

Department of Neurology

Recent Publications

[Machado, N.L.S., Lynch, N., Costa, L.H.A. et al. Preoptic EP3R neurons constitute a two-way switch for fever and torpor. *Nature* \(2025\). <https://doi.org/10.1038/s41586-025-09056-1>](https://doi.org/10.1038/s41586-025-09056-1)

[Goldenholz DM, Goldenholz SR, Habib S, Westover MB. Inductive reasoning with large language models: A simulated randomized controlled trial for epilepsy. *Epilepsy Res.* 2025 Mar;211:107532. doi: 10.1016/j.eplepsyres.2025.107532. Epub 2025 Feb 24. PMID: 40020525; PMCID: PMC11908886.](https://doi.org/10.1016/j.eplepsyres.2025.107532)

[Cheng JC, Goldenholz DM. *Seizure prediction and forecasting: a scoping review.* *Curr Opin Neurol.* 2025 Apr 1;38\(2\):135–139. doi: 10.1097/WCO.0000000000001344. Epub 2025 Jan 20. PMID: 39831588](https://doi.org/10.1097/WCO.0000000000001344)

[Alkofer M, Yang C, Ganglberger W, Beal J, Hegde M, Kang JY, Yoo JY, Gelfand MA, Thio LL, Kutluay E, Campbell Z, Schmitt S, Gleichgerrcht E, Waterhouse E, Lopez MR, Eisenschenk S, Galanti M, Singh RK, Wills KE, Meulenbrugge EJ, Dlugos D, Dean B, Halford JJ, Goldenholz D, Jing J, Thomas R, Westover MB. *Automated detection of interictal epileptiform discharges with few electroencephalographic channels.* *Epilepsia.* 2025 May 3. doi: 10.1111/epi.18431. PMID: 40317534](https://doi.org/10.1111/epi.18431)

[Henry C, Creasey M, Cannon L, Terman SW, Goldenholz D. *Increased seizure frequency graphs in medication trials: FDA labels vs. peer-review.* *Seizure.* 2025 Jun 1;131:29–34. doi: 10.1016/j.seizure.2025.05.021. PMID: 40480038](https://doi.org/10.1016/j.seizure.2025.05.021)

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[Sun C, Jing J, Turley N, Alcott C, Kang WY, Cole AJ, Goldenholz DM, Lam A, Amorim E, Chu C, Cash S, Junior VM, Gupta A, Ghanta M, Nearing B, Nascimento FA, Struck A, Kim J, Sartipi S, Tauton AM, Fernandes M, Sun H, Bayas G, Gallagher K, Wagenaar JB, Sinha N, Lee-Messer C, Silvers CT, Gunapati B, Rosand J, Peters J, Loddenkemper T, Lee JW, Zafar S, Westover MB. *Harvard Electroencephalography Database: A comprehensive clinical electroencephalographic resource from four Boston hospitals*. Epilepsia. 2025 Jun 4. doi: 10.1111/epi.18487. PMID: 40464151](#)

[Goldenholz DM, Cheng JC, Chang CY, Moss R, Westover MB. *Does missing medication acutely change seizure risk? A prospective study*. medRxiv \[Preprint\]. 2025 Jun 7. doi: 10.1101/2025.06.06.25329144. PMID: 40502567](#)

[Dave, J., Hakkinen, I., & Zhang, P. \(2024\). Comprehensive list of preventative migraine headache medications without significant drug–drug interactions. *Frontiers in Neurology*, 15, 1527897. <https://doi.org/10.3389/fneur.2024.1527897>](#)