





Kimford Meador, MD

Professor of Neurology at the Stanford University Medical Center
Neurology & Neurological Sciences

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Meador is a Professor of Neurology and Neurosciences at Stanford University, and Clinical Director, Stanford Comprehensive Epilepsy Center. Dr. Meador graduated from the Georgia Institute of Technology in Applied Biology (with high honor) and received his MD from the Medical College of Georgia. After an internship at the University of Virginia and service as an officer in the Public Health Corps, he completed a residency in Neurology at the Medical College of Georgia and a fellowship in Behavioral Neurology at the University of Florida. Dr. Meador joined the faculty at the Medical College of Georgia (1984-2002) where he became the Charbonnier Professor of Neurology. He was the Chair of Neurology at Georgetown University (2002-2004), the Melvin Greer Professor of Neurology and Neuroscience at the University of Florida (2004-2008) where he served as Director of Epilepsy Program and Director of the Clinical Alzheimer Research Program, and Professor of Neurology and Pediatrics at Emory University (2008-2013) where he served as Director of Epilepsy and of Clinical Neuroscience Research. He joined the faculty of Stanford University in 2013. Dr. Meador has authored over 400 peer-reviewed publications. His research interests include: cognitive mechanisms (e.g., memory and attention); cerebral lateralization; pharmacology and physiology of cognition; mechanisms of perception, consciousness and memory; EEG; epilepsy; epilepsy and pregnancy; preoperative evaluation for epilepsy surgery; intracarotid amobarbital procedure (i.e., Wada test); functional imaging; therapeutic drug trials; neurodevelopmental effects of antiepileptic drugs; psychoimmunology; behavioral disorders (e.g., aphasia, neglect, dementia); and neuropsychiatric disorders. Dr. Meador has served as the PI for a long running NIH multicenter study of pregnancy outcomes in women with epilepsy and their children. Dr. Meador has served on the editorial boards for Clinical Neurophysiology, Epilepsy and Behavior, Epilepsy Currents, Journal of Clinical Neurophysiology, Neurology, Cognitive and Behavioral Neurology, and Epilepsy.com. His honors include Resident Teaching Award Medical College of Georgia; Outstanding Young Faculty Award in Clinical Sciences Medical College of Georgia; Distinguished Faculty Award for Clinical Research Medical College of Georgia Lawrence C. McHenry History Award American Academy of Neurology; Dreifuss Abstract Award American Epilepsy Society; Fellow of the American Neurological Association; Diplomat of American Neurologic Association; past Chair of the Section of Behavioral Neurology of American Academy of Neurology; past President of Society for Cognitive and Behavioral Neurology; past President of the Society for Behavioral & Cognitive Neurology; past President of the Southern EEG & Epilepsy Society; ranking in the top 10 experts in epilepsy worldwide by Expertscape; Distinguished Alumnus Award for Professional Achievement, Medical College of Georgia, Georgia Regents University 2015; American Epilepsy Society Clinical Research Award; and named award by the American Epilepsy Society: "Kimford J. Meador Research in Women with Epilepsy Award."

CLINICAL FOCUS

- Neurology
- epilepsy
- epilepsy & pregnancy

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Neurology & Neurological Sciences
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- Fellowship: University of Florida Behavioral Neurology Fellowship (1984) FL
- Residency: Medical College of Georgia Neurology Residency (1983) GA
- Medical Education: Medical College of Georgia Registrar (1976) GA
- Internship: University of Virginia School of Medicine (1977) VA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1985)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Maternal and Neurodevelopmental Outcomes of in Utero Antiepileptic Drug (AED) Exposure, Not Recruiting
- Methylphenidate Treatment of Attention Deficits in Epilepsy, Not Recruiting

Publications

PUBLICATIONS

- **Antiepileptic Drug Exposure in Infants of Breastfeeding Mothers With Epilepsy.** *JAMA neurology*
Birnbaum, A. K., Meador, K. J., Karanam, A., Brown, C., May, R. C., Gerard, E. E., Gedzelman, E. R., Penovich, P. E., Kalayjian, L. A., Cavitt, J., Pack, A. M., Miller, J. W., Stowe, et al
2019
- **Differential antiseizure medication sensitivity of the Affective Reactivity Index: A randomized controlled trial in new-onset pediatric focal epilepsy.** *Epilepsy & behavior : E&B*
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- **Management of epilepsy in pregnancy: A report from the International League Against Epilepsy Task Force on Women and Pregnancy.** *Epilepsia*
Tomson, T., Battino, D., Bromley, R., Kochen, S., Meador, K., Pennell, P., Thomas, S. V.
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- **Standardized Brain MRI Acquisition Protocols Improve Statistical Power in Multicenter Quantitative Morphometry Studies** *JOURNAL OF NEUROIMAGING*
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- **Long-term neurodevelopmental outcomes in children with prenatal opioid exposure**
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- **Migraine comorbidity and cognitive performance in patients with focal epilepsy.** *Epilepsy & behavior : E&B*
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2019; 97: 29–33
- **Lamotrigine and hemophagocytic lymphohistiocytosis** *NEUROLOGY*
Meador, K. J., Gidal, B. E.
2019; 92 (21): 979–80
- **Comparative neuropsychological effects of carbamazepine and eslicarbazepine acetate** *EPILEPSY & BEHAVIOR*
Meador, K. J., Seliger, J., Boyd, A., Razavi, B., Falco-Walter, J., Le, S., Loring, D. W.
2019; 94: 151–57
- **Lamotrigine and hemophagocytic lymphohistiocytosis.** *Neurology*
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2019
- **Comparative Neuropsychological Effects of Carbamazepine and Eslicarbazepine Acetate**
Meador, K., Seliger, J., Razavi, B., Falco-Walter, J., Le, S., Loring, D.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Time Course of Efficacy and Tolerability Outcomes With Adjunctive Brivaracetam in Adults: A Post Hoc Analysis**
Meador, K., Laloyaux, C., Elmoufti, S., Gasalla, T., Fishman, J., Martin, M., Klein, P.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Comparative neuropsychological effects of carbamazepine and eslicarbazepine acetate.** *Epilepsy & behavior : E&B*
Meador, K. J., Seliger, J., Boyd, A., Razavi, B., Falco-Walter, J., Le, S., Loring, D. W.
2019; 94: 151–57
- **Fetal antiepileptic drug exposure and learning and memory functioning at 6#years of age: The NEAD prospective observational study.***Epilepsy & behavior : E&B*
Cohen, M. J., Meador, K. J., May, R., Lobein, H., Conrad, T., Baker, G. A., Bromley, R. L., Clayton-Smith, J., Kalayjian, L. A., Kanner, A., Liporace, J. D., Pennell, P. B., Privitera, et al
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- **Fetal Valproate Exposure and Attention-Deficit/Hyperactivity Disorder.** *JAMA network open*
Meador, K. J.
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- **Effects of periconceptional folate on cognition in children of women with epilepsy: NEAD study.** *Neurology*
Meador, K. J., Pennell, P. B., May, R. C., Brown, C. A., Baker, G., Bromley, R., Loring, D. W., Cohen, M. J.
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- **Fetal loss and malformations in the MONEAD study of pregnant women with epilepsy.** *Neurology*
Meador, K. J., Pennell, P. B., May, R. C., Van Marter, L., McElrath, T. F., Brown, C., Gerard, E., Kalayjian, L., Gedzelman, E., Penovich, P., Cavitt, J., French, J., Hwang, et al
2019
- **Tripolar concentric EEG electrodes reduce noise.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*
Aghaei-Lasboo, A., Inoyama, K., Fogarty, A. S., Kuo, J., Meador, K. J., Walter, J. J., Le, S. T., Graber, K. D., Razavi, B., Fisher, R. S.
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- **Reducing birth defects in women with epilepsy: Research leading to results.** *Neurology*
Pennell, P. B., Meador, K. J.
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- **Fetal Valproate Exposure and Attention-Deficit/Hyperactivity Disorder** *JAMA NETWORK OPEN*
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 - **Management of epilepsy in pregnancy: a report from the International League Against Epilepsy Task Force on Women and Pregnancy.** *Epileptic disorders : international epilepsy journal with videotape*
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2019
 - **Readmitted after a seizure-related hospitalization: Deja vu.** *Neurology*
Jette, N., Meador, K. J., Kwon, C.
2018
 - **Metabolome-wide association study of anti-epileptic drug treatment during pregnancy.** *Toxicology and applied pharmacology*
Walker, D. I., Perry-Walker, K., Finnell, R. H., Pennell, K. D., Tran, V., May, R. C., McElrath, T. F., Meador, K. J., Pennell, P. B., Jones, D. P.
2018; 363: 122–30
 - **Does memantine improve memory in subjects with focal-onset epilepsy and memory dysfunction? A randomized, double-blind, placebo-controlled trial.** *Epilepsy & behavior : E&B*
Leeman-Markowski, B. A., Meador, K. J., Moo, L. R., Cole, A. J., Hoch, D. B., Garcia, E., Schachter, S. C.
2018; 88: 315–24
 - **Laser interstitial thermal therapy (LITT): Seizure outcomes for refractory mesial temporal lobe epilepsy.** *Epilepsy & behavior : E&B*
Le, S., Ho, A. L., Fisher, R. S., Miller, K. J., Henderson, J. M., Grant, G. A., Meador, K. J., Halpern, C. H.
2018; 89: 37–41
 - **Focal Ablations of the Amygdala and Hippocampus Infrequently Results in Verbal Memory Impairment**
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 - **Effects of Periconceptional Folate on Language Function in Children of Pregnant Women with Epilepsy: Findings from the NEAD Study**
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 - **COMMENT ON: USE OF ANTIEPILEPTIC DRUGS AND DEMENTIA RISK** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
Sarkis, R. A., Meador, K. J.
2018; 66 (9): 1852–53
 - **Long-term effects of adjunctive perampanel on cognition in adolescents with partial seizures** *EPILEPSY & BEHAVIOR*
Pina-Garza, J. E., Lagae, L., Villanueva, V., Ben Renfroe, J., Laurenza, A., Williams, B., Kumar, D., Meador, K. J.
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 - **Cognitive safety of intracranial electrodes for epilepsy.** *Epilepsia*
Meador, K. J., Halpern, C. H., Hermann, B. P.
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 - **Changes in antiepileptic drug-prescribing patterns in pregnant women with epilepsy.** *Epilepsy & behavior : E&B*
Meador, K. J., Pennell, P. B., May, R. C., Gerard, E., Kalayjian, L., Velez-Ruiz, N., Penovich, P., Cavitt, J., French, J., Hwang, S., Pack, A. M., Sam, M., Moore, et al
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 - **Searching for the good and bad high-frequency oscillations** *NEUROLOGY*
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- **Quantitative EEG Metrics Differ Between Outcome Groups and Change Over the First 72 h in Comatose Cardiac Arrest Patients** *NEUROCRITICAL CARE*
Wiley, S., Razavi, B., Krishnamohan, P., Mlynash, M., Eyngorn, I., Meador, K. J., Hirsch, K. G.
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- **Periconceptional Folate Supplementation and the Risk of Autism Following Antiepileptic Drug Exposure** *JAMA NEUROLOGY*
Meador, K. J.
2018; 75 (2): 151–52
- **Pitfalls in developing precision medicine for genetic epilepsy** *NEUROLOGY*
Meador, K. J., Shin, C.
2018; 90 (1): 16–17
- **MISCARRIAGES IN PREGNANT WOMEN WITH EPILEPSY: FINDINGS FROM THE MONEAD STUDY**
Meador, K. J., Pennell, P. B., May, R. C., McElrath, F. T., Gerard, E., Kalayjian, L., Velez-Ruiz, N., Gedzelman, E., Penovich, P., Cavitt, J., Hwang, S., Pack, A., Moore, et al
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- **Methylphenidate, cognition, and epilepsy: A 1-month open-label trial** *EPILEPSIA*
Adams, J., Alipio-Jocson, V., Inoyama, K., Bartlett, V., Sandhu, S., Oso, J., Barry, J. J., Loring, D. W., Meador, K. J.
2017; 58 (12): 2124–32
- **Is neurostimulation through the vagal nerve safe during pregnancy?** *EPILEPSY RESEARCH*
Voinescu, P., Meador, K. J.
2017; 137: 163–64
- **Brain-responsive neurostimulation in patients with medically intractable seizures arising from eloquent and other neocortical areas.** *Epilepsia*
Jobst, B. C., Kapur, R., Barkley, G. L., Bazil, C. W., Berg, M. J., Bergey, G. K., Boggs, J. G., Cash, S. S., Cole, A. J., Duchowny, M. S., Duckrow, R. B., Edwards, J. C., Eisenschenk, et al
2017; 58 (6): 1005-1014
- **Brain-responsive neurostimulation in patients with medically intractable mesial temporal lobe epilepsy.** *Epilepsia*
Geller, E. B., Skarpaas, T. L., Gross, R. E., Goodman, R. R., Barkley, G. L., Bazil, C. W., Berg, M. J., Bergey, G. K., Cash, S. S., Cole, A. J., Duckrow, R. B., Edwards, J. C., Eisenschenk, et al
2017; 58 (6): 994-1004
- **Consciousness post corpus callosotomy.** *Brain*
Meador, K. J., Loring, D. W., Sathian, K.
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- **Memory and mood outcomes after anterior thalamic stimulation for refractory partial epilepsy** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
Troester, A. I., Meador, K. J., Irwin, C. P., Fisher, R. S.
2017; 45: 133-141
- **Methylphenidate, cognition, and epilepsy: A double-blind, placebo-controlled, single-dose study.** *Neurology*
Adams, J., Alipio-Jocson, V., Inoyama, K., Bartlett, V., Sandhu, S., Oso, J., Barry, J. J., Loring, D. W., Meador, K.
2017; 88 (5): 470-476
- **Neuroimaging somatosensory perception and masking** *NEUROPSYCHOLOGIA*
Meador, K. J., Revill, K. P., Epstein, C. M., Sathian, K., Loring, D. W., Rorden, C.
2017; 94: 44-51
- **Combining adverse pregnancy and perinatal outcomes for women exposed to antiepileptic drugs during pregnancy, using a latent trait model** *BMC PREGNANCY AND CHILDBIRTH*
Wen, X., Hartzema, A., Delaney, J. A., Brumback, B., Liu, X., Egerman, R., Roth, J., Segal, R., Meador, K. J.
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- **Relationship of Reaction Time to Perception of a Stimulus and Volitionally Delayed Response.** *Cognitive and behavioral neurology : official journal of the Society for Behavioral and Cognitive Neurology*

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- Meador, K. J., Boyd, A., Loring, D. W.
2017; 30 (2): 57–61
- **Epilepsy and unintended pregnancies.** *Neurology*
Meador, K. J., Lindhout, D.
2017; 88 (8): 724–25
 - **Neurodevelopmental Effects of Antiepileptic Drugs.** *Neurochemical research*
Kellogg, M., Meador, K. J.
2017; 42 (7): 2065–70
 - **Randomized double-blind comparison of cognitive and EEG effects of lacosamide and carbamazepine** *EPILEPSY & BEHAVIOR*
Meador, K. J., Loring, D. W., Boyd, A., Echaz, J., LaRoche, S., Velez-Ruiz, N., Korb, P., Byrnes, W., Dilley, D., Borghs, S., De Backer, M., Story, T., Dedeken, et al
2016; 62: 267-275
 - **Adjunctive perampanel in adolescents with inadequately controlled partial-onset seizures: A randomized study evaluating behavior, efficacy, and safety** *EPILEPSIA*
Lagae, L., Villanueva, V., Meador, K. J., Bagul, M., Laurenza, A., Kumar, D., Yang, H.
2016; 57 (7): 1120-1129
 - **Cognitive effects of adjunctive perampanel for partial-onset seizures: A randomized trial** *EPILEPSIA*
Meador, K. J., Yang, H., Pina-Garza, J. E., Laurenza, A., Kumar, D., Wesnes, K. A.
2016; 57 (2): 243-251
 - **Developmental effects of antiepileptic drugs and the need for improved regulations** *NEUROLOGY*
Meador, K. J., Loring, D. W.
2016; 86 (3): 297-306
 - **Consequences of Influencing Physician Behavior.** *JAMA*
Meador, K. J.
2016; 315 (21): 2350–51
 - **Developmental effects of antiepileptic drugs and the need for improved regulations.** *Neurology*
Meador, K. J., Loring, D. W.
2016; 86 (3): 297–306
 - **Valproic acid: reducing the risks of prenatal exposure.** *The Lancet. Neurology*
Meador, K. J.
2016; 15 (2): 132–33
 - **A common medication for neuropsychiatric illnesses may cause common problems in pregnancy.** *Neurology*
Pennell, P. B., Meador, K. J.
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 - **Differential neuropsychological outcomes following targeted responsive neurostimulation for partial-onset epilepsy** *EPILEPSIA*
Loring, D. W., Kapur, R., Meador, K. J., Morrell, M. J.
2015; 56 (11): 1836-1844
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Leeman-Markowski, B. A., Smart, O. L., Faught, R. E., Gross, R. E., Meador, K. J.
2015; 51: 215-220
 - **Decline of clinical research in academic medical centers** *NEUROLOGY*
Meador, K. J.
2015; 85 (13): 1171-1176
 - **Improving clinical cognitive testing Report of the AAN Behavioral Neurology Section Workgroup** *NEUROLOGY*
Daffner, K. R., Gale, S. A., Barrett, A. M., Boeve, B. F., Chatterjee, A., Coslett, H. B., D'Esposito, M., Finney, G. R., Gitelman, D. R., Hart, J. J., Lerner, A. J., Meador, K. J., Pietras, et al
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- **Cognitive outcomes of prenatal antiepileptic drug exposure** *EPILEPSY RESEARCH*
Inoyama, K., Meador, K. J.
2015; 114: 89-97
- **Quality of life and mood in patients with medically intractable epilepsy treated with targeted responsive neurostimulation** *EPILEPSY & BEHAVIOR*
Meador, K. J., Kapur, R., Loring, D. W., Kanner, A. M., Morrell, M. J.
2015; 45: 242-247
- **Antiepileptic drug use by pregnant women enrolled in Florida Medicaid** *NEUROLOGY*
Wen, X., Meador, K. J., Hartzema, A.
2015; 84 (9): 944-950
- **Neurodevelopmental Effects of Fetal Antiepileptic Drug Exposure** *DRUG SAFETY*
Velez-Ruiz, N. J., Meador, K. J.
2015; 38 (3): 271-278
- **IQ at 6 years after in utero exposure to antiepileptic drugs A controlled cohort study** *NEUROLOGY*
Baker, G. A., Bromley, R. L., Briggs, M., Cheyne, C. P., Cohen, M. J., Garcia-Finana, M., Gummery, A., Kneen, R., Loring, D. W., Mawer, G., Meador, K. J., Shallcross, R., Clayton-Smith, et al
2015; 84 (4): 382-390
- **Better object recognition and naming outcome with MRI-guided stereotactic laser amygdalohippocampotomy for temporal lobe epilepsy** *EPILEPSIA*
Drane, D. L., Loring, D. W., Voets, N. L., Price, M., Ojemann, J. G., Willie, J. T., Saindane, A. M., Phatak, V., Ivanisevic, M., Millis, S., Helmers, S. L., Miller, J. W., Meador, et al
2015; 56 (1): 101-113
- **Predicting memory change after temporal lobectomy for epilepsy.** *Neurology*
Trenerry, M. R., Meador, K. J.
2015; 84 (15): 1508-9
- **An Update on Maternal Use of Antiepileptic Medications in Pregnancy and Neurodevelopment Outcomes.** *Journal of pediatric genetics*
Gerard, E. E., Meador, K. J.
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- **Risks of Epilepsy During Pregnancy: How Much Do We Really Know?** *JAMA neurology*
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- **Risks during pregnancy in women with epilepsy.** *Lancet (London, England)*
Meador, K. J.
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- **Remember...there is more to epilepsy than seizures!** *Neurology*
Kanner, A. M., Meador, K. J.
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- **Distribution of seizures across the menstrual cycle in women with epilepsy.** *Epilepsia*
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2015; 56: e58-62
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- **Low vitamin D levels are common in patients with epilepsy** *EPILEPSY RESEARCH*
Teagarden, D. L., Meador, K. J., Loring, D. W.
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- **Breastfeeding in children of women taking antiepileptic drugs: cognitive outcomes at age 6 years.** *JAMA pediatrics*

- Meador, K. J., Baker, G. A., Browning, N., Cohen, M. J., Bromley, R. L., Clayton-Smith, J., Kalayjian, L. A., Kanner, A., Liporace, J. D., Pennell, P. B., Privitera, M., Loring, D. W.
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- **Breastfeeding and Antiepileptic Drugs** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Meador, K. J.
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 - **Cortical cartography reveals political and physical maps.** *Epilepsia*
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 - **Patient and caregiver quality of life in psychogenic non-epileptic seizures compared to epileptic seizures** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
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 - **Epilepsy: Pregnancy in women with epilepsy--risks and management.** *Nature reviews. Neurology*
Meador, K. J.
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 - **Seizure Reduction with Fluoxetine in Dravet Syndrome.** *Epilepsy & behavior case reports*
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 - **Caregiver burden in epilepsy: determinants and impact.** *Epilepsy research and treatment*
Karakis, I., Cole, A. J., Montouris, G. D., San Luciano, M., Meador, K. J., Piperidou, C.
2014; 2014: 808421-?
 - **Do antiepileptic drugs cause suicidal behavior?** *NEUROLOGY*
Harden, C. L., Meador, K. J.
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 - **Fetal antiepileptic drug exposure: Adaptive and emotional/behavioral functioning at age 6 years** *EPILEPSY & BEHAVIOR*
Cohen, M. J., Meador, K. J., Browning, N., May, R., Baker, G. A., Clayton-Smith, J., Kalayjian, L. A., Kanner, A., Liporace, J. D., Pennell, P. B., Privitera, M., Loring, D. W.
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 - **The effect of epilepsy surgery on caregiver quality of life** *EPILEPSY RESEARCH*
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 - **Comment: valproate dose effects differ across congenital malformations.** *Neurology*
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 - **Managing common complex symptomatic epilepsies: tumors and trauma: american epilepsy society - 2012 annual course summary.** *Epilepsy currents*
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