Stanford



Ann Hyslop Segeren

Clinical Associate Professor, Pediatric Neurology

CLINICAL OFFICE (PRIMARY)

- **Child Neurology**

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Bio

CLINICAL FOCUS

- Neurology with Special Qualifications in Child Neurology
- epilepsy surgery
- neuromodulation for drug-resistant epilepsy

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatric Neurology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Neurology with Special Qualifications in Child Neurology, American Board of Psychiatry and Neurology (2010)
- Board Certification: Epilepsy, American Board of Clinical Neurophysiology (2015)
- Board Certification: Clinical Neurophysiology, American Board of Psychiatry and Neurology (2019)
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2016)
- Fellowship: Miami Children's Hospital (2011) FL
- Residency: University of Washington Dept of Neurology (2010) WA
- Residency: Icahn School of Medicine at Mount Sinai Pediatric Residency (2007) NY
- Medical Education: The University of Texas Medical School at Houston (2005) TX

Research & Scholarship

CLINICAL TRIALS

- A Phase 3, Placebo-Controlled Study to Investigate LP352 in Children and Adults With Dravet Syndrome (DS), Recruiting

Publications

PUBLICATIONS

- **Epilepsy outcomes following single and repeat epilepsy surgeries in tuberous sclerosis complex.** *Epilepsia*
  Valdrighi, A., Pearsson, K., Peters, J., McPherson, T., Li, Y., Hyslop, A., Gan, Y., Nageeb, G., Phillips, H. W., Buch, V., Mahaney, K., Prolo, L., Porter, et al
  2026

- **Utility of repeat stereotactic EEG in pediatric patients with tuberous sclerosis.** *Epilepsia open*
  Uchitel, J., Fariyike, O., Steeman, S., Rockwood, S., Kim, L. H., Choi, J., Hengartner, A. C., Fel, A. H., Teeyagura, P., Grant, G., Buch, V., Mahaney, K. B., Prolo, et al
  2026

- **Outcomes of Early-Life Focal Cortical Dysplasia-Related Epilepsy: A PERC Surgery Study.** *Neurology. Clinical practice*
  Cohen, N. T., Depositario-Cabacar, D. F., Oluigbo, C. O., Ostendorf, A. P., Wong-Kisiel, L., Fedak Romanowski, E., McNamara, N. A., Tatachar, P., Eschbach, K., Alexander, A. L., Pichon, P. D., Ciliberto, M. A., Gonzalez-Giraldo, et al
  2025; 15 (6): e200539

- **Supraorbital craniotomy for focal frontal epilepsy via eyebrow incision and guided by in situ stereo-EEG electrodes: illustrative case.** *Journal of neurosurgery. Case lessons*
  Ravi, K., Huang, Y., Fariyike, O. A., Uchitel, J., Wu, A. Y., Hyslop, A., Gallentine, W. B., Phillips, H. W.
  2025; 10 (18)

- **Revised Process for ACNS Guidelines Development.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
  Quraishi, I. H., Andrade, E., Galloway, G., Hyslop, A., Selioutski, O., Sinha, S., Arnold, S. T., Arya, R., Bagić, A. I., Drislane, F., Gloss, D., Hani, A. J., Kobayashi, et al
  2025; 42 (2): 95-100

- **Consensus panel recommendations for the optimization of EPIDIOLEX® treatment for seizures associated with Lennox-Gastaut syndrome, Dravet syndrome, and tuberous sclerosis complex.** *Epilepsia open*
  Wechsler, R. T., Burdette, D. E., Gidal, B. E., Hyslop, A., McGoldrick, P. E., Thiele, E. A., Valeriano, J.
  2024; 9 (5): 1632-1642

- **A Case Series of Novel Monogenic Abnormalities Associated With Developmental Epileptic Encephalopathy With Spike-and-Wave Activation in Sleep.** *Pediatric neurology*
  Silverman, A., Hyslop, A., Gallentine, W., Rao, C.
  2024; 161: 18-23

- **Proposed anti-seizure medication combinations with rufinamide in the treatment of Lennox-Gastaut syndrome: Narrative review and expert opinion** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
  Sankar, R., Chez, M., Pina-Garza, J., Dixon-Salazar, T., Flamini, J., Hyslop, A., Mcgoldrick, P., Millichap, J. J., Resnick, T., Rho, J. M., Wolf, S.
  2023; 110: 42-57

- **Initial experience with magnetic resonance-guided focused ultrasound stereotactic surgery for central brain lesions in young adults.** *Journal of neurosurgery*
  Tierney, T. S., Alavian, K. N., Altman, N., Bhatia, S., Duchowny, M., Hyslop, A., Jayakar, P., Resnick, T., Wang, S., Miller, I., Ragheb, J.
  2022: 1-8

- **Stereo-electroencephalography (SEEG) in pediatric epilepsy: Utility in children with and without prior epilepsy surgery failure.** *Epilepsy research*
  Hyslop, A., Wang, S., Bryant, J. P., Bhatia, S., Sandoval-Garcia, C., Karkare, K., Ragheb, J.
  2021; 177: 106765

- **Neuromodulation for Intractable Childhood Epilepsy.** *Seminars in pediatric neurology*
  Hyslop, A., Tatachar, P.
  2021; 39: 100918

- **Time to onset of cannabidiol treatment effects in Dravet syndrome: Analysis from two randomized controlled trials.** *Epilepsia*
  Madan Cohen, J., Checketts, D., Dunayevich, E., Gunning, B., Hyslop, A., Madhavan, D., Villanueva, V., Zolnowska, M., Zuberi, S. M.

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- **Early vagus nerve stimulator implantation as a main predictor of positive outcome in pediatric patients with epileptic encephalopathy.** *Epileptic disorders : international epilepsy journal with videotape*
  Russo, A., Hyslop, A., Gentile, V., Boni, A., Miller, I., Chiarello, D., Pellino, G., Zenesini, C., Martinoni, M., Lima, M., Ragheb, J., Cordelli, D. M., Pini, et al
  2021; 23 (4): 563-571
- **Early Implantation as a Main Predictor of Response to Vagus Nerve Stimulation in Childhood-Onset Refractory Epilepsy.** *Journal of child neurology*
  Russo, A., Hyslop, A., Gentile, V., Chiarello, D., Messana, T., Miller, I., Zucchelli, M., Lima, M., Ragheb, J., Pini, A., Cordelli, D. M., Resnick, T., Jayakar, et al
  2021; 36 (5): 365-370
- **Electrical stimulation mapping in children.** *Seizure*
  Hyslop, A., Duchowny, M.
  2020; 77: 59-63
- **Presurgical hyperconnectivity of the ablation volume is associated with seizure-freedom after magnetic resonance-guided laser interstitial thermal therapy.** *Seizure*
  Ibrahim, G. M., Weil, A. G., Sedighim, S., Schoen, N. B., Mikhail, M., Sharma, P., Guillen, M. R., Morgan, B. R., Wong, S., Cajigas, I., Jermakowicz, W. J., Sandoval-Garcia, C., Lewis, et al
  2018; 61: 89-93
- **Neuroimmune disorders of the central nervous system in children in the molecular era.** *Nature reviews. Neurology*
  Wells, E., Hacohen, Y., Waldman, A., Tillema, J. M., Soldatos, A., Ances, B., Benseler, S., Bielekova, B., Dale, R. C., Dalmau, J., Gaillard, W., Gorman, M., Greenberg, et al
  2018; 14 (7): 433-445
- **Presurgical thalamocortical connectivity is associated with response to vagus nerve stimulation in children with intractable epilepsy.** *NeuroImage. Clinical*
  Ibrahim, G. M., Sharma, P., Hyslop, A., Guillen, M. R., Morgan, B. R., Wong, S., Abel, T. J., Elkaim, L., Cajigas, I., Shah, A. H., Fallah, A., Weil, A. G., Altman, et al
  2017; 16: 634-642
- **The diagnostic utility of 3D-ESI rotating and moving dipole methodology in the pre-surgical evaluation of MRI-negative childhood epilepsy due to focal cortical dysplasia.** *Epilepsia*
  Russo, A., Lallas, M., Jayakar, P., Miller, I., Hyslop, A., Dunoyer, C., Resnick, T., Duchowny, M.
  2016; 57 (9): 1450-7
- **Sensitivity of quantitative EEG for seizure identification in the intensive care unit** *NEUROLOGY*
  Haider, H. A., Esteller, R., Hahn, C. D., Westover, M., Halford, J. J., Lee, J. W., Shafi, M. M., Gaspard, N., Herman, S. T., Gerard, E. E., Hirsch, L. J., Ehrenberg, J. A., LaRoche, et al
  2016; 87 (9): 935-944
- **PET hypermetabolism in medically resistant childhood epilepsy: Incidence, associations, and surgical outcome.** *Epilepsia*
  Bansal, L., Miller, I., Hyslop, A., Bhatia, S., Duchowny, M., Jayakar, P.
  2016; 57 (3): 436-44
- **The diagnostic utility of 3D electroencephalography source imaging in pediatric epilepsy surgery.** *Epilepsia*
  Russo, A., Jayakar, P., Lallas, M., Miller, I., Hyslop, A., Korman, B., Dunoyer, C., Resnick, T., Duchowny, M.
  2016; 57 (1): 24-31
- **Minimally resective epilepsy surgery in MRI-negative children.** *Epileptic disorders : international epilepsy journal with videotape*
  Hyslop, A., Miller, I., Bhatia, S., Resnick, T., Duchowny, M., Jayakar, P.
  2015; 17 (3): 263-74
- **Electroencephalographic monitoring in the pediatric intensive care unit.** *Current neurology and neuroscience reports*
  Abend, N. S., Chapman, K. E., Gallentine, W. B., Goldstein, J., Hyslop, A. E., Loddenkemper, T., Nash, K. B., Riviello, J. J., Hahn, C. D.
  2013; 13 (3): 330

- **Clinical Reasoning: An unexpected diagnosis in a 4-month-old infant with lethargy and H1N1 influenza** *NEUROLOGY*
  Hyslop, A. E., Droker, B. S., Jansen, L. A.
  2011; 76 (18): E88-E92

- **Quantification of colorectal cancer micrometastases in lymph nodes by nested and real-time reverse transcriptase-PCR analysis for carcinoembryonic antigen** *CLINICAL CANCER RESEARCH*
  Ho, S. B., Hyslop, A., Albrecht, R., Jacobson, A., Spencer, M., Rothenberger, D. A., Niehans, G. A., D'Cunha, J., Kratzke, R. A.
  2004; 10 (17): 5777-5784