

Stanford



Brenda Porter, MD, PhD

Professor of Neurology (Pediatric Neurology) and of Pediatrics

CLINICAL OFFICE (PRIMARY)

- **Child Neurology**

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Bio

CLINICAL FOCUS

- Tuberous Sclerosis Complex
- Epilepsy
- Epilepsy Surgery
- Neurology with Special Qualifications in Child Neurology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurology
- Professor - University Medical Line, Pediatrics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-PI for the R-25 Stanford Neurology and Neurosurgery resident and fellowship training program, NINDS (2024 - present)
- Executive Committee, CNCDPK12 (2016 - present)
- Scientific Board, TESS Research Foundation (2015 - present)

PROFESSIONAL EDUCATION

- Board Certification: Neurology with Special Qualifications in Child Neurology, American Board of Psychiatry and Neurology (2002)
- Fellowship: Childrens Hospital of Philadelphia (2002) PA
- Medical Education: Washington Univ School Of Medicine (1995) MO
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2016)
- Residency: Hospital of the University of Pennsylvania (2000) PA
- Residency: St Louis Childrens Hospital (1997) MO

- Internship: St Louis Childrens Hospital (1996) MO
- Board Certification: Clinical Neurophysiology, American Board of Psychiatry and Neurology (2003)
- MD,PhD, Washington University School of Medicine , Neurobiology and Medicine (1995)

LINKS

- SLC13A5: <https://tessresearch.org/>
- Early therapy with sirolimus in patients with Tuberous Sclerosis: <https://www.clinicaltrials.gov/study/NCT05104983>
- Treatment of Seizures with Carisbamate in Lennox Gastaut Syndrome: <https://clinicaltrials.gov/study/NCT05219617>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Investigate Efficacy and Safety of Carisbamate as Adjunctive Treatment for Seizures Associated With LGS in Children and Adults, Recruiting
- SLC13A5 Deficiency Natural History Study - Remote Only, Recruiting
- Stopping TSC Onset and Progression 2B: Sirolimus TSC Epilepsy Prevention Study, Recruiting

Publications

PUBLICATIONS

- **Approach, complications, and outcomes for 37 consecutive pediatric patients undergoing laser ablation for medically refractory epilepsy at Stanford Children's Health.** *Journal of neurosurgery. Pediatrics*
Barros Guinle, M. I., Johnstone, T., Li, D., Kaur, H., Porter, B. E., Grant, G. A.
2023; 1-11
- **Characterizing a rare neurogenetic disease, SLC13A5 citrate transporter disorder, utilizing clinical data in a cloud-based medical record collection system.** *Frontiers in genetics*
Spelbrink, E. M., Brown, T. L., Brimble, E., Blanco, K. A., Nye, K. L., Porter, B. E.
2023; 14: 1109547
- **Growth and Overall Health of Patients with SLC13A5 Citrate Transporter Disorder.** *Metabolites*
Brown, T. L., Nye, K. L., Porter, B. E.
2021; 11 (11)
- **Practical Advice on Surviving and Thriving as an Academic Physician-Neuroscientist.** *JAMA neurology*
Knowles, J. K., Porter, B. E.
2021
- **Caregivers' impression of epilepsy surgery in patients with tuberous sclerosis complex.** *Epilepsy & behavior : E&B*
Nguyen, T. n., Porter, B. E.
2020; 111: 107331
- **Response Letter to the Editor: "Expanding eligibility for intracranial electroencephalography using dexmedetomidine hydrochloride in children with behavioral dyscontrol".** *Epilepsy & behavior : E&B*
Johnstone, T., Guinle, M. I., Grant, G. A., Porter, B. E.
2024; 153: 109657
- **Efficacy and safety of perampanel in a randomized, placebo-controlled trial with an open-label extension in patients with seizures associated with Lennox-Gastaut syndrome (LGS)**
Porter, B., Kira, R., Lee, J., Aeby, A., Patten, A., Ngo, L.
ELSEVIER.2023
- **Expanding eligibility for intracranial electroencephalography using Dexmedetomidine Hydrochloride in children with behavioral dyscontrol.** *Epilepsy & behavior : E&B*

- Johnstone, T., Isabel Barros Guinle, M., Grant, G. A., Porter, B. E.
2023; 150: 109541
- **Early Treatment with Vigabatrin Does Not Decrease Focal Seizures or Improve Cognition in Tuberous Sclerosis Complex: The PREVeNT Trial.** *Annals of neurology*
Bebin, E. M., Peters, J. M., Porter, B. E., McPherson, T. O., O'Kelley, S., Sahin, M., Taub, K. S., Rajaraman, R., Randle, S. C., McClintock, W. M., Koenig, M. K., Frost, M. D., Northrup, et al
2023
 - **GNAO1-related neurodevelopmental disorder: Literature review and caregiver survey.** *Epilepsy & behavior reports*
JoJo Yang, Q., Porter, B. E., Axeen, E. T.
2023; 21: 100582
 - **Clinical Features, Neuropathology, and Surgical Outcome in Patients With Refractory Epilepsy and Brain Somatic Variants in the SLC35A2 Gene.** *Neurology*
Barba, C., Blumcke, I., Winawer, M. R., Hartlieb, T., Kang, H., Grisotto, L., Chipaux, M., Bien, C. G., Hermanovska, B., Porter, B. E., Lidov, H. G., Cetica, V., Woermann, et al
2022
 - **Neurodevelopmental and Epilepsy Phenotypes in Individuals With Missense Variants in the Voltage Sensing and Pore Domain of KCNH5.** *Neurology*
Happ, H. C., Sadleir, L. G., Zemel, M., de Valles-Ibanez, G., Hildebrand, M. S., McConkie-Rosell, A., McDonald, M., May, H., Sands, T., Aggarwal, V., Elder, C., Feyma, T., Bayat, et al
2022
 - **Connectivity increases during spikes and spike-free periods in self-limited epilepsy with centrotemporal spikes.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*
Goad, B. S., Lee-Messer, C., He, Z., Porter, B. E., Baumer, F. M.
2022
 - **Limited utility of structural MRI to identify the epileptogenic zone in young children with tuberous sclerosis.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Nijman, M., Yang, E., Jaimes, C., Prohl, A. K., Sahin, M., Krueger, D. A., Wu, J. Y., Northrup, H., Stone, S. S., Madsen, J. R., Fallah, A., Blount, J. P., Weiner, et al
2022
 - **Somatic variants in diverse genes leads to a spectrum of focal cortical malformations.** *Brain : a journal of neurology*
Lai, D., Gade, M., Yang, E., Koh, H. Y., Lu, J., Walley, N. M., Buckley, A. F., Sands, T. T., Akman, C. I., Mikati, M. A., McKhann, G. M., Goldman, J. E., Canoll, et al
2022
 - **Antiseizure medication use and medical resource utilization after resective epilepsy surgery in children in the United States: A contemporary nationwide cross-sectional cohort analysis.** *Epilepsia*
Parker, J. J., Zhang, Y., Fatemi, P., Halpern, C. H., Porter, B. E., Grant, G. A.
2022
 - **An Atlas of the Quantitative Protein Expression of Anti-Epileptic-Drug Transporters, Metabolizing Enzymes and Tight Junctions at the Blood-Brain Barrier in Epileptic Patients.** *Pharmaceutics*
Sato, R., Ohmori, K., Umetsu, M., Takao, M., Tano, M., Grant, G., Porter, B., Bet, A., Terasaki, T., Uchida, Y.
1800; 13 (12)
 - **Real-World Preliminary Experience With Responsive Neurostimulation in Pediatric Epilepsy: A Multicenter Retrospective Observational Study.** *Neurosurgery*
Nagahama, Y., Zervos, T. M., Murata, K. K., Holman, L., Karsonovich, T., Parker, J. J., Chen, J., Phillips, H. W., Fajardo, M., Nariai, H., Hussain, S. A., Porter, B. E., Grant, et al
2021
 - **A Standardized Protocol to Improve Acute Seizure Management in Hospitalized Pediatric Patients.** *Hospital pediatrics*
Pavitt, S., Carley, A., Porter, B., Knowles, J. K.
2021
 - **Lacosamide-Induced Dyskinesia in Children With Intractable Epilepsy.** *Journal of child neurology*
Madani, N., O'Malley, J. A., Porter, B. E., Baumer, F. M.

2020: 883073820926634

- **Pilot Study of Neurodevelopmental Impact of Early Epilepsy Surgery in Tuberous Sclerosis Complex.** *Pediatric neurology*
Grayson, L. E., Peters, J. M., McPherson, T., Krueger, D. A., Sahin, M., Wu, J. Y., Northrup, H. A., Porter, B., Cutter, G. R., O'Kelley, S. E., Krefting, J., Stone, S. S., Madsen, et al
2020
- **Pathogenic Variants in CEP85L Cause Sporadic and Familial Posterior Predominant Lissencephaly.** *Neuron*
Tsai, M., Muir, A. M., Wang, W., Kang, Y., Yang, K., Chao, N., Wu, M., Chang, Y., Porter, B. E., Jansen, L. A., Sebire, G., Deconinck, N., Fan, et al
2020
- **Postoperative outcomes following pediatric intracranial electrode monitoring: A case for stereoelectroencephalography (SEEG).** *Epilepsy & behavior : E&B*
Kim, L. H., Parker, J. J., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Halpern, C. H., Porter, B. n., Grant, G. A.
2020; 104 (Pt A): 106905
- **Epilepsy and EEG Phenotype of SLC13A5 Citrate Transporter Disorder.** *Child neurology open*
Yang, Q. Z., Spelbrink, E. M., Nye, K. L., Hsu, E. R., Porter, B. E.
2020; 7: 2329048X20931361
- **The Epilepsy Genetics Initiative: Systematic reanalysis of diagnostic exomes increases yield** *EPILEPSIA*
Berkovic, S. F., Goldstein, D. B., Heinzen, E. L., Laughlin, B. L., Lowenstein, D. H., Lubbers, L., Stewart, R., Whittemore, V., Angione, K., Bazil, C. W., Bier, L., Bluvstein, J., Brimble, et al
2019; 60 (5): 797–806
- **Stereotactic laser ablation for completion corpus callosotomy.** *Journal of neurosurgery. Pediatrics*
Huang, Y. n., Yecies, D. n., Bruckert, L. n., Parker, J. J., Ho, A. L., Kim, L. H., Fornoff, L. n., Wintermark, M. n., Porter, B. n., Yeom, K. W., Halpern, C. H., Grant, G. A.
2019: 1–9
- **Robot guided pediatric stereoelectroencephalography: single-institution experience** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Ho, A. L., Muftuoglu, Y., Pendharkar, A., Sussman, E. S., Porter, B. E., Halpern, C. H., Grant, G. A.
2018; 22 (5): 489–96
- **Robot-guided pediatric stereoelectroencephalography: single-institution experience.** *Journal of neurosurgery. Pediatrics*
Ho, A. L., Muftuoglu, Y., Pendharkar, A. V., Sussman, E. S., Porter, B. E., Halpern, C. H., Grant, G. A.
2018: 1–8
- **Normal Development of the Perineuronal Net in Humans; In Patients with and without Epilepsy** *NEUROSCIENCE*
Rogers, S. L., Rankin-Gee, E., Risbud, R. M., Porter, B. E., Marsh, E. D.
2018; 384: 350–60
- **Alterations of network synchrony after epileptic seizures: An analysis of post-ictal intracranial recordings in pediatric epilepsy patients** *EPILEPSY RESEARCH*
Tomlinson, S. B., Khambhati, A. N., Bermudez, C., Kamens, R. M., Heuer, G. G., Porter, B. E., Marsh, E. D.
2018; 143: 41–49
- **Somatic SLC35A2 variants in the brain are associated with intractable neocortical epilepsy** *ANNALS OF NEUROLOGY*
Winawer, M. R., Griffin, N. G., Samanamud, J., Baugh, E. H., Rathakrishnan, D., Ramalingam, S., Zagzag, D., Schevon, C. A., Dugan, P., Hegde, M., Sheth, S. A., McKhann, G. M., Doyle, et al
2018; 83 (6): 1133–46
- **Clinical and electrographic features of sunflower syndrome** *EPILEPSY RESEARCH*
Baumer, F. M., Porter, B. E.
2018; 142: 58–63
- **Refractory focal epilepsy in a paediatric patient with primary familial brain calcification** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
Knowles, J. K., Santoro, J. D., Porter, B. E., Baumer, F. M.
2018; 56: 50–52
- **De novo variants in the alternative exon 5 of SCN8A cause epileptic encephalopathy** *GENETICS IN MEDICINE*

- Berkovic, S. F., Dixon-Salazar, T., Goldstein, D. B., Heinzen, E. L., Laughlin, B. L., Lowenstein, D. H., Lubbers, L., Milder, J., Stewart, R., Whittemore, V., Angione, K., Bazil, C. W., Bier, et al
2018; 20 (2): 275–81
- **Clinical and electrographic features of sunflower syndrome.** *Epilepsy research*
Baumer, F. M., Porter, B. E.
2018; 142: 58–63
 - **Delay in pediatric epilepsy surgery: A caregiver's perspective.** *Epilepsy & behavior : E&B*
Shen, A. n., Quaid, K. T., Porter, B. E.
2018; 78: 175–78
 - **Language Dysfunction in Pediatric Epilepsy.** *The Journal of pediatrics*
Baumer, F. M., Cardon, A. L., Porter, B. E.
2018; 194: 13–21
 - **Refractory focal epilepsy in a paediatric patient with primary familial brain calcification.** *Seizure*
Knowles, J. K., Santoro, J. D., Porter, B. E., Baumer, F. M.
2018; 56: 50–52
 - **Clinical spectrum and genotype-phenotype associations of KCNA2-related encephalopathies** *BRAIN*
Masnada, S., Hedrich, U. S., Gardella, E., Schubert, J., Kaiwar, C., Klee, E. W., Lanpher, B. C., Gavrilova, R. H., Synofzik, M., Bast, T., Gorman, K., King, M. D., Allen, et al
2017; 140: 2337–54
 - **Analyses of SLC13A5-epilepsy patients reveal perturbations of TCA cycle** *MOLECULAR GENETICS AND METABOLISM*
Bainbridge, M. N., Cooney, E., Miller, M., Kennedy, A. D., Wulff, J. E., Donti, T., Jhangiani, S. N., Gibbs, R. A., Elsea, S. H., Porter, B. E., Graham, B. H.
2017; 121 (4): 314–19
 - **R-SCAN: Imaging for Pediatric Simple Febrile Seizures.** *Journal of the American College of Radiology*
Lee, S., Fisher, P., Grant, G. A., Porter, B., Dannenberg, B., Wintermark, M.
2017
 - **Increased metalloproteinase activity in the hippocampus following status epilepticus** *EPILEPSY RESEARCH*
Dubey, D., McRae, P. A., Rankin-Gee, E. K., Baranov, E., Wandrey, L., Rogers, S., Porter, B. E.
2017; 132: 50-58
 - **Interictal network synchrony and local heterogeneity predict seizure relief following pediatric epilepsy surgery**
Tomlinson, S., Marsh, E., Porter, B.
LIPPINCOTT WILLIAMS & WILKINS.2017
 - **Interictal network synchrony and local heterogeneity predict epilepsy surgery outcome among pediatric patients** *EPILEPSIA*
Tomlinson, S. B., Porter, B. E., Marsh, E. D.
2017; 58 (3): 402–11
 - **Spatiotemporal Mapping of Interictal Spike Propagation: A Novel Methodology Applied to Pediatric Intracranial EEG Recordings** *FRONTIERS IN NEUROLOGY*
Tomlinson, S. B., Bermudez, C., Conley, C., Brown, M. W., Porter, B. E., Marsh, E. D.
2016; 7
 - **Increased precursor microRNA-21 following status epilepticus can compete with mature microRNA-21 to alter translation.** *Experimental neurology*
Chak, K., Roy-Chaudhuri, B., Kim, H. K., Kemp, K. C., Porter, B. E., Kay, M. A.
2016; 286: 137-146
 - **KCNQ2 encephalopathy Features, mutational hot spots, and ezogabine treatment of 11 patients** *NEUROLOGY-GENETICS*
Millichap, J. J., Park, K. L., Tsuchida, T., Ben-Zeev, B., Carmant, L., Flamini, R., Joshi, N., Levisohn, P. M., Marsh, E., Nangia, S., Narayanan, V., Ortiz-Gonzalez, X. R., Patterson, et al
2016; 2 (5): e96
 - **Diagnosis of adenylosuccinate lyase deficiency by metabolomic profiling in plasma reveals a phenotypic spectrum.** *Molecular genetics and metabolism reports*

- Donti, T. R., Cappuccio, G., Hubert, L., Neira, J., Atwal, P. S., Miller, M. J., Cardon, A. L., Sutton, V. R., Porter, B. E., Baumer, F. M., Wangler, M. F., Sun, Q., Emrick, et al
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- **A Potential Role for Glia-Derived Extracellular Matrix Remodeling in Postinjury Epilepsy** *JOURNAL OF NEUROSCIENCE RESEARCH*
Kim, S. Y., Porter, B. E., Friedman, A., Kaufner, D.
2016; 94 (9): 794-803
 - **Plasma taurine levels are not affected by vigabatrin in pediatric patients.** *Epilepsia*
Spelbrink, E. M., Mabud, T. S., Reimer, R., Porter, B. E.
2016; 57 (8): e168-72
 - **CRTC1 NUCLEAR LOCALIZATION IN THE HIPPOCAMPUS OF THE PILOCARPINE-INDUCED STATUS EPILEPTICUS MODEL OF TEMPORAL LOBE EPILEPSY** *NEUROSCIENCE*
Dubey, D., Porter, B. E.
2016; 320: 57-68
 - **Mutations in the Na(+)/citrate cotransporter NaCT (SLC13A5) in pediatric patients with epilepsy and developmental delay.** *Molecular medicine*
Klotz, J., Porter, B. E., Colas, C., Schlessinger, A., Pajor, A. M.
2016; 22
 - **Suppressing cAMP response element-binding protein transcription shortens the duration of status epilepticus and decreases the number of spontaneous seizures in the pilocarpine model of epilepsy** *EPILEPSIA*
Zhu, X., Dubey, D., Bermudez, C., Porter, B. E.
2015; 56 (12): 1870-1878
 - **INCREASED SENSITIVITY TO KINDLING IN MICE LACKING TSP1** *NEUROSCIENCE*
Mendus, D., Rankin-Gee, E. K., Mustapha, M., Porter, B. E.
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 - **Perineuronal net degradation in epilepsy.** *Epilepsia*
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 - **50 years ago in the journal of pediatrics: convulsive equivalent syndrome of childhood.** *journal of pediatrics*
Maclean, J., Porter, B.
2014; 164 (5): 1050-?
 - **Report of a parent survey of cannabidiol-enriched cannabis use in pediatric treatment-resistant epilepsy** *EPILEPSY & BEHAVIOR*
Porter, B. E., Jacobson, C.
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 - **MEF2C Haploinsufficiency features consistent hyperkinesia, variable epilepsy, and has a role in dorsal and ventral neuronal developmental pathways** *NEUROGENETICS*
Paciorkowski, A. R., Traylor, R. N., Rosenfeld, J. A., Hoover, J. M., Harris, C. J., Winter, S., Lacassie, Y., Bialer, M., Lamb, A. N., Schultz, R. A., Berry-Kravis, E., Porter, B. E., Falk, et al
2013; 14 (2): 99-111
 - **Focal cortical dysplasia is more common in boys than in girls** *EPILEPSY & BEHAVIOR*
Ortiz-Gonzalez, X. R., Poduri, A., Roberts, C. M., Sullivan, J. E., Marsh, E. D., Porter, B. E.
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 - **Changes in MicroRNA Expression in the Whole Hippocampus and Hippocampal Synaptoneurosome Fraction following Pilocarpine Induced Status Epilepticus** *PLOS ONE*
Risbud, R. M., Porter, B. E.
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 - **Persistent decrease in multiple components of the perineuronal net following status epilepticus** *EUROPEAN JOURNAL OF NEUROSCIENCE*
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- **The perineuronal net component of the extracellular matrix in plasticity and epilepsy** *NEUROCHEMISTRY INTERNATIONAL*
McRae, P. A., Porter, B. E.
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- **Decreased CREB levels suppress epilepsy** *NEUROBIOLOGY OF DISEASE*
Zhu, X., Han, X., Blendy, J. A., Porter, B. E.
2012; 45 (1): 253-263
- **Neurotrophin-3 mRNA a putative target of miR21 following status epilepticus** *BRAIN RESEARCH*
Risbud, R. M., Lee, C., Porter, B. E.
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- **Ganglioglioma arising from dysplastic cortex** *EPILEPSIA*
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Ross, J. R., Porter, B. E., Buckley, P. T., Eberwine, J. H., Robinson, M. B.
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Gupta, J. R., Marsh, E. D., Nieh, H. E., Porter, B. E., Litt, B.
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- **Interictal EEG spikes identify the region of electrographic seizure onset in some, but not all, pediatric epilepsy patients** *EPILEPSIA*
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Porter, B. E., Lund, I. V., Varodayan, F. P., Wallace, R. W., Blendy, J. A.
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- **Neurogenesis and epilepsy in the developing brain** *EPILEPSIA*
Porter, B. E.
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- **Comparison of novel computer detectors and human performance for spike detection in intracranial EEG** *CLINICAL NEUROPHYSIOLOGY*

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2002; 59 (3): 361-365
 - **Myelin and disorders that affect the formation and maintenance of this sheath** *MENTAL RETARDATION AND DEVELOPMENTAL DISABILITIES RESEARCH REVIEWS*
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 - **Distinct structures and functions of related pre- and postsynaptic carbohydrates at the mammalian neuromuscular junction** *MOLECULAR AND CELLULAR NEUROSCIENCE*
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