



Courtney Wusthoff, MD

Associate Professor of Neurology and, by courtesy, of Pediatrics (Neonatology)
Neurology & Neurological Sciences

CLINICAL OFFICES

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Bio

BIO

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

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Neurology & Neurological Sciences
- Associate Professor - University Medical Line (By courtesy), Pediatrics - Neonatal and Developmental Medicine
- Member, Bio-X
- 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- present)
- Neurology Director, LPCH Neuro NICU, Lucile Packard Children's Hospital, (2013- present)

PROFESSIONAL EDUCATION

- Internship: Children's Hospital of Oakland (2006) CA
- Medical Education: University of California at San Francisco School of Medicine (2004) CA
- Fellowship: Children's Hospital of Philadelphia Child Neurology (2010) PA
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2014)
- Board Certification: Pediatrics, American Board of Pediatrics (2009)
- Board Certification: Neurology - Child Neurology, American Board of Psychiatry and Neurology (2009)
- Residency: Children's Hospital of Oakland (2009) CA

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

- Neonatal Seizure Registry - Developmental Functional Evaluation, Recruiting
- High-dose Erythropoietin for Asphyxia and Encephalopathy, Not Recruiting

Publications

PUBLICATIONS

- **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
- **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
- **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., Lptook, 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., Swarnalingam, 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*
Santorio, 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
- **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
- **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
- **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.
2017; 34 (5): 520-522
- **Interrater agreement in the interpretation of neonatal electroencephalography in hypoxic-ischemic encephalopathy.** *Epilepsia*
Wusthoff, C. J., Sullivan, J., Glass, H. C., Shellhaas, R. A., Abend, N. S., Chang, T., Tsuchida, T. N.
2017; 58 (3): 429-435
- **Treatment Duration After Acute Symptomatic Seizures in Neonates: A Multicenter Cohort Study.** *journal of pediatrics*
Shellhaas, R., Chang, T., Wusthoff, C., Soul, J., Massey, S., Chu, C., Cilio, M. R., Bonifacio, S., Abend, N., Tsuchida, T., Glass, H.

2017; 181: 298-301 e1

- **MRI Patterns of brain injury and neurodevelopmental outcomes in neonates with severe anaemia at birth.** *Early human development*
Loureiro, B., Martinez-Biarge, M., Foti, F., Papadaki, M., Cowan, F. M., Wusthoff, C. J.
2017; 105: 17-22
- **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., Meurs, K. P., Wusthoff, C. J.
2016: -?
- **Neonatal EEG: An Update.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Wusthoff, C. J.
2016; 33 (5): 375
- **Contemporary Profile of Seizures in Neonates: A Prospective Cohort Study** *JOURNAL OF PEDIATRICS*
Glass, H. C., Shellhaas, R. A., Wusthoff, C. J., Chang, T., Abend, N. S., Chu, C. J., Cilio, M. R., Glidden, D. V., Bonifacio, S. L., Massey, S., Tsuchida, T. N., Silverstein, F. S., Soul, et al
2016; 174: 98-?
- **Development and Feasibility Testing of a Critical Care EEG Monitoring Database for Standardized Clinical Reporting and Multicenter Collaborative Research** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Lee, J. W., LaRoche, S., Choi, H., Ruiz, A. A., Fertig, E., Politsky, J. M., Herman, S. T., Loddenkemper, T., Sansevere, A. J., Korb, P. J., Abend, N. S., Goldstein, J. L., Sinha, et al
2016; 33 (2): 133-140
- **Development and Feasibility Testing of a Critical Care EEG Monitoring Database for Standardized Clinical Reporting and Multicenter Collaborative Research.** *Journal of clinical neurophysiology*
Lee, J. W., LaRoche, S., Choi, H., Rodriguez Ruiz, A. A., Fertig, E., Politsky, J. M., Herman, S. T., Loddenkemper, T., Sansevere, A. J., Korb, P. J., Abend, N. S., Goldstein, J. L., Sinha, et al
2016; 33 (2): 133-140
- **50 Years Ago in The Journal of Pediatrics: Cerebrospinal Fluid Protein Values of Premature Infants.** *The Journal of pediatrics*
Wallenstein, M. B., Wusthoff, C. J.
2015; 166 (6): 1396
- **How to use: amplitude-integrated EEG (aEEG)** *ARCHIVES OF DISEASE IN CHILDHOOD-EDUCATION AND PRACTICE EDITION*
Shah, N. A., Wusthoff, C. J.
2015; 100 (2): 75-81
- **Seizures and hypothermia: Importance of electroencephalographic monitoring and considerations for treatment** *SEMINARS IN FETAL & NEONATAL MEDICINE*
Boylan, G. B., Kharoshankaya, L., Wusthoff, C. J.
2015; 20 (2): 103-108
- **Development and validation of a seizure prediction model in critically ill children.** *Seizure*
Yang, A., Arndt, D. H., Berg, R. A., Carpenter, J. L., Chapman, K. E., Dlugos, D. J., Gallentine, W. B., Giza, C. C., Goldstein, J. L., Hahn, C. D., Lerner, J. T., Loddenkemper, T., Matsumoto, et al
2015; 25: 104-111
- **Development and validation of a seizure prediction model in critically ill children** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
Yang, A., Arndt, D. H., Berg, R. A., Carpenter, J. L., Chapman, K. E., Dlugos, D. J., Gallentine, W. B., Giza, C. C., Goldstein, J. L., Hahn, C. D., Lerner, J. T., Loddenkemper, T., Matsumoto, et al
2015; 25: 104-111
- **Impact of bilirubin-induced neurologic dysfunction on neurodevelopmental outcomes.** *Seminars in fetal & neonatal medicine*
Wusthoff, C. J., Loe, I. M.
2015; 20 (1): 52-57
- **Electrographic seizures are associated with brain injury in newborns undergoing therapeutic hypothermia** *ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION*
Shah, D. K., Wusthoff, C. J., Clarke, P., Wyatt, J. S., Ramaiah, S. M., Dias, R. J., Becher, J., Kapellou, O., Boardman, J. P.

2014; 99 (3): F219-F224

- **Risk factors for EEG seizures in neonates treated with hypothermia: A multicenter cohort study.** *Neurology*
Glass, H. C., Wusthoff, C. J., Shellhaas, R. A., Tsuchida, T. N., Bonifacio, S. L., Cordeiro, M., Sullivan, J., Abend, N. S., Chang, T.
2014; 82 (14): 1239-1244
- **Electrographic seizures and status epilepticus in critically ill children and neonates with encephalopathy** *LANCET NEUROLOGY*
Abend, N. S., Wusthoff, C. J., Goldberg, E. M., Dlugos, D. J.
2013; 12 (12): 1170-1179
- **Amplitude-Integrated Electro-encephalography The Child Neurologist's Perspective** *JOURNAL OF CHILD NEUROLOGY*
Glass, H. C., Wusthoff, C. J., Shellhaas, R. A.
2013; 28 (10): 1342-1350
- **Neurodevelopmental outcome in children with congenital heart disease** *SEMINARS IN FETAL & NEONATAL MEDICINE*
Martinez-Biarge, M., Jowett, V. C., Cowan, F. M., Wusthoff, C. J.
2013; 18 (5): 279-285
- **How to use: the neonatal neurological examination.** *Archives of disease in childhood. Education and practice edition*
Wusthoff, C. J.
2013; 98 (4): 148-153
- **Genetic testing in children with epilepsy.** *Continuum (Minneapolis, Minn.)*
Wusthoff, C. J., Olson, D. M.
2013; 19 (3 Epilepsy): 795-800
- **Diagnosing Neonatal Seizures and Status Epilepticus** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Wusthoff, C. J.
2013; 30 (2): 115-121
- **American Clinical Neurophysiology Society Standardized EEG Terminology and Categorization for the Description of Continuous EEG Monitoring in Neonates: Report of the American Clinical Neurophysiology Society Critical Care Monitoring Committee** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Tsuchida, T. N., Wusthoff, C. J., Shellhaas, R. A., Abend, N. S., Hahn, C. D., Sullivan, J. E., Nguyen, S., Weinstein, S., Scher, M. S., Riviello, J. J., Clancy, R. R.
2013; 30 (2): 161-173
- **Hypoglycaemia and neonatal brain injury** *ARCHIVES OF DISEASE IN CHILDHOOD-EDUCATION AND PRACTICE EDITION*
Boardman, J. P., Wusthoff, C. J., Cowan, F. M.
2013; 98 (1): 2-6
- **American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2012 version** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Hirsch, L. J., LaRoche, S. M., Gaspard, N., Gerard, E., Svoronos, A., Herman, S. T., Mani, R., Arif, H., Jette, N., Minazad, Y., Kerrigan, J. F., Vespa, P., Hantus, et al
2013; 30 (1): 1-27
- **White Matter and Cortical Injury in Hypoxic-Ischemic Encephalopathy: Antecedent Factors and 2-Year Outcome** *JOURNAL OF PEDIATRICS*
Martinez-Biarge, M., Bregant, T., Wusthoff, C. J., Chew, A. T., Diez-Sebastian, J., Rutherford, M. A., Cowan, F. M.
2012; 161 (5): 799-807
- **Feeding and communication impairments in infants with central grey matter lesions following perinatal hypoxic-ischaemic injury** *EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY*
Martinez-Biarge, M., Diez-Sebastian, J., Wusthoff, C. J., Lawrence, S., Aloysius, A., Rutherford, M. A., Cowan, F. M.
2012; 16 (6): 688-696
- **Neonatal Seizures and Status Epilepticus** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Abend, N. S., Wusthoff, C. J.
2012; 29 (5): 441-448
- **Prediction of neurodevelopmental outcome after hypoxic-ischemic encephalopathy treated with hypothermia by diffusion tensor imaging analyzed using tract-based spatial statistics** *PEDIATRIC RESEARCH*
Tusor, N., Wusthoff, C., Smeets, N., Merchant, N., Arichi, T., Allsop, J. M., Cowan, F. M., Azzopardi, D., Edwards, A. D., Counsell, S. J.
2012; 72 (1): 63-69

- **Amplitude-integrated electroencephalography: a runaway horse?** *Canadian journal of neurological sciences. Le journal canadien des sciences neurologiques*
Dysart, K. C., Kirpalani, H. M., Kirpalani, H. M., Wusthoff, C. J., Seshia, S. S.
2012; 39 (3): 267-268
- **Modified Pediatric ASPECTS Correlates with Infarct Volume in Childhood Arterial Ischemic Stroke.** *Frontiers in neurology*
Beslow, L. A., Vossough, A., Dahmouh, H. M., Kessler, S. K., Stainman, R., Favilla, C. G., Wusthoff, C. J., Zelonis, S., Licht, D. J., Ichord, R. N., Smith, S. E.
2012; 3: 122-?
- **The American Clinical Neurophysiology Society's Guideline on Continuous Electroencephalography Monitoring in Neonates** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
Shellhaas, R. A., Chang, T., Tsuchida, T., Scher, M. S., Riviello, J. J., Abend, N. S., Sylvie Nguyen, S., Wusthoff, C. J., Clancy, R. R.
2011; 28 (6): 611-617
- **Risk of Later Seizure After Perinatal Arterial Ischemic Stroke: A Prospective Cohort Study** *PEDIATRICS*
Wusthoff, C. J., Kessler, S. K., Vossough, A., Ichord, R., Zelonis, S., Halperin, A., Gordon, D., Vargas, G., Licht, D. J., Smith, S. E.
2011; 127 (6): E1550-E1557
- **Electrographic Seizures During Therapeutic Hypothermia for Neonatal Hypoxic-Ischemic Encephalopathy** *JOURNAL OF CHILD NEUROLOGY*
Wusthoff, C. J., Dlugos, D. J., Gutierrez-Colina, A., Wang, A., Cook, N., Donnelly, M., Clancy, R., Abend, N. S.
2011; 26 (6): 724-728
- **The ketogenic diet in treatment of two adults with prolonged nonconvulsive status epilepticus** *EPILEPSIA*
Wusthoff, C. J., Kranick, S. M., Morley, J. F., Bergqvist, A. G.
2010; 51 (6): 1083-1085
- **Interictal EEG spikes identify the region of electrographic seizure onset in some, but not all, pediatric epilepsy patients** *EPILEPSIA*
Marsh, E. D., Peltzer, B., Brown, M. W., Wusthoff, C., Storm, P. B., Litt, B., Porter, B. E.
2010; 51 (4): 592-601
- **Limitations of single-channel EEG on the forehead for neonatal seizure detection** *JOURNAL OF PERINATOLOGY*
Wusthoff, C. J., Shellhaas, R. A., Clancy, R. R.
2009; 29 (3): 237-242
- **Hemosiderin-laden macrophages in the cerebrospinal fluid of a neonate after traumatic lumbar puncture** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Wusthoff, C. J., Abend, N. S., Tennekoon, G.
2008; 27 (1): 83-84
- **Management of common neurologic symptoms in pediatric palliative care: Seizures, agitation, and spasticity** *PEDIATRIC CLINICS OF NORTH AMERICA*
Wusthoff, C. J., Shellhaas, R. A., Licht, D. J.
2007; 54 (5): 709-?
- **Differences in pediatric oncologists' estimates of curability and treatment recommendations for patients with advanced cancer: Response** *PEDIATRIC BLOOD & CANCER*
Wusthoff, C. J., Ablin, A. R., McMillan, A.
2005; 45 (3): 358-358
- **Differences in pediatric oncologists' estimates of curability and treatment recommendations for patients with advanced cancer** *PEDIATRIC BLOOD & CANCER*
Wusthoff, C. J., McMillan, A., Ablin, A. R.
2005; 44 (2): 174-181
- **The dilemma of confidentiality in Huntington disease** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Wusthoff, C.
2003; 290 (9): 1219-1220
- **Medical mistakes and disclosure: The role of the medical student** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Wusthoff, C. J.
2001; 286 (9): 1080-1081
- **Numerical subtraction in the pigeon: Evidence for a linear subjective number scale** *PSYCHOLOGICAL SCIENCE*

Brannon, E. M., Wusthoff, C. J., Gallistel, C. R., Gibbon, J.
2001; 12 (3): 238-243