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
- **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
- **Language Dysfunction in Pediatric Epilepsy.** *The Journal of pediatrics*
  Baumer, F. M., Cardon, A. L., Porter, B. E.
  2018; 194: 13–21
- **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.
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- **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.
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- **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
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- **Diagnosis of adenylosuccinate lyase deficiency by metabolomic profiling in plasma reveals a phenotypic spectrum.** *Molecular genetics and metabolism reports*

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- **Plasma taurine levels are not affected by vigabatrin in pediatric patients.** *Epilepsia*
  Spelbrink, E. M., Mabud, T. S., Reimer, R., Porter, B. E.
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- **CRTC1 NUCLEAR LOCALIZATION IN THE HIPPOCAMPUS OF THE PILOCARPINE-INDUCED STATUS EPILEPTICUS MODEL OF TEMPORAL LOBE EPILEPSY** *NEUROSCIENCE*
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- **Mutations in the Na(+)/citrate cotransporter NaCT (SLC13A5) in pediatric patients with epilepsy and developmental delay.** *Molecular medicine*
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- **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*
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- **INCREASED SENSITIVITY TO KINDLING IN MICE LACKING TSP1** *NEUROSCIENCE*
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- **Perineuronal net degradation in epilepsy.** *Epilepsia*
  Rankin-Gee, E. K., McRae, P. A., Baranov, E., Rogers, S., Wandrey, L., Porter, B. E.
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  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.
  2013; 29 (3): 574-577
- **MEF2C Haploinsufficiency features consistent hyperkinesis, 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
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- **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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  McRae, P. A., Baranov, E., Rogers, S. L., Porter, B. E.
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  Risbud, R. M., Lee, C., Porter, B. E.
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