1998 Jun;28(6):320-5. PubMed PMID: 9782209.

1296: Brockmeyer D, Abtin K, Carey L, Walker ML. Endoscopic third ventriculostomy: an outcome analysis. Pediatr Neurosurg. 1998 May;28(5):236-40. Review. PubMed PMID: 9732255.

1297: Smith JL, Schoenwolf GC. Getting organized: new insights into the organizer of higher vertebrates. Curr Top Dev Biol. 1998;40:79-110. Review. PubMed PMID: 9673849.

1298: Fults D, Pedone CA, Thompson GE, Uchiyama CM, Gumpfer KL, Iliev D, Vinson VL, Tavtigian SV, Perry WL 3rd. Microsatellite deletion mapping on chromosome 10q and mutation analysis of MMAC1, FAS, and MXI1 in human glioblastoma multiforme. Int J Oncol. 1998 Apr;12(4):905-10. PubMed PMID: 9499454.

1299: Smith JL, Schoenwolf GC. Neurulation: coming to closure. Trends Neurosci. 1997 Nov;20(11):510-7. Review. PubMed PMID: 9364665.

1300: Rich JC. In times of change learners inherit the earth. The 1997 presidential address. J Neurosurg. 1997 Nov;87(5):659-66. PubMed PMID: 9347971.

1301: Garton HJ, Walker ML, Boyer RS, Townsend JJ, Scott RM. A 14-year-old male with basal ganglia tumor. Pediatr Neurosurg. 1997 Apr;26(4):219-24. PubMed PMID: 9436834.

1302: Heilbrun MP, Koehler S, McDonald P, Faour F. Optimal target localization for ventroposterolateral pallidotomy: the role of imaging, impedance measurement, macrostimulation and microelectrode recording. Stereotact Funct Neurosurg. 1997;69(1-4 Pt 2):19-27. PubMed PMID: 9711731.

1303: Brockmeyer DL, Walker ML, Thompson G, Fults DW. Astrocytoma and pineoblastoma arising sequentially in the fourth ventricle of the same patient. Case report and molecular analysis. Pediatr Neurosurg. 1997 Jan;26(1):36-40. PubMed PMID: 9361116.

1304: Salyer JW. Outcomes of pediatric mechanical ventilation. Respir Care Clin N Am. 1996 Dec;2(4):471-85. PubMed PMID: 9390892.

- 1305: Emadian SM, Caravati EM, Herr RD. Rhabdomyolysis: a rare adverse effect of diphenhydramine overdose. *Am J Emerg Med*. 1996 Oct;14(6):574-6. PubMed PMID: 8857809.
- 1306: Emadian SM, McDonald JD, Gerken SC, Fults D. Correlation of chromosome 17p loss with clinical outcome in medulloblastoma. *Clin Cancer Res*. 1996 Sep;2(9):1559-64. PubMed PMID: 9816333.
- 1307: Walker ML. For the children. *Pediatr Neurosurg*. 1996 Jun;24(6):279-84. PubMed PMID: 8988492.
- 1308: Heilbrun MP. Clinical frontiers of interactive image-guided neurosurgery. Introduction. *Neurosurg Clin N Am*. 1996 Apr;7(2):xv. PubMed PMID: 8726433.
- 1309: Garton HJ, Schoenwolf GC. Improving the efficacy of fluorescent labeling for histological tracking of cells in early mammalian and avian embryos. *Anat Rec*. 1996 Jan;244(1):112-17. PubMed PMID: 8838429.
- 1310: Nilasena DS, Vaughn RJ, Mori M, Lyon JL. Surgical trends in the treatment of diseases of the lumbar spine in Utah's Medicare population, 1984 to 1990. *Med Care*. 1995 Jun;33(6):585-97. PubMed PMID: 7760575.
- 1311: Fults D, Pedone CA, Zhu XL, Williams BJ, Jones E, Brothman AR. Molecular cytogenetic analysis of a t(7;10) in a human glioblastoma cell line. *Cancer Genet Cytogenet*. 1995 Jun;81(2):118-24. PubMed PMID: 7621407.
- 1312: Brockmeyer D, Apfelbaum R, Tippets R, Walker M, Carey L. Pediatric cervical spine instrumentation using screw fixation. *Pediatr Neurosurg*. 1995;22(3):147-57. PubMed PMID: 7786808.
- 1313: Smith JL, Gesteland KM, Schoenwolf GC. Prospective fate map of the mouse primitive streak at 7.5 days of gestation. *Dev Dyn*. 1994 Nov;201(3):279-89. PubMed PMID: 7881130.
- 1314: MacDonald JD, Gyorke A, Jacobs JM, Mohammad SF, Sunderland PM, Reichman MV. Acute phase vascular endothelial injury: a comparison of temporary arterial occlusion using an endovascular occlusive balloon catheter versus a temporary aneurysm clip in a pig model. *Neurosurgery*. 1994 May;34(5):876-81; discussion 881. PubMed PMID: 8052386.
- 1315: Smith JL, Schoenwolf GC, Quan J. Quantitative analyses of neuroepithelial cell shapes during bending of the mouse neural plate. *J Comp Neurol*. 1994 Apr 1;342(1):144-51. PubMed PMID: 8207124.
- 1316: Day R, Heilbrun MP, Koehler S, McDonald P, Peters W, Siemionow V. Three-point transformation for integration of multiple coordinate systems: applications to tumor, functional, and fractionated radiosurgery stereotactic planning. *Stereotact Funct Neurosurg*. 1994;63(1-4):76-9. PubMed PMID: 7624655.
- 1317: Walker ML, Fried A, Petronio J. Diagnosis and treatment of the slit ventricle syndrome. *Neurosurg Clin N Am*. 1993 Oct;4(4):707-14. Review. PubMed PMID: 8241791.
- 1318: Fults D, Pedone C. Deletion mapping of the long arm of chromosome 10 in glioblastoma multiforme. *Genes Chromosomes Cancer*. 1993 Jul;7(3):173-7. PubMed PMID: 7687872.
- 1319: Hood RS. Far lateral lumbar disc herniations. *Neurosurg Clin N Am*. 1993 Jan;4(1):117-24. Review. PubMed PMID: 8428146.
- 1320: Fults D, Petronio J, Noblett BD, Pedone CA. Chromosome 11p15 deletions in human malignant

astrocytomas and primitive neuroectodermal tumors. *Genomics*. 1992 Nov;14(3):799-801. PubMed PMID: 1358812.

1321: Sunderland PM, Heilbrun MP. Estimating energy expenditure in traumatic brain injury: comparison of indirect calorimetry with predictive formulas. *Neurosurgery*. 1992 Aug;31(2):246-52; discussion 252-3. PubMed PMID: 1513430.

1322: Fults D, Pedone CA, Morse HG, Rose JW, McKay RD. Establishment and characterization of a human primitive neuroectodermal tumor cell line from the cerebral hemisphere. *J Neuropathol Exp Neurol*. 1992 May;51(3):272-80. PubMed PMID: 1316433.

1323: Fults D, Brockmeyer D, Tullous MW, Pedone CA, Cawthon RM. p53 mutation and loss of heterozygosity on chromosomes 17 and 10 during human astrocytoma progression. *Cancer Res*. 1992 Feb 1;52(3):674-9. PubMed PMID: 1346255.

1324: Dias MS, Walker ML. The embryogenesis of complex dysraphic malformations: a disorder of gastrulation? *Pediatr Neurosurg*. 1992;18(5-6):229-53. Review. PubMed PMID: 1476931.

1325: Walker ML, MacDonald J, Wright LC. The history of ventriculoscapy: where do we go from here? *Pediatr Neurosurg*. 1992;18(4):218-23. PubMed PMID: 1472435.

1326: Harris CP, Dias MS, Brockmeyer DL, Townsend JJ, Willis BK, Apfelbaum RI. Neurenteric cysts of the posterior fossa: recognition, management, and embryogenesis. *Neurosurgery*. 1991 Dec;29(6):893-7; discussion 897-8. PubMed PMID: 1758603.

1327: Macfarlane JR, Heilbrun MP, Brown B, Apfelbaum RI. Neurosurgery image manager. *Neurosurgery*. 1991 Aug;29(2):309-14. PubMed PMID: 1886677.

1328: Dias MS, Pang D. Juvenile intervertebral disc calcification: recognition, management, and pathogenesis. *Neurosurgery*. 1991 Jan;28(1):130-5. PubMed PMID: 1994267.

1329: Sorensen BF. Euthanasia: the "good death"? *Surg Neurol*. 1991 Jan;35(1):74-5. PubMed PMID: 1983888.

1330: Dias MS, Sekhar LN. Intracranial hemorrhage from aneurysms and arteriovenous malformations during pregnancy and the puerperium. *Neurosurgery*. 1990 Dec;27(6):855-65; discussion 865-6. Review. PubMed PMID: 2274125.

1331: Wright LC, McAllister JP 2nd, Katz SD, Miller DW, Lovely TJ, Salotto AG, Wolfson BJ. Cytological and cytoarchitectural changes in the feline cerebral cortex during experimental infantile hydrocephalus. *Pediatr Neurosurg*. 1990-1991;16(3):139-55. PubMed PMID: 2134008.

1332: Fults D, Maness PF, Nakamura Y, White R. The N-ras oncogene is activated in a human medulloblastoma cell line. *Brain Res*. 1989 Dec 4;503(2):281-7. PubMed PMID: 2691018.

1333: Brockmeyer DL, Wright LC, Walker ML, Ward RM. Management of posthemorrhagic hydrocephalus in the low-birth-weight preterm neonate. *Pediatr Neurosci*. 1989;15(6):302-7; discussion 308. PubMed PMID: 2489588.

1334: Dias MS, Albright AL. Management of hydrocephalus complicating childhood posterior fossa tumors. *Pediatr Neurosci*. 1989;15(6):283-9; discussion 290. PubMed PMID: 2489586.

1335: Willis BK, Heilbrun MP, Sapozink MD, McDonald PR. Stereotactic interstitial brachytherapy of

malignant astrocytomas with remarks on postimplantation computed tomographic appearance. Neurosurgery. 1988 Sep;23(3):348-54. PubMed PMID: 3226513.

1336: Tippetts RH, Apfelbaum RI. Anterior cervical fusion with the Caspar instrumentation system. Neurosurgery. 1988 Jun;22(6 Pt 1):1008-13. PubMed PMID: 3419561.

1337: Pattisapu JV, Parent AD. Subdural empyemas in children. Pediatr Neurosci. 1987;13(5):251-4. PubMed PMID: 2904141.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=salt_lake_city

Last update: **2024/06/07 02:50**

