

Saint Louis

St. Louis is an independent city and inland port in the U.S. state of [Missouri](#). The city developed along the western bank of the Mississippi River, which forms Missouri's border with Illinois.

Department of Neurosurgery, Washington University in St. Louis, Missouri

Since 1919, the Washington University Department of Neurosurgery has had a strong tradition of clinical excellence, outstanding research and dynamic teaching.

Train residents, fellows and scientists so that they can be leaders in the fields of academic neurosurgery and neurosurgical research;

Conduct basic and clinical research to better understand the causes of neurological diseases so that we can apply this knowledge toward better diagnoses and treatments.

The neurosurgeons provide surgical care at Barnes-Jewish Hospital, ranked 11th in the nation for adult neurology and neurosurgery by U.S. News & World Report in 2014, and at St. Louis Children's Hospital, ranked #5 in the nation by U.S. News for pediatric neurosurgery in 2014-2015.

Publications

Lee JM, Diwan A, Zipfel GJ. Targeting Muscles in the Brain to Enhance [Cerebral Perfusion](#). JACC Basic Transl Sci. 2019 Dec 23;4(8):959-961. doi: 10.1016/j.jacbts.2019.11.003. eCollection 2019 Dec. PubMed PMID: 31909771; PubMed Central PMCID: PMC6938911.

2: Tish S, Habboub G, Lang M, Ostrom QT, Kruchko C, Barnholtz-Sloan JS, Recinos PF, Kshetty VR. The epidemiology of spinal schwannoma in the United States between 2006 and 2014. J Neurosurg Spine. 2019 Dec 27;1-6. doi: 10.3171/2019.10.SPINE191025. [Epub ahead of print] PubMed PMID: 31881538.

3: Passias PG, Horn SR, Oh C, Lafage R, Lafage V, Smith JS, Line B, Protosaltis TS, Yagi M, Bortz CA, Segreto FA, Alas H, Diebo BG, Sciubba DM, Kelly MP, Daniels AH, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP. Predicting the Occurrence of Postoperative Distal Junctional Kyphosis in Cervical Deformity Patients. Neurosurgery. 2020 Jan 1;86(1):E38-E46. doi: 10.1093/neuros/nyz347. PubMed PMID: 31838540.

4: Bruzek AK, Starr J, Garton HJL, Muraszko KM, Maher CO, Strahle JM. Syringomyelia in children with closed spinal dysraphism: long-term outcomes after surgical intervention. J Neurosurg Pediatr. 2019 Dec 13;1-7. doi: 10.3171/2019.9.PEDS1944. [Epub ahead of print] PubMed PMID: 31835253.

5: Roland JL, Akbari SHA, Salehi A, Smyth MD. Corpus callosotomy performed with laser interstitial thermal therapy. J Neurosurg. 2019 Dec 13;1-9. doi: 10.3171/2019.9.JNS191769. [Epub ahead of print] PubMed PMID: 31835250.

- 6: Mistry EA, Mehta T, Mistry A, Arora N, Starosciak AK, De Los Rios La Rosa F, Siegler JE 3rd, Chitale R, Anadani M, Yaghi S, Khatri P, de Havenon A. Blood Pressure Variability and Neurologic Outcome After Endovascular Thrombectomy: A Secondary Analysis of the BEST Study. *Stroke*. 2019 Dec 9;STROKEAHA119027549. doi: 10.1161/STROKEAHA.119.027549. [Epub ahead of print] PubMed PMID: 31813361.
- 7: Macdonald RL, Hänggi D, Strange P, Steiger HJ, Mocco J, Miller M, Mayer SA, Hoh BL, Faleck HJ, Etminan N, Diringer MN, Carlson AP, Aldrich F; NEWTON Investigators. Nimodipine pharmacokinetics after intraventricular injection of sustained-release nimodipine for subarachnoid hemorrhage. *J Neurosurg*. 2019 Dec 6:1-7. doi: 10.3171/2019.9.JNS191366. [Epub ahead of print] PubMed PMID: 31812149.
- 8: Isaacs AM, Krahn D, Walker AM, Hurdle H, Hamilton MG. Transesophageal Echocardiography-Guided Ventriculoatrial Shunt Insertion. *Oper Neurosurg (Hagerstown)*. 2019 Dec 7. pii: opz353. doi: 10.1093/ons/opz353. [Epub ahead of print] PubMed PMID: 31811299.
- 9: Mathis MR, Naik BI, Freundlich RE, Shanks AM, Heung M, Kim M, Burns ML, Colquhoun DA, Rangrass G, Janda A, Engoren MC, Saager L, Tremper KK, Kheterpal S; Multicenter Perioperative Outcomes Group Investigators. Preoperative Risk and the Association between Hypotension and Postoperative Acute Kidney Injury. *Anesthesiology*. 2019 Nov 26. doi: 10.1097/ALN.0000000000003063. [Epub ahead of print] PubMed PMID: 31794513.
- 10: Hacker CD, Roland JL, Kim AH, Shimony JS, Leuthardt EC. Resting-state network mapping in neurosurgical practice: a review. *Neurosurg Focus*. 2019 Dec 1;47(6):E15. doi: 10.3171/2019.9.FOCUS19656. PubMed PMID: 31786561.
- 11: Osbun JW, Dacey RG, Barrow DL, Saindane AM, Nimsy C. Introduction Imaging in neurosurgical disease. *Neurosurg Focus*. 2019 Dec 1;47(6):E1. doi: 10.3171/2019.9.FOCUS19764. PubMed PMID: 31786553.
- 12: Little AS, Gardner PA, Fernandez-Miranda JC, Chicoine MR, Barkhoudarian G, Prevedello DM, Yuen KCJ, Kelly DF; TRANSSPHER Study Group. Pituitary gland recovery following fully endoscopic transsphenoidal surgery for nonfunctioning pituitary neuroendocrine tumor: results of a prospective multicenter study. *J Neurosurg*. 2019 Nov 15:1-7. doi: 10.3171/2019.8.JNS191012. [Epub ahead of print] PubMed PMID: 31731279.
- 13: Roth J, Fischer N, Limbrick DD, CreveCoeur T, Ben-Sira L, Constantini S. The role of screening spinal MRI in children with solitary posterior fossa low-grade glial tumors. *J Neurosurg Pediatr*. 2019 Nov 15:1-5. doi: 10.3171/2019.9.PEDS19358. [Epub ahead of print] PubMed PMID: 31731277.
- 14: Kim HJ, Virk S, Elysee J, Passias P, Ames C, Shaffrey CI, Mundis G, Protopsaltis T, Gupta M, Klineberg E, Smith JS, Burton D, Schwab F, Lafage V, Lafage R; International Spine Study Group. The morphology of cervical deformities: a two-step cluster analysis to identify cervical deformity patterns. *J Neurosurg Spine*. 2019 Nov 15:1-7. doi: 10.3171/2019.9.SPINE19730. [Epub ahead of print] PubMed PMID: 31731275.
- 15: Wang Q, Pérez-Carrillo GJG, Ponisio MR, LaMontagne P, Dahiya S, Marcus DS, Milchenko M, Shimony J, Liu J, Chen G, Salter A, Massoumzadeh P, Miller-Thomas MM, Rich KM, McConathy J, Benzinger TLS, Wang Y. Heterogeneity Diffusion Imaging of gliomas: Initial experience and validation. *PLoS One*. 2019 Nov 14;14(11):e0225093. doi: 10.1371/journal.pone.0225093. eCollection 2019. PubMed PMID: 31725772; PubMed Central PMCID: PMC6855653.
- 16: Mattei TA, Teasdale GM. The Story of the Development and Adoption of the Glasgow Coma Scale:

Part I, The Early Years. *World Neurosurg.* 2019 Nov 8;134:311-322. doi: 10.1016/j.wneu.2019.10.193. [Epub ahead of print] Review. PubMed PMID: 31712114.

17: Sakalauskaite-Juodeikienė E, Eling P, Finger S. Ludwig Heinrich Bojanus (1776-1827) on Gall's craniognomic system, zoology, and comparative anatomy. *J Hist Neurosci.* 2019 Nov 11:1-19. doi: 10.1080/0964704X.2019.1684752. [Epub ahead of print] PubMed PMID: 31710577.

18: Segreto FA, Passias PG, Brown AE, Horn SR, Bortz CA, Pierce KE, Alas H, Lafage V, Lafage R, Smith JS, Line BG, Diebo BG, Kelly MP, Mundis GM, Protosaltis TS, Soroceanu A, Kim HJ, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP. The Influence of Surgical Intervention and Sagittal Alignment on Frailty in Adult Cervical Deformity. *Oper Neurosurg (Hagerstown).* 2019 Nov 8. pii: opz331. doi: 10.1093/ons/opz331. [Epub ahead of print] PubMed PMID: 31701155.

19: Alexopoulos G, Prim M, Khan M, Quadri N, Urquiaga JF, El Tecle N, Coppens J. Minimally Invasive Evacuation of Severe Intraventricular Hemorrhage Using the BrainPath Endoport-Assisted Microsurgical System. *World Neurosurg.* 2019 Oct 31. pii: S1878-8750(19)32763-9. doi: 10.1016/j.wneu.2019.10.135. [Epub ahead of print] PubMed PMID: 31678444.

20: Bovi JA, Pugh SL, Sabsevitz D, Robinson CG, Paulson E, Mehta MP, Gondi V, Kundapur V, Shahin MS, Chao ST, Machtay M, DeNittis AS, Laack NN, Greenspoon JN, Moore KN, Huang J, Dominello MM, Kachnic LA. Pretreatment Volume of MRI-Determined White Matter Injury Predicts Neurocognitive Decline After Hippocampal Avoidant Whole-Brain Radiation Therapy for Brain Metastases: Secondary Analysis of NRG Oncology Radiation Therapy Oncology Group 0933. *Adv Radiat Oncol.* 2019 Jul 16;4(4):579-586. doi: 10.1016/j.adro.2019.07.006. eCollection 2019 Oct-Dec. PubMed PMID: 31673651; PubMed Central PMCID: PMC6817553.

21: Pennington Z, Lubelski D, Westbroek EM, Ahmed AK, Ehresman J, Goodwin ML, Lo SF, Witham TF, Bydon A, Theodore N, Sciubba DM. Time to recovery predicted by the severity of postoperative C5 palsy. *J Neurosurg Spine.* 2019 Oct 25:1-9. doi: 10.3171/2019.8.SPINE19602. [Epub ahead of print] PubMed PMID: 31653818.

22: Ravina K, Lin L, Liu CY, Thomas D, Hasson D, Wang LV, Russin JJ. Prospects of Photo- and Thermoacoustic Imaging in Neurosurgery. *Neurosurgery.* 2019 Oct 17. pii: nyz420. doi: 10.1093/neuros/nyz420. [Epub ahead of print] PubMed PMID: 31620798.

23: Suzuki H, Kumar SA, Shuai S, Diaz-Navarro A, Gutierrez-Fernandez A, De Antonellis P, Cavalli FMG, Juraschka K, Farooq H, Shibahara I, Vladoiu MC, Zhang J, Abeyasundara N, Przelicki D, Skowron P, Gauer N, Luu B, Daniels C, Wu X, Forget A, Momin A, Wang J, Dong W, Kim SK, Grajkowska WA, Jouvett A, Fèvre-Montange M, Garrè ML, Rao AAN, Giannini C, Kros JM, French PJ, Jabado N, Ng HK, Poon WS, Eberhart CG, Pollack IF, Olson JM, Weiss WA, Kumabe T, López-Aguilar E, Lach B, Massimino M, Van Meir EG, Rubin JB, Vibhakkar R, Chambless LB, Kijima N, Klekner A, Bognár L, Chan JA, Faria CC, Ragoussis J, Pfister SM, Goldenberg A, Wechsler-Reya RJ, Bailey SD, Garzia L, Morrissy AS, Marra MA, Huang X, Malkin D, Ayrault O, Ramaswamy V, Puente XS, Calarco JA, Stein L, Taylor MD. Recurrent non-coding U1-snRNA mutations drive cryptic splicing in Shh medulloblastoma. *Nature.* 2019 Oct 9. doi: 10.1038/s41586-019-1650-0. [Epub ahead of print] PubMed PMID: 31597162.

24: Alexopoulos G, Cikla U, El Tecle N, Kulkarni N, Pierson M, Mercier P, Kemp J, Coppens J, Mahmoud S, Sehi M, Bucholz R, Abdulrauf S. The Value of White Matter Tractography by Diffusion Tensor Imaging in Altering a Neurosurgeon's Operative Plan. *World Neurosurg.* 2019 Dec;132:e305-e313. doi: 10.1016/j.wneu.2019.08.168. Epub 2019 Sep 5. PubMed PMID: 31494311.

25: Osbun JW, Patel B, Levitt MR, Yahanda AT, Shah A, Dlouhy KM, Thatcher JP, Chicoine MR, Kim LJ,

Zipfel GJ. Transradial intraoperative cerebral angiography: a multicenter case series and technical report. *J Neurointerv Surg*. 2019 Sep 4. pii: neurintsurg-2019-015207. doi: 10.1136/neurintsurg-2019-015207. [Epub ahead of print] PubMed PMID: 31484699.

26: Abdulrauf SI, Urquiaga JF, Patel R, Albers JA, Sampat VB, Baumer M, Marvin E, Pierson M, Kragel R, Walsh J. Corrigendum to 'Awake Microvascular Decompression for Trigeminal Neuralgia: Concept and Initial Results' [*World Neurosurgery* 113 (2018) e309-e313]. *World Neurosurg*. 2019 Nov;131:80. doi: 10.1016/j.wneu.2019.07.190. Epub 2019 Aug 24. PubMed PMID: 31454667.

27: Abdulrauf SI, Urquiaga JF, Patel R, Albers JA, Belkhair S, Dryden K, Prim M, Snyder D, Kang B, Mokhlis L, Akhter AS, Mackie LN, Alatar A, Erickson EA, Sujijantararat N, Shah J, Wecker T, Stevens G, Walsh J, Schweiger A, Buchanan P. Corrigendum to 'Awake High-Flow Extracranial to Intracranial Bypass for Complex Cerebral Aneurysms: Institutional Clinical Trial Results' [*World Neurosurgery* 105 (2017) 557-567]. *World Neurosurg*. 2019 Nov;131:79. doi: 10.1016/j.wneu.2019.07.189. Epub 2019 Aug 24. PubMed PMID: 31454666.

28: Strahle JM, Taiwo R, Averill C, Torner J, Shannon CN, Bonfield CM, Tuite GF, Bethel-Anderson T, Rutlin J, Brockmeyer DL, Wellons JC, Leonard JR, Mangano FT, Johnston JM, Shah MN, Iskandar BJ, Tyler-Kabara EC, Daniels DJ, Jackson EM, Grant GA, Couture DE, Adelson PD, Alden TD, Aldana PR, Anderson RCE, Selden NR, Baird LC, Bierbrauer K, Chern JJ, Whitehead WE, Ellenbogen RG, Fuchs HE, Guillaume DJ, Hankinson TC, Iantosca MR, Oakes WJ, Keating RF, Khan NR, Muhlbauer MS, McComb JG, Menezes AH, Ragheb J, Smith JL, Maher CO, Greene S, Kelly M, O'Neill BR, Krieger MD, Tamber M, Durham SR, Olavarria G, Stone SSD, Kaufman BA, Heuer GG, Bauer DF, Albert G, Greenfield JP, Wait SD, Van Poppel MD, Eskandari R, Mapstone T, Shimony JS, Dacey RG, Smyth MD, Park TS, Limbrick DD. Radiological and clinical predictors of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2019 Aug 16:1-8. doi: 10.3171/2019.5.PEDS18527. [Epub ahead of print] PubMed PMID: 31419800.

29: Vannucci B, Santosa KB, Keane AM, Jablonka-Shariff A, Lu CY, Yan Y, MacEwan M, Snyder-Warwick AK. What is Normal? Neuromuscular junction reinnervation after nerve injury. *Muscle Nerve*. 2019 Nov;60(5):604-612. doi: 10.1002/mus.26654. Epub 2019 Aug 23. PubMed PMID: 31408210.

30: Khalifeh JM, Dibble CF, Van Voorhis A, Doering M, Boyer MI, Mahan MA, Wilson TJ, Midha R, Yang LJS, Ray WZ. Nerve transfers in the upper extremity following cervical spinal cord injury. Part 2: Preliminary results of a prospective clinical trial. *J Neurosurg Spine*. 2019 Jul 12:1-13. doi: 10.3171/2019.4.SPINE19399. [Epub ahead of print] PubMed PMID: 31299645.

31: Khalifeh JM, Dibble CF, Van Voorhis A, Doering M, Boyer MI, Mahan MA, Wilson TJ, Midha R, Yang LJS, Ray WZ. Nerve transfers in the upper extremity following cervical spinal cord injury. Part 1: Systematic review of the literature. *J Neurosurg Spine*. 2019 Jul 12:1-12. doi: 10.3171/2019.4.SPINE19173. [Epub ahead of print] Review. PubMed PMID: 31299644.

32: Pellisé F, Serra-Burriel M, Smith JS, Haddad S, Kelly MP, Vila-Casademunt A, Sánchez Pérez-Grueso FJ, Bess S, Gum JL, Burton DC, Acaroğlu E, Kleinstück F, Lafage V, Obeid I, Schwab F, Shaffrey CI, Alanay A, Ames C; International Spine Study Group; European Spine Study Group. Development and validation of risk stratification models for adult spinal deformity surgery. *J Neurosurg Spine*. 2019 Jun 28:1-13. doi: 10.3171/2019.3.SPINE181452. [Epub ahead of print] PubMed PMID: 31252385.

33: Leonard JC, Browne LR, Ahmad FA, Schwartz H, Wallendorf M, Leonard JR, Lerner EB, Kuppermann N. Cervical Spine Injury Risk Factors in Children With Blunt Trauma. *Pediatrics*. 2019 Jul;144(1). pii: e20183221. doi: 10.1542/peds.2018-3221. PubMed PMID: 31221898; PubMed Central PMCID: PMC6615532.

- 34: Cote DJ, Ostrom QT, Gittleman H, Duncan KR, CreveCoeur TS, Kruchko C, Smith TR, Stampfer MJ, Barnholtz-Sloan JS. Glioma incidence and survival variations by county-level socioeconomic measures. *Cancer*. 2019 Oct 1;125(19):3390-3400. doi: 10.1002/cncr.32328. Epub 2019 Jun 17. PubMed PMID: 31206646; PubMed Central PMCID: PMC6744292.
- 35: Ames CP, Smith JS, Pellisé F, Kelly M, Alanay A, Acaroğlu E, Pérez-Grueso FJS, Kleinstück F, Obeid I, Vila-Casademunt A, Shaffrey CI Jr, Burton D, Lafage V, Schwab F, Shaffrey CI Sr, Bess S, Serra-Burriel M; European Spine Study Group, International Spine Study Group. Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery: Towards a New Classification Scheme that Predicts Quality and Value. *Spine (Phila Pa 1976)*. 2019 Jul 1;44(13):915-926. doi: 10.1097/BRS.0000000000002974. PubMed PMID: 31205167.
- 36: Jafri H, Diringner MN, Allen M, Zazulia AR, Zipfel GJ, Dhar R. Burden of cerebral hypoperfusion in patients with delayed cerebral ischemia after subarachnoid hemorrhage. *J Neurosurg*. 2019 May 31;1-8. doi: 10.3171/2019.3.JNS183041. [Epub ahead of print] PubMed PMID: 31151110.
- 37: Passias PG, Bortz CA, Lafage V, Lafage R, Smith JS, Line B, Eastlack R, Gupta MC, Hostin RA, Horn SR, Segreto FA, Egers M, Sciubba DM, Gum JL, Kebaish KM, Klineberg EO, Burton DC, Schwab FJ, Shaffrey CI, Ames CP, Bess S. Durability of Satisfactory Functional Outcomes Following Surgical Adult Spinal Deformity Correction: A 3-Year Survivorship Analysis. *Oper Neurosurg (Hagerstown)*. 2019 May 31. pii: opz093. doi: 10.1093/ons/opz093. [Epub ahead of print] PubMed PMID: 31149719.
- 38: Baumann BC, Lustig RA, Mazzone S, Grady SM, O'Malley BW, Lee JYK, Newman JG, Schuster JM, Both S, Lin A, Dorsey JF, Alonso-Basanta M. A prospective clinical trial of proton therapy for chordoma and chondrosarcoma: Feasibility assessment. *J Surg Oncol*. 2019 Aug;120(2):200-205. doi: 10.1002/jso.25502. Epub 2019 May 20. PubMed PMID: 31111502.
- 39: Little AS, Chicoine MR, Kelly DF, Sarris CE, Mooney MA, White WL, Gardner PA, Fernandez-Miranda JC, Barkhoudarian G, Chandler JP, Prevedello DM, Liebelt BD, Sfondouris J, Mayberg MR; TRANSSPHER Study Group. Evaluation of Surgical Resection Goal and Its Relationship to Extent of Resection and Patient Outcomes in a Multicenter Prospective Study of Patients With Surgically Treated, Nonfunctioning pituitary neuroendocrine tumors: A Case Series. *Oper Neurosurg (Hagerstown)*. 2020 Jan 1;18(1):26-33. doi: 10.1093/ons/opz085. PubMed PMID: 31079156.
- 40: Vellimana AK, Diwan D, Clarke J, Gidday JM, Zipfel GJ. SIRT1 Activation: A Potential Strategy for Harnessing Endogenous Protection Against Delayed Cerebral Ischemia After Subarachnoid Hemorrhage. *Neurosurgery*. 2018 Sep 1;65(CN_suppl_1):1-5. doi: 10.1093/neuros/nyy201. PubMed PMID: 31076789.
- 41: Rennert RC, Khan U, Bartek J Jr, Tatter SB, Field M, Toyota B, Fecci PE, Judy K, Mohammadi AM, Landazuri P, Sloan AE, Kim AH, Leuthardt EC, Chen CC. Laser Ablation of Abnormal Neurological Tissue Using Robotic Neuroblate System (LAANTERN): Procedural Safety and Hospitalization. *Neurosurgery*. 2019 May 11. pii: nyz141. doi: 10.1093/neuros/nyz141. [Epub ahead of print] PubMed PMID: 31076762.
- 42: Hafez DM, Liekweg C, Leuthardt EC. Staged Laser Interstitial Thermal Therapy (LITT) Treatments to Left Insular Low-Grade Glioma. *Neurosurgery*. 2019 May 6. pii: nyz120. doi: 10.1093/neuros/nyz120. [Epub ahead of print] PubMed PMID: 31058967.
- 43: Silverstein JM, Goss CW, Kim AH. In Reply: Withholding Perioperative Steroids in Patients Undergoing Transsphenoidal Resection for Pituitary Disease: Randomized Prospective Clinical Trial to Assess Safety. *Neurosurgery*. 2019 Jul 1;85(1):E162. doi: 10.1093/neuros/nyz108. PubMed PMID:

30989222.

44: McGovern RA, Nelp TB, Kelly KM, Chan AK, Mazzone P, Sheth SA, Honig LS, Teich AF, McKhann GM. Predicting Cognitive Improvement in Normal Pressure Hydrocephalus Patients Using Preoperative Neuropsychological Testing and Cerebrospinal Fluid Biomarkers. *Neurosurgery*. 2019 Oct 1;85(4):E662-E669. doi: 10.1093/neuros/nyz102. PubMed PMID: 30937451.

45: Little AS, Kelly DF, White WL, Gardner PA, Fernandez-Miranda JC, Chicoine MR, Barkhoudarian G, Chandler JP, Prevedello DM, Liebelt BD, Sfondouris J, Mayberg MR; TRANSSPHER Study Group. Results of a prospective multicenter controlled study comparing surgical outcomes of microscopic versus fully endoscopic transsphenoidal surgery for nonfunctioning pituitary neuroendocrine tumors: the Transsphenoidal Extent of Resection (TRANSSPHER) Study. *J Neurosurg*. 2019 Mar 22;1-11. doi: 10.3171/2018.11.JNS181238. [Epub ahead of print] PubMed PMID: 30901746.

46: Patel RS, Schmidt AF, Tragante V, McCubrey RO, Holmes MV, Howe LJ, Direk K, Åkerblom A, Leander K, Virani SS, Kaminski KA, Muehlschlegel JD, Dubé MP, Allayee H, Almgren P, Alver M, Baranova EV, Behloul H, Boeckx B, Braund PS, Breitling LP, Delgado G, Duarte NE, Dufresne L, Eriksson N, Foco L, Gijsberts CM, Gong Y, Hartiala J, Heydarpour M, Hubacek JA, Kleber M, Kofink D, Kuukasjärvi P, Lee VV, Leiherer A, Lenzini PA, Levin D, Lyytikäinen LP, Martinelli N, Mons U, Nelson CP, Nikus K, Pilbrow AP, Ploski R, Sun YV, Tanck MWT, Tang WHW, Trompet S, van der Laan SW, van Setten J, Vilmundarson RO, Viviani Anselmi C, Vlachopoulou E, Boerwinkle E, Briguori C, Carlquist JF, Carruthers KF, Casu G, Deanfield J, Deloukas P, Dudbridge F, Fitzpatrick N, Gigante B, James S, Lokki ML, Lotufo PA, Marziliano N, Mordi IR, Muhlestein JB, Newton Cheh C, Pitha J, Saely CH, Samman-Tahhan A, Sandesara PB, Teren A, Timmis A, Van de Werf F, Wauters E, Wilde AAM, Ford I, Stott DJ, Algra A, Andreassi MG, Ardissino D, Arsenault BJ, Ballantyne CM, Bergmeijer TO, Bezzina CR, Body SC, Bogaty P, de Borst GJ, Brenner H, Burkhardt R, Carpeggiani C, Condorelli G, Cooper-DeHoff RM, Cresci S, de Faire U, Doughty RN, Drexel H, Engert JC, Fox KAA, Girelli D, Hagström E, Hazen SL, Held C, Hemingway H, Hoefer IE, Hovingh GK, Johnson JA, de Jong PA, Jukema JW, Kaczor MP, Kähönen M, Kettner J, Kiliszek M, Klungel OH, Lagerqvist B, Lambrechts D, Laurikka JO, Lehtimäki T, Lindholm D, Mahmoodi BK, Maitland-van der Zee AH, McPherson R, Melander O, Metspalu A, Pepinski W, Olivieri O, Opolski G, Palmer CN, Pasterkamp G, Pepine CJ, Pereira AC, Pilote L, Quyyumi AA, Richards AM, Sanak M, Scholz M, Siegbahn A, Sinisalo J, Smith JG, Spertus JA, Stewart AFR, Szczeklik W, Szpakowicz A, Ten Berg JM, Thanassoulis G, Thiery J, van der Graaf Y, Visseren FLJ, Waltenberger J; CARDIoGRAMPlusC4D Consortium, Van der Harst P, Tardif JC, Sattar N, Lang CC, Pare G, Brophy JM, Anderson JL, März W, Wallentin L, Cameron VA, Horne BD, Samani NJ, Hingorani AD, Asselbergs FW. Association of Chromosome 9p21 With Subsequent Coronary Heart Disease Events. *Circ Genom Precis Med*. 2019 Apr;12(4):e002471. doi: 10.1161/CIRCGEN.119.002471. Epub 2019 Mar 21. PubMed PMID: 30897348; PubMed Central PMCID: PMC6625876.

47: Patel RS, Tragante V, Schmidt AF, McCubrey RO, Holmes MV, Howe LJ, Direk K, Åkerblom A, Leander K, Virani SS, Kaminski KA, Muehlschlegel JD, Allayee H, Almgren P, Alver M, Baranova EV, Behloul H, Boeckx B, Braund PS, Breitling LP, Delgado G, Duarte NE, Dubé MP, Dufresne L, Eriksson N, Foco L, Scholz M, Gijsberts CM, Glinge C, Gong Y, Hartiala J, Heydarpour M, Hubacek JA, Kleber M, Kofink D, Kotti S, Kuukasjärvi P, Lee VV, Leiherer A, Lenzini PA, Levin D, Lyytikäinen LP, Martinelli N, Mons U, Nelson CP, Nikus K, Pilbrow AP, Ploski R, Sun YV, Tanck MWT, Tang WHW, Trompet S, van der Laan SW, Van Setten J, Vilmundarson RO, Viviani Anselmi C, Vlachopoulou E, Al Ali L, Boerwinkle E, Briguori C, Carlquist JF, Carruthers KF, Casu G, Deanfield J, Deloukas P, Dudbridge F, Engström T, Fitzpatrick N, Fox K, Gigante B, James S, Lokki ML, Lotufo PA, Marziliano N, Mordi IR, Muhlestein JB, Newton-Cheh C, Pitha J, Saely CH, Samman-Tahhan A, Sandesara PB, Teren A, Timmis A, Van de Werf F, Wauters E, Wilde AAM, Ford I, Stott DJ, Algra A, Andreassi MG, Ardissino D, Arsenault BJ, Ballantyne CM, Bergmeijer TO, Bezzina CR, Body SC, Boersma EH, Bogaty P, Bots ML, Brenner H, Brugts JJ, Burkhardt R, Carpeggiani C, Condorelli G, Cooper-DeHoff RM, Cresci S, Danchin N, de Faire U, Doughty

RN, Drexel H, Engert JC, Fox KAA, Girelli D, Grobbee DE, Hagström E, Hazen SL, Held C, Hemingway H, Hoefler IE, Hovingh GK, Jabbari R, Johnson JA, Jukema JW, Kaczor MP, Kähönen M, Kettner J, Kiliszek M, Klungel OH, Lagerqvist B, Lambrechts D, Laurikka JO, Lehtimäki T, Lindholm D, Mahmoodi BK, Maitland-van der Zee AH, McPherson R, Melander O, Metspalu A, Niemcunowicz-Janica A, Olivieri O, Opolski G, Palmer CN, Pasterkamp G, Pepine CJ, Pereira AC, Pilote L, Quyyumi AA, Richards AM, Sanak M, Siegbahn A, Simon T, Sinisalo J, Smith JG, Spertus JA, Stender S, Stewart AFR, Szczeklik W, Szpakowicz A, Tardif JC, Ten Berg JM, Tfelt-Hansen J, Thanassoulis G, Thiery J, Torp-Pedersen C, van der Graaf Y, Visseren FLJ, Waltenberger J, Weeke PE, Van der Harst P, Lang CC, Sattar N, Cameron VA, Anderson JL, Brophy JM, Pare G, Horne BD, März W, Wallentin L, Samani NJ, Hingorani AD, Asselbergs FW. Subsequent Event Risk in Individuals With Established Coronary Heart Disease. *Circ Genom Precis Med*. 2019 Apr;12(4):e002470. doi: 10.1161/CIRCGEN.119.002470. Epub 2019 Mar 21. PubMed PMID: 30896328; PubMed Central PMCID: PMC6629546.

48: Bortz CA, Passias PG, Segreto F, Horn SR, Lafage V, Smith JS, Line B, Mundis GM, Kebaish KM, Kelly MP, Protopsaltis T, Sciubba DM, Soroceanu A, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP. Indicators for Nonroutine Discharge Following Cervical Deformity-Corrective Surgery: Radiographic, Surgical, and Patient-Related Factors. *Neurosurgery*. 2019 Sep 1;85(3):E509-E519. doi: 10.1093/neuros/nyz016. PubMed PMID: 30848284.

49: Palmer EE, Hong S, Al Zahrani F, Hashem MO, Aleisa FA, Ahmed HMJ, Kandula T, Macintosh R, Minoche AE, Puttick C, Gayevskiy V, Drew AP, Cowley MJ, Dinger M, Rosenfeld JA, Xiao R, Cho MT, Yakubu SF, Henderson LB, Guillen Sacoto MJ, Begtrup A, Hamad M, Shinawi M, Andrews MV, Jones MC, Lindstrom K, Bristol RE, Kayani S, Snyder M, Villanueva MM, Schteinschnaider A, Faivre L, Thauvin C, Vitobello A, Roscioli T, Kirk EP, Bye A, Merzaban J, Jaremko Ł, Jaremko M, Sachdev RK, Alkuraya FS, Arold ST. De Novo Variants Disrupting the HX Repeat Motif of ATN1 Cause a Recognizable Non-Progressive Neurocognitive Syndrome. *Am J Hum Genet*. 2019 Mar 7;104(3):542-552. doi: 10.1016/j.ajhg.2019.01.013. Epub 2019 Feb 28. Erratum in: *Am J Hum Genet*. 2019 Apr 4;104(4):778. PubMed PMID: 30827498; PubMed Central PMCID: PMC6407605.

50: Nguyen TV, Jones SL, Gower T, Lew J, Albaugh MD, Botteron KN, Hudziak JJ, Fonov VS, Louis Collins D, Campbell BC, Booij L, Herba CM, Monnier P, Ducharme S, Waber D, McCracken JT. Age-specific associations between oestradiol, cortico-amygdalar structural covariance, and verbal and spatial skills. *J Neuroendocrinol*. 2019 Apr;31(4):e12698. doi: 10.1111/jne.12698. Epub 2019 Mar 13. PubMed PMID: 30776161; PubMed Central PMCID: PMC6482064.

51: Hendershott TR, Zhu D, Llanes S, Zabetian CP, Quinn J, Edwards KL, Leverenz JB, Montine T, Cholerton B, Poston KL. Comparative sensitivity of the MoCA and Mattis Dementia Rating Scale-2 in Parkinson's disease. *Mov Disord*. 2019 Feb;34(2):285-291. doi: 10.1002/mds.27575. Epub 2018 Dec 10. PubMed PMID: 30776152; PubMed Central PMCID: PMC6532623.

52: Simon TD, Kronman MP, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni AV, Langley M, Limbrick DD, Luerssen TG, Oakes WJ, Riva-Cambrin J, Rozzelle C, Shannon CN, Tamber M, Wellons JC, Whitehead WE, Mayer-Hamblett N. Reinfection rates following adherence to Infectious Diseases Society of America guideline recommendations in first cerebrospinal fluid shunt infection treatment. *J Neurosurg Pediatr*. 2019 Feb 15:1-9. doi: 10.3171/2018.11.PEDS18373. [Epub ahead of print] PubMed PMID: 30771757.

53: Mattei TA, Goulart CR, Rai SS, Rehman AA, Williams M, Mendel E. Rapid Development of Spinal Epidural Lipomatosis after Treatment of Metastatic Castration-Resistant Prostate Cancer with Second-Generation Androgen Receptor Antagonists. *World Neurosurg*. 2019 May;125:222-227. doi: 10.1016/j.wneu.2019.01.222. Epub 2019 Feb 11. PubMed PMID: 30763756.

- 54: Chiang JCH, Harreld JH, Tanaka R, Li X, Wen J, Zhang C, Boué DR, Rauch TM, Boyd JT, Chen J, Corbo JC, Bouldin TW, Elton SW, Liu LL, Schofield D, Lee SC, Bouffard JP, Georgescu MM, Dossani RH, Aguiar MA, Sances RA, Saad AG, Boop FA, Qaddoumi I, Ellison DW. Septal dysembryoplastic neuroepithelial tumor: a comprehensive clinical, imaging, histopathologic, and molecular analysis. *Neuro Oncol.* 2019 Jun 10;21(6):800-808. doi: 10.1093/neuonc/noz037. PubMed PMID: 30726976; PubMed Central PMCID: PMC6556860.
- 55: Nguyen TN, Castonguay AC, Nogueira RG, Haussen DC, English JD, Satti SR, Chen J, Farid H, Borders C, Veznedaroglu E, Binning MJ, Puri AS, Vora NA, Budzik RF, Dabus G, Linfante I, Janardhan V, Alsheklee A, Abraham MG, Edgell RC, Taqi MA, El Khoury R, Mokin M, Majjhoo AQ, Kabbani MR, Froehler MT, Finch I, Ansari SA, Novakovic R, Abdalkader M, Zaidat OO. Effect of balloon guide catheter on clinical outcomes and reperfusion in Trevo thrombectomy. *J Neurointerv Surg.* 2019 Sep;11(9):861-865. doi: 10.1136/neurintsurg-2018-014452. Epub 2019 Feb 2. PubMed PMID: 30712011.
- 56: Luciano MG, Batzdorf U, Kula RW, Rocque BG, Maher CO, Heiss J, Martin BA, Bolognese PA, Ashley-Koch A, Limbrick D, Poppe DJ, Esposito KM, Odenkirchen J, Esterlitz JR, Ala'i S, Joseph K, Feldman RS, Riddle R; Chiari I Malformation Common Data Element Working Group. Development of Common Data Elements for Use in Chiari Malformation Type I Clinical Research: An NIH/NINDS Project. *Neurosurgery.* 2019 Dec 1;85(6):854-860. doi: 10.1093/neuros/nyy475. PubMed PMID: 30690581.
- 57: Mooney MA, Sarris CE, Zhou JJ, Barkhoudarian G, Chicoine MR, Fernandez-Miranda JC, Gardner PA, Hardesty DA, Jahnke H, Kelly DF, Liebelt BD, Mayberg MR, Prevedello DM, Sfondouris J, Sheehy JP, Chandler JP, Yuen KCJ, White WL, Little AS; TRANSSPHER Study Group . Proposal and Validation of a Simple Grading Scale (TRANSSPHER Grade) for Predicting Gross Total Resection of Nonfunctioning Pituitary Macroadenomas After Transsphenoidal Surgery. *Oper Neurosurg (Hagerstown).* 2019 Nov 1;17(5):460-469. doi: 10.1093/ons/opy401. PubMed PMID: 30649445.
- 58: Wallace AN, Madaelil TP, Kamran M, Miller TR, Delgado Almandoz JE, Grossberg JA, Kansagra AP, Gandhi D, Kayan Y, Cawley CM, Moran CJ, Jindal G, CreveCoeur T, Howard BM, Cross DT, Kole MJ, Roy AK, Dion JE, Osbun JW. Pipeline Embolization of Vertebrobasilar Aneurysms-A Multicenter Case Series. *World Neurosurg.* 2019 Jan 3. pii: S1878-8750(18)32939-5. doi: 10.1016/j.wneu.2018.12.116. [Epub ahead of print] PubMed PMID: 30610980.
- 59: Godzik J, Dalton JF, Martinez-Del-Campo E, Newcomb AGUS, Dominguez F, Reyes PM, Theodore N, Kelly BP, Crawford NR. Biomechanical Evaluation of Cervicothoracic Junction Fusion Constructs. *World Neurosurg.* 2018 Dec 20. pii: S1878-8750(18)32863-8. doi: 10.1016/j.wneu.2018.12.040. [Epub ahead of print] PubMed PMID: 30579021.
- 60: Clarke CM, Fok VT, Gustafson JA, Smyth MD, Timms AE, Frazar CD, Smith JD, Birgfeld CB, Lee A, Ellenbogen RG, Gruss JS, Hopper RA, Cunningham ML. Single suture craniosynostosis: Identification of rare variants in genes associated with syndromic forms. *Am J Med Genet A.* 2018 Feb;176(2):290-300. *Am J Med Genet A.* 2018 Nov;176(11):2522. doi: 10.1002/ajmg.a.38846. Epub 2018 Sep 20. PubMed PMID: 30537273.
- 61: Lin TH, Sun P, Hallman M, Hwang FC, Wallendorf M, Ray WZ, Spees WM, Song SK. Noninvasive Quantification of Axonal Loss in the Presence of Tissue Swelling in Traumatic Spinal Cord Injury Mice. *J Neurotrauma.* 2019 Aug 1;36(15):2308-2315. doi: 10.1089/neu.2018.6016. Epub 2019 Jan 11. PubMed PMID: 30501460; PubMed Central PMCID: PMC6648203.
- 62: Pickersgill NA, Skolnick GB, Naidoo SD, Smyth MD, Patel KB. Regression of cephalic index following endoscopic repair of sagittal synostosis. *J Neurosurg Pediatr.* 2018 Oct 5;23(1):54-60. doi:

10.3171/2018.7.PEDS18195. PubMed PMID: 30497205.

63: Greenberg JK, Jeffe DB, Carpenter CR, Yan Y, Pineda JA, Lumba-Brown A, Keller MS, Berger D, Bollo RJ, Ravindra VM, Naftel RP, Dewan MC, Shah MN, Burns EC, O'Neill BR, Hankinson TC, Whitehead WE, Adelson PD, Tamber MS, McDonald PJ, Ahn ES, Titsworth W, West AN, Brownson RC, Limbrick DD. North American survey on the post-neuroimaging management of children with mild head injuries. *J Neurosurg Pediatr*. 2018 Oct 26;23(2):227-235. doi: 10.3171/2018.7.PEDS18263. PubMed PMID: 30485194; PubMed Central PMCID: PMC6717430.

64: Staub BN, Lafage R, Kim HJ, Shaffrey CI, Mundis GM, Hostin R, Burton D, Lenke L, Gupta MC, Ames C, Klineberg E, Bess S, Schwab F, Lafage V; International Spine Study Group. Cervical mismatch: the normative value of T1 slope minus cervical lordosis and its ability to predict ideal cervical lordosis. *J Neurosurg Spine*. 2018 Oct 5;30(1):31-37. doi: 10.3171/2018.5.SPINE171232. PubMed PMID: 30485176.

65: Mohammadi AM, Sharma M, Beaumont TL, Juarez KO, Kemeny H, Dechant C, Seas A, Sarmey N, Lee BS, Jia X, Fecci PE, Baehring J, Moliterno J, Chiang VL, Ahluwalia MS, Kim AH, Barnett GH, Leuthardt EC. Upfront Magnetic Resonance Imaging-Guided Stereotactic Laser-Ablation in Newly Diagnosed Glioblastoma: A Multicenter Review of Survival Outcomes Compared to a Matched Cohort of Biopsy-Only Patients. *Neurosurgery*. 2019 Dec 1;85(6):762-772. doi: 10.1093/neuros/nyy449. PubMed PMID: 30476325.

66: Shen SQ, Sinha N, Perrin RJ, Ghoshal N, Hawasli AH, Womer FY. Acquired mania associated with a left temporal meningioma. *Bipolar Disord*. 2018 Dec;20(8):774-777. doi: 10.1111/bdi.12711. Epub 2018 Nov 16. PubMed PMID: 30447044.

67: Choi D, Ricciardi F, Arts M, Buchowski JM, Bungler C, Chung CK, Coppes M, Depreitere B, Fehlings M, Kawahara N, Leung Y, Martin-Benlloch A, Massicotte E, Mazel C, Meyer B, Oner C, Peul W, Quraishi N, Tokuhashi Y, Tomita K, Ulbricht C, Verlaan JJ, Wang M, Crockard A. Prediction Accuracy of Common Prognostic Scoring Systems for Metastatic Spine Disease: Results of a Prospective International Multicentre Study of 1469 Patients. *Spine (Phila Pa 1976)*. 2018 Dec 1;43(23):1678-1684. doi: 10.1097/BRS.0000000000002576. PubMed PMID: 30422958.

68: Treviño-Villarreal JH, Reynolds JS, Bartelt A, Langston PK, MacArthur MR, Arduini A, Tosti V, Veronese N, Bertozzi B, Brace LE, Mejia P, Trocha K, Kajitani GS, Longchamp A, Harputlugil E, Gathungu R, Bird SS, Bullock AD, Figenshau RS, Andriole GL, Thompson A, Heeren J, Ozaki CK, Kristal BS, Fontana L, Mitchell JR. Dietary protein restriction reduces circulating VLDL triglyceride levels via CREBH-APOA5-dependent and -independent mechanisms. *JCI Insight*. 2018 Nov 2;3(21). pii: 99470. doi: 10.1172/jci.insight.99470. PubMed PMID: 30385734; PubMed Central PMCID: PMC6238732.

69: Siddiqi SH, Trapp NT, Hacker CD, Laumann TO, Kandala S, Hong X, Trillo L, Shahim P, Leuthardt EC, Carter AR, Brody DL. Repetitive Transcranial Magnetic Stimulation with Resting-State Network Targeting for Treatment-Resistant Depression in Traumatic Brain Injury: A Randomized, Controlled, Double-Blinded Pilot Study. *J Neurotrauma*. 2019 Apr 15;36(8):1361-1374. doi: 10.1089/neu.2018.5889. Epub 2019 Jan 7. PubMed PMID: 30381997; PubMed Central PMCID: PMC6909726.

70: Lee JJ, Shimony JS, Jafri H, Zazulia AR, Dacey RG Jr, Zipfel GR, Derdeyn CP. Hemodynamic Impairment Measured by Positron-Emission Tomography Is Regionally Associated with Decreased Cortical Thickness in Moyamoya Phenomenon. *AJNR Am J Neuroradiol*. 2018 Nov;39(11):2037-2044. doi: 10.3174/ajnr.A5812. Epub 2018 Oct 25. PubMed PMID: 30361434.

- 71: Linzey JR, Kahn EN, Shlykov MA, Johnson KT, Sullivan K, Pandey AS. Length of Stay Beyond Medical Readiness in Neurosurgical Patients: A Prospective Analysis. *Neurosurgery*. 2019 Jul 1;85(1):E60-E65. doi: 10.1093/neuros/nyy440. PubMed PMID: 30335159.
- 72: Sterl K, Thompson B, Goss CW, Dacey RG, Rich KM, Zipfel GJ, Chicoine MR, Kim AH, Silverstein JM. Withholding Perioperative Steroids in Patients Undergoing Transsphenoidal Resection for Pituitary Disease: Randomized Prospective Clinical Trial to Assess Safety. *Neurosurgery*. 2019 Aug 1;85(2):E226-E232. doi: 10.1093/neuros/nyy479. PubMed PMID: 30325449.
- 73: Chi JH, Eichholz KM, Anderson PA, Arnold PM, Dailey AT, Dhall SS, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Novel Surgical Strategies. *Neurosurgery*. 2019 Jan 1;84(1):E59-E62. doi: 10.1093/neuros/nyy364. PubMed PMID: 30299485.
- 74: Isaacs AM, Riva-Cambrin J, Yavin D, Hockley A, Pringsheim TM, Jette N, Lethebe BC, Lowerison M, Dronyk J, Hamilton MG. Age-specific global epidemiology of hydrocephalus: Systematic review, metanalysis and global birth surveillance. *PLoS One*. 2018 Oct 1;13(10):e0204926. doi: 10.1371/journal.pone.0204926. eCollection 2018. Erratum in: *PLoS One*. 2019 Jan 10;14(1):e0210851. PubMed PMID: 30273390; PubMed Central PMCID: PMC6166961.
- 75: Leidinger A, Extremera P, Kim EE, Qureshi MM, Young PH, Piquer J. The challenges and opportunities of global neurosurgery in East Africa: the Neurosurgery Education and Development model. *Neurosurg Focus*. 2018 Oct;45(4):E8. doi: 10.3171/2018.7.FOCUS18287. PubMed PMID: 30269584.
- 76: Leidinger A, Piquer J, Kim EE, Nahonda H, Qureshi MM, Young PH. Experience in the Early Surgical Management of Myelomeningocele in Zanzibar. *World Neurosurg*. 2019 Jan;121:e493-e499. doi: 10.1016/j.wneu.2018.09.145. Epub 2018 Sep 27. PubMed PMID: 30268549.
- 77: Brasiliense LBC, Aguilar-Salinas P, Lopes DK, Nogueira D, DeSousa K, Nelson PK, Moran CJ, Mazur MD, Taussky P, Park MS, Dabus G, Linfante I, Chaudry I, Turner RD, Spiotta AM, Turk AS, Siddiqui AH, Levy EI, Hopkins LN, Arthur AS, Nickle C, Gonsales D, Sauvageau E, Hanel RA. Multicenter Study of Pipeline Flex for Intracranial Aneurysms. *Neurosurgery*. 2019 Jun 1;84(6):E402-E409. doi: 10.1093/neuros/nyy422. PubMed PMID: 30239959.
- 78: Godzik J, Hool N, Dalton JF, Whiting AC, Newcomb AGUS, Kelly BP, Crawford NR. Impact of Connector Placement and Design on Bending Stiffness of Spinal Constructs. *World Neurosurg*. 2019 Jan;121:e89-e95. doi: 10.1016/j.wneu.2018.08.235. Epub 2018 Sep 11. PubMed PMID: 30217782.
- 79: Kestle JRW, Lee A, Anderson RCE, Gociman B, Patel KB, Smyth MD, Birgfeld C, Pollack IF, Goldstein JA, Tamber M, Imahiyero T, Siddiqui FA; Synostosis Research Group. Variation in the management of isolated craniosynostosis: a survey of the Synostosis Research Group. *J Neurosurg Pediatr*. 2018 Dec 1;22(6):627-631. doi: 10.3171/2018.7.PEDS18132. PubMed PMID: 30215587.
- 80: Alexiades NG, Ahn ES, Blount JP, Brockmeyer DL, Browd SR, Grant GA, Heuer GG, Hankinson TC, Iskandar BJ, Jea A, Krieger MD, Leonard JR, Limbrick DD, Maher CO, Proctor MR, Sandberg DI, Wellons JC, Shao B, Feldstein NA, Anderson RCE. Development of best practices to minimize wound complications after complex tethered spinal cord surgery: a modified Delphi study. *J Neurosurg Pediatr*. 2018 Dec 1;22(6):701-709. doi: 10.3171/2018.6.PEDS18243. PubMed PMID: 30215584.
- 81: Anderson PA, Raksin PB, Arnold PM, Chi JH, Dailey AT, Dhall SS, Eichholz KM, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and

Evidence-Based Guidelines on the Evaluation and Treatment of Patients with Thoracolumbar Spine Trauma: Surgical Approaches. *Neurosurgery*. 2019 Jan 1;84(1):E56-E58. doi: 10.1093/neuros/nyy363. PubMed PMID: 30203100.

82: Hoh DJ, Qureshi S, Anderson PA, Arnold PM, John HC, Dailey AT, Dhall SS, Eichholz KM, Harrop JS, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Nonoperative Care. *Neurosurgery*. 2019 Jan 1;84(1):E46-E49. doi: 10.1093/neuros/nyy369. PubMed PMID: 30203096.

83: Harrop JS, Chi JH, Anderson PA, Arnold PM, Dailey AT, Dhall SS, Eichholz KM, Hoh DJ, Qureshi S, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Neurological Assessment. *Neurosurgery*. 2019 Jan 1;84(1):E32-E35. doi: 10.1093/neuros/nyy370. PubMed PMID: 30203084.

84: Raksin PB, Harrop JS, Anderson PA, Arnold PM, Chi JH, Dailey AT, Dhall SS, Eichholz KM, Hoh DJ, Qureshi S, Rabb CH, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Prophylaxis and Treatment of Thromboembolic Events. *Neurosurgery*. 2019 Jan 1;84(1):E39-E42. doi: 10.1093/neuros/nyy367. PubMed PMID: 30203078.

85: Rabb CH, Hoh DJ, Anderson PA, Arnold PM, Chi JH, Dailey AT, Dhall SS, Eichholz KM, Harrop JS, Qureshi S, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients with Thoracolumbar Spine Trauma: Operative Versus Nonoperative Treatment. *Neurosurgery*. 2019 Jan 1;84(1):E50-E52. doi: 10.1093/neuros/nyy361. PubMed PMID: 30203034.

86: Qureshi S, Dhall SS, Anderson PA, Arnold PM, Chi JH, Dailey AT, Eichholz KM, Harrop JS, Hoh DJ, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Radiological Evaluation. *Neurosurgery*. 2019 Jan 1;84(1):E28-E31. doi: 10.1093/neuros/nyy373. PubMed PMID: 30202989.

87: O'Toole JE, Kaiser MG, Anderson PA, Arnold PM, Chi JH, Dailey AT, Dhall SS, Eichholz KM, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Raksin PB. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients with Thoracolumbar Spine Trauma: Executive Summary. *Neurosurgery*. 2019 Jan 1;84(1):2-6. doi: 10.1093/neuros/nyy394. PubMed PMID: 30202985.

88: Arnold PM, Anderson PA, Chi JH, Dailey AT, Dhall SS, Eichholz KM, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Pharmacological Treatment. *Neurosurgery*. 2019 Jan 1;84(1):E36-E38. doi: 10.1093/neuros/nyy371. PubMed PMID: 30202962.

89: Dhall SS, Dailey AT, Anderson PA, Arnold PM, Chi JH, Eichholz KM, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Hemodynamic Management. *Neurosurgery*. 2019 Jan 1;84(1):E43-E45. doi: 10.1093/neuros/nyy368. PubMed PMID: 30202931.

90: Dailey AT, Arnold PM, Anderson PA, Chi JH, Dhall SS, Eichholz KM, Harrop JS, Hoh DJ, Qureshi S, Rabb CH, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Classification of Injury. *Neurosurgery*. 2019 Jan 1;84(1):E24-E27. doi: 10.1093/neuros/nyy372. PubMed PMID: 30202904.

91: Eichholz KM, Rabb CH, Anderson PA, Arnold PM, Chi JH, Dailey AT, Dhall SS, Harrop JS, Hoh DJ, Qureshi S, Raksin PB, Kaiser MG, O'Toole JE. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Evaluation and Treatment of Patients With Thoracolumbar Spine Trauma: Timing of Surgical Intervention. *Neurosurgery*. 2019 Jan 1;84(1):E53-E55. doi: 10.1093/neuros/nyy362. PubMed PMID: 30202868.

92: Lumba-Brown A, Yeates KO, Sarmiento K, Breiding MJ, Haegerich TM, Gioia GA, Turner M, Benzel EC, Suskauer SJ, Giza CC, Joseph M, Broomand C, Weissman B, Gordon W, Wright DW, Moser RS, McAvoy K, Ewing-Cobbs L, Duhaime AC, Putukian M, Holshouser B, Paulk D, Wade SL, Herring SA, Halstead M, Keenan HT, Choe M, Christian CW, Guskiewicz K, Raksin PB, Gregory A, Mucha A, Taylor HG, Callahan JM, DeWitt J, Collins MW, Kirkwood MW, Ragheb J, Ellenbogen RG, Spinks TJ, Ganiats TG, Sabelhaus LJ, Altenhofen K, Hoffman R, Getchius T, Gronseth G, Donnell Z, O'Connor RE, Timmons SD. Diagnosis and Management of Mild Traumatic Brain Injury in Children: A Systematic Review. *JAMA Pediatr*. 2018 Nov 1;172(11):e182847. doi: 10.1001/jamapediatrics.2018.2847. Epub 2018 Nov 5. Erratum in: *JAMA Pediatr*. 2018 Nov 1;172(11):1104. PubMed PMID: 30193325.

93: Lumba-Brown A, Yeates KO, Sarmiento K, Breiding MJ, Haegerich TM, Gioia GA, Turner M, Benzel EC, Suskauer SJ, Giza CC, Joseph M, Broomand C, Weissman B, Gordon W, Wright DW, Moser RS, McAvoy K, Ewing-Cobbs L, Duhaime AC, Putukian M, Holshouser B, Paulk D, Wade SL, Herring SA, Halstead M, Keenan HT, Choe M, Christian CW, Guskiewicz K, Raksin PB, Gregory A, Mucha A, Taylor HG, Callahan JM, DeWitt J, Collins MW, Kirkwood MW, Ragheb J, Ellenbogen RG, Spinks TJ, Ganiats TG, Sabelhaus LJ, Altenhofen K, Hoffman R, Getchius T, Gronseth G, Donnell Z, O'Connor RE, Timmons SD. Centers for Disease Control and Prevention Guideline on the Diagnosis and Management of Mild Traumatic Brain Injury Among Children. *JAMA Pediatr*. 2018 Nov 1;172(11):e182853. doi: 10.1001/jamapediatrics.2018.2853. Epub 2018 Nov 5. Erratum in: *JAMA Pediatr*. 2018 Nov 1;172(11):1104. PubMed PMID: 30193284.

94: Duan C, Yang R, Yuan L, Engelbach JA, Tsien CI, Rich KM, Dahiya SM, Johanns TM, Ackerman JJH, Garbow JR. Late Effects of Radiation Prime the Brain Microenvironment for Accelerated Tumor Growth. *Int J Radiat Oncol Biol Phys*. 2019 Jan 1;103(1):190-194. doi: 10.1016/j.ijrobp.2018.08.033. Epub 2018 Aug 30. PubMed PMID: 30171879; PubMed Central PMCID: PMC6849509.

95: Wilde EA, Provenzale JM, Taylor BA, Boss M, Zuccolotto A, Hachey R, Pathak S, Tate DF, Abildskov TJ, Schneider W. Assessment of quantitative magnetic resonance imaging metrics in the brain through the use of a novel phantom. *Brain Inj*. 2018;32(10):1266-1276. doi: 10.1080/02699052.2018.1494855. PubMed PMID: 30169993.

96: Ostrom QT, Kinnersley B, Armstrong G, Rice T, Chen Y, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Bernstein JL, Claus EB, Eckel-Passow JE, Il'yasova D, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Rubin JB, Andersson U, Rajaraman P, Chanock SJ, Linet MS, Wang Z, Yeager M; GliomaScan consortium, Houlston RS, Jenkins RB, Wrensch MR, Melin B, Bondy ML, Barnholtz-Sloan JS. Age-specific genome-wide association study in glioblastoma identifies increased proportion of 'lower grade glioma'-like features associated with younger age. *Int J Cancer*. 2018 Nov 15;143(10):2359-2366. doi: 10.1002/ijc.31759. Epub 2018 Sep 19. PubMed PMID: 30152087; PubMed Central PMCID: PMC6205887.

- 97: Mooney MA, Herro AM, Fintelmann RE, Mayberg MR, Barkhoudarian G, Gardner PA, Prevedello DM, Chicoine MR, Kelly DF, Chandler JP, Jahnke H, White WL, Little AS. Visual Field Outcome Reporting in Neurosurgery: Lessons Learned from a Prospective, Multicenter Study of Transsphenoidal Pituitary Surgery. *World Neurosurg*. 2018 Dec;120:e326-e332. doi: 10.1016/j.wneu.2018.08.069. Epub 2018 Aug 23. PubMed PMID: 30144606.
- 98: Kamath AA, Friedman DD, Akbari SHA, Kim AH, Tao Y, Luo J, Leuthardt EC. Glioblastoma Treated With Magnetic Resonance Imaging-Guided Laser Interstitial Thermal Therapy: Safety, Efficacy, and Outcomes. *Neurosurgery*. 2019 Apr 1;84(4):836-843. doi: 10.1093/neuros/nyy375. PubMed PMID: 30137606; PubMed Central PMCID: PMC6425465.
- 99: Ostrom QT, Coleman W, Huang W, Rubin JB, Lathia JD, Berens ME, Speyer G, Liao P, Wrensch MR, Eckel-Passow JE, Armstrong G, Rice T, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Bernstein JL, Claus EB, Houlston RS, Il'yasova D, Jenkins RB, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Andersson U, Rajaraman P, Chanock SJ, Linet MS, Wang Z, Yeager M; GliomaScan consortium, Melin B, Bondy ML, Barnholtz-Sloan JS. Sex-specific gene and pathway modeling of inherited glioma risk. *Neuro Oncol*. 2019 Jan 1;21(1):71-82. doi: 10.1093/neuonc/noy135. PubMed PMID: 30124908; PubMed Central PMCID: PMC6303471.
- 100: Hendrickson NR, Kelly MP, Ghogawala Z, Pugely AJ. Operative Management of Degenerative Spondylolisthesis: A Critical Analysis Review. *JBS Rev*. 2018 Aug;6(8):e4. doi: 10.2106/JBS.RVW.17.00181. Review. PubMed PMID: 30106765.
- 101: Protosaltis TS, Diebo BG, Lafage R, Henry JK, Smith JS, Scheer JK, Sciubba DM, Passias PG, Kim HJ, Hamilton DK, Soroceanu A, Klineberg EO, Ames CP, Shaffrey CI, Bess S, Hart RA, Schwab FJ, Lafage V; International Spine Study Group. Identifying Thoracic Compensation and Predicting Reciprocal Thoracic Kyphosis and Proximal Junctional Kyphosis in Adult Spinal Deformity Surgery. *Spine (Phila Pa 1976)*. 2018 Nov 1;43(21):1479-1486. doi: 10.1097/BRS.0000000000002843. PubMed PMID: 30096125.
- 102: Chen JJ, Flanagan EP, Jitrapaikulsan J, López-Chiriboga ASS, Fryer JP, Leavitt JA, Weinshenker BG, McKeon A, Tillemma JM, Lennon VA, Tobin WO, Keegan BM, Lucchinetti CF, Kantarci OH, McClelland CM, Lee MS, Bennett JL, Pelak VS, Chen Y, VanStavern G, Adesina OO, Eggenberger ER, Acierno MD, Wingerchuk DM, Brazis PW, Sagen J, Pittock SJ. Myelin Oligodendrocyte Glycoprotein Antibody-Positive Optic Neuritis: Clinical Characteristics, Radiologic Clues, and Outcome. *Am J Ophthalmol*. 2018 Nov;195:8-15. doi: 10.1016/j.ajo.2018.07.020. Epub 2018 Jul 26. PubMed PMID: 30055153; PubMed Central PMCID: PMC6371779.
- 103: Zaidat OO, Castonguay AC, Gupta R, Sun CJ, Martin C, Holloway WE, Mueller-Kronast N, English JD, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, Issa MA, Nogueira RG. North American Solitaire Stent Retriever Acute Stroke registry: post-marketing revascularization and clinical outcome results. *J Neurointerv Surg*. 2018 Jul;10(Suppl 1):i45-i49. doi: 10.1136/neurintsurg-2013-010895.rep. PubMed PMID: 30037956.
- 104: Mattei TA. Practical Effects of Lowering the P Value in Neurosurgery: Restricting Evidence-Based Medicine to Big Business. *World Neurosurg*. 2018 Sep;117:460-462. doi: 10.1016/j.wneu.2018.07.112. Epub 2018 Jul 18. PubMed PMID: 30031185.
- 105: Yee A, Coombs DM, Hildebrandt S, Seideman WE, Coert JH, Mackinnon SE. In Reply: Nerve Surgeons' Assessment of the Role of Eduard Pernkopf's Atlas of Topographic and Applied Human

Anatomy in Surgical Practice. Neurosurgery. 2018 Oct 1;83(4):E189. doi: 10.1093/neuros/nyy329. PubMed PMID: 30011031.

106: Dadey DYA, Kapoor V, Khudanyan A, Thotala D, Hallahan DE. PERK Regulates Glioblastoma Sensitivity to ER Stress Although Promoting Radiation Resistance. Mol Cancer Res. 2018 Oct;16(10):1447-1453. doi: 10.1158/1541-7786.MCR-18-0224. Epub 2018 Jul 10. PubMed PMID: 29991528.

107: Adogwa O, Karikari IO, Elsamadicy AA, Sergesketter AR, Galan D, Bridwell KH. Correlation of 2-year SRS-22r and ODI patient-reported outcomes with 5-year patient-reported outcomes after complex spinal fusion: a 5-year single-institution study of 118 patients. J Neurosurg Spine. 2018 Oct;29(4):422-428. doi: 10.3171/2018.2.SPINE171142. Epub 2018 Jul 6. PubMed PMID: 29979138.

108: Lin AJ, Hui C, Dahiya S, Lu HC, Kim AH, Campian JL, Tsien C, Zipfel GJ, Rich KM, Chicoine M, Huang J. Radiologic Response and Disease Control of Recurrent Intracranial Meningiomas Treated With Reirradiation. Int J Radiat Oncol Biol Phys. 2018 Sep 1;102(1):194-203. doi: 10.1016/j.ijrobp.2018.05.011. Epub 2018 Jun 30. PubMed PMID: 29970312.

109: Daniels AH, DePasse JM, Durand W, Hamilton DK, Passias P, Kim HJ, Protopsaltis T, Reid DBC, LaFage V, Smith JS, Shaffrey C, Gupta M, Klineberg E, Schwab F, Burton D, Bess S, Ames C, Hart RA; International Spine Study Group. Rod Fracture After Apparently Solid Radiographic Fusion in Adult Spinal Deformity Patients. World Neurosurg. 2018 Sep;117:e530-e537. doi: 10.1016/j.wneu.2018.06.071. Epub 2018 Jun 19. PubMed PMID: 29929025.

110: Leidinger A, Piquer J, Kim EE, Nahonda H, Qureshi MM, Young PH. Treating Pediatric Hydrocephalus at the Neurosurgery Education and Development Institute: The Reality in the Zanzibar Archipelago, Tanzania. World Neurosurg. 2018 Sep;117:e450-e456. doi: 10.1016/j.wneu.2018.06.050. Epub 2018 Jun 18. PubMed PMID: 29920393.

111: Abraham C, Garsa A, Badiyan SN, Drzymala R, Yang D, DeWees T, Tsien C, Dowling JL, Rich KM, Chicoine MR, Kim AH, Leuthardt EC, Robinson C. Internal dose escalation is associated with increased local control for non-small cell lung cancer (NSCLC) brain metastases treated with stereotactic radiosurgery (SRS). Adv Radiat Oncol. 2017 Nov 24;3(2):146-153. doi: 10.1016/j.adro.2017.11.003. eCollection 2018 Apr-Jun. PubMed PMID: 29904739; PubMed Central PMCID: PMC6000027.

112: Allen ML, Kulik T, Keyrouz SG, Dhar R. Posterior Reversible Encephalopathy Syndrome as a Complication of Induced Hypertension in Subarachnoid Hemorrhage: A Case-Control Study. Neurosurgery. 2019 Aug 1;85(2):223-230. doi: 10.1093/neuros/nyy240. PubMed PMID: 29889274.

113: Greenberg JK, Yan Y, Carpenter CR, Lumba-Brown A, Keller MS, Pineda JA, Brownson RC, Limbrick DD. Development of the CIDSS(2) Score for Children with Mild Head Trauma without Intracranial Injury. J Neurotrauma. 2018 Nov 15;35(22):2699-2707. doi: 10.1089/neu.2017.5324. Epub 2018 Aug 29. PubMed PMID: 29882466; PubMed Central PMCID: PMC6238605.

114: Chicoine MR. In Reply: The in Vivo Antitumoral Effects of Lipopolysaccharide Against Glioblastoma are Mediated in Part by Toll-like Receptor 4. Neurosurgery. 2018 Sep 1;83(3):E130. doi: 10.1093/neuros/nyy251. PubMed PMID: 29878246.

115: Corder G, Castro DC, Bruchas MR, Scherrer G. Endogenous and Exogenous Opioids in Pain. Annu Rev Neurosci. 2018 Jul 8;41:453-473. doi: 10.1146/annurev-neuro-080317-061522. Epub 2018 May 31. Review. PubMed PMID: 29852083; PubMed Central PMCID: PMC6428583.

116: Lindgren A, Turner EB, Sillekens T, Meretoja A, Lee JM, Hemmen TM, Koivisto T, Alberts M,

- Lemmens R, Jääskeläinen JE, Vergouwen MDI, Rinkel GJE; Stroke GOAL Group, Dr Foster Global Comparators Project, Dr Foster Ltd; Dr Foster Unit at Imperial College London. Outcome After Clipping and Coiling for Aneurysmal Subarachnoid Hemorrhage in Clinical Practice in Europe, USA, and Australia. *Neurosurgery*. 2019 May 1;84(5):1019-1027. doi: 10.1093/neuros/nyy223. PubMed PMID: 29846713.
- 117: Shah AS, Nicoletti LK, Kurtovic E, Tsien CI, Benzinger TLS, Chicoine MR. Progression of Low-Grade Glioma During Pregnancy With Subsequent Regression Postpartum Without Treatment-A Case Report. *Neurosurgery*. 2019 Jun 1;84(6):E430-E436. doi: 10.1093/neuros/nyy191. PubMed PMID: 29788426.
- 118: Rennert RC, Khan U, Tatter SB, Field M, Toyota B, Fecci PE, Judy K, Mohammadi AM, Landazuri P, Sloan A, Leuthardt E, Chen CC. Patterns of Clinical Use of Stereotactic Laser Ablation: Analysis of a Multicenter Prospective Registry. *World Neurosurg*. 2018 Aug;116:e566-e570. doi: 10.1016/j.wneu.2018.05.039. Epub 2018 May 14. PubMed PMID: 29772367.
- 119: Mattei TA, Ordookhanian C, Kaloostian PE. "Dear Anesthesiologist, Please Don't Abandon Us": Excessive Anesthesia Handovers and Adverse Perioperative Outcomes in Neurosurgery. *World Neurosurg*. 2018 Jul;115:254-256. doi: 10.1016/j.wneu.2018.05.029. Epub 2018 May 19. Review. PubMed PMID: 29772360.
- 120: Simon TD, Kronman MP, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni AV, Langley M, Limbrick DD, Luerssen TG, Oakes J, Riva-Cambrin J, Rozzelle C, Shannon CN, Tamber M, Wellons Iii JC, Whitehead WE, Mayer-Hamblett N; Hydrocephalus Clinical Research Network. Patient and Treatment Characteristics by Infecting Organism in Cerebrospinal Fluid Shunt Infection. *J Pediatric Infect Dis Soc*. 2019 Jul 1;8(3):235-243. doi: 10.1093/jpids/piy035. PubMed PMID: 29771360; PubMed Central PMCID: PMC6601384.
- 121: Sauerbeck AD, Fanizzi C, Kim JH, Gangolli M, Bayly PV, Wellington CL, Brody DL, Kummer TT. modCHIMERA: a novel murine closed-head model of moderate traumatic brain injury. *Sci Rep*. 2018 May 16;8(1):7677. doi: 10.1038/s41598-018-25737-6. PubMed PMID: 29769541; PubMed Central PMCID: PMC5955903.
- 122: Ailon T, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Kim HJ, Gum J, Hostin R, Kelly MP, Glassman S, Scheer JK, Bess S, Ames CP; International Spine Study Group. Patients with Adult Spinal Deformity with Previous Fusions Have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-Related Quality of Life Measures but Do Not Reach the Same Absolute Level of Improvement. *World Neurosurg*. 2018 Aug;116:e354-e361. doi: 10.1016/j.wneu.2018.04.204. Epub 2018 May 9. PubMed PMID: 29751181.
- 123: Peterson EC, Patel KB, Skolnick GB, Pfeifauf KD, Davidson KN, Smyth MD, Naidoo SD. Assessing calvarial vault constriction associated with helmet therapy in deformational plagiocephaly. *J Neurosurg Pediatr*. 2018 Aug;22(2):113-119. doi: 10.3171/2018.2.PEDS17634. Epub 2018 May 11. PubMed PMID: 29749885.
- 124: Ostrom QT, Kinnersley B, Wrensch MR, Eckel-Passow JE, Armstrong G, Rice T, Chen Y, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Bernstein JL, Claus EB, Il'yasova D, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Rubin JB, Lathia JD, Berens ME, Andersson U, Rajaraman P, Chanock SJ, Linet MS, Wang Z, Yeager M; GliomaScan consortium, Houlston RS, Jenkins RB, Melin B, Bondy ML, Barnholtz-Sloan JS. Sex-specific glioma genome-wide association study identifies new risk locus at 3p21.31 in females, and finds sex-differences in risk at 8q24.21. *Sci Rep*. 2018 May 9;8(1):7352. doi: 10.1038/s41598-018-24580-z. PubMed PMID: 29743610; PubMed Central PMCID: PMC5943590.

- 125: Yee A, Coombs DM, Hildebrandt S, Seidelman WE, Coert JH, Mackinnon SE. Nerve Surgeons' Assessment of the Role of Eduard Pernkopf's Atlas of Topographic and Applied Human Anatomy in Surgical Practice. *Neurosurgery*. 2019 Feb 1;84(2):491-498. doi: 10.1093/neuros/nyy159. PubMed PMID: 29741720.
- 126: Depreitere B, Ricciardi F, Arts M, Balabaud L, Buchowski JM, Bonger C, Chung CK, Coppes MH, Fehlings MG, Kawahara N, Lee CS, Leung Y, Martin-Benlloch JA, Massicotte EM, Mazel C, Meyer B, Oner FC, Peul W, Quraishi N, Tokuhashi Y, Tomita K, Ulbricht C, Verlaan JJ, Wang M, Crockard HA, Choi D. Loss of Local Tumor Control After Index Surgery for Spinal Metastases: A Prospective Cohort Study. *World Neurosurg*. 2018 Sep;117:e8-e16. doi: 10.1016/j.wneu.2018.04.170. Epub 2018 May 3. PubMed PMID: 29729472.
- 127: Ahluwalia M, Barnett GH, Deng D, Tatter SB, Laxton AW, Mohammadi AM, Leuthardt E, Chamoun R, Judy K, Asher A, Essig M, Dietrich J, Chiang VL. Laser ablation after stereotactic radiosurgery: a multicenter prospective study in patients with metastatic brain tumors and radiation necrosis. *J Neurosurg*. 2018 May 4;130(3):804-811. doi: 10.3171/2017.11.JNS171273. PubMed PMID: 29726782.
- 128: Budohoski KP, Ngerageza JG, Austard B, Fuller A, Galler R, Haglund M, Lett R, Lieberman IH, Mangat HS, March K, Olouch-Olunya D, Piquer J, Qureshi M, Santos MM, Schöller K, Shabani HK, Trivedi RA, Young P, Zubkov MR, Härtl R, Stieg PE. Neurosurgery in East Africa: Innovations. *World Neurosurg*. 2018 May;113:436-452. doi: 10.1016/j.wneu.2018.01.085. Review. PubMed PMID: 29702967.
- 129: Daniels AH, Bess S, Line B, Eltorai AEM, Reid DBC, Lafage V, Akbarnia BA, Ames CP, Boachie-Adjei O, Burton DC, Deviren V, Kim HJ, Hart RA, Kebaish KM, Klineberg EO, Gupta M, Mundis GM Jr, Hostin RA Jr, O'Brien M, Schwab FJ, Shaffrey CI, Smith JS; International Spine Study Group Foundation. Peak Timing for Complications After Adult Spinal Deformity Surgery. *World Neurosurg*. 2018 Jul;115:e509-e515. doi: 10.1016/j.wneu.2018.04.084. Epub 2018 Apr 22. PubMed PMID: 29689393.
- 130: Goldstein HE, Neira JA, Banu M, Aldana PR, Braga BP, Brockmeyer DL, DiLuna ML, Fulkerson DH, Hankinson TC, Jea AH, Lew SM, Limbrick DD, Martin J, Pahys JM, Rodriguez LF, Rozzelle CJ, Tuite GF, Wetjen NM, Anderson RCE. Growth and alignment of the pediatric subaxial cervical spine following rigid instrumentation and fusion: a multicenter study of the Pediatric Craniocervical Society. *J Neurosurg Pediatr*. 2018 Jul;22(1):81-88. doi: 10.3171/2018.1.PEDS17551. Epub 2018 Apr 20. PubMed PMID: 29676682.
- 131: Malisch TW, Zaidat OO, Castonguay AC, Marden FA, Gupta R, Sun CJ, Martin CO, Holloway WE, Mueller-Kronast N, English J, Linfante I, Dabus G, Bozorgchami H, Xavier A, Rai AT, Froehler M, Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, Nogueira RG. Clinical and Angiographic Outcomes with the Combined Local Aspiration and Retriever in the North American Solitaire Stent-Retriever Acute Stroke (NASA) Registry. *Interv Neurol*. 2018 Feb;7(1-2):26-35. doi: 10.1159/000480353. Epub 2017 Oct 11. PubMed PMID: 29628942; PubMed Central PMCID: PMC5881148.
- 132: Chicoine MR. Low Subfrontal Dural Opening for Anterior Clinoid Meningioma. *J Neurol Surg B Skull Base*. 2018 Apr;79(Suppl 3):S273-S275. doi: 10.1055/s-0038-1624586. Epub 2018 Feb 8. PubMed PMID: 29588898; PubMed Central PMCID: PMC5868912.
- 133: Kim JW, Naidich TP, Joseph J, Nair D, Glasser MF, O'halloran R, Doucet GE, Lee WH, Krinsky H, Paulino A, Glahn DC, Anticevic A, Frangou S, Xu J. Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. *Hum Brain Mapp*. 2018 Jul;39(7):3058-3071. doi: 10.1002/hbm.24060. Epub 2018 Mar 26. PubMed PMID: 29582505; PubMed Central PMCID: PMC6033622.

- 134: Wright E, Ricciardi F, Arts M, Buchowski JM, Chung CK, Coppes M, Crockard A, Depreitere B, Fehlings M, Kawahara N, Lee CS, Leung Y, Martin-Benlloch A, Massicotte E, Mazel C, Oner C, Peul W, Quraishi N, Tokuhashi Y, Tomita K, Ulbricht C, Verlaan JJ, Wang M, Choi D. Metastatic Spine Tumor Epidemiology: Comparison of Trends in Surgery Across Two Decades and Three Continents. *World Neurosurg.* 2018 Jun;114:e809-e817. doi: 10.1016/j.wneu.2018.03.091. Epub 2018 Mar 20. PubMed PMID: 29572177.
- 135: Wallace AN, Kamran M, Madaelil TP, Kayan Y, Osbun JW, Roy AK, Almandoz JED, Moran CJ, Howard BM, Yasin J, Grossberg JA. Endovascular Treatment of Posterior Inferior Cerebellar Artery Aneurysms with Flow Diversion. *World Neurosurg.* 2018 Jun;114:e581-e587. doi: 10.1016/j.wneu.2018.03.036. Epub 2018 Mar 14. PubMed PMID: 29548957.
- 136: Wallace AN, Grossberg JA, Almandoz JED, Kamran M, Roy AK, Kayan Y, Austin MJ, Howard BM, Moran CJ, Cawley CM, Cross DT, Dion JE, Kansagra AP, Osbun JW. Endovascular Treatment of Posterior Cerebral Artery Aneurysms With Flow Diversion: Case Series and Systematic Review. *Neurosurgery.* 2018 Oct 1;83(4):790-799. doi: 10.1093/neuros/nyx561. PubMed PMID: 29528441.
- 137: Yang R, Duan C, Yuan L, Engelbach JA, Tsien CI, Beeman SC, Perez-Torres CJ, Ge X, Rich KM, Ackerman JJH, Garbow JR. Inhibitors of HIF-1 α and CXCR4 Mitigate the Development of Radiation Necrosis in Mouse Brain. *Int J Radiat Oncol Biol Phys.* 2018 Mar 15;100(4):1016-1025. doi: 10.1016/j.ijrobp.2017.12.257. Epub 2017 Dec 21. PubMed PMID: 29485043; PubMed Central PMCID: PMC6389273.
- 138: Villeneuve S, Vogel JW, Gonneaud J, Pichet Binette A, Rosa-Neto P, Gauthier S, Bateman RJ, Fagan AM, Morris JC, Benzinger TLS, Johnson SC, Breitner JCS, Poirier J; Presymptomatic Evaluation of Novel or Experimental Treatments for Alzheimer Disease (PREVENT-AD) Research Group. Proximity to Parental Symptom Onset and Amyloid- β Burden in Sporadic Alzheimer Disease. *JAMA Neurol.* 2018 May 1;75(5):608-619. doi: 10.1001/jamaneurol.2017.5135. PubMed PMID: 29482212; PubMed Central PMCID: PMC5885216.
- 139: Abdulrauf SI, Urquiaga JF, Patel R, Albers JA, Sampat VB, Baumer M, Marvin E, Pierson M, Kragel R, Walsh J. Awake Microvascular Decompression for Trigeminal Neuralgia: Concept and Initial Results. *World Neurosurg.* 2018 May;113:e309-e313. doi: 10.1016/j.wneu.2018.02.019. Epub 2018 Feb 13. Erratum in: *World Neurosurg.* 2019 Nov;131:80. PubMed PMID: 29452326.
- 140: Beaumont TL, Mohammadi AM, Kim AH, Barnett GH, Leuthardt EC. Magnetic Resonance Imaging-Guided Laser Interstitial Thermal Therapy for Glioblastoma of the Corpus Callosum. *Neurosurgery.* 2018 Sep 1;83(3):556-565. doi: 10.1093/neuros/nyx518. PubMed PMID: 29438526.
- 141: Woroniecka K, Chongsathidkiet P, Rhodin K, Kemeny H, Dechant C, Farber SH, Elsamadicy AA, Cui X, Koyama S, Jackson C, Hansen LJ, Johanns TM, Sanchez-Perez L, Chandramohan V, Yu YA, Bigner DD, Giles A, Healy P, Dranoff G, Weinhold KJ, Dunn GP, Fecci PE. T-Cell Exhaustion Signatures Vary with Tumor Type and Are Severe in Glioblastoma. *Clin Cancer Res.* 2018 Sep 1;24(17):4175-4186. doi: 10.1158/1078-0432.CCR-17-1846. Epub 2018 Feb 7. PubMed PMID: 29437767; PubMed Central PMCID: PMC6081269.
- 142: Masserano B, Woo AS, Skolnick GB, Naidoo SD, Proctor MR, Smyth MD, Patel KB. The Temporal Region in Unilateral Coronal Craniosynostosis: Fronto-orbital Advancement Versus Endoscopy-Assisted Strip Craniectomy. *Cleft Palate Craniofac J.* 2018 Mar;55(3):423-429. doi: 10.1177/1055665617739000. Epub 2017 Dec 14. PubMed PMID: 29437517; PubMed Central PMCID: PMC6937201.

- 143: MacEwan MR, Gamble P, Stephen M, Ray WZ. Therapeutic electrical stimulation of injured peripheral nerve tissue using implantable thin-film wireless nerve stimulators. *J Neurosurg*. 2018 Feb 9;1-10. doi: 10.3171/2017.8.JNS163020. [Epub ahead of print] PubMed PMID: 29424647.
- 144: Simon TD, Kronman MP, Whitlock KB, Gove NE, Mayer-Hamblett N, Browd SR, Cochrane DD, Holubkov R, Kulkarni AV, Langley M, Limbrick DD, Luerssen TG, Oakes WJ, Riva-Cambrin J, Rozzelle C, Shannon C, Tamber M, Wellons JC, Whitehead WE, Kestle JRW. Reinfection after treatment of first cerebrospinal fluid shunt infection: a prospective observational cohort study. *J Neurosurg Pediatr*. 2018 Apr;21(4):346-358. doi: 10.3171/2017.9.PEDS17112. Epub 2018 Feb 2. PubMed PMID: 29393813; PubMed Central PMCID: PMC5880734.
- 145: Wilson TJ, Kleiber GM, Nunley RM, Mackinnon SE, Spinner RJ. Distal peroneal nerve decompression after sciatic nerve injury secondary to total hip arthroplasty. *J Neurosurg*. 2018 Feb 2;130(1):179-183. doi: 10.3171/2017.8.JNS171260. PubMed PMID: 29393761.
- 146: Smith JS, Shaffrey CI, Kim HJ, Passias P, Protopsaltis T, Lafage R, Mundis GM Jr, Klineberg E, Lafage V, Schwab FJ, Scheer JK, Miller E, Kelly M, Hamilton DK, Gupta M, Deviren V, Hostin R, Albert T, Riew KD, Hart R, Burton D, Bess S, Ames CP; International Spine Study Group. Prospective Multicenter Assessment of All-Cause Mortality Following Surgery for Adult Cervical Deformity. *Neurosurgery*. 2018 Dec 1;83(6):1277-1285. doi: 10.1093/neuros/nyx605. PubMed PMID: 29351637.
- 147: El Tecle NE, Dahdaleh NS, Bydon M, Ray WZ, Torner JC, Hitchon PW. The natural history of complete spinal cord injury: a pooled analysis of 1162 patients and a meta-analysis of modern data. *J Neurosurg Spine*. 2018 Apr;28(4):436-443. doi: 10.3171/2017.7.SPINE17107. Epub 2018 Jan 19. PubMed PMID: 29350593.
- 148: Kung NH, Van Stavern GP, Gold DR. HINTS in the Acute Vestibular Syndrome: Pearls and Pitfalls. *J Neuroophthalmol*. 2018 Jun;38(2):244-250. doi: 10.1097/WNO.0000000000000608. PubMed PMID: 29319559.
- 149: Vellimana AK, Zhou ML, Singh I, Aum DJ, Nelson JW, Harris GR, Athiraman U, Han BH, Zipfel GJ. Minocycline protects against delayed cerebral ischemia after subarachnoid hemorrhage via matrix metalloproteinase-9 inhibition. *Ann Clin Transl Neurol*. 2017 Oct 30;4(12):865-876. doi: 10.1002/acn3.492. eCollection 2017 Dec. PubMed PMID: 29296615; PubMed Central PMCID: PMC5740245.
- 150: Ailon T, Smith JS, Shaffrey CI, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protopsaltis T, Neuman B, Daniels A, Scheer JK, Soroceanu A, Hart R, Hostin R, Burton D, Deviren V, Albert TJ, Riew KD, Bess S, Ames CP; International Spine Study Group. Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment With 1-Year Follow-up. *Neurosurgery*. 2018 Nov 1;83(5):1031-1039. doi: 10.1093/neuros/nyx574. PubMed PMID: 29281107.
- 151: Mahlokozera T, Vellimana AK, Li T, Mao DD, Zohny ZS, Kim DH, Tran DD, Marcus DS, Fouke SJ, Campian JL, Dunn GP, Miller CA, Kim AH. Biological and therapeutic implications of multisector sequencing in newly diagnosed glioblastoma. *Neuro Oncol*. 2018 Mar 27;20(4):472-483. doi: 10.1093/neuonc/nox232. PubMed PMID: 29244145; PubMed Central PMCID: PMC5909635.
- 152: Kulkarni AV, Riva-Cambrin J, Rozzelle CJ, Naftel RP, Alvey JS, Reeder RW, Holubkov R, Browd SR, Cochrane DD, Limbrick DD, Simon TD, Tamber M, Wellons JC, Whitehead WE, Kestle JRW. Endoscopic third ventriculostomy and choroid plexus cauterization in infant hydrocephalus: a prospective study by the Hydrocephalus Clinical Research Network. *J Neurosurg Pediatr*. 2018 Mar;21(3):214-223. doi:

10.3171/2017.8.PEDS17217. Epub 2017 Dec 15. PubMed PMID: 29243972.

153: Dacey RG, Flouty OE, Grady MS, Howard MA, Mayberg MR. Shunt scissors: technical note. *J Neurosurg*. 2018 Nov 1;129(5):1200-1202. doi: 10.3171/2017.6.JNS171108. PubMed PMID: 29219754.

154: Telleman JA, Grimm A, Goedee S, Visser LH, Zaidman CM. Nerve ultrasound in polyneuropathies. *Muscle Nerve*. 2018 May;57(5):716-728. doi: 10.1002/mus.26029. Epub 2018 Jan 23. PubMed PMID: 29205398.

155: Acharya S, Mahmood M, Mullen D, Yang D, Tsien CI, Huang J, Perkins SM, Rich K, Chicoine M, Leuthardt E, Dowling J, Dunn G, Keller J, Robinson CG, Abraham C. Distant intracranial failure in melanoma brain metastases treated with stereotactic radiosurgery in the era of immunotherapy and targeted agents. *Adv Radiat Oncol*. 2017 Aug 12;2(4):572-580. doi: 10.1016/j.adro.2017.07.003. eCollection 2017 Oct-Dec. PubMed PMID: 29204524; PubMed Central PMCID: PMC5707419.

156: Clarke CM, Fok VT, Gustafson JA, Smyth MD, Timms AE, Frazar CD, Smith JD, Birgfeld CB, Lee A, Ellenbogen RG, Gruss JS, Hopper RA, Cunningham ML. Single suture craniosynostosis: Identification of rare variants in genes associated with syndromic forms. *Am J Med Genet A*. 2018 Feb;176(2):290-300. doi: 10.1002/ajmg.a.38540. Epub 2017 Nov 23. Erratum in: *Am J Med Genet A*. 2018 Nov;176(11):2522. PubMed PMID: 29168297; PubMed Central PMCID: PMC5768450.

157: Vellimana AK, Washington CW, Yarbrough CK, Pilgram TK, Hoh BL, Derdeyn CP, Zipfel GJ. Thrombolysis is an Independent Risk Factor for Poor Outcome After Carotid Revascularization. *Neurosurgery*. 2018 Nov 1;83(5):922-930. doi: 10.1093/neuros/nyx551. PubMed PMID: 29136204; PubMed Central PMCID: PMC6454787.

158: Sanford R, Fellows LK, Ances BM, Collins DL. Association of Brain Structure Changes and Cognitive Function With Combination Antiretroviral Therapy in HIV-Positive Individuals. *JAMA Neurol*. 2018 Jan 1;75(1):72-79. doi: 10.1001/jamaneurol.2017.3036. PubMed PMID: 29131878; PubMed Central PMCID: PMC5833491.

159: Khalsa SSS, Geh N, Martin BA, Allen PA, Strahle J, Loth F, Habtzghi D, Urbizu Serrano A, McQuaide D, Garton HJL, Muraszko KM, Maher CO. Morphometric and volumetric comparison of 102 children with symptomatic and asymptomatic Chiari malformation Type I. *J Neurosurg Pediatr*. 2018 Jan;21(1):65-71. doi: 10.3171/2017.8.PEDS17345. Epub 2017 Nov 10. PubMed PMID: 29125445.

160: Washington CW, Taylor LI, Dambrino RJ, Clark PR, Zipfel GJ. Relationship between patient safety indicator events and comprehensive stroke center volume status in the treatment of unruptured cerebral aneurysms. *J Neurosurg*. 2018 Aug;129(2):471-479. doi: 10.3171/2017.5.JNS162778. Epub 2017 Oct 20. PubMed PMID: 29053070.

161: Passias PG, Horn SR, Jalai CM, Ramchandran S, Poorman GW, Kim HJ, Smith JS, Sciubba D, Soroceanu A, Ames CP, Hamilton DK, Eastlack R, Burton D, Gupta M, Bess S, Lafage V, Schwab F. Cervical Alignment Changes in Patients Developing Proximal Junctional Kyphosis Following Surgical Correction of Adult Spinal Deformity. *Neurosurgery*. 2018 Oct 1;83(4):675-682. doi: 10.1093/neuros/nyx479. PubMed PMID: 29040759.

162: Gupta S, Eksi MS, Ames CP, Deviren V, Durbin-Johnson B, Smith JS, Gupta MC. A Novel 4-Rod Technique Offers Potential to Reduce Rod Breakage and Pseudarthrosis in Pedicle Subtraction Osteotomies for Adult Spinal Deformity Correction. *Oper Neurosurg (Hagerstown)*. 2018 Apr 1;14(4):449-456. doi: 10.1093/ons/opx151. PubMed PMID: 28973658; PubMed Central PMCID: PMC6057497.

- 163: Sujijantararat N, Tecle NE, Pierson M, Urquiaga JF, Quadri NF, Ashour AM, Khan MQ, Buchanan P, Kumar A, Feen E, Coppens J. Trans-Sulcal Endoport-Assisted Evacuation of Supratentorial Intracerebral Hemorrhage: Initial Single-Institution Experience Compared to Matched Medically Managed Patients and Effect on 30-Day Mortality. *Oper Neurosurg (Hagerstown)*. 2018 May 1;14(5):524-531. doi: 10.1093/ons/oxp161. PubMed PMID: 28973545.
- 164: Diebo BG, Lafage V, Varghese JJ, Gupta M, Kim HJ, Ames C, Kebaish K, Shaffrey C, Hostin R, Obeid I, Burton D, Hart RA, Lafage R, Schwab FJ; International Spine Study Group (ISSG) of Denver, Colorado. After 9 Years of 3-Column Osteotomies, Are We Doing Better? Performance Curve Analysis of 573 Surgeries With 2-Year Follow-up. *Neurosurgery*. 2018 Jul 1;83(1):69-75. doi: 10.1093/neuros/nyx338. PubMed PMID: 28973410.
- 165: Rumalla K, Yarbrough CK, Pugely AJ, Dorward IG. Spinal Fusion for Pediatric Spondylolisthesis: National Trends, Complications, and Short-Term Outcomes. *Neurosurgery*. 2018 May 1;82(5):701-709. doi: 10.1093/neuros/nyx295. PubMed PMID: 28973290.
- 166: He S, McFayden TC, Shahsavarani BS, Teagle HFB, Ewend M, Henderson L, Buchman CA. The Electrically Evoked Auditory Change Complex Evoked by Temporal Gaps Using Cochlear Implants or Auditory Brainstem Implants in Children With Cochlear Nerve Deficiency. *Ear Hear*. 2018 May/Jun;39(3):482-494. doi: 10.1097/AUD.0000000000000498. PubMed PMID: 28968281; PubMed Central PMCID: PMC5876057.
- 167: Zaidat OO, Castonguay AC, Nogueira RG, Haussen DC, English JD, Satti SR, Chen J, Farid H, Borders C, Veznedaroglu E, Binning MJ, Puri A, Vora NA, Budzik RF, Dabus G, Linfante I, Janardhan V, Alshekhlee A, Abraham MG, Edgell R, Taqi MA, Khoury RE, Mokin M, Majjhoo AQ, Kabbani MR, Froehler MT, Finch I, Ansari SA, Novakovic R, Nguyen TN. TREVO stent-retriever mechanical thrombectomy for acute ischemic stroke secondary to large vessel occlusion registry. *J Neurointerv Surg*. 2018 Jun;10(6):516-524. doi: 10.1136/neurintsurg-2017-013328. Epub 2017 Sep 29. PubMed PMID: 28963367; PubMed Central PMCID: PMC5969387.
- 168: Roland JL, Griffin N, Hacker CD, Vellimana AK, Akbari SH, Shimony JS, Smyth MD, Leuthardt EC, Limbrick DD. Resting-state functional magnetic resonance imaging for surgical planning in pediatric patients: a preliminary experience. *J Neurosurg Pediatr*. 2017 Dec;20(6):583-590. doi: 10.3171/2017.6.PEDS1711. Epub 2017 Sep 29. PubMed PMID: 28960172; PubMed Central PMCID: PMC5952608.
- 169: Passias PG, Jalai CM, Lafage V, Lafage R, Protopsaltis T, Ramchandran S, Horn SR, Poorman GW, Gupta M, Hart RA, Deviren V, Soroceanu A, Smith JS, Schwab F, Shaffrey CI, Ames CP; International Spine Study Group (Littleton, Colorado). Primary Drivers of Adult Cervical Deformity: Prevalence, Variations in Presentation, and Effect of Surgical Treatment Strategies on Early Postoperative Alignment. *Neurosurgery*. 2018 Oct 1;83(4):651-659. doi: 10.1093/neuros/nyx438. PubMed PMID: 28950349.
- 170: Dibble CF, Ray WZ. In Reply: Cubital Tunnel Syndrome: Incidence and Demographics in a National Administrative Database. *Neurosurgery*. 2017 Nov 1;81(5):E63. doi: 10.1093/neuros/nyx410. PubMed PMID: 28945892.
- 171: Akbarian-Tefaghi H, Kalakoti P, Sun H, Sharma K, Thakur JD, Patra DP, Dossani RH, Savardekar A, Notarianni C, Zipfel GJ, Nanda A. Impact of Hospital Caseload and Elective Admission on Outcomes After Extracranial-Intracranial Bypass Surgery. *World Neurosurg*. 2017 Dec;108:716-728. doi: 10.1016/j.wneu.2017.09.082. Epub 2017 Sep 21. PubMed PMID: 28943420.

- 172: Kansagra AP, Meyers GC, Kruzich MS, Cross DT 3rd, Moran CJ. Wide Variability in Prethrombectomy Workflow Practices in the United States: A Multicenter Survey. *AJNR Am J Neuroradiol*. 2017 Dec;38(12):2238-2242. doi: 10.3174/ajnr.A5384. Epub 2017 Sep 21. PubMed PMID: 28935626.
- 173: Kim DH, Dacey RG, Zipfel GJ, Berger MS, McDermott M, Barbaro NM, Shapiro SA, Solomon RA, Harbaugh R, Day AL. In Reply: Neurosurgical Education in a Changing Healthcare and Regulatory Environment: A Consensus Statement From 6 Programs. *Neurosurgery*. 2017 Oct 1;81(4):E47. doi: 10.1093/neuros/nyx348. PubMed PMID: 28934443.
- 174: Pines AR, Alghoul MS, Hamade YJ, Sattur MG, Aoun RJN, Halasa TK, Krishna C, Zammar SG, El Tecle NE, El Ahmadi TY, Aoun SG, Byrne RW, Harrop JS, Ragel BT, Resnick DK, Lonser RR, Selden NR, Bendok BR. Assessment of the Interrater Reliability of the Congress of Neurological Surgeons Microanastomosis Assessment Scale. *Oper Neurosurg (Hagerstown)*. 2017 Feb 1;13(1):108-112. doi: 10.1227/NEU.0000000000001403. PubMed PMID: 28931262; PubMed Central PMCID: PMC6312083.
- 175: Johnson A, Severson E, Gay L, Vergilio JA, Elvin J, Suh J, Daniel S, Covert M, Frampton GM, Hsu S, Lesser GJ, Stogner-Underwood K, Mott RT, Rush SZ, Stanke JJ, Dahiya S, Sun J, Reddy P, Chalmers ZR, Erlich R, Chudnovsky Y, Fabrizio D, Schrock AB, Ali S, Miller V, Stephens PJ, Ross J, Crawford JR, Ramkissoon SH. Comprehensive Genomic Profiling of 282 Pediatric Low- and High-Grade Gliomas Reveals Genomic Drivers, Tumor Mutational Burden, and Hypermutation Signatures. *Oncologist*. 2017 Dec;22(12):1478-1490. doi: 10.1634/theoncologist.2017-0242. Epub 2017 Sep 14. PubMed PMID: 28912153; PubMed Central PMCID: PMC5728033.
- 176: Johanns TM, Bowman-Kirigin JA, Liu C, Dunn GP. Targeting Neoantigens in Glioblastoma: An Overview of Cancer Immunogenomics and Translational Implications. *Neurosurgery*. 2017 Sep 1;64(CN_suppl_1):165-176. doi: 10.1093/neuros/nyx321. PubMed PMID: 28899059; PubMed Central PMCID: PMC6287409.
- 177: Layer RT, Ulich TR, Coric D, Arnold PM, Guest JD, Heary RH, Hsieh PC, Jenkins AL, Kim KD, Lee KS, Masuoka LK, Neff KM, Ray WZ, Theodore N, Fehlings MG. New Clinical-Pathological Classification of Intraspinal Injury Following Traumatic Acute Complete Thoracic Spinal Cord Injury: Postdurotomy/Myelotomy Observations From the INSPIRE Trial. *Neurosurgery*. 2017 Sep 1;64(CN_suppl_1):105-109. doi: 10.1093/neuros/nyx204. PubMed PMID: 28899037.
- 178: Shine JM, Kucyi A, Foster BL, Bickel S, Wang D, Liu H, Poldrack RA, Hsieh LT, Hsiang JC, Parvizi J. Distinct Patterns of Temporal and Directional Connectivity among Intrinsic Networks in the Human Brain. *J Neurosci*. 2017 Oct 4;37(40):9667-9674. doi: 10.1523/JNEUROSCI.1574-17.2017. Epub 2017 Sep 11. PubMed PMID: 28893929; PubMed Central PMCID: PMC6596608.
- 179: Roth J, Ber R, Wisoff JH, Hidalgo ET, Limbrick DD, Berger DS, Thomale UW, Schulz M, Cinalli G, Santoro C, Constantini S. Endoscopic Third Ventriculostomy in Patients with Neurofibromatosis Type 1: A Multicenter International Experience. *World Neurosurg*. 2017 Nov;107:623-629. doi: 10.1016/j.wneu.2017.08.053. Epub 2017 Aug 24. PubMed PMID: 28842232.
- 180: Nguyen DC, Farber SJ, Skolnick GB, Naidoo SD, Smyth MD, Kane AA, Patel KB, Woo AS. One hundred consecutive endoscopic repairs of sagittal craniosynostosis: an evolution in care. *J Neurosurg Pediatr*. 2017 Nov;20(5):410-418. doi: 10.3171/2017.5.PEDS16674. Epub 2017 Aug 25. PubMed PMID: 28841109.
- 181: Morris C, Prudowsky ZD, Shetty V, Geller T, Elbabaa SK, Guzman M, AbdelBaki MS. Rosette-Forming Glioneuronal Tumor of the Fourth Ventricle in Children: Case Report and Literature Review.

World Neurosurg. 2017 Nov;107:1045.e9-1045.e16. doi: 10.1016/j.wneu.2017.07.150. Epub 2017 Aug 4. Review. PubMed PMID: 28826709.

182: Dabus G, Brinjikji W, Amar AP, Delgado Almandoz JE, Diaz OM, Jabbour P, Hanel R, Hui F, Kelly M, Layton KF, Miller JW, Levy EI, Moran CJ, Suh DC, Woo H, Sellar R, Hoh B, Evans A, Kallmes DF. Angiographic and clinical outcomes of balloon remodeling versus unassisted coil embolization in the ruptured aneurysm cohort of the GEL THE NEC study. J Neurointerv Surg. 2018 May;10(5):446-450. doi: 10.1136/neurintsurg-2017-013326. Epub 2017 Aug 18. PubMed PMID: 28821627.

183: Jain A, Hassanzadeh H, Puvanesarajah V, Klineberg EO, Sciubba DM, Kelly MP, Hamilton DK, Lafage V, Buckland AJ, Passias PG, Protosaltis TS, Lafage R, Smith JS, Shaffrey CI, Kebaish KM; International Spine Study Group. Incidence of perioperative medical complications and mortality among elderly patients undergoing surgery for spinal deformity: analysis of 3519 patients. J Neurosurg Spine. 2017 Nov;27(5):534-539. doi: 10.3171/2017.3.SPINE161011. Epub 2017 Aug 18. PubMed PMID: 28820363.

184: Chung SM, Custer PL. Patient Safety: Its History and Relevance to Neuro-Ophthalmology. J Neuroophthalmol. 2017 Sep;37(3):225-229. doi: 10.1097/WNO.0000000000000559. PubMed PMID: 28806313.

185: Fanizzi C, Sauerbeck AD, Gangolli M, Zipfel GJ, Brody DL, Kummer TT. Minimal Long-Term Neurobehavioral Impairments after Endovascular Perforation Subarachnoid Hemorrhage in Mice. Sci Rep. 2017 Aug 8;7(1):7569. doi: 10.1038/s41598-017-07701-y. PubMed PMID: 28790425; PubMed Central PMCID: PMC5548778.

186: Yasar S, Jusue-Torres I, Lu J, Robison J, Patel MA, Crain B, Carson KA, Hoffberger J, Batra S, Sankey E, Moghekar A, Rigamonti D. Alzheimer's disease pathology and shunt surgery outcome in normal pressure hydrocephalus. PLoS One. 2017 Aug 7;12(8):e0182288. doi: 10.1371/journal.pone.0182288. eCollection 2017. PubMed PMID: 28786990; PubMed Central PMCID: PMC5546572.

187: Miller BA, Salehi A, Limbrick DD Jr, Smyth MD. Applications of a robotic stereotactic arm for pediatric epilepsy and neurooncology surgery. J Neurosurg Pediatr. 2017 Oct;20(4):364-370. doi: 10.3171/2017.5.PEDS1782. Epub 2017 Aug 4. PubMed PMID: 28777037.

188: Rubenstein R, Chang B, Yue JK, Chiu A, Winkler EA, Puccio AM, Diaz-Arrastia R, Yuh EL, Mukherjee P, Valadka AB, Gordon WA, Okonkwo DO, Davies P, Agarwal S, Lin F, Sarkis G, Yadikar H, Yang Z, Manley GT, Wang KKW; the TRACK-TBI Investigators, Cooper SR, Dams-O'Connor K, Borrasso AJ, Inoue T, Maas AIR, Menon DK, Schnyer DM, Vassar MJ. Comparing Plasma Phospho Tau, Total Tau, and Phospho Tau-Total Tau Ratio as Acute and Chronic Traumatic Brain Injury Biomarkers. JAMA Neurol. 2017 Sep 1;74(9):1063-1072. doi: 10.1001/jamaneurol.2017.0655. PubMed PMID: 28738126; PubMed Central PMCID: PMC5710183.

189: Hamilton DK, Buza JA 3rd, Passias P, Jalai C, Kim HJ, Ailon T, Gupta M, Sciubba D, Jain A, Ames CP, Deviren V, Daniels A, Lafage V, Bess S, Klineberg E, Shaffrey CI, Smith JS, Hart R; International Spine Study Group. The Fate of Patients with Adult Spinal Deformity Incurring Rod Fracture After Thoracolumbar Fusion. World Neurosurg. 2017 Oct;106:905-911. doi: 10.1016/j.wneu.2017.07.061. Epub 2017 Jul 20. PubMed PMID: 28735127.

190: Mundschenk MB, Odom EB, Ghosh TD, Kleiber GM, Yee A, Patel KB, Mackinnon SE, Tenenbaum MM, Buck DW 2nd. Are Residents Prepared for Surgical Cases? Implications in Patient Safety and Education. J Surg Educ. 2018 Mar - Apr;75(2):403-408. doi: 10.1016/j.jsurg.2017.07.001. Epub 2017 Jul

18. PubMed PMID: 28733171.

191: Marvin E, Akhter AS, Coppens JR. Recurrent hemorrhage in hemangioblastoma involving the posterior fossa: Case report. *Surg Neurol Int.* 2017 Jun 21;8:122. doi: 10.4103/sni.sni_91_17. eCollection 2017. PubMed PMID: 28713626; PubMed Central PMCID: PMC5502298.

192: Sakalauskaite-Juodeikienė E, Eling P, Finger S. The reception of Gall's organology in early-nineteenth-century Vilnius. *J Hist Neurosci.* 2017 Oct-Dec;26(4):385-405. doi: 10.1080/0964704X.2017.1332561. Epub 2017 Jun 28. PubMed PMID: 28657462.

193: Tapson VF, Hazelton JP, Myers J, Robertson C, Gilani R, Dunn JA, Bukur M, Croce MA, Peick A, West S, Lottenberg L, Doucet J, Miller PR, Crookes B, Gandhi RR, Croft CA, Manasia A, Hoey BA, Lieberman H, Guillaumondegui OD, Novack V, Piazza G, Goldhaber SZ. Evaluation of a Device Combining an Inferior Vena Cava Filter and a Central Venous Catheter for Preventing Pulmonary Embolism Among Critically Ill Trauma Patients. *J Vasc Interv Radiol.* 2017 Sep;28(9):1248-1254. doi: 10.1016/j.jvir.2017.05.001. Epub 2017 Jun 20. PubMed PMID: 28642012.

194: Deiner S, Luo X, Lin HM, Sessler DI, Saager L, Sieber FE, Lee HB, Sano M; and the Dexlirium Writing Group, Jankowski C, Bergese SD, Candiotti K, Flaherty JH, Arora H, Shander A, Rock P. Intraoperative Infusion of Dexmedetomidine for Prevention of Postoperative Delirium and Cognitive Dysfunction in Elderly Patients Undergoing Major Elective Noncardiac Surgery: A Randomized Clinical Trial. *JAMA Surg.* 2017 Aug 16;152(8):e171505. doi: 10.1001/jamasurg.2017.1505. Epub 2017 Aug 16. PubMed PMID: 28593326; PubMed Central PMCID: PMC5831461.

195: Neuman BJ, Ailon T, Scheer JK, Klineberg E, Sciubba DM, Jain A, Zebala LP, Passias PG, Daniels AH, Burton DC, Protosaltis TS, Hamilton DK, Ames CP; International Spine Study Group. Development and Validation of a Novel Adult Spinal Deformity Surgical Invasiveness Score: Analysis of 464 Patients. *Neurosurgery.* 2018 Jun 1;82(6):847-853. doi: 10.1093/neuros/nyx303. PubMed PMID: 28586476.

196: Wallace AN, Hillen TJ, Friedman MV, Zohny ZS, Stephens BH, Greco SC, Talcott MR, Jennings JW. Percutaneous Spinal Ablation in a Sheep Model: Protective Capacity of an Intact Cortex, Correlation of Ablation Parameters with Ablation Zone Size, and Correlation of Postablation MRI and Pathologic Findings. *AJNR Am J Neuroradiol.* 2017 Aug;38(8):1653-1659. doi: 10.3174/ajnr.A5228. Epub 2017 Jun 1. PubMed PMID: 28572150.

197: Hussain S, Fiorella D, Mocco J, Arthur A, Linfante I, Zipfel G, Woo H, Frei D, Nogueira R, Albuquerque FC; Society of NeuroInterventional Surgery, the Cerebrovascular Section of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, and the Society of Vascular and Interventional Neurology. In defense of our patients. *J Neurointerv Surg.* 2017 Jun;9(6):525-526. doi: 10.1136/neurintsurg-2017-013148. PubMed PMID: 28559507.

198: Mei Y, Bi WL, Greenwald NF, Agar NY, Beroukhim R, Dunn GP, Dunn IF. Genomic profile of human meningioma cell lines. *PLoS One.* 2017 May 26;12(5):e0178322. doi: 10.1371/journal.pone.0178322. eCollection 2017. PubMed PMID: 28552950; PubMed Central PMCID: PMC5446134.

199: Roy AK, Howard BM, Haussen DC, Osbun JW, Halani SH, Skukalek SL, Tong F, Nogueira RG, Dion JE, Cawley CM, Grossberg JA. Reduced Efficacy of the Pipeline Embolization Device in the Treatment of Posterior Communicating Region Aneurysms with Fetal Posterior Cerebral Artery Configuration. *Neurosurgery.* 2018 May 1;82(5):695-700. doi: 10.1093/neuros/nyx293. PubMed PMID: 28541503.

200: Hankinson TC, Tuite GF, Moscoso DI, Robinson LC, Torner JC, Limbrick DD Jr, Park TS, Anderson RCE. Analysis and interrater reliability of pB-C2 using MRI and CT: data from the Park-Reeves Syringomyelia Research Consortium on behalf of the Pediatric Craniocervical Society. *J Neurosurg*

Pediatr. 2017 Aug;20(2):170-175. doi: 10.3171/2017.3.PEDS16604. Epub 2017 May 19. PubMed PMID: 28524792.

Khalifeh JM, Dibble CF, Dy CJ, Ray WZ. Cost-Effectiveness Analysis of [Combined Dual Motor Nerve Transfers](#) versus Alternative Surgical and Nonsurgical Management Strategies to Restore [Shoulder Function Following Upper Brachial Plexus Injury](#). Neurosurgery. 2018 Mar 14. doi: 10.1093/neuros/nyy015. [Epub ahead of print] PubMed PMID: 30371909.

2: Shah MN, Nguyen RD, Pao LP, Zhu L, CreveCoeur TS, Mitra A, Smyth MD. Role of resting state MRI temporal latency in refractory pediatric extratemporal epilepsy lateralization. J Magn Reson Imaging. 2018 Oct 22. doi: 10.1002/jmri.26320. [Epub ahead of print] PubMed PMID: 30350326.

3: Mattei TA. "Reinventing the wheel": reflections on a recurrent phenomenon in the history of neurosurgery. J Neurosurg. 2018 Sep 14:1-8. doi: 10.3171/2018.4.JNS18652. [Epub ahead of print] PubMed PMID: 30215567.

4: Duan C, Yang R, Yuan L, Engelbach JA, Tsien CI, Rich KM, Dahiya SM, Johanns TM, Ackerman JJH, Garbow JR. Late Effects of Radiation Prime the Brain Microenvironment for Accelerated Tumor Growth. Int J Radiat Oncol Biol Phys. 2018 Aug 29. pii: S0360-3016(18)33639-3. doi: 10.1016/j.ijrobp.2018.08.033. [Epub ahead of print] PubMed PMID: 30171879.

5: Zaidat OO, Castonguay AC, Gupta R, Sun CJ, Martin C, Holloway WE, Mueller-Kronast N, English JD, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, Issa MA, Nogueira RG. North American Solitaire Stent Retriever Acute Stroke registry: post-marketing revascularization and clinical outcome results. J Neurointerv Surg. 2018 Jul;10(Suppl 1):i45-i49. doi: 10.1136/neurintsurg-2013-010895.rep. PubMed PMID: 30037956.

6: Mattei TA. Practical Effects of Lowering the P Value in Neurosurgery: Restricting Evidence-Based Medicine to Big Business. World Neurosurg. 2018 Sep;117:460-462. doi: 10.1016/j.wneu.2018.07.112. Epub 2018 Jul 18. PubMed PMID: 30031185.

7: Mattei TA, Ordookhanian C, Kaloostian PE. "Dear Anesthesiologist, Please Don't Abandon Us": Excessive Anesthesia Handovers and Adverse Perioperative Outcomes in Neurosurgery. World Neurosurg. 2018 Jul;115:254-256. doi: 10.1016/j.wneu.2018.05.029. Epub 2018 May 19. Review. PubMed PMID: 29772360.

8: Ailon T, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Kim HJ, Gum J, Hostin R, Kelly MP, Glassman S, Scheer JK, Bess S, Ames CP; International Spine Study Group. Patients with Adult Spinal Deformity with Previous Fusions Have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-Related Quality of Life Measures but Do Not Reach the Same Absolute Level of Improvement. World Neurosurg. 2018 Aug;116:e354-e361. doi: 10.1016/j.wneu.2018.04.204. Epub 2018 May 9. PubMed PMID: 29751181.

9: Expert Panel on Neurologic Imaging; Kennedy TA, Corey AS, Policeni B, Agarwal V, Burns J, Harvey HB, Hoang J, Hunt CH, Juliano AF, Mack W, Moonis G, Murad GJA, Pannell JS, Parsons MS, Powers WJ, Schroeder JW, Setzen G, Whitehead MT, Bykowski J. ACR Appropriateness Criteria(®) Orbits Vision and Visual Loss. J Am Coll Radiol. 2018 May;15(5S):S116-S131. doi: 10.1016/j.jacr.2018.03.023. PubMed PMID: 29724415.

10: Malisch TW, Zaidat OO, Castonguay AC, Marden FA, Gupta R, Sun CJ, Martin CO, Holloway WE, Mueller-Kronast N, English J, Linfante I, Dabus G, Bozorgchami H, Xavier A, Rai AT, Froehler M,

Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, Nogueira RG. Clinical and Angiographic Outcomes with the Combined Local Aspiration and Retriever in the North American Solitaire Stent-Retriever Acute Stroke (NASA) Registry. *Interv Neurol*. 2018 Feb;7(1-2):26-35. doi: 10.1159/000480353. Epub 2017 Oct 11. PubMed PMID: 29628942; PubMed Central PMCID: PMC5881148.

11: Kim JW, Naidich TP, Joseph J, Nair D, Glasser MF, O'halloran R, Doucet GE, Lee WH, Krinsky H, Paulino A, Glahn DC, Anticevic A, Frangou S, Xu J. Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. *Hum Brain Mapp*. 2018 Jul;39(7):3058-3071. doi: 10.1002/hbm.24060. Epub 2018 Mar 26. PubMed PMID: 29582505; PubMed Central PMCID: PMC6033622.

12: Abdulrauf SI, Urquiaga JF, Patel R, Albers JA, Sampat VB, Baumer M, Marvin E, Pierson M, Kragel R, Walsh J. Awake Microvascular Decompression for Trigeminal Neuralgia: Concept and Initial Results. *World Neurosurg*. 2018 May;113:e309-e313. doi: 10.1016/j.wneu.2018.02.019. Epub 2018 Feb 13. PubMed PMID: 29452326.

13: Nguyen TK, Senan S, Bradley JD, Franks K, Giuliani M, Guckenberger M, Landis M, Loo BW Jr, Louie AV, Onishi H, Schmidt H, Timmerman R, Videtic GMM, Palma DA. Optimal imaging surveillance after stereotactic ablative radiation therapy for early-stage non-small cell lung cancer: Findings of an International Delphi Consensus Study. *Pract Radiat Oncol*. 2018 Mar - Apr;8(2):e71-e78. doi: 10.1016/j.prro.2017.10.008. Epub 2017 Dec 30. PubMed PMID: 29291965.

14: Hawasli AH, Rutlin J, Roland JL, Murphy RKJ, Song SK, Leuthardt EC, Shimony JS, Ray WZ. Spinal Cord Injury Disrupts Resting-State Networks in the Human Brain. *J Neurotrauma*. 2018 Mar 15;35(6):864-873. doi: 10.1089/neu.2017.5212. Epub 2018 Jan 11. PubMed PMID: 29179629; PubMed Central PMCID: PMC5863102.

15: Expert Panel on Neurologic Imaging:, Kessler MM, Moussa M, Bykowski J, Kirsch CFE, Aulino JM, Berger KL, Choudhri AF, Fife TD, Germano IM, Kendi AT, Kim JH, Luttrull MD, Nunez D Jr, Shah LM, Sharma A, Shetty VS, Symko SC, Cornelius RS. ACR Appropriateness Criteria(®) Tinnitus. *J Am Coll Radiol*. 2017 Nov;14(11S):S584-S591. doi: 10.1016/j.jacr.2017.08.052. PubMed PMID: 29101995.

16: Expert Panel on Neurologic Imaging:, Policeni B, Corey AS, Burns J, Conley DB, Crowley RW, Harvey HB, Hoang J, Hunt CH, Jagadeesan BD, Juliano AF, Kennedy TA, Moonis G, Pannell JS, Patel ND, Perlmutter JS, Rosenow JM, Schroeder JW, Whitehead MT, Cornelius RS. ACR Appropriateness Criteria(®) Cranial Neuropathy. *J Am Coll Radiol*. 2017 Nov;14(11S):S406-S420. doi: 10.1016/j.jacr.2017.08.035. PubMed PMID: 29101981.

17: Sujjantararat N, Tecle NE, Pierson M, Urquiaga JF, Quadri NF, Ashour AM, Khan MQ, Buchanan P, Kumar A, Feen E, Coppens J. Trans-Sulcal Endoport-Assisted Evacuation of Supratentorial Intracerebral Hemorrhage: Initial Single-Institution Experience Compared to Matched Medically Managed Patients and Effect on 30-Day Mortality. *Oper Neurosurg (Hagerstown)*. 2018 May 1;14(5):524-531. doi: 10.1093/ons/oxp161. PubMed PMID: 28973545.

18: Ludwig DR, Austin MJ, Wallace AN, Kamran M, Kansagra AP, Osbun JW, Cross DT, Moran CJ. Isolated Internal Carotid Artery Thrombus and Cerebral Infarction in a Patient with Necrotizing Pancreatitis: Case Report. *J Stroke Cerebrovasc Dis*. 2018 Jan;27(1):e1-e4. doi: 10.1016/j.jstrokecerebrovasdis.2017.08.012. Epub 2017 Oct 12. PubMed PMID: 28893576.

19: Sujjantararat N, Pierson MJ, Kemp J, Coppens JR. Staged Trapping of Traumatic Basilar Trunk Pseudoaneurysm: Case Report and Review of Literature. *World Neurosurg*. 2017

Dec;108:991.e7-991.e12. doi: 10.1016/j.wneu.2017.08.144. Epub 2017 Sep 1. Review. PubMed PMID: 28866061.

20: Chung SM, Custer PL. Patient Safety: Its History and Relevance to Neuro-Ophthalmology. *J Neuroophthalmol.* 2017 Sep;37(3):225-229. doi: 10.1097/WNO.0000000000000559. PubMed PMID: 28806313.

21: Hawasli AH, Khalifeh JM, Chatrath A, Yarbrough CK, Ray WZ. Minimally invasive transforaminal lumbar interbody fusion with expandable versus static interbody devices: radiographic assessment of sagittal segmental and pelvic parameters. *Neurosurg Focus.* 2017 Aug;43(2):E10. doi: 10.3171/2017.5.FOCUS17197. PubMed PMID: 28760032.

22: Marvin E, Akhter AS, Coppens JR. Recurrent hemorrhage in hemangioblastoma involving the posterior fossa: Case report. *Surg Neurol Int.* 2017 Jun 21;8:122. doi: 10.4103/sni.sni_91_17. eCollection 2017. PubMed PMID: 28713626; PubMed Central PMCID: PMC5502298.

23: Wertz A, Tillman BN, Brinkmeier JV, Glazer TA, Kroeker AD, Sullivan SE, McKean EL. Minimally Invasive Approach for Resection of Parameningeal Rhabdomyosarcoma. *J Neurol Surg B Skull Base.* 2017 Jun;78(3):210-214. doi: 10.1055/s-0036-1597279. Epub 2016 Dec 12. PubMed PMID: 28593107; PubMed Central PMCID: PMC5461162.

24: Hankinson TC, Tuite GF, Moscoso DI, Robinson LC, Torner JC, Limbrick DD Jr, Park TS, Anderson RCE. Analysis and interrater reliability of pB-C2 using MRI and CT: data from the Park-Reeves Syringomyelia Research Consortium on behalf of the Pediatric Craniocervical Society. *J Neurosurg Pediatr.* 2017 Aug;20(2):170-175. doi: 10.3171/2017.3.PEDS16604. Epub 2017 May 19. PubMed PMID: 28524792.

25: Expert Panel on Neurologic Imaging:, Salmela MB, Mortazavi S, Jagadeesan BD, Broderick DF, Burns J, Deshmukh TK, Harvey HB, Hoang J, Hunt CH, Kennedy TA, Khalessi AA, Mack W, Patel ND, Perlmutter JS, Policeni B, Schroeder JW, Setzen G, Whitehead MT, Cornelius RS, Corey AS. ACR Appropriateness Criteria(®) Cerebrovascular Disease. *J Am Coll Radiol.* 2017 May;14(5S):S34-S61. doi: 10.1016/j.jacr.2017.01.051. Review. PubMed PMID: 28473091.

26: Expert Panel on Neurologic Imaging:, Bykowski J, Aulino JM, Berger KL, Cassidy RC, Choudhri AF, Kendi AT, Kirsch CFE, Luttrull MD, Sharma A, Shetty VS, Than K, Winfree CJ, Cornelius RS. ACR Appropriateness Criteria(®) Plexopathy. *J Am Coll Radiol.* 2017 May;14(5S):S225-S233. doi: 10.1016/j.jacr.2017.02.002. Review. PubMed PMID: 28473078.

27: Dezena RA, Elbabaa SK, Resende LO. The Development of Better Neurosurgical Care Around the World. *World Neurosurg.* 2017 Aug;104:975-976. doi: 10.1016/j.wneu.2017.04.087. Epub 2017 Apr 21. PubMed PMID: 28435112.

28: Abdulrauf SI, Urquiaga JF, Patel R, Albers JA, Belkhair S, Dryden K, Prim M, Snyder D, Kang B, Mokhlis L, Akhter AS, Mackie LN, Alatar A, Erickson EA, Sujijantararat N, Shah J, Wecker T, Stevens G, Walsh J, Schweiger A, Buchanan P. Awake High-Flow Extracranial to Intracranial Bypass for Complex Cerebral Aneurysms: Institutional Clinical Trial Results. *World Neurosurg.* 2017 Sep;105:557-567. doi: 10.1016/j.wneu.2017.04.016. Epub 2017 Apr 14. PubMed PMID: 28416411.

29: Pierson MJ, Wehrmann D, Albers JA, El Tecle NE, Costa D, Elbabaa SK. Programmable shunt valve interactions with osseointegrated hearing devices. *J Neurosurg Pediatr.* 2017 Apr;19(4):384-390. doi: 10.3171/2016.11.PEDS16501. Epub 2017 Feb 10. PubMed PMID: 28186475.

30: Brinjikji W, Amar AP, Delgado Almandoz JE, Diaz O, Jabbour P, Hanel R, Hui F, Kelly M, Layton KD,

Miller JW, Levy E, Moran C, Suh DC, Woo H, Sellar R, Ho B, Evans A, Kallmes DF. GEL THE NEC: a prospective registry evaluating the safety, ease of use, and efficacy of the HydroSoft coil as a finishing device. *J Neurointerv Surg*. 2018 Jan;10(1):83-87. doi: 10.1136/neurintsurg-2016-012915. Epub 2017 Jan 30. PubMed PMID: 28138062.

31: Shireman TI, Wang K, Saver JL, Goyal M, Bonafé A, Diener HC, Levy EI, Pereira VM, Albers GW, Cognard C, Hacke W, Jansen O, Jovin TG, Mattle HP, Nogueira RG, Siddiqui AH, Yavagal DR, Devlin TG, Lopes DK, Reddy VK, du Mesnil de Rochemont R, Jahan R, Vilain KA, House J, Lee JM, Cohen DJ; SWIFT-PRIME Investigators. Cost-Effectiveness of Solitaire Stent Retriever Thrombectomy for Acute Ischemic Stroke: Results From the SWIFT-PRIME Trial (Solitaire With the Intention for Thrombectomy as Primary Endovascular Treatment for Acute Ischemic Stroke). *Stroke*. 2017 Feb;48(2):379-387. doi: 10.1161/STROKEAHA.116.014735. Epub 2016 Dec 27. PubMed PMID: 28028150; PubMed Central PMCID: PMC5461963.

32: Drazin D, Fennell VS, Gifford E, Lagman C, Atchaneeyasakul K, Edgell RC, Rayes M, Xavier A, Hussain MS, Gupta R, Kalia JS, Zaidat OO, Linfante I, Nogueira RG, Nguyen T, Oliveira-Filho J, Barros AD, Boulos A, Alexander MJ, Yavagal DR. Safety and outcomes of simultaneous vasospasm and endovascular aneurysm treatment (SVAT) in subarachnoid hemorrhage. *J Neurointerv Surg*. 2017 May;9(5):482-485. doi: 10.1136/neurintsurg-2016-012714. Epub 2016 Oct 27. Review. PubMed PMID: 27789791.

33: Nogueira RG, Zaidat OO, Castonguay AC, Haussen DC, Martin CO, Holloway WE, Mueller-Kronast N, English J, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Yoo AJ, Shaltoni H, Abou-Chebl A, Chen PR, Britz GW, Novakovic R, Nanda A, Kaushal R, Issa MA, Frankel MR, Gupta R. Rescue Thrombectomy in Large Vessel Occlusion Strokes Leads to Better Outcomes than Intravenous Thrombolysis Alone: A 'Real World' Applicability of the Recent Trials. *Interv Neurol*. 2016 Sep;5(3-4):101-110. Epub 2016 May 27. PubMed PMID: 27781037; PubMed Central PMCID: PMC5075836.

34: Weiner AA, Olsen J, Ma D, Dyk P, DeWees T, Myerson RJ, Parikh P. Stereotactic body radiotherapy for primary hepatic malignancies - Report of a phase I/II institutional study. *Radiother Oncol*. 2016 Oct;121(1):79-85. doi: 10.1016/j.radonc.2016.07.020. Epub 2016 Aug 23. PubMed PMID: 27566894; PubMed Central PMCID: PMC5543719.

35: Tamber MS, Nikas D, Beier A, Baird LC, Bauer DF, Durham S, Klimo P Jr, Lin AY, Mazzola C, McClung-Smith C, Mitchell L, Tyagi R, Flannery AM. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on the Role of Cranial Molding Orthosis (Helmet) Therapy for Patients With Positional Plagiocephaly. *Neurosurgery*. 2016 Nov;79(5):E632-E633. PubMed PMID: 27776089.

36: Baird LC, Klimo P Jr, Flannery AM, Bauer DF, Beier A, Durham S, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Mazzola C. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline for the Management of Patients With Positional Plagiocephaly: The Role of Physical Therapy. *Neurosurgery*. 2016 Nov;79(5):E630-E631. Review. PubMed PMID: 27776088.

37: Klimo P Jr, Lingo PR, Baird LC, Bauer DF, Beier A, Durham S, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Mazzola C, Flannery AM. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on the Management of Patients With Positional Plagiocephaly: The Role of Repositioning. *Neurosurgery*. 2016 Nov;79(5):E627-E629. Review. PubMed PMID: 27776087.

38: Mazzola C, Baird LC, Bauer DF, Beier A, Durham S, Klimo P Jr, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Flannery AM. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline for the Diagnosis of Patients With Positional Plagiocephaly: The Role of Imaging. *Neurosurgery*. 2016 Nov;79(5):E625-E626. Review. PubMed PMID: 27776086.

39: Abdulrauf SI, Vuong P, Patel R, Sampath R, Ashour AM, Germany LM, Lebovitz J, Brunson C, Nijjar Y, Dryden JK, Khan MQ, Stefan MG, Wiley E, Cleary RT, Reis C, Walsh J, Buchanan P. "Awake" clipping of cerebral aneurysms: report of initial series. *J Neurosurg*. 2017 Aug;127(2):311-318. doi: 10.3171/2015.12.JNS152140. Epub 2016 Oct 21. PubMed PMID: 27767401.

40: Tamber MS, Nikas D, Beier A, Baird LC, Bauer DF, Durham S, Klimo P Jr, Lin AY, Mazzola C, McClung-Smith C, Mitchell L, Tyagi R, Flannery AM. Guidelines: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on the Role of Cranial Molding Orthosis (Helmet) Therapy for Patients With Positional Plagiocephaly. *Neurosurgery*. 2016 Nov;79(5):E632-E633. PubMed PMID: 27759675.

41: Baird LC, Klimo P Jr, Flannery AM, Bauer DF, Beier A, Durham S, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Mazzola C. Guidelines: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline for the Management of Patients With Positional Plagiocephaly: The Role of Physical Therapy. *Neurosurgery*. 2016 Nov;79(5):E630-E631. PubMed PMID: 27759674.

42: Klimo P Jr, Lingo PR, Baird LC, Bauer DF, Beier A, Durham S, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Mazzola C, Flannery AM. Guidelines: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on the Management of Patients With Positional Plagiocephaly: The Role of Repositioning. *Neurosurgery*. 2016 Nov;79(5):E627-E629. PubMed PMID: 27759673.

43: Mazzola C, Baird LC, Bauer DF, Beier A, Durham S, Klimo P Jr, Lin AY, McClung-Smith C, Mitchell L, Nikas D, Tamber MS, Tyagi R, Flannery AM. Guidelines: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline for the Diagnosis of Patients With Positional Plagiocephaly: The Role of Imaging. *Neurosurgery*. 2016 Nov;79(5):E625-E626. PubMed PMID: 27759672.

44: Flannery AM, Tamber MS, Mazzola C, Klimo P Jr, Baird LC, Tyagi R, Bauer DF, Beier A, Durham S, Lin AY, McClung-Smith C, Mitchell L, Nikas D. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for the Management of Patients With Positional Plagiocephaly: Executive Summary. *Neurosurgery*. 2016 Nov;79(5):623-624. Review. PubMed PMID: 27759671.

45: Stephens BH, Wright NM. Reconstruction of the C-1 lateral mass with a titanium expandable cage after resection of eosinophilic granuloma in an adult patient. *J Neurosurg Spine*. 2017 Feb;26(2):252-256. doi: 10.3171/2016.8.SPINE15523. Epub 2016 Oct 7. PubMed PMID: 27716017.

46: Pierson M, Marwaha N, Guzman M, Mikulec AA, Coppens JR. Multifocal melanocytoma of the posterior fossa and subcutaneous scalp in the absence of neurocutaneous melanosis. *Surg Neurol Int*. 2016 Sep 1;7(Suppl 23):S591-5. doi: 10.4103/2152-7806.189728. eCollection 2016. PubMed PMID: 27656317; PubMed Central PMCID: PMC5025953.

47: Sarraj A, Sangha N, Hussain MS, Wisco D, Vora N, Eljovich L, Goyal N, Abraham M, Mittal M, Feng L, Wu A, Janardhan V, Nalluri S, Yoo AJ, George M, Edgell R, Shah RJ, Sitton C, Supsupin E, Bajgur S, Denny MC, Chen PR, Dannenbaum M, Martin-Schild S, Savitz SI, Gupta R. Endovascular Therapy for Acute Ischemic Stroke With Occlusion of the Middle Cerebral Artery M2 Segment. *JAMA Neurol*. 2016 Nov 1;73(11):1291-1296. doi: 10.1001/jamaneurol.2016.2773. PubMed PMID: 27617425.

48: Gagliardi F, Donofrio CA, Spina A, Bailo M, Gragnaniello C, Gallotti AL, Elbabaa SK, Caputy AJ,

Mortini P. Endoscope-Assisted Transmaxillophenoidal Approach to the Sellar and Parasellar Regions: An Anatomic Study. *World Neurosurg.* 2016 Nov;95:246-252. doi: 10.1016/j.wneu.2016.08.034. Epub 2016 Aug 18. PubMed PMID: 27546341.

49: Kansagra AP, McEachern JD, Madaelil TP, Wallace AN, Cross DT 3rd, Moran CJ, Derdeyn CP. Intra-arterial versus intravenous abciximab therapy for thromboembolic complications of neuroendovascular procedures: case review and meta-analysis. *J Neurointerv Surg.* 2017 Feb;9(2):131-136. doi: 10.1136/neurintsurg-2016-012587. Epub 2016 Aug 18. PubMed PMID: 27540089.

50: Oshima Y, Kelly MP, Song KS, Park MS, Chuntarapas T, Vo KD, Yeom JS, Takeshita K, Riew KD. Spinolaminar Line Test as a Screening Tool for C1 Stenosis. *Global Spine J.* 2016 Jun;6(4):370-4. doi: 10.1055/s-0035-1564418. Epub 2015 Sep 14. PubMed PMID: 27190740; PubMed Central PMCID: PMC4868590.

51: Prabhakaran S, Castonguay AC, Gupta R, Sun CJ, Martin CO, Holloway W, Mueller-Kronast NH, English J, Linfante I, Dabus G, Malisch T, Marden F, Bozorgchami H, Xavier A, Rai A, Froehler M, Badruddin A, Taqi MA, Novakovic R, Abraham M, Janardhan V, Shaltoni H, Yoo AJ, Abou-Chebl A, Chen P, Britz G, Kaushal R, Nanda A, Nogueira R, Nguyen T, Zaidat OO. Complete reperfusion mitigates influence of treatment time on outcomes after acute stroke. *J Neurointerv Surg.* 2017 Apr;9(4):366-369. doi: 10.1136/neurintsurg-2016-012288. Epub 2016 Apr 12. PubMed PMID: 27073195.

52: Bouhlef A, Alyami W, Li A, Yuan L, Rich K, McConathy J. Effect of α -Methyl versus α -Hydrogen Substitution on Brain Availability and Tumor Imaging Properties of Heptanoic [F-18]Fluoroalkyl Amino Acids for Positron Emission Tomography (PET). *J Med Chem.* 2016 Apr 14;59(7):3515-31. doi: 10.1021/acs.jmedchem.6b00189. Epub 2016 Mar 23. PubMed PMID: 26967318; PubMed Central PMCID: PMC4957663.

53: Mahon SM, Varty MM. Importance of First Impressions for Potential Nursing Student Applicants With Disabilities. *Nurse Educ.* 2016 May-Jun;41(3):111. doi: 10.1097/NNE.0000000000000253. PubMed PMID: 26945138.

54: Appelbaum NP, Dow A, Mazmanian PE, Jundt DK, Appelbaum EN. The effects of power, leadership and psychological safety on resident event reporting. *Med Educ.* 2016 Mar;50(3):343-50. doi: 10.1111/medu.12947. PubMed PMID: 26896019.

55: Ziegler A, Walker R, Varvares M. Oncologic Outcomes of Invasive Squamous Cell Carcinoma of the Scalp Requiring Resection of Cranial Bone. *J Neurol Surg A Cent Eur Neurosurg.* 2016 Jul;77(4):308-11. doi: 10.1055/s-0035-1567859. Epub 2016 Jan 25. PubMed PMID: 26807618.

56: Falavigna A, Scheverin N, Righesso O, Teles AR, Gullo MC, Cheng JS, Riew KD. Economic value of treating lumbar disc herniation in Brazil. *J Neurosurg Spine.* 2016 Apr;24(4):608-14. doi: 10.3171/2015.7.SPINE15441. Epub 2015 Dec 11. PubMed PMID: 26654336.

57: Elbabaa SK. Ventricular Neuroendoscopic Surgery: Lessons Learned from the Literature. *World Neurosurg.* 2016 Apr;88:646-8. doi: 10.1016/j.wneu.2015.11.019. Epub 2015 Nov 19. PubMed PMID: 26608384.

58: Roach MC, Rehman S, DeWees TA, Abraham CD, Bradley JD, Robinson CG. It's never too late: Smoking cessation after stereotactic body radiation therapy for non-small cell lung carcinoma improves overall survival. *Pract Radiat Oncol.* 2016 Jan-Feb;6(1):12-8. doi: 10.1016/j.prro.2015.09.005. Epub 2015 Sep 18. PubMed PMID: 26598909; PubMed Central PMCID:

PMC4715731.

59: Pierson M, Birinyi PV, Bhimireddy S, Coppens JR. Analysis of Decompressive Craniectomies with Subsequent Cranioplasties in the Presence of Collagen Matrix Dural Substitute and Polytetrafluoroethylene as an Adhesion Preventative Material. *World Neurosurg*. 2016 Feb;86:153-60. doi: 10.1016/j.wneu.2015.09.078. Epub 2015 Dec 22. PubMed PMID: 26433096.

60: Kelly MP, Zebala LP, Kim HJ, Sciubba DM, Smith JS, Shaffrey CI, Bess S, Klineberg E, Mundis G Jr, Burton D, Hart R, Soroceanu A, Schwab F, Lafage V; International Spine Study Group. Effectiveness of preoperative autologous blood donation for protection against allogeneic blood exposure in adult spinal deformity surgeries: a propensity-matched cohort analysis. *J Neurosurg Spine*. 2016 Jan;24(1):124-30. doi: 10.3171/2015.4.SPINE141329. Epub 2015 Sep 25. PubMed PMID: 26407086; PubMed Central PMCID: PMC4701383.

61: Patil VV, Guzman M, Carter AN, Rathore G, Yoshor D, Curry D, Wilfong A, Agadi S, Swann JW, Adesina AM, Bhattacharjee MB, Anderson AE. Activation of extracellular regulated kinase and mechanistic target of rapamycin pathway in focal cortical dysplasia. *Neuropathology*. 2016 Apr;36(2):146-56. doi: 10.1111/neup.12242. Epub 2015 Sep 18. PubMed PMID: 26381727; PubMed Central PMCID: PMC5458727.

62: Ailon T, Shaffrey CI, Lenke LG, Harrop JS, Smith JS. Progressive Spinal Kyphosis in the Aging Population. *Neurosurgery*. 2015 Oct;77 Suppl 4:S164-72. doi: 10.1227/NEU.0000000000000944. Review. PubMed PMID: 26378354.

63: Wallace AN, Robinson CG, Meyer J, Tran ND, Gangi A, Callstrom MR, Chao ST, Van Tine BA, Morris JM, Bruel BM, Long J, Timmerman RD, Buchowski JM, Jennings JW. The Metastatic Spine Disease Multidisciplinary Working Group Algorithms. *Oncologist*. 2015 Oct;20(10):1205-15. doi: 10.1634/theoncologist.2015-0085. Epub 2015 Sep 9. PubMed PMID: 26354526; PubMed Central PMCID: PMC4591956.

64: Washington CW, Derdeyn CP, Dhar R, Arias EJ, Chicoine MR, Cross DT, Dacey RG Jr, Han BH, Moran CJ, Rich KM, Vellimana AK, Zipfel GJ. A Phase I proof-of-concept and safety trial of sildenafil to treat cerebral vasospasm following subarachnoid hemorrhage. *J Neurosurg*. 2016 Feb;124(2):318-27. doi: 10.3171/2015.2.JNS142752. Epub 2015 Aug 28. PubMed PMID: 26314998.

65: Roach MC, Videtic GMM, Bradley JD; IASLC Advanced Radiation Technology Committee. Treatment of Peripheral Non-Small Cell Lung Carcinoma with Stereotactic Body Radiation Therapy. *J Thorac Oncol*. 2015 Sep;10(9):1261-1267. doi: 10.1097/JTO.0000000000000610. Review. PubMed PMID: 26291009.

66: Michael AP, Stout J, Roskos PT, Bolzenius J, Gfeller J, Mogul D, Bucholz R. Evaluation of Cortical Thickness after Traumatic Brain Injury in Military Veterans. *J Neurotrauma*. 2015 Nov 15;32(22):1751-8. doi: 10.1089/neu.2015.3918. Epub 2015 Sep 25. PubMed PMID: 26131617.

67: Kummer TT, Magnoni S, MacDonald CL, Dikranian K, Milner E, Sorrell J, Conte V, Benetatos JJ, Zipfel GJ, Brody DL. Experimental subarachnoid haemorrhage results in multifocal axonal injury. *Brain*. 2015 Sep;138(Pt 9):2608-18. doi: 10.1093/brain/awv180. Epub 2015 Jun 26. PubMed PMID: 26115676; PubMed Central PMCID: PMC4564022.

68: Medina RG, Dempsher DP, Gauvain KM, Geller TJ, Elbabaa SK. Resolution of precocious puberty following resection of fourth ventricular medulloblastoma: case report. *J Neurosurg Pediatr*. 2015 Sep;16(3):287-90. doi: 10.3171/2015.1.PEDS14358. Epub 2015 May 22. PubMed PMID: 26053334.

69: Nikas DC, Post AF, Choudhri AF, Mazzola CA, Mitchell L, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 10: Change in ventricle size as a measurement of effective treatment of hydrocephalus. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:77-81. doi: 10.3171/2014.7.PEDS14330. Review. PubMed PMID: 25988786.

70: Kemp J, Flannery AM, Tamber MS, Duhaime AC; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 9: Effect of ventricular catheter entry point and position. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:72-6. doi: 10.3171/2014.7.PEDS14329. Review. PubMed PMID: 25988785.

71: Tamber MS, Klimo P Jr, Mazzola CA, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 8: Management of cerebrospinal fluid shunt infection. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:60-71. doi: 10.3171/2014.7.PEDS14328. Review. PubMed PMID: 25988784.

72: Klimo P Jr, Thompson CJ, Baird LC, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 7: Antibiotic-impregnated shunt systems versus conventional shunts in children: a systematic review and meta-analysis. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:53-9. doi: 10.3171/2014.7.PEDS14327. Review. PubMed PMID: 25988783.

73: Klimo P Jr, Van Poppel M, Thompson CJ, Baird LC, Duhaime AC, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 6: Preoperative antibiotics for shunt surgery in children with hydrocephalus: a systematic review and meta-analysis. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:44-52. doi: 10.3171/2014.7.PEDS14326. Review. Erratum in: *J Neurosurg Pediatr.* 2015 Aug;16(2):237-9. PubMed PMID: 25988782.

74: Baird LC, Mazzola CA, Auguste KI, Klimo P Jr, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 5: Effect of valve type on cerebrospinal fluid shunt efficacy. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:35-43. doi: 10.3171/2014.7.PEDS14325. Review. PubMed PMID: 25988781.

75: Limbrick DD Jr, Baird LC, Klimo P Jr, Riva-Cambrin J, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 4: Cerebrospinal fluid shunt or endoscopic third ventriculostomy for the treatment of hydrocephalus in children. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:30-4. doi: 10.3171/2014.7.PEDS14324. Review. PubMed PMID: 25988780.

76: Flannery AM, Duhaime AC, Tamber MS, Kemp J; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 3: Endoscopic computer-assisted electromagnetic navigation and ultrasonography as technical adjuvants for shunt placement. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:24-9. doi: 10.3171/2014.7.PEDS14323. Review. PubMed PMID: 25988779.

77: Mazzola CA, Choudhri AF, Auguste KI, Limbrick DD Jr, Rogido M, Mitchell L, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 2: Management of

posthemorrhagic hydrocephalus in premature infants. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:8-23. doi: 10.3171/2014.7.PEDS14322. Review. PubMed PMID: 25988778.

78: Flannery AM, Mazzola CA, Klimo P Jr, Duhaime AC, Baird LC, Tamber MS, Limbrick DD Jr, Nikas DC, Kemp J, Post AF, Auguste KI, Choudhri AF, Mitchell LS, Buffa D. Foreword: Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:1-2. doi: 10.3171/2014.8.PEDS14426. PubMed PMID: 25988776.

79: Ganti L, Conroy LM, Bodhit A, Daneshvar Y, Patel PS, Ayala S, Kuchibhotla S, Hatchitt K, Pulvino C, Peters KR, Lottenberg LL. Understanding Why Patients Return to the Emergency Department after Mild Traumatic Brain Injury within 72 Hours. *West J Emerg Med.* 2015 May;16(3):481-5. doi: 10.5811/westjem.2015.2.23546. Epub 2015 Apr 2. PubMed PMID: 25987933; PubMed Central PMCID: PMC4427230.

80: Sneed PK, Mendez J, Vemer-van den Hoek JG, Seymour ZA, Ma L, Molinaro AM, Fogh SE, Nakamura JL, McDermott MW. Adverse radiation effect after stereotactic radiosurgery for brain metastases: incidence, time course, and risk factors. *J Neurosurg.* 2015 Aug;123(2):373-86. doi: 10.3171/2014.10.JNS141610. Epub 2015 May 15. PubMed PMID: 25978710.

81: Smyth MD, Han RH, Yarbrough CK, Patterson EE, Yang XF, Miller JW, Rothman SM, D'Ambrosio R. Temperatures achieved in human and canine neocortex during intraoperative passive or active focal cooling. *Ther Hypothermia Temp Manag.* 2015 Jun;5(2):95-103. doi: 10.1089/ther.2014.0025. Epub 2015 Apr 22. PubMed PMID: 25902001; PubMed Central PMCID: PMC4490666.

82: Su Y, Blazey TM, Snyder AZ, Raichle ME, Hornbeck RC, Aldea P, Morris JC, Benzinger TL. Quantitative amyloid imaging using image-derived arterial input function. *PLoS One.* 2015 Apr 7;10(4):e0122920. doi: 10.1371/journal.pone.0122920. eCollection 2015. PubMed PMID: 25849581; PubMed Central PMCID: PMC4388540.

83: Bouhlef A, Zhou D, Li A, Yuan L, Rich KM, McConathy J. Synthesis, Radiolabeling, and Biological Evaluation of (R)- and (S)-2-Amino-5-[(18F)fluoro-2-methylpentanoic Acid ¹).

¹)

R)-, (S)-[(18F)FAMPe) as Potential Positron Emission Tomography Tracers for Brain Tumors. *J Med Chem.* 2015 May 14;58(9):3817-29. doi: 10.1021/jm502023y. Epub 2015 May 4. PubMed PMID: 25843369; PubMed Central PMCID: PMC4476065. 84: Abdulrauf SI. Awake craniotomies for aneurysms, arteriovenous malformations, skull base tumors, high flow bypass, and brain stem lesions. *J Craniovertebr Junction Spine.* 2015 Jan-Mar;6(1):8-9. doi: 10.4103/0974-8237.151580. PubMed PMID: 25788813; PubMed Central PMCID: PMC4361840. 85: Sun SQ, Cai C, Ravindra VM, Gamble P, Yarbrough CK, Dacey RG, Dowling JL, Zipfel GJ, Wright NM, Santiago P, Robinson CG, Schmidt MH, Kim AH, Ray WZ. Simpson Grade I-III Resection of Spinal Atypical (World Health Organization Grade II) Meningiomas is Associated With Symptom Resolution and Low Recurrence. *Neurosurgery.* 2015 Jun;76(6):739-46. doi: 10.1227/NEU.0000000000000720. PubMed PMID: 25774702. 86: Washington CW, Derdeyn CP, Chicoine MR, Cross DT, Dacey RG, Moran CJ, Rich KM, Zipfel GJ. Comparing routine versus selective use of intraoperative cerebral angiography in aneurysm surgery: a prospective study. *J Neurointerv Surg.* 2016 Jan;8(1):75-80. doi: 10.1136/neurintsurg-2014-011515. Epub 2014 Nov 25. PubMed PMID: 25423951. 87: Castonguay AC, Zaidat OO, Novakovic R, Nguyen TN, Taqi MA, Gupta R, Sun CH, Martin C, Holloway WE, Mueller-Kronast N, E English J, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Abraham MG, Janardhan V, Shaltoni H, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, A Issa M, Nogueira RG. Influence of age on clinical and revascularization outcomes in the North American Solitaire Stent-Retriever Acute Stroke Registry. *Stroke.* 2014 Dec;45(12):3631-6. doi:

10.1161/STROKEAHA.114.006487. Epub 2014 Oct 30. PubMed PMID: 25358699. 88: Kent TL, Petris CK, Holds JB. Effect of upper eyelid myectomy on subsequent chemodenervation in the management of benign essential blepharospasm. *Ophthalmic Plast Reconstr Surg*. 2015 May-Jun;31(3):222-6. doi: 10.1097/IOP.0000000000000263. PubMed PMID: 25192329. 89: Abou-Chebl A, Zaidat OO, Castonguay AC, Gupta R, Sun CH, Martin CO, Holloway WE, Mueller-Kronast N, English JD, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Taqi M, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Chen PR, Britz GW, Kaushal R, Nanda A, Issa MA, Nogueira RG. North American SOLITAIRE Stent-Retriever Acute Stroke Registry: choice of anesthesia and outcomes. *Stroke*. 2014 May;45(5):1396-401. doi: 10.1161/STROKEAHA.113.003698. Epub 2014 Mar 25. PubMed PMID: 24668201. 90: Greenberg JK, Stoev IT, Park TS, Smyth MD, Leonard JR, Leonard JC, Pineda JA, Limbrick DD. Management of children with mild traumatic brain injury and intracranial hemorrhage. *J Trauma Acute Care Surg*. 2014 Apr;76(4):1089-95. doi: 10.1097/TA.0000000000000155. PubMed PMID: 24662876; PubMed Central PMCID: PMC4152372. 91: Emohare O, Ledonio CG, Hill BW, Davis RA, Polly DW Jr, Kang MM. Cost savings analysis of intrawound vancomycin powder in posterior spinal surgery. *Spine J*. 2014 Nov 1;14(11):2710-5. doi: 10.1016/j.spinee.2014.03.011. Epub 2014 Mar 17. PubMed PMID: 24650851. 92: Hawasli AH, Rubin JB, Tran DD, Adkins DR, Waheed S, Hullar TE, Gutmann DH, Evans J, Leonard JR, Zipfel GJ, Chicoine MR. Antiangiogenic agents for nonmalignant brain tumors. *J Neurol Surg B Skull Base*. 2013 Jun;74(3):136-41. doi: 10.1055/s-0033-1338262. Epub 2013 Mar 13. PubMed PMID: 24436903; PubMed Central PMCID: PMC3709924. 93: Aranake A, Gradwohl S, Ben-Abdallah A, Lin N, Shanks A, Helsten DL, Glick DB, Jacobsohn E, Villafranca AJ, Evers AS, Avidan MS, Mashour GA. Increased risk of intraoperative awareness in patients with a history of awareness. *Anesthesiology*. 2013 Dec;119(6):1275-83. doi: 10.1097/ALN.0000000000000023. PubMed PMID: 24113645. 94: Zaidat OO, Castonguay AC, Gupta R, Sun CH, Martin C, Holloway WE, Mueller-Kronast N, English JD, Linfante I, Dabus G, Malisch TW, Marden FA, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Taqi MA, Abraham MG, Janardhan V, Shaltoni H, Novakovic R, Yoo AJ, Abou-Chebl A, Chen PR, Britz GW, Kaushal R, Nanda A, Issa MA, Nogueira RG. North American Solitaire Stent Retriever Acute Stroke registry: post-marketing revascularization and clinical outcome results. *J Neurointerv Surg*. 2014 Oct;6(8):584-8. doi: 10.1136/neurintsurg-2013-010895. Epub 2013 Sep 23. PubMed PMID: 24062252. 95: Abdulrauf SI. Decision-making process for the treatment of intracranial chordomas. *World Neurosurg*. 2014 Nov;82(5):612-3. doi: 10.1016/j.wneu.2013.07.117. Epub 2013 Aug 4. PubMed PMID: 23924967. 96: Luo Q, Xu D, Roskos T, Stout J, Kull L, Cheng X, Whitson D, Boomgarden E, Gfeller J, Bucholz RD. Complexity analysis of resting state magnetoencephalography activity in traumatic brain injury patients. *J Neurotrauma*. 2013 Oct 15;30(20):1702-9. doi: 10.1089/neu.2012.2679. Epub 2013 Aug 31. PubMed PMID: 23692211; PubMed Central PMCID: PMC3796321. 97: Eller JL, Sasaki-Adams D, Sweeney JM, Abdulrauf SI. Localization of the Internal Maxillary Artery for Extracranial-to-Intracranial Bypass through the Middle Cranial Fossa: A Cadaveric Study. *J Neurol Surg B Skull Base*. 2012 Feb;73(1):48-53. doi: 10.1055/s-0032-1304556. PubMed PMID: 23372995; PubMed Central PMCID: PMC3424021. 98: Brown RJ, Kumar A, Dhar R, Sampson TR, Diringer MN. The relationship between delayed infarcts and angiographic vasospasm after aneurysmal subarachnoid hemorrhage. *Neurosurgery*. 2013 May;72(5):702-7; discussion 707-8. doi: 10.1227/NEU.0b013e318285c3db. PubMed PMID: 23313984; PubMed Central PMCID: PMC3787688. 99: Farkas EA, Stoeckel DA, Nassif AS, Lim MJ, Naunheim KS. Intracoronary fiducial embolization after percutaneous placement for stereotactic radiosurgery. *Ann Thorac Surg*. 2012 May;93(5):1715-7. doi: 10.1016/j.athoracsur.2011.08.057. PubMed PMID: 22541207. 100: Delgado Almandoz JE, Jagadeesan BD, Refai D, Moran CJ, Cross DT 3rd, Chicoine MR, Rich KM, Diringer MN, Dacey RG Jr, Derdeyn CP, Zipfel GJ. Diagnostic yield of repeat catheter angiography in patients with catheter and computed tomography angiography negative subarachnoid hemorrhage. *Neurosurgery*. 2012 May;70(5):1135-42. doi: 10.1227/NEU.0b013e318242575e. PubMed PMID: 22105208. 101: Delgado Almandoz JE, Jagadeesan BD, Moran CJ, Cross DT 3rd, Zipfel GJ, Lee JM, Romero JM, Derdeyn CP. Independent validation of the secondary intracerebral hemorrhage score with catheter angiography

and findings of emergent hematoma evacuation. *Neurosurgery*. 2012 Jan;70(1):131-40; discussion 140. doi: 10.1227/NEU.0b013e31822fbf43. PubMed PMID: 21808219. 102: Bucholz RD, Laycock KA, McDurmont LL, Macneil WR. An integrated surgical communication network-SurgON. *Stud Health Technol Inform*. 2011;163:93-5. PubMed PMID: 21335768. 103: Abdulrauf SI, Sweeney JM, Mohan YS, Palejwala SK. Short segment internal maxillary artery to middle cerebral artery bypass: a novel technique for extracranial-to-intracranial bypass. *Neurosurgery*. 2011 Mar;68(3):804-8; discussion 808-9. doi: 10.1227/NEU.0b013e3182093355. PubMed PMID: 21206302. 104: Mikulec AA, Kinsella LJ. Subacute brainstem necrosis: a complication of stereotactic radiotherapy for skull base meningioma. *Otol Neurotol*. 2011 Sep;32(7):e50-1. doi: 10.1097/MAO.0b013e3182040b3a. PubMed PMID: 21150684. 105: Bucholz RD, Laycock KA, Cuff LE. CyberKnife stereotactic radiosurgery for intracranial neoplasms, with a focus on malignant tumors. *Technol Cancer Res Treat*. 2010 Dec;9(6):541-50. Review. PubMed PMID: 21070076. 106: Lee A, Van Pelt AE, Kane AA, Pilgram TK, Govier DP, Woo AS, Smyth MD. Comparison of perceptions and treatment practices between neurosurgeons and plastic surgeons for infants with deformational plagiocephaly. *J Neurosurg Pediatr*. 2010 Apr;5(4):368-74. doi: 10.3171/2009.11.PEDS0983. PubMed PMID: 20367342. 107: Lipira A, Limbrick D, Haughey B, Custer P, Chicoine MR. Titanium mesh reconstruction to maintain scalp contour after temporalis musculofascial flap reconstruction of the floor of the middle cranial fossa: a technical note and report of two cases. *Skull Base*. 2009 Jul;19(4):303-9. doi: 10.1055/s-0028-1114300. PubMed PMID: 20046599; PubMed Central PMCID: PMC2731468. 108: Loy DN, Rich KM, Simpson J, Dorward I, Santanam L, Derdeyn CP. Time-of-flight magnetic resonance angiography imaging of a residual arteriovenous malformation nidus after Onyx embolization for stereotactic radiosurgery planning. Technical note. *Neurosurg Focus*. 2009 May;26(5):E13. doi: 10.3171/2009.1.FOCUS08246. PubMed PMID: 19408991. 109: Whitlock EL, Tuffaha SH, Luciano JP, Yan Y, Hunter DA, Magill CK, Moore AM, Tong AY, Mackinnon SE, Borschel GH. Processed allografts and type I collagen conduits for repair of peripheral nerve gaps. *Muscle Nerve*. 2009 Jun;39(6):787-99. doi: 10.1002/mus.21220. PubMed PMID: 19291791. 110: Khan AM, Sindwani R. Bisphosphonate-related osteonecrosis of the skull base. *Laryngoscope*. 2009 Mar;119(3):449-52. doi: 10.1002/lary.20094. PubMed PMID: 19235747. 111: Refai D, Botros JA, Strom RG, Derdeyn CP, Sharma A, Zipfel GJ. Spontaneous isolated convexity subarachnoid hemorrhage: presentation, radiological findings, differential diagnosis, and clinical course. *J Neurosurg*. 2008 Dec;109(6):1034-41. doi: 10.3171/JNS.2008.109.12.1034. PubMed PMID: 19035716. 112: Mahaney KB, Abdulrauf SI. Anatomic relationship of the optic radiations to the atrium of the lateral ventricle: description of a novel entry point to the trigone. *Neurosurgery*. 2008 Oct;63(4 Suppl 2):195-202; discussion 202-3. doi: 10.1227/01.NEU.0000313121.58694.4A. PubMed PMID: 18981826. 113: Coppens JR, Cantando JD, Abdulrauf SI. Minimally invasive superficial temporal artery to middle cerebral artery bypass through an enlarged bur hole: the use of computed tomography angiography neuronavigation in surgical planning. *J Neurosurg*. 2008 Sep;109(3):553-8. doi: 10.3171/JNS.2008.109.9.0553. PubMed PMID: 18759590. 114: Moradzadeh A, Borschel GH, Luciano JP, Whitlock EL, Hayashi A, Hunter DA, Mackinnon SE. The impact of motor and sensory nerve architecture on nerve regeneration. *Exp Neurol*. 2008 Aug;212(2):370-6. doi: 10.1016/j.expneurol.2008.04.012. Epub 2008 Apr 23. PubMed PMID: 18550053; PubMed Central PMCID: PMC2761727. 115: Leira EC, Cruz-Flores S, Acharya AB, Pan Y. Treatment with tissue plasminogen activator is not associated with increased use of neurosurgery. *J Stroke Cerebrovasc Dis*. 2005 Nov-Dec;14(6):278-80. PubMed PMID: 17904037. 116: Dhar R, Stitt L, Hahn AF. The morbidity and outcome of patients with Guillain-Barré syndrome admitted to the intensive care unit. *J Neurol Sci*. 2008 Jan 15;264(1-2):121-8. Epub 2007 Sep 18. PubMed PMID: 17881005. 117: Koob JW, Moradzadeh A, Tong A, Hayashi A, Myckatyn TM, Tung TH, Mackinnon SE. Induction of regional collateral sprouting following muscle denervation. *Laryngoscope*. 2007 Oct;117(10):1735-40. PubMed PMID: 17713446. 118: Glaser DA, Hebert AA, Pariser DM, Solish N. Primary focal hyperhidrosis: scope of the problem. *Cutis*. 2007 May;79(5 Suppl):5-17. Review. PubMed PMID: 17596096. 119: Barina AR, Virgo KS, Mushi E, Bahadursingh AM, Johnson FE. Appendectomy for appendicitis in patients with a prior ventriculoperitoneal shunt. *J Surg Res*. 2007 Jul;141(1):40-4. PubMed PMID: 17574037. 120:

Engsberg JR, Ross SA, Collins DR, Park TS. Predicting functional change from preintervention measures in selective dorsal rhizotomy. *J Neurosurg*. 2007 Apr;106(4 Suppl):282-7. PubMed PMID: 17465361; PubMed Central PMCID: PMC2678243. 121: Lloyd BM, Luginbuhl RD, Brenner MJ, Rocque BG, Tung TH, Myckatyn TM, Hunter DA, Mackinnon SE, Borschel GH. Use of motor nerve material in peripheral nerve repair with conduits. *Microsurgery*. 2007;27(2):138-45. PubMed PMID: 17290378. 122: Chicoine MR, Zahner M, Won EK, Kalra RR, Kitamura T, Perry A, Higashikubo R. The in vivo antitumoral effects of lipopolysaccharide against glioblastoma multiforme are mediated in part by Toll-like receptor 4. *Neurosurgery*. 2007 Feb;60(2):372-80; discussion 381. PubMed PMID: 17290189. 123: Santiago P, Fessler RG. Minimally invasive surgery for the management of cervical spondylosis. *Neurosurgery*. 2007 Jan;60(1 Suppl 1):S160-5. PubMed PMID: 17204879. 124: Coppens JR, Sherrill JE 2nd. Presumed rupture of a conus medullaris dermoid cyst with cervical intramedullary fat and lipomatous infiltration of the cauda equina. Case illustration. *J Neurosurg Spine*. 2006 Aug;5(2):178. PubMed PMID: 16925088. 125: Abdulrauf SI. Extracranial-to-intracranial bypass using radial artery grafting for complex skull base tumors: technical note. *Skull Base*. 2005 Aug;15(3):207-13. PubMed PMID: 16175230; PubMed Central PMCID: PMC1214706. 126: Coppens JR, Mahaney KB, Abdulrauf SI. An anteromedial approach to the temporal horn to avoid injury to the optic radiation fibers and uncinat fasciculus: anatomical and technical note. *Neurosurg Focus*. 2005 Jun 15;18(6B):E3. PubMed PMID: 16048298. 127: Rivet DJ, Dacey RG. Visual loss from a dolichoectatic anterior cerebral artery. Case illustration. *J Neurosurg*. 2005 Mar;102(3):576. PubMed PMID: 15796400. 128: Bucholz R, MacNeil W, McDurmont L. The operating room of the future. *Clin Neurosurg*. 2004;51:228-37. PubMed PMID: 15571148. 129: Sincoff EH, Tan Y, Abdulrauf SI. White matter fiber dissection of the optic radiations of the temporal lobe and implications for surgical approaches to the temporal horn. *J Neurosurg*. 2004 Nov;101(5):739-46. PubMed PMID: 15540910. 130: Churchill JD, Tharp JA, Wellman CL, Sengelaub DR, Garraghty PE. Morphological correlates of injury-induced reorganization in primate somatosensory cortex. *BMC Neurosci*. 2004 Nov 8;5:43. PubMed PMID: 15533258; PubMed Central PMCID: PMC529444. 131: Bucholz RD, McDurmont L. From discovery to design: image-guided surgery. *Clin Neurosurg*. 2003;50:13-25. PubMed PMID: 14677432. 132: Hogan RE, Bucholz RD, Joshi S. Hippocampal deformation-based shape analysis in epilepsy and unilateral mesial temporal sclerosis. *Epilepsia*. 2003 Jun;44(6):800-6. PubMed PMID: 12790893. 133: Warden P, Bamber NI, Li H, Esposito A, Ahmad KA, Hsu CY, Xu XM. Delayed glial cell death following wallerian degeneration in white matter tracts after spinal cord dorsal column cordotomy in adult rats. *Exp Neurol*. 2001 Apr;168(2):213-24. PubMed PMID: 11259109. 134: Tolbert DL, Heckroth J. Purkinje cell transplants in Shaker mutant rats with hereditary Purkinje cell degeneration and ataxia. *Exp Neurol*. 1998 Oct;153(2):255-67. PubMed PMID: 9784285. 135: Sargent EW, Bucholz RD. Middle cranial fossa surgery with image-guided instrumentation. *Otolaryngol Head Neck Surg*. 1997 Jul;117(1):131-4. PubMed PMID: 9230339. 136: Gomez CR. Ultrasonic ventriculostomy stylet. *Neurosurgery*. 1995 Nov;37(5):1020-1. PubMed PMID: 8559327. 137: Le Stunff C, Thomas MJ, Rotwein P. Rapid activation of rat insulin-like growth factor-I gene transcription by growth hormone reveals no changes in deoxyribonucleic acid-protein interactions within the second promoter. *Endocrinology*. 1995 May;136(5):2230-7. PubMed PMID: 7720672. 138: Low DA, Li Z, Drzymala RE. Minimization of target positioning error in accelerator-based radiosurgery. *Med Phys*. 1995 Apr;22(4):443-8. PubMed PMID: 7609726. 139: Bartosz DK, Vasterling MK. Dura mater substitutes in the surgical treatment of meningiomas. *J Neurosci Nurs*. 1994 Jun;26(3):140-5. Review. PubMed PMID: 7963817. 140: Gronowski AM, Rotwein P. Rapid changes in nuclear protein tyrosine phosphorylation after growth hormone treatment in vivo. Identification of phosphorylated mitogen-activated protein kinase and STAT91. *J Biol Chem*. 1994 Mar 18;269(11):7874-8. PubMed PMID: 7510676. 141: Ma PM. Barrelettes–architectonic vibrissal representations in the brainstem trigeminal complex of the mouse. II. Normal post-natal development. *J Comp Neurol*. 1993 Jan 15;327(3):376-97. PubMed PMID: 8440772. 142: Molleston MC, Thomas ML, Hickey WF. Novel major histocompatibility complex expression by microglia and site-specific experimental allergic encephalomyelitis lesions in the rat central nervous system after optic nerve transection. *Adv Neurol*. 1993;59:337-48. PubMed PMID:

8420119. 143: Francel TJ, Dellon AL. Functional limb salvage combining gastrocnemius neurotization and posterior tibial nerve grafting: a case report. J Reconstr Microsurg. 1992 May;8(3):209-13; discussion 213-4. PubMed PMID: 1629800. =====Case series===== 2017===== In the Department of Neurosurgery, Washington University School of Medicine in [St. Louis, Missouri](#), Seventeen patients underwent 23 procedures using the [ROSA](#) system. A total of 87 [electroencephalography electrodes](#) were placed, with 13% deviating more than 3 mm from target. Six patients underwent stereotactic needle biopsy, and 9 underwent laser interstitial thermotherapy (LITT). One patient who underwent LITT required a subsequent craniotomy for tumor resection. Another patient experienced an asymptomatic extraaxial hematoma that spontaneously resolved. No patient suffered neurological complications during follow-up. Follow-up from the last procedure averaged 180 days in epilepsy patients and 309 days in oncology patients. The precision, ease of use, and versatility of the ROSA system make it well suited for pediatric neurosurgical practice. Further work, including long-term analysis of results and cost-effectiveness, will help determine the utility of this system and if its applications can be expanded ((Miller BA, Salehi A, Limbrick DD Jr, Smyth MD. Applications of a robotic stereotactic arm for pediatric epilepsy and neurooncology surgery. J Neurosurg Pediatr. 2017 Aug 4:1-7. doi: 10.3171/2017.5.PEDS1782. [Epub ahead of print] PubMed PMID: 28777037.

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