

**Department of Neurological Surgery Publications
University of Washington, Seattle WA**

2026 **Faculty, Fellow, and Resident**

Peer Reviewed: 41 as of April 1, 2026

Book Chapters: 0 as of April 1, 2026

PEER REVIEWED PUBLICATIONS

2026 Q1 January - March

1. Abecassis, Z. A., Nistal, D., Basner, L., Berrigan, R., Sedwick, J., Howell, G., Rosiene, J., McAvoy, M., **Chen, S. H.**, Francis, C. E., & **Levitt, M. R.** (2026). Long-term visual outcomes after surgical management for intracranial idiopathic hypertension. *Neurosurgical focus*, 60(1), E14. <https://doi.org/10.3171/2025.10.FOCUS25862>
2. Salim, H. A., Scarcia, L., Clarençon, F., Hajjeh, O., Daraghma, M., Simonato, D., Li, Y. L., Shotar, E., Premat, K., Jabbour, P., Tjoumakaris, S. I., Gooch, R. M., Psychogios, M., Ntoulas, N., Sporns, P., Puri, A. S., Singh, J., Kuhn, A. L., Hassan, A. E., Algin, O., ... **Levitt, M.R.**, Abecassis, Z.A., ... Creta Investigators (2026). Comparative safety, efficacy, and predictors of complete occlusion of flow diverter devices in the treatment of unruptured distal anterior cerebral artery aneurysms. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology*, 47(3), 270. <https://doi.org/10.1007/s10072-026-08869-w>
3. Nistal, D., Buckley, R., Boop, S., **Goldstein, H. E.**, **Ojemann, J. G.**, **Ellenbogen, R. G.**, & **Hauptman, J. S.** (2026). Hemispherectomy in infants: an institutional experience with 21 patients. *Journal of neurosurgery. Pediatrics*, 37(3), 220–226. <https://doi.org/10.3171/2025.9.PEDS25241>
4. Mendlen, M., Tien, R. N., Chee, K., Platt, J. P., Machnik, J., Bayman, E., Anigbogu, C., Kern, D., Ojemann, S. G., Thompson, J. A., & Kramer, D. R. (2026). Action tremor kinematics exhibit features of stabilization dysfunction in essential tremor patients. *Journal of neuroscience methods*, 428, 110680. <https://doi.org/10.1016/j.jneumeth.2026.110680>
5. Eaton, J. C., Swaminathan, S., El-Ghazali, F. M., **Ruzevick, J. J.**, **Emerson, S. N.**, Perlman, J. E., Paredes, O. L., Saurowitz, S., Hanks, T., Raub, S., Hiatt, K., Lassitter, E., Tucker, M., Moe, K., Francis, C. E., Failor, R. A., Desantis, A., Gonzalez-Cuyar, L. F., Weaver, K., Wisse, B., ... **Ferreira, M., Jr** (2026). Tumor characteristics and clinical outcomes in 113 patients with acromegaly: exploratory analysis of the role of histologic invasion of adjacent tissues. *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*, 143, 111771. <https://doi.org/10.1016/j.jocn.2025.111771>
6. Hutchinson, H. J., Lewis, D. B., DeYoung, C. L., Ordway, N. L., Rucks, C., Dagra, A., Negoita, S., McMahon, S., Amini, S., & Pizzi, M. A. (2026). Hourly Neurological Examinations After Nontraumatic, Vascular Acute Brain Injury Associated With Delirium: A Retrospective Cohort Study. *Neurosurgery*, 10.1227/neu.0000000000004011. Advance online publication. <https://doi.org/10.1227/neu.0000000000004011>
7. Gomez-Paz, S., Richter, K., McGrath, M., Breton, J. M., Wakelin, S. H., Christie, I., Pasko, K. B. D., Aljuboori, A., Hendrix, P., Weiner, G. M., Slee, B., Duckworth, E. A. M., Burkhardt, J. K., Srinivasan, V. M., Jankowitz, B. T., Snyder, T., **Levitt, M. R.**, Armonda, R., Felbaum, D. R., Ares, W. J., ... Grandhi, R.

(2026). Single-Session Middle Meningeal Artery Embolization With Concomitant Evacuation Surgery for Chronic Subdural Hematomas: A Multicenter Assessment of Feasibility, Safety, and Efficacy. *Operative neurosurgery (Hagerstown, Md.)*, 30(2), 270–277. <https://doi.org/10.1227/ons.0000000000001686>

8. Sen, R. D., McGrath, M. C., Shenoy, V. S., Meyer, R. M., Park, C., Fong, C. T., Lele, A. V., **Kim, L. J., Levitt, M. R.**, Wang, L. L., & **Sekhar, L. N.** (2026). A Dynamic Machine Learning Model to Predict Angiographic Vasospasm After Aneurysmal Subarachnoid Hemorrhage. *Neurosurgery*, 98(3), 624–631. <https://doi.org/10.1227/neu.0000000000003639>

9. Maldonado, R., Teske, T., Salih, Y. A., **Bonow, R. H.**, Lele, A. V., & Wahlster, S. (2026). Acute-on-Chronic Hydrocephalus With Transependymal Flow Extending to the Brainstem. *Neurology*, 106(4), e214642. <https://doi.org/10.1212/WNL.00000000000214642>

10. Greil, M. E., Barber, J. K., **Temkin, N. R., Bonow, R. H.**, Manley, G. T., Foreman, B., **Chesnut, R. M., & TRACK-TBI Investigators** (2026). External Ventricular Drain Versus Intraparenchymal Pressure Monitor in Severe Traumatic Brain Injury: A TRACK-TBI Study. *Neurosurgery*, 98(1), 115–126. <https://doi.org/10.1227/neu.0000000000003594>

11. Ravindra, V. M., Kestle, J. R. W., Jensen, H., Kulkarni, A. V., Limbrick, D. D., Jr, Stanton, A., Wellons, J. C., 3rd, Naftel, R. P., Rozzelle, C. J., Rocque, B. G., Pollack, I. F., Tamber, M. S., **Browd, S. R.**, Pindrik, J., Isaacs, A. M., McDonald, P. J., Hankinson, T. C., Jackson, E. M., Krieger, M. D., Simon, T. D., ... Hydrocephalus Clinical Research Network (2026). Necrotizing Enterocolitis and Shunt Survival in Premature Infants with Posthemorrhagic Hydrocephalus: A Hydrocephalus Clinical Research Network Study. *The Journal of pediatrics*, 291, 114985. <https://doi.org/10.1016/j.jpeds.2026.114985>

12. Do, O. A., Huang, L. C., Tam, L. T., Raub, S., Ermoian, R. P., Leary, S. E. S., Werny, D. M., **Ellenbogen, R. G., Emerson, S., Ferreira, M., Lee, A., Ruzevick, J. J.**, & Ronsley, R. J. (2026). Postoperative Visual Outcomes in Pediatric Craniopharyngioma: A Comparison of Endoscopic Endonasal and Transcranial Approaches. *Journal of pediatric hematology/oncology*, 48(4), 185–190. <https://doi.org/10.1097/MPH.0000000000003195>

13. Radaelli, C., Schmitz, M., Liu, X. P., Sawchuk, S., Opitz-Araya, X., Hudson, M., Taskin, N., Bertagnolli, D., Goldy, J., **Ko, A. L., Grannan, B. L., Hauptman, J. S.**, Patel, A. P., Cobbs, C., Smith, K. A., Spain, W. J., Lein, E. S., Bakken, T., Dembrow, N. C., Ting, J. T., ... Kalmbach, B. E. (2026). HCN channels reveal conserved and divergent physiology in supragranular pyramidal neurons in primate species. *Communications biology*, 9(1), 279. <https://doi.org/10.1038/s42003-026-09558-2>

14. Paturu, M., Woo, J., Saguira, K., Huie, D., **Hofstetter, C.**, & Abd-El-Barr, M. M. (2026). Radiographic and clinical predictors of surgical outcomes following endoscopic decompression for radiculopathy in adult degenerative scoliosis: A multi-center retrospective study. *Brain & spine*, 6, 105990. <https://doi.org/10.1016/j.bas.2026.105990>

15. Bartlett, A. M., Robertson, F. C., Shaker, E., Than, K. D., Godzik, J., **Hofstetter, C. P.**, Pollina, J., Shin, J. H., Urakov, T., Fessler, R. G., & Abd-El-Barr, M. M. (2026). Disruptive technologies in spine surgery: current trends, outcomes, and ethical implications. *Journal of neurosurgery. Spine*, 1–13. Advance online publication. <https://doi.org/10.3171/2025.10.SPINE25999>

16. Bokhari, R., Bakhaidar, M., Alnaseem, A., Bajunaid, K., Aljohani, O., Alwadai, M., Shabani, S., Navarro-Ramirez, R., **Hofstetter, C. P.**, & Abd-El-Barr, M. (2026). Lumbar Foraminal Morphology Can Affect Outcomes of Indirect Decompression: A Systematic Review and Novel Classification. *Global spine journal*, 21925682261416421. Advance online publication. <https://doi.org/10.1177/21925682261416421>
17. Hudson, M., Esposito, S., Zaki, M. M., Glynn, S. M., Kashlan, O. N., Ogunlade, J., Krishna, C., Bakhsheshian, J., & **Hofstetter, C. P.** (2026). Intraoperative Neurophysiological Monitoring in Full-Endoscopic Cervical Endoscopic ULBD. *Journal of clinical medicine*, 15(1), 327. <https://doi.org/10.3390/jcm15010327>
18. Lim, J. K., Raza, M., Lim, D. H., Kim, S., Breton, J. M., Zhao, D., Kim, P., Nair, M. N., **Hofstetter, C. P.**, & Rim, B. C. (2026). Comparative Study on Clinical Outcomes of Posterior Endoscopic Cervical Foraminotomy under Local Anesthesia with Conscious Sedation and General Anesthesia. *Journal of Korean Neurosurgical Society*, 69(1), 81–91. <https://doi.org/10.3340/jkns.2024.0229>
19. Monteiro, A., Jaikumar, V., Lim, J., Kuo, C. C., **Kim, L. J.**, **Levitt, M. R.**, Barros, G., Boulos, A. S., Paul, A. R., Hanel, R. A., Sauvageau, E., Cortez, G. M., Benalia, V. H. C., Nickle, C., Johnson, K., Jabbour, P. M., El Naamani, K., Schirmer, C. M., Haussen, D. C., Grossberg, J. A., ... Siddiqui, A. H. (2026). Endovascular and Microsurgical Treatment for Middle Cerebral Artery Bifurcation Aneurysms: Experience From 10 High-Volume United States Cerebrovascular Centers. *Neurosurgery*, 10.1227/neu.0000000000003967. Advance online publication. <https://doi.org/10.1227/neu.0000000000003967>
20. Salem, M. M., Helal, A., Gajjar, A. A., Sioutas, G., El Naamani, K., Heiferman, D. M., Lylyk, I., Levine, A., Renieri, L., Monteiro, A., Salih, M., Abbas, R., Abdelsalam, A., Desai, S., Saber, H., Catapano, J. S., Borg, N., Lanzino, G., Brinjikji, W., Tanweer, O., ..., **Kim, L.J.**, **Levitt, M.R.**,... Burkhardt, J. K. (2026). Multicenter analysis of flow diversion for recurrent/persistent intracranial aneurysms after stent-assisted coiling. *Journal of neurointerventional surgery*, 18(2), 324–331. <https://doi.org/10.1136/jnis-2024-022422>
21. Ronsley, R., Choe, M., Wright, J., Seidel, K., **Lee, A.**, Wendler, J., Annesley, C., Jensen, M. C., Park, J. R., Vitanza, N. A., & Gust, J. (2025). Tumor inflammation-associated neurotoxicity in children with diffuse intrinsic pontine glioma receiving B7-H3-targeting CAR T cells on BrainChild-03. *Neuro-oncology practice*, 13(1), 105–111. <https://doi.org/10.1093/nop/npaf080>
22. Burks, J. D., Abdelsalam, A., Luther, E. M., Christopher, K. M., Silva, M. A., Jabbour, P., Al Kasab, S., **Levitt, M. R.**, Sanikommu, S., Abla, A. A., Kan, P., Arthur, A. S., Osbun, J. W., Park, M. S., Chalouhi, N., Eatz, T., Sweid, A., Wolfe, S. Q., Spiotta, A. M., Fargen, K. M., ... Starke, R. M. (2026). Predictors of Intracranial Aneurysm Residual Filling After Treatment With Flow Diversion at Early Follow-up: A Multicenter Experience of 2277 Patients. *Neurosurgery*, 98(1), 239–245. <https://doi.org/10.1227/neu.0000000000003747>
23. Kniep, H., Gellissen, S., Bechstein, M., Meyer, L., Broocks, G., Heitkamp, C., Winkelmeier, L., Flottmann, F., Geest, V., Hanning, U., Thaler, C., Bester, M., Davies, J. M., Knopman, J., Mokin, M., Hassan, A. E., Harbaugh, R. E., Khalessi, A., Siddiqui, A. H., Gross, B. A., ..., **Levitt, M.R.**, ... EMBOLISE Investigators (2026). Middle Meningeal Artery Embolization for Subdural Hematoma: CT/MRI End

Points of the EMBOLISE Trial. *Radiology*, 318(1), e251746. <https://doi.org/10.1148/radiol.251746>

24. Gaub, M., Abo Kasem, R., Maier, I., Rai, A., Jabbour, P., Kim, J. T., Howard, B., Alawieh, A., Wolfe, S. Q., Starke, R. M., Psychogios, M. N., Shaban, A., Goyal, N., Dye, J., Alaraj, A., Ezzeldin, M., Yoshimura, S., Fiorella, D., Tanweer, O., Romano, D. G., ... , **Levitt, M.R.**, ... Mascitelli, J. (2026). Frontline aspiration versus stent retriever thrombectomy for M2 occlusions: Insights from the STAR registry. *European stroke journal*, 11(1), 23969873251381924. <https://doi.org/10.1093/esj/23969873251381924>

25. Chen, H., Colasurdo, M., Matsukawa, H., Cunningham, C., Maier, I., Al Kasab, S., Jabbour, P., Kim, J. T., Wolfe, S. Q., Rai, A., Starke, R. M., Psychogios, M. N., Samaniego, E. A., Goyal, N., Yoshimura, S., Cuellar, H., Grossberg, J. A., Alawieh, A., Alaraj, A., Ezzeldin, M., ..., **Levitt, M.R.**, ... Kan, P. (2026). Conventional versus advanced imaging selection for endovascular treatment of basilar artery occlusion strokes. *European stroke journal*, 11(1), 23969873251364973. <https://doi.org/10.1093/esj/23969873251364973>

26. Zheng, K., Mo, S., Wen, Z., Li, J., Miao, Z., Lu, X., He, H., Cao, Y., Zhao, B., **Levitt, M. R.**, Chen, L., Wang, S., Zhu, C., & Liu, Q. (2026). Enhanced versus standard blood pressure lowering on intracranial aneurysm rupture or growth (ChATIA-1 trial): protocol for a multi-centered, prospective, open-label randomized controlled trial. *Frontiers in neurology*, 16, 1627936. <https://doi.org/10.3389/fneur.2025.1627936>

27. Ezzeldin, M., Hukamdad, M., Abo Kasem, R., Ezzeldin, R., Maier, I., Rai, A. T., Jabbour, P., Kim, J. T., Howard, B. M., Alawieh, A., Wolfe, S. Q., Starke, R. M., Psychogios, M. N., Shaban, A., Goyal, N., Dye, J., Alaraj, A., Yoshimura, S., Fiorella, D., Tanweer, O., ..., **Levitt, M.R.**, ... Spiotta, A. M. (2026). Comparative efficacy and safety of stent retrievers as a bailout strategy following failed contact aspiration technique in acute stroke thrombectomy. *Journal of neurointerventional surgery*, 18(2), 390–398. <https://doi.org/10.1136/jnis-2024-022781>

28. Tian, K., Chang, Z., Yang, Y., Liu, P., Mossa-Basha, M., **Levitt, M.R.**, Zhai, D., Liu, D., Li, H., Liu, Y., Zhang, J., Cao, C., Zhu, C., Jiang, P., Liu, Q., He, H., & Xia, Y. (2026). CTA-based deep-learning integrated model for identifying irregular shape and aneurysm size of unruptured intracranial aneurysms. *Journal of neurointerventional surgery*, 18(2), 540–546. <https://doi.org/10.1136/jnis-2024-022784>

29. Walker, M., **Levitt, M. R.**, Federico, E. M., Miralles, F. J., Levy, S. H., Lynne Prijoles, K., Winter, A., Swicord, J. K., & Sancak, Y. (2026). Autologous mitochondrial transplant for acute cerebral ischemia: Phase 1 trial results and review. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 46(2), 322–332. <https://doi.org/10.1177/0271678X241305230>

30. Miralles, F. J., Prijoles, K. L., Winter, A., **Levitt, M. R.**, Sancak, Y., & Walker, M. (2026). Periprocedural therapeutics do not impair extracellular mitochondrial viability in transplantation. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 46(2), 350–358. <https://doi.org/10.1177/0271678X251340232>

31. Pressman, E., Vakharia, K., Guerrero, W. R., Sowlat, M. M., Schimmel, S., Maier, I., Raai, A., Jabbour, P., Kim, J. T., Grossberg, J. A., Alawieh, A., Wolfe, S. Q., Stark, R. M., Psychogios, M. N.,

- Samaniego, E. A., Goyal, N., Dye, J., Alaraj, A., Yoshimura, S., Ezzeldin, M., ..., **Levitt, M.R.**, ... STAR (2026). Hurting More Than Helping? Decompressive Craniectomy in Patients With Symptomatic Intracerebral Hemorrhage After Mechanical Thrombectomy in Acute Ischemic Stroke: Insights From Stroke Thrombectomy and Aneurysm Registry. *Neurosurgery*, *98*(2), 345–357. <https://doi.org/10.1227/neu.0000000000003563>
32. Mosallami Aghili, S. M., **Levitt, M. R.**, Hirsch, J. A., Arthur, A. S., & Fiorella, D. (2026). Anesthesia and thrombectomy: updated meta-analysis of randomized controlled trials. *Journal of neurointerventional surgery*, jnis-2025-024743. Advance online publication. <https://doi.org/10.1136/jnis-2025-024743>
33. Mosi, M. H., Kharaji, M., Aksakal, M., Zhang, K., Watt, C., Cheng, D., **Levitt, M. R.**, Canton, G., Yuan, C., Balu, N., & Mossa-Basha, M. (2026). Quantitative MRA Feature Prediction of Post-Aneurysmal Subarachnoid Hemorrhage Delayed Cerebral Ischemia and Angiographic Vasospasm. *AJNR. American journal of neuroradiology*, ajnr.A9303. Advance online publication. <https://doi.org/10.3174/ajnr.A9303>
34. Findlay, M. C., Gandhoke, G. S., Davies, J. M., Knopman, J., Smith, K. J., Mokin, M., Hassan, A. E., Harbaugh, R. E., Khalessi, A., Fiehler, J., Gross, B. A., Tarpley, J. W., Sivakumar, W., Bain, M., Crowley, R. W., Link, T. W., Fraser, J. F., **Levitt, M. R.**, Chen, P. R., Hanel, R. A., ... EMBOLISE Investigators (2026). Cost-Effectiveness of Adjunctive Middle Meningeal Artery Embolization for Chronic Subdural Hematoma: Secondary Analysis of EMBOLISE. *AJNR. American journal of neuroradiology*, ajnr.A9319. Advance online publication. <https://doi.org/10.3174/ajnr.A9319>
35. Young, M. J., Tramazzo, J. C., McKinney, I. R., Gilmore, N., Hu, C. G., Ditzel, R. M., Jr, Modlin, R. E., McNamara, C., Bonvie, J., Tromly, S. L., Jewell, J. A., Mucciarone, J. J., **Mac Donald, C. L.**, Dams-O'Connor, K., Bodien, Y. G., & Edlow, B. L. (2026). Sharing Clinically Relevant Research Results with Active-Duty Special Operations Forces: Toward an Ethical Framework for Responsible Disclosure. *Journal of neurotrauma*, *43*(5-6), 412–428. <https://doi.org/10.1177/08977151251398056>
36. Tseng, C. J., Guo, J., Gilmore, N., Greve, D. N., McKinney, I. R., Healy, B. C., Tromly, S. L., Dams-O'Connor, K., **Mac Donald, C. L.**, Perl, D. P., Hooker, J. M., Bodien, Y. G., Edlow, B. L., Kimberly, W. T., & Zürcher, N. R. (2026). Tau biomarkers in Special Operations Forces with repeated blast exposure: a cross-sectional study. *Brain communications*, *8*(2), fcag061. <https://doi.org/10.1093/braincomms/fcag061>
37. Sytsma, K., Mittenzwei, R., Maioli, H., Kirkland, A., Keene, C. D., Diaz-Arrastia, R., **Mac Donald, C.**, Maffei, C., Edlow, B. L., & Nolan, A. L. (2026). Traumatic Microhemorrhages Are Not Synonymous With Axonal Injury. *Annals of clinical and translational neurology*, *10*.1002/acn3.70309. Advance online publication. <https://doi.org/10.1002/acn3.70309>
38. Maia, O. A. C., Oliveira, L. M., **Ramirez, J. M.**, Takakura, A. C., & Moreira, T. S. (2026). Tachykinergic signaling mediated by NK1 receptors in the respiratory parafacial region drives respiratory output and contributes to the chemoreflex response to CO₂. *Pflugers Archiv : European journal of physiology*, *478*(2), 20. <https://doi.org/10.1007/s00424-025-03147-8>
39. Nelson, L. D., Simons, M. U., Jain, S., Sun, X., Choi, K., **Temkin, N.**, Diaz-Arrastia, R., Gardner, R., Taylor, S., Manley, G. T., & Stein, M. B. (2026). Role of Polygenic Risk Scores in Predicting Cognitive

Functioning after Mild Traumatic Brain Injury: A TRACK-TBI Study. *Journal of neurotrauma*, 8977151261432398. Advance online publication. <https://doi.org/10.1177/08977151261432398>

40. Gray, S., Amadon, G., **Temkin, N.**, Darsie, M., Giacino, J. T., Corrigan, J. D., Korley, F., Whyte, J., Stein, M. B., Manley, G. T., McCrea, M. A., & Nelson, L. D. (2026). Use of In-Hospital Mild Traumatic Brain Injury Symptom Checklist Within 24 Hours of Injury to Predict 3-Month Symptom Outcome. *The Journal of emergency medicine*, 80, 211–219. <https://doi.org/10.1016/j.jemermed.2025.10.008>

41. Luciano, M. G., **Williams, M. A.**, & Hamilton, M. G. (2026). Shunting for Idiopathic Normal-Pressure Hydrocephalus. Reply. *The New England journal of medicine*, 394(10), 1034–1035. <https://doi.org/10.1056/NEJMc2600201>