



Courtney Wusthoff, MD

CONTACT INFORMATION

- **Division of Child Neurology**

Academic Office

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Bio

BIO

<https://med.stanford.edu/wusthoff-lab.html>

ACADEMIC APPOINTMENTS

- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director of Neurocritical Care, Lucile Packard Children's Hospital Stanford, (2019-2024)
- Neurology Director, LPCH Neuro NICU, Lucile Packard Children's Hospital, (2013-2024)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- <https://med.stanford.edu/wusthoff-lab.html>: <https://med.stanford.edu/wusthoff-lab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My projects focus on clinical research in newborns with, or at risk, for brain injury. I use EEG in at-risk neonates to better understand the underlying pathophysiology of risk factors that may lead to worse outcomes. I am particularly interested in neonatal seizures and how they may exacerbate perinatal brain injury with a goal to identify treatments that might protect the vulnerable brain. I am also interested in EEG in other pediatric populations, as well as medical ethics and global health.

CLINICAL TRIALS

- The HEAL Trial, Not Recruiting

Publications

PUBLICATIONS

- **Time Alone Is Not Enough: An Urgent Need for Active Sponsorship of Women in Child Neurology.** *Neurology*
Wusthoff, C. J., Shellhaas, R. A.
2024; 103 (5): e209838
- **Relationship of Neonatal Seizure Burden Prior to Treatment and Response to Initial Anti-Seizure Medication.** *The Journal of pediatrics*
Numis, A. L., Glass, H. C., Comstock, B. A., Gonzalez, F., Maitre, N. L., Massey, S. L., Mayock, D. E., Mietzsch, U., Natarajan, N., Sokol, G. M., Bonifacio, S., Van Meurs, K., Thomas, et al
2024: 113957
- **Seizure Control in Neonates Undergoing Screening vs Confirmatory EEG Monitoring.** *Neurology*
Wusthoff, C. J., Sundaram, V., Abend, N. S., Massey, S. L., Lemmon, M. E., Thomas, C., McCulloch, C. E., Chang, T., Soul, J. S., Chu, C. J., Rogers, E. E., Bonifacio, S. L., Cilio, et al
2021
- **Signal amid noise-quantitative electroencephalography for stratification and early outcome prediction in neonatal hypoxic ischemic encephalopathy.** *Pediatric research*
Johnson, A., Wusthoff, C. J.
2024
- **Neuromonitoring practices for neonates with congenital heart disease: a scoping review.** *Pediatric research*
Pardo, A. C., Carrasco, M., Wintermark, P., Nunes, D., Chock, V. Y., Sen, S., Wusthoff, C. J., Newborn Brain Society, G. a., Bonifacio, S., Aly, H., Chau, V., Glass, H., Lemmon, et al
2024
- **Consensus definition and diagnostic criteria for neonatal encephalopathy-study protocol for a real-time modified delphi study.** *Pediatric research*
Branagan, A., Hurley, T., Quirke, F., Devane, D., Taneri, P. E., Badawi, N., Sinha, B., Bearer, C., Bloomfield, F. H., Bonifacio, S. L., Boylan, G., Campbell, S. K., Chalakh, et al
2024
- **Families as partners in neonatal neuro-critical care programs** *PEDIATRIC RESEARCH*
Bansal, S., Molloy, E. J., Rogers, E., Bidegain, M., Pilon, B., Hurley, T., Lemmon, M. E., Bonifacio, S., Wintermark, P., Aly, H., Boardman, J., McCaul, M., Chau, et al
2024
- **Neonatal Seizures: New Evidence, Classification, and Guidelines** *EPILEPSY CURRENTS*
Ziobro, J., Pilon, B., Wusthoff, C. J., Benedetti, G. M., Massey, S. L., Yozawitz, E., Numis, A. L., Pressler, R., Shellhaas, R. A.
2024
- **Open Peer Review Reports: A Pilot Project inNeurology.** *Neurology*
Baskin, P. K., Barkhof, F., Burch, R., Callaghan, B. C., Ciccarella, O., Hedera, P., Hershey, L. A., Jobst, B. C., Pieper, K. M., Quimby, S. L., Rahkola, A., Schneider, A. L., Worrall, et al
2024; 102 (9): e209462
- **Promoting a neuropalliative care approach in fetal neurology.** *Seminars in fetal & neonatal medicine*
Nanduri, N., Bansal, S., Treat, L., Bogetz, J. F., Wusthoff, C. J., Rent, S., Lemmon, M. E.
2024: 101528
- **Neuroprotective therapies in the NICU in preterm infants: present and future (Neonatal Neurocritical Care Series).** *Pediatric research*
Molloy, E. J., El-Dib, M., Soul, J., Juul, S., Gunn, A. J., Bender, M., Gonzalez, F., Bearer, C., Wu, Y., Robertson, N. J., Cotton, M., Branagan, A., Hurley, et al
2023
- **Association of EEG Background and Neurodevelopmental Outcome in Neonates With Hypoxic-Ischemic Encephalopathy Receiving Hypothermia.** *Neurology*
Glass, H. C., Numis, A. L., Comstock, B. A., Gonzalez, F. F., Mietzsch, U., Bonifacio, S. L., Massey, S., Thomas, C., Natarajan, N., Mayock, D. E., Sokol, G. M., Van Meurs, K. P., Ahmad, et al

2023

- **Feeding and developmental outcomes after neonatal seizures-A prospective observational study.** *Annals of the Child Neurology Society*
Roberts, K. H., Barks, J. D., Glass, H. C., Soul, J. S., Chang, T., Wusthoff, C. J., Chu, C. J., Massey, S. L., Abend, N. S., Lemmon, M. E., Thomas, C., Guillet, R., Rogers, et al
2023; 1 (3): 209-217
- **Neonatal encephalopathy and hypoxic-ischemic encephalopathy: moving from controversy to consensus definitions and subclassification.** *Pediatric research*
Molloy, E. J., Branagan, A., Hurley, T., Quirke, F., Devane, D., Taneri, P. E., El-Dib, M., Bloomfield, F. H., Maeso, B., Pilon, B., Bonifacio, S. L., Wusthoff, C. J., Chalak, et al
2023
- **Can a smartphone jump start care for infantile spasms?** *The Journal of pediatrics*
Wusthoff, C. J., Shellhaas, R. A.
2023: 113442
- **Can electronic medical records predict neonatal seizures?** *The Lancet. Digital health*
Barsh, G. R., Wusthoff, C. J.
2023; 5 (4): e175-e176
- **Can electronic medical records predict neonatal seizures?** *LANCET DIGITAL HEALTH*
Barsh, G. R., Wusthoff, C. J.
2023; 5 (4): E175-E176
- **Continuous Electroencephalogram Use and Hospital Outcomes in Critically Ill Children.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Oh, A., Wusthoff, C. J., Kim, H.
2023
- **Antiseizure medication at discharge in infants with hypoxic-ischaemic encephalopathy: an observational study.** *Archives of disease in childhood. Fetal and neonatal edition*
Sewell, E. K., Shankaran, S., McDonald, S. A., Hamrick, S., Wusthoff, C. J., Adams-Chapman, I., Chalak, L. F., Davis, A. S., Van Meurs, K., Das, A., Maitre, N., Lupton, A., Patel, et al
2023
- **Neuromonitoring in neonatal critical care part I: neonatal encephalopathy and neonates with possible seizures.** *Pediatric research*
El-Dib, M., Abend, N. S., Austin, T., Boylan, G., Chock, V., Cilio, M. R., Greisen, G., Hellström-Westas, L., Lemmers, P., Pellicer, A., Pressler, R. M., Sansevere, A., Tsuchida, et al
2022
- **Risk of seizures in neonates with hypoxic-ischemic encephalopathy receiving hypothermia plus erythropoietin or placebo.** *Pediatric research*
Glass, H. C., Wusthoff, C. J., Comstock, B. A., Numis, A. L., Gonzalez, F. F., Maitre, N., Massey, S. L., Mayock, D. E., Mietzsch, U., Natarajan, N., Sokol, G. M., Bonifacio, S. L., Van Meurs, et al
2022
- **Neuromonitoring in neonatal critical care part II: extremely premature infants and critically ill neonates.** *Pediatric research*
El-Dib, M., Abend, N. S., Austin, T., Boylan, G., Chock, V., Cilio, M. R., Greisen, G., Hellstrom-Westas, L., Lemmers, P., Pellicer, A., Pressler, R. M., Sansevere, A., Szakmar, et al
2022
- **Neuroprotective therapies in the NICU in term infants: present and future.** *Pediatric research*
Molloy, E. J., El-Dib, M., Juul, S. E., Benders, M., Gonzalez, F., Bearer, C., Wu, Y. W., Robertson, N. J., Hurley, T., Branagan, A., Michael Cotten, C., Tan, S., Lupton, et al
2022
- **Seizure Burden, EEG, and Outcome in Neonates With Acute Intracranial Infections: A Prospective Multicenter Cohort Study.** *Pediatric neurology*
Mehta, N., Shellhaas, R. A., McCulloch, C. E., Chang, T., Wusthoff, C. J., Abend, N. S., Lemmon, M. E., Chu, C. J., Massey, S. L., Franck, L. S., Thomas, C., Soul, J. S., Rogers, et al
2022; 137: 54-61

- **The Role of Electroencephalography in the Prognostication of Clinical Outcomes in Critically Ill Children: A Review.** *Children (Basel, Switzerland)*
Gilman, C. A., Wusthoff, C. J., Guerriero, R. M.
2022; 9 (9)
- **Inequities in therapy for infantile spasms: a call to action.** *Annals of neurology*
Baumer, F. M., Mytinger, J. R., Neville, K., Briscoe Abath, C., Gutierrez, C. A., Numis, A. L., Harini, C., He, Z., Hussain, S. A., Berg, A. T., Chu, C. J., Gaillard, W. D., Loddenkemper, et al
2022
- **Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock.** *Circulation. Genomic and precision medicine*
Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Bernstein, J. A., Ceresnak, S., Chang, P., Christle, et al
2022: CIRCGEN121003591
- **Impact of COVID-19 Pandemic on Developmental Service Delivery in Children With a History of Neonatal Seizures.** *Pediatric neurology*
Peyton, C., Girvan, O., Shellhaas, R. A., Lemmon, M. E., Rogers, E. E., Soul, J. S., Chang, T., Hamlett, A., Wusthoff, C. J., Chu, C. J., Massey, S. L., Thomas, C., Guillet, et al
2022; 129: 14-18
- **Epileptic high-frequency oscillations occur in neonates with a high risk for seizures.** *Frontiers in neurology*
Kuhnke, N., Wusthoff, C. J., Swamalingam, E., Yanoussi, M., Jacobs, J.
2022; 13: 1048629
- **Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting.** *The New England journal of medicine*
Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Baid, G., Bernstein, J. A., Ceresnak, S., Chang, et al
2022
- **Parent Mental Health and Family Coping over Two Years after the Birth of a Child with Acute Neonatal Seizures.** *Children (Basel, Switzerland)*
Franck, L. S., Shellhaas, R. A., Lemmon, M. E., Sturza, J., Barnes, M., Brogi, T., Hill, E., Moline, K., Soul, J. S., Chang, T., Wusthoff, C. J., Chu, C. J., Massey, et al
1800; 9 (1)
- **Characteristics of Neonates with Cardiopulmonary Disease Who Experience Seizures: A Multi-Center Study.** *The Journal of pediatrics*
Massey, S. L., Glass, H. C., Shellhaas, R. A., Bonifacio, S., Chang, T., Chu, C., Cilio, M. R., Lemmon, M. E., McCulloch, C. E., Soul, J. S., Thomas, C., Wusthoff, C. J., Xiao, et al
2021
- **Management of seizures in neonates with neonatal encephalopathy treated with hypothermia.** *Seminars in fetal & neonatal medicine*
DeLaGarza-Pineda, O., Mailo, J. A., Boylan, G., Chau, V., Glass, H. C., Mathur, A. M., Shellhaas, R. A., Soul, J. S., Wusthoff, C. J., Chang, T., Newborn Brain Society Guidelines and Publications Committee
2021: 101279
- **JCN Book Review.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Wusthoff, C. J.
2021; 38 (5): e24
- **Neonatal encephalopathy: Etiologies other than hypoxic-ischemic encephalopathy.** *Seminars in fetal & neonatal medicine*
Sandoval Karamian, A. G., Mercimek-Andrews, S., Mohammad, K., Molloy, E. J., Chang, T., Chau, V., Murray, D. M., Wusthoff, C. J., Newborn Brain Society Guidelines and Publications Committee
2021: 101272
- **Evaluation of Seizure Risk in Infants After Cardiopulmonary Bypass in the Absence of Deep Hypothermic Cardiac Arrest.** *Neurocritical care*
Levy, R. J., Mayne, E. W., Sandoval Karamian, A. G., Iqbal, M., Purington, N., Ryan, K. R., Wusthoff, C. J.
2021
- **Comparative Effectiveness of Initial Treatment for Infantile Spasms in a Contemporary US Cohort.** *Neurology*

- Grinspan, Z. M., Knupp, K. G., Patel, A. D., Yozawitz, E. G., Wusthoff, C. J., Wirrell, E., Valencia, I., Singhal, N. S., Nordli, D. R., Mytinger, J. R., Mitchell, W., Keator, C. G., Loddenkemper, et al
2021
- **Early-life epilepsy after acute symptomatic neonatal seizures: A prospective multicenter study.** *Epilepsia*
Shellhaas, R. A., Wusthoff, C. J., Numis, A. L., Chu, C. J., Massey, S. L., Abend, N. S., Soul, J. S., Chang, T., Lemmon, M. E., Thomas, C., McNamara, N. A., Guillet, R., Franck, et al
2021
 - **Ethical considerations in the care of encephalopathic neonates treated with therapeutic hypothermia.** *Seminars in fetal & neonatal medicine*
Lemmon, M. E., Wusthoff, C. J., Boss, R. D., Rasmussen, L. A., Newborn Brain Society Guidelines and Publications Committee
2021: 101258
 - **Biomarkers in neonatal encephalopathy: new approaches and ongoing questions.** *Pediatric research*
Wusthoff, C. J.
2021
 - **Safety of Early Discontinuation of Antiseizure Medication After Acute Symptomatic Neonatal Seizures.** *JAMA neurology*
Glass, H. C., Soul, J. S., Chang, T., Wusthoff, C. J., Chu, C. J., Massey, S. L., Abend, N. S., Lemmon, M., Thomas, C., Numis, A. L., Guillet, R., Sturza, J., McNamara, et al
2021
 - **Modifiable Risk Factors in Critically Ill Children: Moving Beyond Seizures.** *Neurology*
Scott, R. C., Wusthoff, C. J.
2021
 - **Use of Continuous Electroencephalogram (cEEG) in Critically Ill Patients**
Oh, A., Wusthoff, C., Kim, H.
LIPPINCOTT WILLIAMS & WILKINS.2021
 - **Clinical Manifestations of Neonatal Seizures.** *Pediatrics international : official journal of the Japan Pediatric Society*
Nguyen, T., Wusthoff, C. J.
2021
 - **American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2021 Version.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Hirsch, L. J., Fong, M. W., Leitinger, M., LaRoche, S. M., Beniczky, S., Abend, N. S., Lee, J. W., Wusthoff, C. J., Hahn, C. D., Westover, M. B., Gerard, E. E., Herman, S. T., Haider, et al
2021; 38 (1): 1–29
 - **Seizure Severity and Treatment Response in Newborn Infants with Seizures Attributed to Intracranial Hemorrhage.** *The Journal of pediatrics*
Herzberg, E. M., Machie, M., Glass, H. C., Shellhaas, R. A., Wusthoff, C. J., Chang, T., Abend, N. S., Chu, C. J., Cilio, M. R., Bonifacio, S. L., Massey, S. L., McCulloch, C. E., Soul, et al
2021
 - **Current and Future Uses of Continuous EEG in the NICU.** *Frontiers in pediatrics*
Sandoval Karamian, A. G., Wusthoff, C. J.
2021; 9: 768670
 - **Family-Centered Care for Children and Families Impacted by Neonatal Seizures: Advice From Parents.** *Pediatric neurology*
Lemmon, M. E., Glass, H. C., Shellhaas, R. A., Barks, M. C., Bansal, S., Annis, D., Guerriero, J. L., Pilon, B., Wusthoff, C. J., Chang, T., Soul, J. S., Chu, C. J., Thomas, et al
2021; 124: 26-32
 - **Use of electronic medical record templates improves quality of care for patients with infantile spasms** *HEALTH INFORMATION MANAGEMENT JOURNAL*
Santoro, J. D., Sandoval Karamian, A. G., Ruzhnikov, M., Brimble, E., Chadwick, W., Wusthoff, C. J.
2021; 50 (1-2): 47–54
 - **Barriers, access and management of paediatric epilepsy with telehealth.** *Journal of telemedicine and telecare*

- Gali, K., Joshi, S., Hueneke, S., Katzenbach, A., Radecki, L., Calabrese, T., Fletcher, L., Trandafir, C., Wilson, C., Goyal, M., Wusthoff, C. J., Le Pichon, J., Corvalan, et al
2020: 1357633X20969531
- **Sarnat Grading Scale for Neonatal Encephalopathy after 45 Years: An Update Proposal.** *Pediatric neurology*
Sarnat, H. B., Flores-Sarnat, L., Fajardo, C., Leijser, L. M., Wusthoff, C., Mohammad, K.
2020; 113: 75–79
 - **Parent experience of caring for neonates with seizures.** *Archives of disease in childhood. Fetal and neonatal edition*
Lemmon, M., Glass, H., Shellhaas, R. A., Barks, M. C., Bailey, B., Grant, K., Grossbauer, L., Pawlowski, K., Wusthoff, C. J., Chang, T., Soul, J., Chu, C. J., Thomas, et al
2020
 - **Impact of recurrent seizures on white matter in non-structural neonatal epilepsy**
Karamian, A., Wusthoff, C., Yeom, K., Knowles, J.
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **Continuous EEG for Seizure Detection in Neonates after Cardiac Bypass without Deep Hypothermic Cardiac Arrest**
Levy, R., Karamian, A., Mayne, E., Iqbal, M., Purington, N., Ryan, K., Wusthoff, C.
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **Neonatal genetic epilepsies display convergent white matter microstructural abnormalities.** *Epilepsia*
Sandoval Karamian, A. G., Wusthoff, C. J., Boothroyd, D. n., Yeom, K. W., Knowles, J. K.
2020
 - **Associations between Infant and Parent Characteristics and Measures of Family Well-Being in Neonates with Seizures: A Cohort Study.** *The Journal of pediatrics*
Franck, L. S., Shellhaas, R. A., Lemmon, M. n., Sturza, J. n., Soul, J. S., Chang, T. n., Wusthoff, C. J., Chu, C. J., Massey, S. L., Abend, N. S., Thomas, C. n., Rogers, E. E., McCulloch, et al
2020; 221: 64–71.e4
 - **The Sarnat score for neonatal encephalopathy: looking back and moving forward.** *Pediatric research*
Mrelashvili, A. n., Russ, J. B., Ferriero, D. M., Wusthoff, C. J.
2020
 - **How Helpful Is aEEG? Context and User Experience Matter.** *American journal of perinatology*
Sandoval Karamian, A. G., Wusthoff, C. J.
2020
 - **Characterization of Death in Infants With Neonatal Seizures.** *Pediatric neurology*
Lemmon, M. E., Bonifacio, S. L., Shellhaas, R. A., Wusthoff, C. J., Greenberg, R. G., Soul, J. S., Chang, T. n., Chu, C. J., Bates, S. n., Massey, S. L., Abend, N. S., Cilio, M. R., Glass, et al
2020; 113: 21–25
 - **Integrative Medicine in Child Neurology: What Do Physicians Know and What Do They Want to Learn?** *Journal of child neurology*
Sandoval Karamian, A. G., Yeh, A. M., Wusthoff, C. J.
2020: 883073820925285
 - **Immediate outcomes in early life epilepsy: A contemporary account.** *Epilepsy & behavior : E&B*
Berg, A. T., Wusthoff, C., Shellhaas, R. A., Loddenkemper, T., Grinspan, Z. M., Saneto, R. P., Knupp, K. G., Patel, A., Sullivan, J. E., Kossoff, E. H., Chu, C. J., Massey, S., Valencia, et al
2019; 97: 44–50
 - **Differences in patient characteristics and care practices between two trials of therapeutic hypothermia** *PEDIATRIC RESEARCH*
Bonifacio, S. L., McDonald, S. A., Chock, V. Y., Wusthoff, C. J., Hintz, S. R., Laptook, A. R., Shankara, S., Van Meurs, K. P.
2019; 85 (7): 1008–15
 - **Differences in patient characteristics and care practices between two trials of therapeutic hypothermia.** *Pediatric research*
Bonifacio, S. L., McDonald, S. A., Chock, V. Y., Wusthoff, C. J., Hintz, S. R., Laptook, A. R., Shankara, S., Van Meurs, K. P.
2019

- **Response to antiseizure medications in neonates with acute symptomatic seizures.** *Epilepsia*
Glass, H. C., Soul, J. S., Chu, C. J., Massey, S. L., Wusthoff, C. J., Chang, T., Cilio, M. R., Bonifacio, S. L., Abend, N. S., Thomas, C., Lemmon, M., McCulloch, C. E., Shellhaas, et al
2019
- **Breaking a Cycle of Dependence to Improve Neurology Education: A Qualitative Study Exploring Pediatric Residents' Perspectives.** *Clinical pediatrics*
Nguyen, T. n., Pavitt, S. n., Wusthoff, C. n., Rassbach, C. n.
2019: 9922819870557
- **Neuroimaging of Early Life Epilepsy** *PEDIATRICS*
Coryell, J., Gaillard, W. D., Shellhaas, R. A., Grinspan, Z. M., Wirrell, E. C., Knupp, K. G., Wusthoff, C. J., Keator, C., Sullivan, J. E., Loddenkemper, T., Patel, A., Chu, C. J., Massey, et al
2018; 142 (3)
- **Use of electronic medical record templates improves quality of care for patients with infantile spasms.** *Health information management : journal of the Health Information Management Association of Australia*
Santoro, J. D., Sandoval, A., Ruzhnikov, M., Brimble, E., Chadwick, W., Wusthoff, C. J.
2018: 1833358318794501
- **Development of a NeuroNICU with a Broader Focus on All Newborns at Risk of Brain Injury: The First 2 Years.** *American journal of perinatology*
Van Meurs, K. P., Yan, E. S., Randall, K. S., Chock, V. Y., Davis, A. S., Glennon, C. S., Clark, C. L., Wusthoff, C. J., Bonifacio, S. L.
2018
- **Integrative Medicine in Child Neurology: what do providers think and what do they need to learn?**
Karamian, A., Yeh, A., Wusthoff, C.
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Comparative Effectiveness of Levetiracetam vs Phenobarbital for Infantile Epilepsy** *JAMA PEDIATRICS*
Grinspan, Z. M., Shellhaas, R. A., Coryell, J., Sullivan, J. E., Wirrell, E. C., Mytinger, J. R., Gaillard, W. D., Kossoff, E. H., Valencia, I., Knupp, K. G., Wusthoff, C., Keator, C., Ryan, et al
2018; 172 (4): 352–60
- **Why West? Comparisons of clinical, genetic and molecular features of infants with and without spasms** *PLOS ONE*
Berg, A. T., Chakravorty, S., Koh, S., Grinspan, Z. M., Shellhaas, R. A., Saneto, R. P., Wirrell, E. C., Coryell, J., Chu, C. J., Mytinger, J. R., Gaillard, W. D., Valencia, I., Kriupp, et al
2018; 13 (3): e0193599
- **Cooling in neonatal hypoxic-ischemic encephalopathy: practices and opinions on minimum standards in the state of California** *JOURNAL OF PERINATOLOGY*
Wusthoff, C. J., Clark, C. L., Glass, H. C., Shimotake, T. K., Schulman, J., Bonifacio, S. L.
2018; 38 (1): 54–58
- **The impact of hypsarrhythmia on infantile spasms treatment response: Observational cohort study from the National Infantile Spasms Consortium** *EPILEPSIA*
Demarest, S. T., Shellhaas, R. A., Gaillard, W. D., Keator, C., Nickels, K. C., Hussain, S. A., Loddenkemper, T., Patel, A. D., Saneto, R. P., Wirrell, E., Fernandez, I., Chu, C. J., Grinspan, et al
2017; 58 (12): 2098–2103
- **Initial Treatment for Nonsyndromic Early-Life Epilepsy: An Unexpected Consensus.** *Pediatric neurology*
Shellhaas, R. A., Berg, A. T., Grinspan, Z. M., Wusthoff, C. J., Millichap, J. J., Loddenkemper, T., Coryell, J., Saneto, R. P., Chu, C. J., Joshi, S. M., Sullivan, J. E., Knupp, K. G., Kossoff, et al
2017; 75: 73-79
- **Early-Life Epilepsies and the Emerging Role of Genetic Testing** *JAMA PEDIATRICS*
Berg, A. T., Coryell, J., Saneto, R. P., Grinspan, Z. M., Alexander, J. J., Kekis, M., Sullivan, J. E., Wirrell, E. C., Shellhaas, R. A., Mytinger, J. R., Gaillard, W. D., Kossoff, E. H., Valencia, et al
2017; 171 (9): 863–71
- **Profile of neonatal epilepsies: Characteristics of a prospective US cohort.** *Neurology*

- Shellhaas, R. A., Wusthoff, C. J., Tsuchida, T. N., Glass, H. C., Chu, C. J., Massey, S. L., Soul, J. S., Wiwattanadittakun, N., Abend, N. S., Cilio, M. R. 2017; 89 (9): 893-899
- **Seizures in Infants Born Preterm: Defining the Scale of the Problem.** *The Journal of pediatrics*
Wusthoff, C. J.
2017; 187: 7-8
 - **Seizures in Preterm Neonates: A Multicenter Observational Cohort Study.** *Pediatric neurology*
Glass, H. C., Shellhaas, R. A., Tsuchida, T. N., Chang, T., Wusthoff, C. J., Chu, C. J., Cilio, M. R., Bonifacio, S. L., Massey, S. L., Abend, N. S., Soul, J. S.
2017
 - **Improving the Identification of Neonatal Encephalopathy: Utility of a Web-Based Video Tool** *AMERICAN JOURNAL OF PERINATOLOGY*
Ivy, A. S., Clark, C. L., Bahm, S. M., Van Meurs, K. P., Wusthoff, C. J.
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