

Department of Neurological Surgery
University of Washington, Seattle
Faculty, Resident and Fellow Publications, 2017
[partial January – July, 2017]

1. Pattwell SS, **Holland EC**. Putting Glioblastoma in Its Place: IRF3 Inhibits Invasion. Trends Mol Med. 2017 Jul 31. pii: S1471-4914(17)30126-0. doi: 10.1016/j.molmed.2017.07.008. [Epub ahead of print] PMID:28774478
2. Athiraman U, Sultan-Qurraie A, Nair B, Tirschwell DL, Ghodke B, Havenon AD, Hallam DK, **Kim LJ**, Becker KJ, Sharma D. Endovascular Treatment of Acute Ischemic Stroke Under General Anesthesia: Predictors of Good Outcome. J Neurosurg Anesthesiol. 2017 Jul 31. doi: 10.1097/ANA.0000000000000449. [Epub ahead of print] PMID:28763432
3. Telfeian AE, Punsoni M, **Hofstetter CP**. Minimally invasive endoscopic spinal cord untethering: case report. J Spine Surg. 2017 Jun;3(2):278-282. doi: 10.21037/jss.2017.06.10. PMID:28744513 | PMCID:PMC5506310
4. Krzok G, Telfeian AE, Wagner R, **Hofstetter CP**, Ipreburg M. Contralateral facet-sparing sublaminar endoscopic foraminotomy for the treatment of lumbar lateral recess stenosis: technical note. J Spine Surg. 2017 Jun;3(2):260-266. doi: 10.21037/jss.2017.06.11. PMID:28744510 | PMCID:PMC5506298
5. Birjandian Z, Emerson S, Telfeian AE, **Hofstetter CP**. Interlaminar endoscopic lateral recess decompression-surgical technique and early clinical results. J Spine Surg. 2017 Jun;3(2):123-132. doi: 10.21037/jss.2017.06.08. PMID:28744491 | PMCID:PMC5506307
6. **Chesnut R**, **Temkin N**, Dikmen S Ph D, Rondina C, Videtta W, Petroni G, Lujan S, Alanis V, Falcao ALE, La Fuente G, Gonzalez L, Jibaja M, Lavendez A, Sandi Lora F, Merida R, Romero R, **Pridgeon J**, Barber J, Machamer J, Chaddock K. A Method of Managing Severe Traumatic Brain Injury in the Absence of Intracranial Pressure Monitoring: the ICE Protocol. J Neurotrauma. 2017 Jul 20. doi: 10.1089/neu.2016.4472. [Epub ahead of print] PMID:28726590
7. Abecassis LJ, Morton RP, **Kim LJ**, Ghodke BV, **Levitt MR**. Combined direct and indirect traumatic carotid-cavernous fistula (CCF): Case report and review of the literature. J Clin Neurosci. 2017 Jul 13. pii: S0967-5868(17)30591-X. doi: 10.1016/j.jocn.2017.06.051. [Epub ahead of print] PMID:28712734
8. Nerva JD, Barber J, **Levitt MR**, Rockhill JK, Hallam DK, Ghodke BV, **Sekhar LN**, **Kim LJ**. Onyx embolization prior to stereotactic radiosurgery for brain arteriovenous malformations: a single-center treatment algorithm. J Neurointerv Surg. 2017 Jul 14. pii: neurintsurg-2017-013084. doi: 10.1136/neurintsurg-2017-013084. [Epub ahead of print] PMID:28710086
9. Prince E, Hakimian S, **Ko AL**, **Ojemann JG**, Kim MS, Miller JW. Laser Interstitial Thermal Therapy for Epilepsy. Curr Neurol Neurosci Rep. 2017 Sep;17(9):63. doi: 10.1007/s11910-017-0772-8. Review. PMID:28699085
10. Singh TP, Weinstein JR, **Murphy SP**. Stroke: Basic and Clinical. Adv Neurobiol. 2017;15:281-293. doi: 10.1007/978-3-319-57193-5_10. PMID:28674985
11. Mrugala MM, Ruzevick J, Zlomanczuk P, Lukas RV. Tumor Treating Fields in Neuro-Oncological Practice. Curr Oncol Rep. 2017 Aug;19(8):53. doi: 10.1007/s11912-017-0611-8. Review. PMID:28664468

12. Bonow RH, Witt CE, Mosher BP, Mossa-Basha M, Vavilala MS, Rivara FP, Cuschieri J, Arbabi S, **Chesnut RM**. Transcranial Doppler Microemboli Monitoring for Stroke Risk Stratification in Blunt Cerebrovascular Injury. Crit Care Med. 2017 Jun 24. doi: 10.1097/CCM.0000000000002549. [Epub ahead of print] PMID:28658027
13. Tatman P, Osbun J, Yakkoui Y, Kaur S, Parada C, Busald T, Born D, Ahmad O, Zhang J, **Ferreira M**. Kinase activity in recurring primary Skull Base Chordomas and Chondrosarcomas: identification of novel pathways of oncogenesis and potential drug targets. World Neurosurg. 2017 Jun 21. pii: S1878-8750(17)30998-1. doi: 10.1016/j.wneu.2017.06.106. [Epub ahead of print] PMID:28647652
14. Probst S, Daza RA, Bader N, Hummel JF, Weiß M, Tanriver Y, **Hevner RF**, Arnold SJ. A dual-fluorescence reporter in the Eomes locus for live imaging and medium-term lineage tracing. Genesis. 2017 Jun 24. doi: 10.1002/dvg.23043. [Epub ahead of print] PMID:28646547
15. Cook MR, Witt CE, Bonow RH, Bulger EM, Linnau KF, Arbabi S, Robinson BRH, Cuschieri J. A Cohort Study of Blunt Cerebrovascular Injury Screening in Children: Are They Just Little Adults? J Trauma Acute Care Surg. 2017 Jun 20. doi: 10.1097/TA.0000000000001631. [Epub ahead of print] PMID:28640778
16. Hanak BW, Hsieh CY, Donaldson W, **Browd SR**, Lau KKS, Shain W. Reduced cell attachment to poly(2-hydroxyethyl methacrylate)-coated ventricular catheters in vitro. J Biomed Mater Res B Appl Biomater. 2017 Jun 20. doi: 10.1002/jbm.b.33915. [Epub ahead of print] PMID:28631360
17. Harris KD, Dashevskiy T, Mendoza J, Garcia AJ 3rd, **Ramirez JM**, Shea-Brown E. Different roles for inhibition in the rhythm-generating respiratory network. J Neurophysiol. 2017 Jun 14;jn.00174.2017. doi: 10.1152/jn.00174.2017. [Epub ahead of print] PMID:28615332
18. Kievit FM, Wang K, Ozawa T, Tarudji AW, **Silber JR**, **Holland EC**, **Ellenbogen RG**, Zhang M. Nanoparticle-mediated knockdown of DNA repair sensitizes cells to radiotherapy and extends survival in a genetic mouse model of glioblastoma. Nanomedicine. 2017 Jun 11;13(7):2131-2139. doi: 10.1016/j.nano.2017.06.004. [Epub ahead of print] PMID:28614736
19. Ajlan A, Achrol AS, Albakr A, Feroze AH, Westbroek EM, Hwang P, Harsh GR 4th. Cavernous Sinus Involvement by Pituitary Adenomas: Clinical Implications and Outcomes of Endoscopic Endonasal Resection. J Neurol Surg B Skull Base. 2017 Jun;78(3):273-282. doi: 10.1055/s-0036-1598022. Epub 2017 Jan 23. PMID:28603683 | PMCID:PMC5463411
20. Abecassis JJ, Morton RP, Mcgrath L, Hanson J, Xue AH, Kelly CM, **Levitt MR**, **Sekhar LN**, **Kim LJ**. Respiratory and swallowing outcomes based on aneurysm location in 360 patients with subarachnoid hemorrhage. World Neurosurg. 2017 May 27. pii: S1878-8750(17)30809-4. doi: 10.1016/j.wneu.2017.05.110. [Epub ahead of print] PMID:28559079
21. Ene C, Kaul A, **Kim L**. Natural history of cerebral cavernous malformations. Handb Clin Neurol. 2017;143:227-232. doi: 10.1016/B978-0-444-63640-9.00021-7. PMID:28552144
22. Abecassis JJ, Osbun JW, **Kim L**. Classification and pathophysiology of spinal vascular malformations. Handb Clin Neurol. 2017;143:135-143. doi: 10.1016/B978-0-444-63640-9.00013-8. PMID:28552135
23. Herron J, Thompson M, Brown T, Chizeck H, **Ojemann J**, **Ko A**. Cortical brain computer interface for closed-loop deep brain stimulation. IEEE Trans Neural Syst Rehabil Eng. 2017 May 18. doi: 10.1109/TNSRE.2017.2705661. [Epub ahead of print] PMID:28541211
24. Cimino PJ, Zager M, McFerrin L, Wirsching HG, Bolouri H, Hentschel B, von Deimling A, Jones D, Reifenberger G, Weller M, **Holland EC**. Multidimensional scaling of diffuse gliomas: application to the 2016 World Health Organization classification system with prognostically relevant molecular subtype discovery. Acta Neuropathol Commun. 2017 May 22;5(1):39. doi: 10.1186/s40478-017-0443-7. PMID:28532485 | PMCID:PMC5439117

25. Fann JR, Bombardier CH, **Temkin N**, Esselman P, Warms C, Barber J, Dikmen S. Sertraline for Major Depression During the Year Following Traumatic Brain Injury: A Randomized Controlled Trial. *J Head Trauma Rehabil.* 2017 May 17. doi: 10.1097/HTR.0000000000000322. [Epub ahead of print] PMID:28520672
26. **Bonow RH**, Friedman SD, Perez FA, **Ellenbogen RG**, **Browd SR**, **Mac Donald CL**, Vavilala MS, Rivara FP. Prevalence of Abnormal Magnetic Resonance Imaging Findings in Children with Persistent Symptoms after Pediatric Sports-Related Concussion. *J Neurotrauma.* 2017 Jul 19. doi: 10.1089/neu.2017.4970. [Epub ahead of print] PMID:28490224
27. Amankulor NM, Kim Y, Arora S, Kargl J, Szulzewsky F, Hanke M, Margineantu DH, Rao A, Bolouri H, Delrow J, Hockenbery D, Houghton AM, **Holland EC**. Mutant IDH1 regulates the tumor-associated immune system in gliomas. *Genes Dev.* 2017 Apr 15;31(8):774-786. doi: 10.1101/gad.294991.116. Epub 2017 May 2. PMID:28465358 | PMCID:PMC5435890
28. **Mac Donald CL**, Barber J, Jordan M, Johnson AM, Dikmen S, Fann JR, **Temkin N**. Early Clinical Predictors of 5-Year Outcome After Concussive Blast Traumatic Brain Injury. *JAMA Neurol.* 2017 Jul 1;74(7):821-829. doi: 10.1001/jamaneurol.2017.0143. PMID:28459953
29. Wellons JC 3rd, Shannon CN, Holubkov R, Riva-Cambrin J, Kulkarni AV, Limbrick DD Jr, Whitehead W, **Browd S**, Rozzelle C, Simon TD, Tamber MS, Oakes WJ, Drake J, Luerssen TG, Kestle J; Hydrocephalus Clinical Research Network.. Shunting outcomes in posthemorrhagic hydrocephalus: results of a Hydrocephalus Clinical Research Network prospective cohort study. *J Neurosurg Pediatr.* 2017 Jul;20(1):19-29. doi: 10.3171/2017.1.PEDS16496. Epub 2017 Apr 28. PMID:28452657
30. McCrory P, Meeuwisse W, Dvorak J, Aubry M, Bailes J, Broglio S, Cantu RC, Cassidy D, Echemendia RJ, Castellani RJ, Davis GA, **Ellenbogen R**, Emery C, Engebretsen L, Feddermann-Demont N, Giza CC, Guskiewicz KM, Herring S, Iverson GL, Johnston KM, Kissick J, Kutcher J, et al. Consensus statement on concussion in sport-the 5(th) international conference on concussion in sport held in Berlin, October 2016. *Br J Sports Med.* 2017 Apr 26. pii: bjsports-2017-097699. doi: 10.1136/bjsports-2017-097699. [Epub ahead of print] No abstract available. PMID:28446457
31. Echemendia RJ, Meeuwisse W, McCrory P, Davis GA, Putukian M, Leddy J, Makdissi M, Sullivan SJ, Broglio SP, Raftery M, Schneider K, Kissick J, McCrea M, Dvorak J, Sills AK, Aubry M, Engebretsen L, Loosemore M, Fuller G, Kutcher J, **Ellenbogen R**, Guskiewicz K, et al. The Sport Concussion Assessment Tool 5th Edition (SCAT5). *Br J Sports Med.* 2017 Apr 26. pii: bjsports-2017-097506. doi: 10.1136/bjsports-2017-097506. [Epub ahead of print] PMID:28446453
32. Davis GA, Purcell L, Schneider KJ, Yeates KO, Gioia GA, Anderson V, **Ellenbogen RG**, Echemendia RJ, Makdissi M, Sills A, Iverson GL, Dvorak J, McCrory P, Meeuwisse W, Patricios J, Giza CC, Kutcher JS. The Child Sport Concussion Assessment Tool 5th Edition (Child SCAT5). *Br J Sports Med.* 2017 Apr 26. pii: bjsports-2017-097492. doi: 10.1136/bjsports-2017-097492. [Epub ahead of print] PMID:28446452
33. Echemendia RJ, Meeuwisse W, McCrory P, Davis GA, Putukian M, Leddy J, Makdissi M, Sullivan SJ, Broglio SP, Raftery M, Schneider K, Kissick J, McCrea M, Dvorak J, Sills AK, Aubry M, Engebretsen L, Loosemore M, Fuller G, Kutcher J, **Ellenbogen R**, Guskiewicz K, et al. The Concussion Recognition Tool 5th Edition (CRT5). *Br J Sports Med.* 2017 Apr 26. pii: bjsports-2017-097508. doi: 10.1136/bjsports-2017-097508. [Epub ahead of print] PMID:28446450
34. Richardson JS, Fann JR, Bell KR, **Temkin N**. Impact of Telephone-Based Problem-Solving Treatment on the Use of Medical and Psychological Services in the Military. *J Head Trauma Rehabil.* 2017 Apr 18. doi: 10.1097/HTR.0000000000000299. [Epub ahead of print] PMID:28422894

35. Alexander MD, Hippe DS, Cooke DL, Hallam DK, Hetts SW, Kim H, Lawton MT, **Sekhar LN**, Kim **LJ**, Ghodke BV. Targeted Embolization of Aneurysms Associated With Brain Arteriovenous Malformations at High Risk for Surgical Resection: A Case-Control Study. *Neurosurgery*. 2017 Apr 13. doi: 10.1093/neuros/nyx167. [Epub ahead of print] PMID:28419337
36. Berens AM, Harbison RA, Li Y, Bly RA, Aghdasi N, **Ferreira M Jr**, Hannaford B, Moe KS. Quantitative Analysis of Transnasal Anterior Skull Base Approach: Report of Technology for Intraoperative Assessment of Instrument Motion. *Surg Innov*. 2017 Aug;24(4):405-410. doi: 10.1177/1553350617702307. Epub 2017 Apr 15. PMID:28412879
37. Krishnamoorthy V, Rowhani-Rahbar A, Gibbons EF, Rivara FP, **Temkin NR**, Pontius C, Luk K, Graves M, Lozier D, Chaikittisilpa N, Kiatchai T, Vavilala MS. Early Systolic Dysfunction Following Traumatic Brain Injury: A Cohort Study. *Crit Care Med*. 2017 Jun;45(6):1028-1036. doi: 10.1097/CCM.0000000000002404. PMID:28398926 | PMCID:PMC5433903
38. Huang Y, Rajappa P, Hu W, Hoffman C, Cisse B, Kim JH, Gorge E, Yanowitch R, Cope W, Vartanian E, Xu R, Zhang T, Pisapia D, Xiang J, Huse J, Matei I, Peinado H, Bromberg J, **Holland E**, Ding BS, Rafii S, Lyden D, et al. A proangiogenic signaling axis in myeloid cells promotes malignant progression of glioma. *J Clin Invest*. 2017 May 1;127(5):1826-1838. doi: 10.1172/JCI86443. Epub 2017 Apr 10. PMID:28394259 | PMCID:PMC5409793
39. El Hussein N, Goldstein LB, Peterson ED, Zhao X, Olson DM, *Williams JW Jr*, Bushnell C, Laskowitz DT. Depression Status Is Associated with Functional Decline Over 1-Year Following Acute Stroke. *J Stroke Cerebrovasc Dis*. 2017 Jul;26(7):1393-1399. doi: 10.1016/j.jstrokecerebrovasdis.2017.03.026. Epub 2017 Apr 25. PMID:28389192
40. Xu DS, **Levitt MR**, Kalani MY, Rangel-Castilla L, Mulholland CB, *Abecassis JJ*, *Morton RP*, *Nerva JD*, Siddiqui AH, Levy EI, Spetzler RF, Albuquerque FC, McDougall CG. Dolichoectatic aneurysms of the vertebrobasilar system: clinical and radiographic factors that predict poor outcomes. *J Neurosurg*. 2017 Apr 7;1-7. doi: 10.3171/2016.10.JNS161041. [Epub ahead of print] PMID:28387624
41. Hainline B, **Ellenbogen RG**. A Perfect Storm. *J Athl Train*. 2017 Mar;52(3):157-159. doi: 10.4085/1062-6050-51.10.04. No abstract available. PMID:28387549 | PMCID:PMC5384813
42. Straus DC, Brito da Silva H, *Mcgrath L*, **Levitt MR**, **Kim LJ**, Ghodke BV, Barber JK, **Sekhar LN**. Cerebral Revascularization for Aneurysms in the Flow-Diverter Era. *Neurosurgery*. 2017 May 1;80(5):759-768. doi: 10.1093/neuros/nyx064. PMID:28383672
43. Richardson JS, Guzauskas GF, Fann JR, **Temkin NR**, Bush NE, Bell KR, Gahm GA, Smolenski DJ, Brockway JA, Hansen RN. Economic evaluation of telephone-based concussion management for combat-related mild traumatic brain injury. *J Telemed Telecare*. 2017 Jan 1;1357633X17696586. doi: 10.1177/1357633X17696586. [Epub ahead of print] PMID:28372513
44. **Kim LJ**. Editorial: Acute stroke intervention. *Neurosurg Focus*. 2017 Apr;42(4):E9. doi: 10.3171/2017.1.FOCUS1740. No abstract available. PMID:28366061
45. Connolly NP, Stokum JA, Schneider CS, Ozawa T, Xu S, Galisteo R, Castellani RJ, Kim AJ, Simard JM, Winkles JA, **Holland EC**, Woodworth GF. Genetically engineered rat gliomas: PDGF-driven tumor initiation and progression in tv-a transgenic rats recreate key features of human brain cancer. *PLoS One*. 2017 Mar 30;12(3):e0174557. doi: 10.1371/journal.pone.0174557. eCollection 2017. PMID:28358926 | PMCID:PMC5373526
46. Moon K, Park MS, Albuquerque FC, **Levitt MR**, Mulholland CB, McDougall CG. Changing Paradigms in the Endovascular Management of Ruptured Anterior Communicating Artery Aneurysms. *Neurosurgery*. 2017 Jan 25. doi: 10.1093/neuros/nyw051. [Epub ahead of print] PMID:28327983

47. Abecassis LJ, **Kim LJ**. Craniotomy for Treatment of Chronic Subdural Hematoma. *Neurosurg Clin N Am*. 2017 Apr;28(2):229-237. doi: 10.1016/j.nec.2016.11.005. Review. PMID:28325457
48. Abecassis LJ, Nerva JD, Feroze A, Barber J, Ghodke BV, **Kim LJ**, **Sekhar LN**. Multimodality Management of Spetzler-Martin Grade 3 Brain Arteriovenous Malformations with Subgroup Analysis. *World Neurosurg*. 2017 Jun;102:263-274. doi: 10.1016/j.wneu.2017.03.046. Epub 2017 Mar 18. PMID:28323192
49. Sunshine JE, Dagal A, Burns SP, Bransford RJ, Zhang F, Newman SF, Nair BG, Sharar SR. Methylprednisolone Therapy in Acute Traumatic Spinal Cord Injury: Analysis of a Regional Spinal Cord Model Systems Database. *Anesth Analg*. 2017 Apr;124(4):1200-1205. doi: 10.1213/ANE.0000000000001906. PMID:28319547
50. Alimi M, Lang G, Navarro-Ramirez R, Perrech M, Berlin C, **Hofstetter CP**, Moriguchi Y, Elowitz E, Härtl R. The Impact of Cage Dimensions, Positioning, and Side of Approach in Extreme Lateral Interbody Fusion. *Clin Spine Surg*. 2017 Mar 17. doi: 10.1097/BSD.0000000000000507. [Epub ahead of print] PMID:28319468
51. Ruzevick J, Koh EK, Gonzalez-Cuyar LF, Cimino PJ, Moe K, Wright LA, Failor R, **Ferreira M**. Clival paragangliomas: a report of two cases involving the midline skull base and review of the literature. *J Neurooncol*. 2017 May;132(3):473-478. doi: 10.1007/s11060-017-2396-x. Epub 2017 Mar 16. PMID:28299533
52. Anderson TM, **Ramirez JM**. Respiratory rhythm generation: triple oscillator hypothesis. *F1000Res*. 2017 Feb 14;6:139. doi: 10.12688/f1000research.10193.1. eCollection 2017. Review. PMID:28299192 | PMCID:PMC5310385
53. Bertisch H, Rivara FP, Kisala PA, Wang J, Yeates KO, Durbin D, Zonfrillo MR, Bell MJ, **Temkin N**, Tulskey DS. Psychometric evaluation of the pediatric and parent-proxy Patient-Reported Outcomes Measurement Information System and the Neurology and Traumatic Brain Injury Quality of Life measurement item banks in pediatric traumatic brain injury. *Qual Life Res*. 2017 Jul;26(7):1887-1899. doi: 10.1007/s11136-017-1524-6. Epub 2017 Mar 7. PMID:28271316
54. Patricios J, Fuller GW, **Ellenbogen R**, Herring S, Kutcher JS, Loosemore M, Makdissi M, McCrea M, Putukian M, Schneider KJ. What are the critical elements of sideline screening that can be used to establish the diagnosis of concussion? A systematic review. *Br J Sports Med*. 2017 Mar 7. pii: bjsports-2016-097441. doi: 10.1136/bjsports-2016-097441. [Epub ahead of print] Review. PMID:28270437
55. Pollak J, Rai KG, Funk CC, Arora S, Lee E, Zhu J, Price ND, Paddison PJ, **Ramirez JM**, Rostomily RC. Ion channel expression patterns in glioblastoma stem cells with functional and therapeutic implications for malignancy. *PLoS One*. 2017 Mar 6;12(3):e0172884. doi: 10.1371/journal.pone.0172884. eCollection 2017. PMID:28264064 | PMCID:PMC5338779
56. Hanak BW, Bonow RH, Harris CA, **Browd SR**. Cerebrospinal Fluid Shunting Complications in Children. *Pediatr Neurosurg*. 2017 Mar 2. doi: 10.1159/000452840. [Epub ahead of print] PMID:28249297
57. **Mac Donald CL**, Barber J, Andre J, Evans N, Panks C, Sun S, Zalewski K, Elizabeth Sanders R, **Temkin N**. 5-Year imaging sequelae of concussive blast injury and relation to early clinical outcome. *Neuroimage Clin*. 2017 Feb 9;14:371-378. doi: 10.1016/j.nicl.2017.02.005. eCollection 2017. PMID:28243574 | PMCID:PMC5320067
58. Tai TY, Warner LN, Jones TD, Jung S, Concepcion FA, Skyrud DW, Fender J, Liu Y, Williams AD, Neumaier JF, **D'Ambrosio R**, Poolos NP. Antiepileptic action of c-Jun N-terminal kinase (JNK) inhibition in an animal model of temporal lobe epilepsy. *Neuroscience*. 2017 May 4;349:35-47. doi: 10.1016/j.neuroscience.2017.02.024. Epub 2017 Feb 22. PMID:28237815 | PMCID:PMC5386321

59. Henderson FC Sr, Austin C, Benzel E, Bolognese P, **Ellenbogen R**, Francomano CA, Ireton C, Klinge P, Koby M, Long D, Patel S, Singman EL, Voermans NC. Neurological and spinal manifestations of the Ehlers-Danlos syndromes. *Am J Med Genet C Semin Med Genet*. 2017 Mar;175(1):195-211. doi: 10.1002/ajmg.c.31549. Epub 2017 Feb 21. Review. PMID:28220607
60. Flanagan ME, *Williams JR, Emerson SN, Chiarelli PA, Ellenbogen RG*, Cimino PJ. Clinicopathologic characteristics of metastatic esophageal carcinoma isolated to the pineal region: A case report and review of the literature. *Exp Mol Pathol*. 2017 Apr;102(2):247-250. doi: 10.1016/j.yexmp.2017.02.011. Epub 2017 Feb 16. Review. PMID:28215583
61. *Morton RP, Abecassis JJ*, Moore AE, Kelly CM, **Levitt MR, Kim LJ, Sekhar LN**. The use of ultrasound for postoperative monitoring of cerebral bypass grafts: A technical report. *J Clin Neurosci*. 2017 Jun;40:169-174. doi: 10.1016/j.jocn.2017.01.030. Epub 2017 Feb 16. PMID:28215461
62. Bombardier CH, Fann JR, Ludman EJ, Vannoy SD, Dyer JR, Barber JK, **Temkin NR**. The Relations of Cognitive, Behavioral, and Physical Activity Variables to Depression Severity in Traumatic Brain Injury: Reanalysis of Data From a Randomized Controlled Trial. *J Head Trauma Rehabil*. 2017 Feb 10. doi: 10.1097/HTR.0000000000000288. [Epub ahead of print] PMID:28195952
63. Zaidi HA, Mooney MA, **Levitt MR**, Dru AB, Ablu AA, Spetzler RF. Impact of Timing of Intervention Among 397 Consecutively Treated Brainstem Cavernous Malformations. *Neurosurgery*. 2017 Feb 10. doi: 10.1093/neuros/nyw139. [Epub ahead of print] PMID:28184444
64. Ajdari A, Boyle LN, Kannan N, Rowhani-Rahbar A, Wang J, Mink R, Ries B, Wainwright M, Groner JJ, Bell MJ, Giza C, Zatzick DF, **Ellenbogen RG**, Mitchell PH, Rivara FP, Vavilala MS. Examining Emergency Department Treatment Processes in Severe Pediatric Traumatic Brain Injury. *J Healthc Qual*. 2017 Feb 3. doi: 10.1097/JHQ.0000000000000052. [Epub ahead of print] PMID:28166114 | PMCID:PMC5540834
65. Ha S, Tripathi PP, Mihalas AB, **Hevner RF**, Beier DR. C-Terminal Region Truncation of RELN Disrupts an Interaction with VLDLR, Causing Abnormal Development of the Cerebral Cortex and Hippocampus. *J Neurosci*. 2017 Jan 25;37(4):960-971. doi: 10.1523/JNEUROSCI.1826-16.2016. PMID:28123028 | PMCID:PMC5296787
66. Weller M, **Holland EC**, Hambardzumyan D. Reply: Corticosteroids compromise survival in glioblastoma in part through their elevation of blood glucose levels. *Brain*. 2017 Mar 1;140(3):e17. doi: 10.1093/brain/aww325. No abstract available. PMID:28007996
67. Krishnamoorthy V, Rowhani-Rahbar A, Chaikittisilpa N, Gibbons EF, Rivara FP, **Temkin NR**, Quistberg A, Vavilala MS. Association of Early Hemodynamic Profile and the Development of Systolic Dysfunction Following Traumatic Brain Injury. *Neurocrit Care*. 2017 Jun;26(3):379-387. doi: 10.1007/s12028-016-0335-x. PMID:28000133 | PMCID:PMC5444944
68. *Collins KL*, Guterstam A, Cronin J, Olson JD, Ehrsson HH, **Ojemann JG**. Ownership of an artificial limb induced by electrical brain stimulation. *Proc Natl Acad Sci U S A*. 2017 Jan 3;114(1):166-171. doi: 10.1073/pnas.1616305114. Epub 2016 Dec 19. PMID:27994147 | PMCID:PMC5224395
69. Stephen ZR, Gebhart RN, Jeon M, Blair AA, **Ellenbogen RG, Silber JR**, Zhang M. pH-Sensitive O6-Benzylguanosine Polymer Modified Magnetic Nanoparticles for Treatment of Glioblastomas. *Bioconj Chem*. 2017 Jan 18;28(1):194-202. doi: 10.1021/acs.bioconjchem.6b00545. Epub 2016 Dec 12. PMID:27936607 | PMCID:PMC5510587

70. Stacey A, Lucas S, Dikmen S, **Temkin N**, Bell KR, Brown A, Brunner R, Diaz-Arrastia R, Watanabe TK, Weintraub A, Hoffman JM. Natural History of Headache Five Years after Traumatic Brain Injury. *J Neurotrauma*. 2017 Apr 15;34(8):1558-1564. doi: 10.1089/neu.2016.4721. Epub 2017 Jan 18. PMID:27927072
71. Yue JK, Winkler EA, Rick JW, Burke JF, McAllister TW, Oh SS, Burchard EG, Hu D, Rosand J, **Temkin NR**, Korley FK, Sorani MD, Ferguson AR, Lingsma HF, Sharma S, Robinson CK, Yuh EL, Tarapore PE, Wang KK, Puccio AM, Mukherjee P, Diaz-Arrastia R, et al. DRD2 C957T polymorphism is associated with improved 6-month verbal learning following traumatic brain injury. *Neurogenetics*. 2017 Jan;18(1):29-38. doi: 10.1007/s10048-016-0500-6. Epub 2016 Nov 8. PMID:27826691
72. Abecassis JJ, Nerva JD, Ghodke BV, **Sekhar LN**, **Levitt MR**, **Kim LJ**. The dual microcatheter technique for transvenous embolization of dural arteriovenous fistulae. *J Neurointerv Surg*. 2017 Jun;9(6):578-582. doi: 10.1136/neurintsurg-2016-012713. Epub 2016 Nov 7. PMID:27821474
73. Whitehead WE, Riva-Cambrin J, Kulkarni AV, Wellons JC 3rd, Rozzelle CJ, Tamber MS, Limbrick DD Jr, **Browd SR**, Naftel RP, Shannon CN, Simon TD, Holubkov R, Illner A, Cochrane DD, Drake JM, Luerssen TG, Oakes WJ, Kestle JR; Å for the Hydrocephalus Clinical Research Network.. Ventricular catheter entry site and not catheter tip location predicts shunt survival: a secondary analysis of 3 large pediatric hydrocephalus studies. *J Neurosurg Pediatr*. 2017 Feb;19(2):157-167. doi: 10.3171/2016.8.PEDS16229. Epub 2016 Nov 4. PMID:27813457
74. Dikmen S, Machamer J, **Temkin N**. Mild Traumatic Brain Injury: Longitudinal Study of Cognition, Functional Status, and Post-Traumatic Symptoms. *J Neurotrauma*. 2017 Apr 15;34(8):1524-1530. doi: 10.1089/neu.2016.4618. Epub 2016 Dec 2. PMID:27785968 | PMCID:PMC5397200
75. Winkler EA, Yue JK, Ferguson AR, **Temkin NR**, Stein MB, Barber J, Yuh EL, Sharma S, Sattris GG, McAllister TW, Rosand J, Sorani MD, Lingsma HF, Tarapore PE, Burchard EG, Hu D, Eng C, Wang KK, Mukherjee P, Okonkwo DO, Diaz-Arrastia R, Manley GT; et al. COMT Val(158)Met polymorphism is associated with post-traumatic stress disorder and functional outcome following mild traumatic brain injury. *J Clin Neurosci*. 2017 Jan;35:109-116. doi: 10.1016/j.jocn.2016.09.017. Epub 2016 Oct 18. PMID:27769642
76. I Karipidis I, Pleisch G, Röthlisberger M, **Hofstetter C**, Dornbierer D, Stämpfli P, Brem S. Neural initialization of audiovisual integration in prereaders at varying risk for developmental dyslexia. *Hum Brain Mapp*. 2017 Feb;38(2):1038-1055. doi: 10.1002/hbm.23437. Epub 2016 Oct 14. PMID:27739608
77. Carney N, Totten AM, O'Reilly C, Ullman JS, Hawryluk GW, Bell MJ, Bratton SL, **Chesnut R**, Harris OA, Kisson N, Rubiano AM, Shutter L, Tasker RC, Vavilala MS, Wilberger J, Wright DW, Ghajar J. Guidelines for the Management of Severe Traumatic Brain Injury, Fourth Edition. *Neurosurgery*. 2017 Jan 1;80(1):6-15. doi: 10.1227/NEU.0000000000001432. PMID:27654000
78. Alimi M, Navarro-Ramirez R, Parikh K, Njoku I, **Hofstetter CP**, Tsiouris AJ, Härtl R. Radiographic and Clinical Outcome of Silicate-substituted Calcium Phosphate (Si-CaP) Ceramic Bone Graft in Spinal Fusion Procedures. *Clin Spine Surg*. 2017 Jul;30(6):E845-E852. doi: 10.1097/BSD.0000000000000432. PMID:27623299
79. Webb SJ, Garrison MM, Bernier R, McClintic AM, King BH, **Mourad PD**. Severity of ASD symptoms and their correlation with the presence of copy number variations and exposure to first trimester ultrasound. *Autism Res*. 2017 Mar;10(3):472-484. doi: 10.1002/aur.1690. Epub 2016 Sep 1. PMID:27582229 | PMCID:PMC5332517

80. Bell KR, Fann JR, Brockway JA, Cole WR, Bush NE, Dikmen S, Hart T, Lang AJ, Grant G, Gahm G, Reger MA, St De Lore J, Machamer J, Ernstrom K, Raman R, Jain S, Stein MB, **Temkin N**. Telephone Problem Solving for Service Members with Mild Traumatic Brain Injury: A Randomized, Clinical Trial. *J Neurotrauma*. 2017 Jan 15;34(2):313-321. doi: 10.1089/neu.2016.4444. Epub 2016 Oct 13. PMID:27579992
81. Khaing ZZ, Cates LN, Fishedick AE, McClintic AM, **Mourad PD, Hofstetter CP**. Temporal and Spatial Evolution of Raised Intraspinal Pressure after Traumatic Spinal Cord Injury. *J Neurotrauma*. 2017 Feb;34(3):645-651. doi: 10.1089/neu.2016.4490. Epub 2016 Sep 27. PMID:27503121
82. **Levitt MR**, Barbour MC, Rolland du Roscoat S, Geindreau C, Chivukula VK, McGah PM, *Nerva JD, Morton RP, Kim LJ*, Aliseda A. Computational fluid dynamics of cerebral aneurysm coiling using high-resolution and high-energy synchrotron X-ray microtomography: comparison with the homogeneous porous medium approach. *J Neurointerv Surg*. 2017 Aug;9(8):0. doi: 10.1136/neurintsurg-2016-012479. Epub 2016 Jul 12. PMID:27405312 | PMCID:PMC5376237
83. Alimi M, **Hofstetter CP**, Torres-Campa JM, Navarro-Ramirez R, Cong GT, Njoku I Jr, Härtl R. Unilateral tubular approach for bilateral laminotomy: effect on ipsilateral and contralateral buttock and leg pain. *Eur Spine J*. 2017 Feb;26(2):389-396. doi: 10.1007/s00586-016-4594-1. Epub 2016 Jun 8. PMID:27272621
84. **Levitt MR**, Albuquerque FC, Gross BA, Moon K, Jadhav AP, Ducruet AF, Crowley RW. Venous sinus stenting in patients without idiopathic intracranial hypertension. *J Neurointerv Surg*. 2017 May;9(5):512-515. doi: 10.1136/neurintsurg-2016-012405. Epub 2016 May 19. PMID:27199383
85. **Mac Donald CL**, Johnson AM, Wierzechowski L, Kassner E, Stewart T, Nelson EC, Werner NJ, Adam OR, Rivet DJ, Flaherty SF, Oh JS, Zonies D, Fang R, Brody DL. Outcome Trends after US Military Concussive Traumatic Brain Injury. *J Neurotrauma*. 2017 Jul 15;34(14):2206-2219. doi: 10.1089/neu.2016.4434. Epub 2016 Jun 27. PMID:27198861 | PMCID:PMC5510713
86. Wilson CD, Safavi-Abbasi S, Sun H, Kalani MY, Zhao YD, **Levitt MR**, Hanel RA, Sauvageau E, Mapstone TB, Albuquerque FC, McDougall CG, Nakaji P, Spetzler RF. Meta-analysis and systematic review of risk factors for shunt dependency after aneurysmal subarachnoid hemorrhage. *J Neurosurg*. 2017 Feb;126(2):586-595. doi: 10.3171/2015.11.JNS152094. Epub 2016 Apr 1. PMID:27035169
87. **Levitt MR**, Hlubek RJ, Moon K, Kalani MY, Nakaji P, Smith KA, Little AS, Knievel K, Chan JW, McDougall CG, Albuquerque FC. Incidence and predictors of dural venous sinus pressure gradient in idiopathic intracranial hypertension and non-idiopathic intracranial hypertension headache patients: results from 164 cerebral venograms. *J Neurosurg*. 2017 Feb;126(2):347-353. doi: 10.3171/2015.12.JNS152033. Epub 2016 Mar 11. PMID:26967777