

Department of Neurological Surgery
University of Washington, Seattle WA
2022 Faculty, Fellow, and Resident Publications
Peer Reviewed: 152
Books, Book Chapters: 4
Faculty: **Bold**; Fellows: *Italics*; Residents: Underlined

PEER REVIEWED PUBLICATIONS

1. Vanent KN, Federico EM, Bass DJ, Barros G, Keen J, **Levitt MR**. Nickels and tines: the myth of nickel allergy in intracranial stents. *J Neurointerv Surg*. 2022. Epub 2022/01/07. doi: 10.1136/neurintsurg-2021-018365. PubMed PMID: 34987071.
2. Cruz MJ, Nieblas-Bedolla E, Young CC, Feroze AH, Williams JR, **Ellenbogen RG**, **Levitt MR**. In Reply: United States Medicolegal Progress and Innovation in Telemedicine in the Age of COVID-19: A Primer for Neurosurgeons. *Neurosurgery*. 2022;90(2):e53. Epub 2022/01/08. doi: 10.1227/neu.0000000000001798. PubMed PMID: 34995233.
3. Zamora M, Toth R, Morgante F, Ottaway J, Gillbe T, Martin S, Lamb G, Noone T, Benjaber M, Nairac Z, Sehgal D, Constandinou TG, **Herron J**, Aziz TZ, Gillbe I, Green AL, Pereira EAC, Denison T. DyNeuMo Mk-1: Design and pilot validation of an investigational motion-adaptive neurostimulator with integrated chronotherapy. *Exp Neurol*. 2022;351:113977. Epub 2022/01/13. doi: 10.1016/j.expneurol.2022.113977. PubMed PMID: 35016994.
4. Eaton JC, Greil ME, Nistal D, Caldwell DJ, Robinson E, Aljuboori Z, **Temkin N**, **Bonow RH**, **Chesnut RM**. Complications associated with early cranioplasty for patients with traumatic brain injury: a 25-year single-center analysis. *J Neurosurg*. 2022:1-6. Epub 2022/01/22. doi: 10.3171/2021.11.Jns211557. PubMed PMID: 35061995.
5. Aljuboori Z, Eaton J, Carroll K, **Levitt M**, **Kim L**. Early ambulation after transfemoral diagnostic cerebral angiography: a pilot study. *BMC Neurol*. 2022;22(1):34. Epub 2022/01/26. doi: 10.1186/s12883-022-02561-0. PubMed PMID: 35073871; PubMed Central PMCID: PMC8785545.
6. Samejima S, Caskey CD, Inanici F, Shrivastav SR, Brighton LN, Pradarelli J, Martinez V, Steele KM, **Saigal R**, Moritz CT. Multisite Transcutaneous Spinal Stimulation for Walking and Autonomic Recovery in Motor-Incomplete Tetraplegia: A Single-Subject Design. *Phys Ther*. 2022;102(1). Epub 2022/01/26. doi: 10.1093/ptj/pzab228. PubMed PMID: 35076067; PubMed Central PMCID: PMC8788019.
7. Machamer J, **Temkin N**, Dikmen S, Nelson LD, Barber J, Hwang P, Boase K, Stein MB, Sun X, Giacino J, McCrea MA, Taylor SR, Jain S, Manley G; **TRACK-TBI Investigators**. Symptom Frequency and Persistence in the First Year after Traumatic Brain Injury: A TRACK-TBI Study. *J Neurotrauma*. 2022;39(5-6):358-70. Epub 2022/01/27. doi: 10.1089/neu.2021.0348. PubMed PMID: 35078327; PubMed Central PMCID: PMC8892966.
8. Rajesh AE, Rubinstein JT, **Ferreira M**, **Patel AP**, Bly RA, Kohlberg GD. Automated

objective surgical planning for lateral skull base tumors. *Int J Comput Assist Radiol Surg*. 2022;17(3):427-36. Epub 2022/01/29. doi: 10.1007/s11548-022-02564-9. PubMed PMID: 35089486.

9. Saal-Zapata G, Ghodke B, **Walker M**, Pregúntegui-Loayza I, Rodríguez-Varela R. Endovascular treatment of medium and large intracranial aneurysms with large volume coils: A single-center experience. *Surg Neurol Int*. 2022;13:9. Epub 2022/02/08. doi: 10.25259/sni_947_2021. PubMed PMID: 35127209; PubMed Central PMCID: PMCPMC8813608.

10. Scherpelz KP, Crotty EE, Paulson VA, Lockwood CM, Leary SES, **Ellenbogen RG**, Lee A, Ermoian RP, Vitanza NA, Cole BL. Two cases of pineal anlage tumor with molecular analysis. *Pediatr Blood Cancer*. 2022;69(4):e29596. Epub 2022/02/08. doi: 10.1002/pbc.29596. PubMed PMID: 35129878.

11. Felix B, Kalatar SB, Moatz B, **Hofstetter C**, Karsy M, Parr R, Gibby W. Augmented Reality Spine Surgery Navigation: Increasing Pedicle Screw Insertion Accuracy for Both Open and Minimally Invasive Spine Surgeries. *Spine (Phila Pa 1976)*. 2022. Epub 2022/02/09. doi: 10.1097/brs.0000000000004338. PubMed PMID: 35132049.

12. Parada CA, El-Ghazali FM, Togliola D, Ruzevick J, McAvoy M, Emerson S, Karasozen Y, Busald T, Nazem AA, Suranowitz SM, Shalhub S, Marshall DA, Gonzalez-Cuyar LF, Dorschner MO, **Ferreira M Jr**. Somatic Mosaicism of a PDGFRB Activating Variant in Aneurysms of the Intracranial, Coronary, Aortic, and Radial Artery Vascular Beds. *J Am Heart Assoc*. 2022;11(4):e024289. Epub 2022/02/15. doi: 10.1161/jaha.121.024289. PubMed PMID: 35156398.

13. Zhang J, Li X, Zhao B, Zhang J, Sun B, Wang L, Tian J, Mossa-Basha M, **Kim LJ**, Yan J, Wan J, Xu J, Zhou Y, Zhao H, Zhu C. Irregular pulsation of aneurysmal wall is associated with symptomatic and ruptured intracranial aneurysms. *J Neurointerv Surg*. 2022. Epub 2022/02/17. doi: 10.1136/neurintsurg-2021-018381. PubMed PMID: 35169029.

14. Schneider ALC, Huie JR, Boscardin WJ, Nelson L, Barber JK, Yaffe K, Diaz-Arrastia R, Ferguson AR, Kramer J, Jain S, **Temkin N**, Yuh E, Manley GT, Gardner RC; **TRACK-TBI Investigators**. Cognitive Outcome 1 Year After Mild Traumatic Brain Injury: Results From the TRACK-TBI Study. *Neurology*. 2022;98(12):e1248-e61. Epub 2022/02/18. doi: 10.1212/wnl.0000000000200041. PubMed PMID: 35173018; PubMed Central PMCID: PMCPMC8967334.

15. Jabbour P, Dmytriw AA, Sweid A, Piotin M, Bekelis K, Sourour N, Raz E, Linfante I, Dabus G, Kole M, Martínez-Galdámez M, Nimjee SM, Lopes DK, Hassan AE, Kan P, Ghorbani M, **Levitt MR**, Escalard S, Missios S, Shapiro M, Clarençon F, Elhorany M, Vela-Duarte D, Tahir RA, Youssef PP, Pandey AS, Starke RM, El Naamani K, Abbas R, Hammoud B, Mansour OY, Galvan J, Billingsley JT, Mortazavi A, Walker M, Dibas M, Settecase F, Heran MKS, Kuhn AL, Puri AS, Menon BK,

Sivakumar S, Mowla A, D'Amato S, Zha AM, Cooke D, Goyal M, Wu H, Cohen J, Turkel-Parrella D, Xavier A, Waqas M, Tutino VM, Siddiqui A, Gupta G, Nanda A, Khandelwal P, Tiu C, Portela PC, Perez de la Ossa N, Urna X, de Lera M, Arenillas JF, Ribo M, Requena M, Piano M, Pero G, De Sousa K, Al-Mufti F, Hashim Z, Nayak S, Renieri L, Aziz-Sultan MA, Nguyen TN, Feineigle P, Patel AB, Siegler JE, Badih K, Grossberg JA, Saad H, Gooch MR, Herial NA, Rosenwasser RH, Tjoumakaris S, Tiwari A. Characteristics of a COVID-19 Cohort With Large Vessel Occlusion: A Multicenter International Study. *Neurosurgery*. 2022. Epub 2022/03/04. doi: 10.1227/neu.0000000000001902. PubMed PMID: 35238817.

16. **Levitt MR**, Vanent KN, Federico EM, Bass DJ, Barros G, Keen J. Response to: Correspondence

on "Nickels and tines: the myth of nickel allergy in intracranial stents" by Apostolos et al. *J Neurointerv Surg.* 2022. Epub 2022/03/04. doi: 10.1136/neurintsurg-2022-018859. PubMed PMID: 35236769.

17. *Aljuboori Z, McGrath M, Levitt M, Moe K, Chestnut R, Bonow R.* A case series of crossbow injury to the head highlighting the importance of an interdisciplinary management approach. *Surg Neurol Int.* 2022;13:60. Epub 2022/03/05. doi: 10.25259/sni_1166_2021. PubMed PMID: 35242426; PubMed Central PMCID: PMC8888290.

18. Arshad M, Odell T, Fiani B, Hadi H, Johnson E, Li C, *Ogunlade J*, Musch B, Schiraldi M. Intraoperative localization and "snowman" muscle pledget repair for ventral dural defect in a case of spontaneous intracranial hypotension. *Surg Neurol Int.* 2022;13:39. Epub 2022/03/05. doi: 10.25259/sni_1195_2021. PubMed PMID: 35242405; PubMed Central PMCID: PMC8888192.

19. **Mac Donald CL**, Barber J, Johnson A, Patterson J, **Temkin N.** Global Disability Trajectories Over the First Decade Following Combat Concussion. *J Head Trauma Rehabil.* 2022;37(2):63-70. Epub 2022/03/09. doi: 10.1097/htr.0000000000000738. PubMed PMID: 35258037; PubMed Central PMCID: PMC8908784.

20. Campagnola L, Seeman SC, Chartrand T, Kim L, Hoggarth A, Gamlin C, et al. including **Ellenbogen R, Ko AL, Ojemann JG, Silbergeld DL.** Local connectivity and synaptic dynamics in mouse and human neocortex. *Science.* 2022;375(6585):eabj5861. Epub 2022/03/11. doi: 10.1126/science.abj5861. PubMed PMID: 35271334.

21. **Barros G, Kim LJ.** Editorial. Perspective on flow diverting stents for posterior circulation aneurysms. *J Neurosurg.* 2022:1-2. Epub 2022/03/12. doi: 10.3171/2021.12.Jns212760. PubMed PMID: 35276649.

22. **Williams MA**, Nagel SJ, Golomb J, Jensen H, Dasher NA, Holubkov R, Edwards RJ, Luciano MG, Zwimpfer TJ, Katzen H, Moghekar A, Wisoff JH, McKhann GM, Hamilton MG. Safety and effectiveness of the assessment and treatment of idiopathic normal pressure hydrocephalus in the Adult Hydrocephalus Clinical Research Network. *J Neurosurg.* 2022:1-13. Epub 2022/03/12. doi: 10.3171/2022.1.Jns212782. PubMed PMID: 35276651.

23. Severs LJ, Vlemincx E, **Ramirez JM.** The psychophysiology of the sigh: I: The sigh from the physiological perspective. *Biol Psychol.* 2022;170:108313. Epub 2022/03/16. doi: 10.1016/j.biopsycho.2022.108313. PubMed PMID: 35288214.

24. Huang J, Yap N, Walter M, Green A, Smith C, Johnson J, **Saigal R.** 3D-Printed Polypyrrole Microneedle Arrays for Electronically Controlled Transdural Drug Release. *ACS Biomater Sci Eng.* 2022;8(4):1544-53. Epub 2022/03/17. doi: 10.1021/acsbiomaterials.1c01305. PubMed PMID: 35294162.

25. Yuwapattanawong K, Chanthima P, Thamjamrassri T, Keen J, Qiu Q, Fong C, Robinson EF, Dhulipala VB, Walters AM, Athiraman U, **Kim LJ**, Vavilala MS, **Levitt MR**, Lele AV. The Association Between Illness Severity Scores and In-hospital Mortality After Aneurysmal Subarachnoid Hemorrhage. *J Neurosurg Anesthesiol.* 2022. Epub 2022/03/18. doi: 10.1097/ana.0000000000000840. PubMed PMID: 35297396.

26. Chu J, Jensen H, Holubkov R, Krieger MD, Kulkarni AV, Riva-Cambrin J, Rozzelle CJ, Limbrick DD, Wellons JC, **Browd SR**, Whitehead WE, Pollack IF, Simon TD, Tamber MS, **Hauptman JS**, Pindrik J, Naftel

RP, McDonald PJ, Hankinson TC, Jackson EM, Rocque BG, Reeder R, Drake JM, Kestle JRW; Hydrocephalus Clinical Research Network. The Hydrocephalus Clinical Research Network quality improvement initiative: the role of antibiotic-impregnated catheters and vancomycin wound irrigation. *J Neurosurg Pediatr.* 2022;1-8. Epub 2022/03/19. doi: 10.3171/2022.2.Peds2214. PubMed PMID: 35303708.

27. Kals M, Kunzmann K, Parodi L, Radmanesh F, Wilson L, Izzy S, Anderson CD, Puccio AM, Okonkwo DO, **Temkin N**, Steyerberg EW, Stein MB, Manley GT, Maas AIR, Richardson S, Diaz-Arrastia R, Palotie A, Ripatti S, Rosand J, Menon DK; Genetic Associations In Neurotrauma (GAIN) Consortium (with contribution from the CENTER-TBI, TRACK-TBI, CABI, MGB, and TBIcare studies). A genome-wide association study of outcome from traumatic brain injury. *EBioMedicine.* 2022;77:103933. Epub 2022/03/19. doi: 10.1016/j.ebiom.2022.103933. PubMed PMID: 35301180; PubMed Central PMCID: PMC8927841.

28. **Bonow RH**, Vavilala MS. Disparities in neurosurgical care for traumatic brain injury. *Lancet Neurol.* 2022;21(5):398-9. Epub 2022/03/20. doi: 10.1016/s1474-4422(22)00094-1. PubMed PMID: 35305319.

29. Magnus BE, Balsis S, Giacino J, McCrea M, **Temkin N**, Whyte J, Manley GT, Nelson LD. Improving the Precision of the Glasgow Outcome Scale-Extended Using Item Response Theory: A TRACK-TBI Study. *J Neurotrauma.* 2022. Epub 2022/03/24. doi: 10.1089/neu.2021.0421. PubMed PMID: 35317604.

30. Kuo CH, Casimo K, Wu J, Collins K, Rice P, Chen BW, Yang SH, Lo YC, Novotny EJ, Weaver KE, Chen YY, **Ojemann JG**. Electrocorticography to Investigate Age-Related Brain Lateralization on Pediatric Motor Inhibition. *Front Neurol.* 2022;13:747053. Epub 2022/03/26. doi: 10.3389/fneur.2022.747053. PubMed PMID: 35330804; PubMed Central PMCID: PMC8940229.

31. Nguyen T, Sharma M, Crooks P, Patel PV, **Bonow RH**, Creutzfeldt CJ, Wahlster S. Between Scylla and Charybdis: risks of early therapeutic anticoagulation for venous thromboembolism after acute intracranial hemorrhage. *Br J Neurosurg.* 2022;1-7. Epub 2022/03/29. doi: 10.1080/02688697.2022.2054944. PubMed PMID: 35343356.

32. Vellayappan BA, Venur VA, Mayr NA, **Hofstetter CP**, Lo SS, **Amin AG**. Commentary: Spine Stereotactic Body Radiotherapy for Prostate Cancer Metastases and the Impact of Hormone Sensitivity Status on Local Control. *Neurosurgery.* 2022. Epub 2022/03/29. doi: 10.1227/neu.000000000001954. PubMed PMID: 35343465.

33. Pirozzi F, Berkseth M, Shear R, Gonzalez L, Timms AE, Sulc J, et al. including **Hauptman J**, **Ojemann J**. Profiling PI3K-AKT-MTOR variants in focal brain malformations reveals new insights for diagnostic care. *Brain.* 2022;145(3):925-38. Epub 2022/04/01. doi: 10.1093/brain/awab376. PubMed PMID: 35355055; PubMed Central PMCID: PMC9630661.

34. Hussain I, **Hofstetter CP**, Wang MY. Innovations in Spinal Endoscopy. *World Neurosurg.* 2022;160:138-48. Epub 2022/04/03. doi: 10.1016/j.wneu.2021.11.099. PubMed PMID: 35364672.

35. Eaton JC, Cole BL, Paulson V, **Goldstein HE**, **Lee A**. Chondroblastoma of the Occipital Bone With Atypical Genetic Markers: A Case Report. *Cureus.* 2022;14(2):e22451. Epub 2022/04/05. doi: 10.7759/cureus.22451. PubMed PMID: 35371803; PubMed Central PMCID: PMC8942088.

36. Volinn E, **Loeser JD**. What are the Origins of Chronic Back Pain of "Obscure Origins"? Turning Toward Family and Workplace Social Contexts. *Yale J Biol Med.* 2022;95(1):153-63. Epub 2022/04/05.

PubMed PMID: 35370485; PubMed Central PMCID: PMC8961709.

37. Siegel L, Yan H, Warsi N, Wong S, Suresh H, Weil AG, et al. including **Hauptman J**. Connectomic profiling and Vagus nerve stimulation Outcomes Study (CONNECTiVOS): a prospective observational protocol to identify biomarkers of seizure response in children and youth. *BMJ Open*. 2022;12(4):e055886. Epub 2022/04/10. doi: 10.1136/bmjopen-2021-055886. PubMed PMID: 35396292; PubMed Central PMCID: PMC8995963.
38. Nelson LD, Magnus BE, **Temkin NR**, Dikmen S, Manley GT, Balsis S. How Do Scores on the Functional Status Examination (FSE) Correspond to Scores on the Glasgow Outcome Scale-Extended (GOSE)? *Neurotrauma Rep*. 2022;3(1):122-8. Epub 2022/04/12. doi: 10.1089/neur.2021.0057. PubMed PMID: 35403101; PubMed Central PMCID: PMC8985527.
39. Massenburg BB, Shepard E, Mercan E, Nassar A, Birgfeld CB, **Lee A, Ellenbogen RG**, Hopper RA. Morphologic Differences in Sagittal Synostosis with Age before Surgery. *Plast Reconstr Surg*. 2022;149(6):1165e-75e. Epub 2022/04/13. doi: 10.1097/prs.0000000000009143. PubMed PMID: 35413045.
40. Saal-Zapata G, Rodriguez-Calienes A, Malaga M, Velasquez-Rimachi V, Moran C, Bustamante-Paytan D, et al. including **Walker M**. Microsurgical and endovascular treatment of posterior inferior cerebellar artery aneurysms: a systematic review and meta-analysis. *J Neurosurg Sci*. 2022. Epub 2022/04/14. doi: 10.23736/s0390-5616.22.05710-1. PubMed PMID: 35416457.
41. Durnford AJ, Akarca D, Culliford D, Millar J, Guniganti R, Giordan E, et al. including Abecassis JJ, **Levitt M, Kim L, Meyer RM**. Risk of Early Versus Later Rebleeding From Dural Arteriovenous Fistulas With Cortical Venous Drainage. *Stroke*. 2022;53(7):2340-5. Epub 2022/04/15. doi: 10.1161/strokeaha.121.036450. PubMed PMID: 35420453; PubMed Central PMCID: PMC9232241.
42. Akbari SHA, Yahanda AT, Ackerman LL, Adelson PD, Ahmed R, Albert GW, et al. including **Ellenbogen RG**. Complications and outcomes of posterior fossa decompression with duraplasty versus without duraplasty for pediatric patients with Chiari malformation type I and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2022:1-13. Epub 2022/04/16. doi: 10.3171/2022.2.Peds21446. PubMed PMID: 35426814.
43. Malloy JR, Nistal D, Heyne M, Tardif MC, Bohland JW. Delayed Auditory Feedback Elicits Specific Patterns of Serial Order Errors in a Paced Syllable Sequence Production Task. *J Speech Lang Hear Res*. 2022;65(5):1800-21. Epub 2022/04/21. doi: 10.1044/2022_jslhr-21-00427. PubMed PMID: 35442719.
44. Arynchyna-Smith A, Rozzelle CJ, Jensen H, Reeder RW, Kulkarni AV, Pollack IF, et al. including **Hauptman JS**. Endoscopic third ventriculostomy revision after failure of initial endoscopic third ventriculostomy and choroid plexus cauterization. *J Neurosurg Pediatr*. 2022:1-10. Epub 2022/04/23. doi: 10.3171/2022.3.Peds224. PubMed PMID: 35453104; PubMed Central PMCID: PMC9587128.
45. Sivakanthan S, Feroze A, Eaton J, Saigal R. Three Column Cervical Fracture-Dislocation in a 3-Year-Old Boy. *Cureus*. 2022;14(3):e23213. Epub 2022/04/23. doi: 10.7759/cureus.23213. PubMed PMID: 35449661; PubMed Central PMCID: PMC9012570.
46. Pease M, Arefan D, Barber J, Yuh E, Puccio A, Hochberger K, et al. including **Temkin N**. Outcome Prediction in Patients with Severe Traumatic Brain Injury Using Deep Learning from Head CT Scans. *Radiology*. 2022;304(2):385-94. Epub 2022/04/27. doi: 10.1148/radiol.212181. PubMed PMID: 35471108; PubMed Central PMCID: PMC9340242.

47. Sofoluke N, Barber SM, Telfeian AE, **Hofstetter CP**, Konakondla S. The Role of the Endoscope in Spinal Oncology: A Systematic Review of Applications and Systematic Analysis of Patient Outcomes. *World Neurosurg.* 2022;164:33-40. Epub 2022/04/29. doi: 10.1016/j.wneu.2022.04.072. PubMed PMID: 35483572.
48. Ohlsen TJD, Scanlon S, Perez FA, Ermoian RP, Paulson VA, **Hauptman JS**, et al. Synchronous rare tumors in a pediatric patient with a de novo cancer predisposition syndrome. *Pediatr Blood Cancer.* 2022;69(11):e29746. Epub 2022/04/30. doi: 10.1002/pbc.29746. PubMed PMID: 35484874.
49. Barkley AS, Sullivan LT, Gibson AW, Zalewski K, **Mac Donald CL**, Barber JK, Hakimian S, **Ko AL**, **Ojemann JG**, **Hauptman JS**. Acute Postoperative Seizures and Engel Class Outcome at 1 Year Postselective Laser Amygdalohippocampal Ablation for Mesial Temporal Lobe Epilepsy. *Neurosurgery.* 2022;91(2):347-54. Epub 2022/05/05. doi: 10.1227/neu.0000000000002023. PubMed PMID: 35506941.
50. Bruce M, DeWees D, Harmon J, Cates L, **Khaing ZZ**, **Hofstetter CP**. Blood Flow Changes Associated with Spinal Cord Injury Assessed by Non-linear Doppler Contrast-Enhanced Ultrasound. *Ultrasound Med Biol.* 2022;48(8):1410-9. Epub 2022/05/07. doi: 10.1016/j.ultrasmedbio.2022.03.004. PubMed PMID: 35523621; PubMed Central PMCID: PMC9704544.
51. Sarrami AH, Bass DJ, Rutman AM, Alexander MD, Aksakal M, Zhu C, **Levitt MR**, Mossa-Basha M. Idiopathic intracranial hypertension imaging approaches and the implications in patient management. *Br J Radiol.* 2022;95(1136):20220136. Epub 2022/05/07. doi: 10.1259/bjr.20220136. PubMed PMID: 35522777.
52. Liu Y, Silva RML, Friedrich JB, Kao DS, **Mourad PD**, Bunnell AE. Surface Electromyography-Driven Therapeutic Gaming for Rehabilitation of Upper Extremity Weakness: A Pilot Study. *Plast Reconstr Surg.* 2022;150(1):125-31. Epub 2022/05/12. doi: 10.1097/prs.0000000000009208. PubMed PMID: 35544314; PubMed Central PMCID: PMC9246860.
53. **Levitt MR**, Barros G. The way out is through. *J Neurointerv Surg.* 2022;14(6):527. Epub 2022/05/15. doi: 10.1136/neurintsurg-2022-019088. PubMed PMID: 35568485.
54. Palacios EM, Yuh EL, **Mac Donald CL**, Bourla I, Wren-Jarvis J, Sun X, et al. including **Temkin N**, **Chesnut R**, **Ellenbogen RG**. Diffusion Tensor Imaging Reveals Elevated Diffusivity of White Matter Microstructure that Is Independently Associated with Long-Term Outcome after Mild Traumatic Brain Injury: A TRACK-TBI Study. *J Neurotrauma.* 2022;39(19-20):1318-28. Epub 2022/05/18. doi: 10.1089/neu.2021.0408. PubMed PMID: 35579949; PubMed Central PMCID: PMC9529303.
55. Wei AD, Wakenight P, Zwingman TA, Bard AM, Sahai N, Willemsen MH, et al. including **Ramirez JM**, **Kalume FK**. Human KCNQ5 de novo mutations underlie epilepsy and intellectual disability. *J Neurophysiol.* 2022;128(1):40-61. Epub 2022/05/19. doi: 10.1152/jn.00509.2021. PubMed PMID: 35583973; PubMed Central PMCID: PMC9236882.
56. Koch MJ, Duy PQ, **Grannan BL**, Patel AB, Raymond SB, Agarwalla PK, et al. Angiographic Pulse Wave Coherence in the Human Brain. *Front Bioeng Biotechnol.* 2022;10:873530. Epub 2022/05/21. doi: 10.3389/fbioe.2022.873530. PubMed PMID: 35592552; PubMed Central PMCID: PMC9110661.
57. Meyfroidt G, Bouzat P, Casaer MP, **Chesnut R**, Hamada SR, Helbok R, et al. Management of moderate to severe traumatic brain injury: an update for the intensivist. *Intensive Care Med.* 2022;48(6):649-66. Epub 2022/05/21. doi: 10.1007/s00134-022-06702-4. PubMed PMID: 35595999.

58. Toro C, Hatfield J, **Temkin N**, Barber J, Manley G, Ohnuma T, et al. Risk Factors and Neurological Outcomes Associated With Circulatory Shock After Moderate-Severe Traumatic Brain Injury: A TRACK-TBI Study. *Neurosurgery*. 2022;91(3):427-36. Epub 2022/05/21. doi: 10.1227/neu.0000000000002042. PubMed PMID: 35593705.
59. Barros G, Sen RD, McGrath M, Nistal D, **Sekhar LN**, **Kim LJ**, **Levitt MR**. Frailty Predicts Postoperative Functional Outcomes After Microsurgical Resection of Ruptured Brain Arteriovenous Malformations in Older Patients. *World Neurosurg*. 2022;164:e844-e51. Epub 2022/05/24. doi: 10.1016/j.wneu.2022.05.055. PubMed PMID: 35605939.
60. Lamba N, McAvoy M, Kavouridis VK, Smith TR, Touat M, Reardon DA, et al. Short-term outcomes associated with temozolomide or PCV chemotherapy for 1p/19q-codeleted WHO grade 3 oligodendrogliomas: A national evaluation. *Neurooncol Pract*. 2022;9(3):201-7. Epub 2022/05/24. doi: 10.1093/nop/npac004. PubMed PMID: 35601971; PubMed Central PMCID: PMC9113268.
61. Edlow BL, Bodien YG, Baxter T, Belanger HG, Cali RJ, Deary KB, et al. including **Mac Donald CL**. Long-Term Effects of Repeated Blast Exposure in United States Special Operations Forces Personnel: A Pilot Study Protocol. *J Neurotrauma*. 2022;39(19-20):1391-407. Epub 2022/05/28. doi: 10.1089/neu.2022.0030. PubMed PMID: 35620901; PubMed Central PMCID: PMC9529318.
62. Morris RS, Figueroa JF, Pokrzywa CJ, Barber JK, **Temkin NR**, Bergner C, et al. Predicting outcomes after traumatic brain injury: A novel hospital prediction model for a patient reported outcome. *Am J Surg*. 2022;224(4):1150-5. Epub 2022/06/01. doi: 10.1016/j.amjsurg.2022.05.016. PubMed PMID: 35637020.
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