

CURRICULUM VITAE

Nathan B. Fountain, M.D.

Personal Data:

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Education:

1981-1985 Bachelor of Science in Zoology with Highest Distinction, May, 1985
University of Iowa, Iowa City, Iowa

1985-1989 Doctor of Medicine, May, 1989
University of Iowa College of Medicine, Iowa City, Iowa

Post-graduate Training and Fellowships:

1989-1990 Intern, Department of Internal Medicine
University of Virginia, Charlottesville, Virginia

1990-1993 Resident, Department of Neurology
University of Virginia, Charlottesville, Virginia

1992-1993 Chief Resident, Department of Neurology
University of Virginia, Charlottesville, Virginia

1993-1994 Clinical Neurophysiology/EEG and Epilepsy Fellowship
University of Virginia, Charlottesville, Virginia

1994-1996 Experimental/Clinical Epilepsy Fellowship
University of Virginia, Charlottesville, Virginia

Academic Appointments:

7/96-7/01	Assistant Professor, Department of Neurology University of Virginia School of Medicine, Charlottesville, Virginia
10/97-present	Director, F.E. Dreifuss Comprehensive Epilepsy Program University of Virginia School of Medicine, Charlottesville, Virginia
10/97- present	Director, EEG and Epilepsy Fellowships University of Virginia School of Medicine, Charlottesville, Virginia
2/98- present	Director, Rural Outreach Neurology Clinics University of Virginia Health Sciences Center, Charlottesville, Virginia
7/01-7/05	Associate Professor, Department of Neurology University of Virginia School of Medicine, Charlottesville, Virginia
7/05- 6/09	Associate Professor Without Term (tenure), Department of Neurology University of Virginia School of Medicine, Charlottesville, Virginia
7/09-present	Professor, Department of Neurology University of Virginia School of Medicine, Charlottesville, Virginia

Certification:

Federal Licensure Examination, 1989
American Board of Psychiatry and Neurology - *Neurology* 1995-2005, 2005-2015, 2017-2027
American Board of Psychiatry and Neurology - *Clinical Neurophysiology* 1999-2009, 2010-2020
American Board of Psychiatry and Neurology - *Epilepsy* (#148), 2013-2023
American Board of Clinical Neurophysiology, 1997 (permanent)

Licensure:

Medical License for the Commonwealth of Virginia, 1992, exp 2/28/19
Medical License for the State of Tennessee, 1997, inactive

Honors and Awards:

1985	Bachelor of Science with Special Honors
1982-1985	University of Iowa Honors Society Member
1982-1985	Iowa Foundation Scholarships
1984	Iowa Undergraduate Scholar
1985	University of Iowa Certificate of Achievement/Collegiate Scholar
1985	Medical Student Research Fellowship
1988	University of Iowa Class of 1934 Academic Scholarship

1989	Barry Freeman Fellowship for study in Papua New Guinea
1994	Epilepsy Foundation of America Clinical Research Grant
1995	Epilepsy Foundation of America Clinical Research Grant
1996	Alpha Omega Alpha Medical Honor Society
2007-present	Best Doctors in America
2007	Visiting Professorship, Ain Shams University, Cairo, Egypt
2010	Visiting Professorship, Anshan Changda Hospital, Anshan, China
2012	Keynote Speaker, Egyptian Society of Neurology Conference, Cairo
2016	Fellow, American Epilepsy Society

Professional Activities:

Editorial Boards

2000-2005	<i>Micromedex Diseasedex</i>
2002-2007	<i>American College of Physicians - Physicians Information and Education Resource (PIER)</i>
2005-2014	<i>Epilepsy Currents</i>
2014-2016	Epilepsy.com, <i>Epilepsy & Behavior</i> abstract and PAB section editor

Journal Referee

1995-present	<i>Neurology</i>
1997-2000	<i>CNS Drugs</i>
1998-1999	<i>Drug Safety</i>
1999-2000	<i>Sleep Research Online</i>
2000-present	<i>Epilepsia</i>
2003-2004	<i>Clinical Neuropharmacology</i>
2003-present	<i>Epilepsy and Behavior</i>
2003-2004	<i>JAMA, Journal of the American Medical Association</i>
2007	<i>Neuropsychiatric Disease and Treatment</i>
2007	<i>Clinical Pharmacokinetics</i>
2007	<i>Drug Design, Development and Therapy</i>
2008-present	<i>Acta Neurologica Scandinavica</i>
2008-present	<i>Epilepsy Research</i>
2008-present	<i>Journal of Pediatric Neurology</i>
2008-present	<i>Mayo Clinic Proceedings</i>
2009-present	<i>European Journal of Neurology</i>
2009-present	<i>Clinical Neurophysiology</i>
2010-present	<i>Neurosurgery</i>
2011-present	<i>Annals of Neurology</i>
2012-present	<i>Seizure</i>
2013-present	<i>North African and Middle Eastern Epilepsy Journal</i>
2017	<i>New England Journal of Medicine</i>

Grant and Federal Review Committees

1998-1999	Scientific Review Committee, Comitato Telethon Grants, Rome, Italy
2000	Israel Science Foundation

2002	Georgian -U.S. Civilian Research and Development Foundation
2004	CDC Quality of Epilepsy Care Grant Review Panel, 2004-R19
2006	Epilepsy Quality of Care Measures, Expert Review Panel, Boston University
2007	CDC Epidemiology of Epilepsy Grant Review Panel, 2007-R05
2009	CDC Epilepsy Special Emphasis Panel 2009
2009-2010	FDA Advisory Committee Consultant, Peripheral and CNS Drugs
2010-2014	FDA Advisory Committee Chair (11-14), Peripheral and CNS Drugs
2014-2017	FDA Advisory Committee Consultant, Peripheral and CNS Drugs
2018-2022	FDA Advisory Committee Member, Peripheral and CNS Drugs
2010	EF Grant Review Panel, Targeted Initiative for Seniors
2010-2016	EF Grant Reviews (Morbidity and Mortality in Epilepsy, Section Head)
2017	FBI Critical Incident Response Group, consultant

Professional Societies: National Offices and Committees

American Academy of Neurology (AAN)

1999-2004	Epilepsy Education Committee
2001-2002	Practice Parameter Reviewer Network
2008-2015	Epilepsy Quality Performance Measures Work Group, Co-Chair
2009	Scientific Abstract Review Committee
2011	Neuropsychometric and Seizure Devices FDA Workshop Committee
2011	Epilepsy Quality Metrics Analysis Group
2014	Epilepsy Quality Measures Revision Work Group, Co-Chair
2014	Scientific Abstract Review Committee

American Epilepsy Society (AES)

2001-2004	Annual Course Committee
2002-2004	Scientific Program Committee
2007-2010	Annual Course Committee
2009-2016	Nonepileptic Seizures Task Force
2010-2014	EMU Safety Committee
2011-2013	Practice Management Committee, Quality Subcommittee chair

National Association of Epilepsy Centers (NAEC)

2005-present	Board of Directors
2006	Epilepsy Quality Care Indicators Committee
2010-2011	Treasurer
2011-2015	Vice President
2015-2019	President
2017-2019	CPT Panel 95951 Applicant Group

American Clinical Neurophysiology Society (ACNS)

2005-2016	Critical Care Monitoring Committee
2008	Oral Board Examiner

Epilepsy Foundation (EF)

2007-2016	Professional Advisory Board (PAB) Chair (2014-2016), Chair-elect (2011-2013),
2008-2013	PAB Quality of Life Committee, chair (2011-2013)
2010	PAB Epilepsy Referral Guidelines/Standards of Care Workgroup
2010	EF/NICHQ Educational Stakeholder Conference, member
2010-present	Research Council

2015-present Research Roundtable, Founding Co-chair
 Epilepsy Research Foundation (ERF), Epilepsy Therapy Project (ETP)
 2011-present Board of Directors
 American Board of Psychiatry and Neurology (ABPN)
 2009-2013 Clinical Neurophysiology Maintenance of Certification Committee
 American College of Emergency Physicians
 2003 Policy Reviewer, Clinical Policies Committee
 Vision 20/20
 2010-2014 NAEC Representative
 2011-2012 Institute of Medicine (IOM) “Epilepsy Across the Spectrum” report
 2013 Intractable Epilepsy Awareness Web-based IOM Tool Development

Professional Societies: Regional Offices and Committees

Epilepsy Foundation of Virginia
 1999-2002 Professional Advisory Board
 2002-2009 President
 2009-present Professional Advisory Board Chair
 Virginia Neurological Society
 2003-2013 Executive Council; President (11-13), President Elect (09-11),
 Vice-President (07-09), Treasurer (05-07), Councilor (03-05)

Professional Societies: Memberships

1992-present American Academy of Neurology (AAN)
 1996-present American Epilepsy Society (AES)
 1998-present American Clinical Neurophysiology Society (ACNS)
 1998-present National Association of Epilepsy Centers (NAEC)

Grant Development Committees, Advisory Boards

2003-2006 Epilepsy Development Advisory Board, Med Pointe Pharmaceuticals
 2004-2008 Epilepsy Drug Development Advisory Board, UCB Pharma
 2004-2008 Epilepsy Drug Development Advisory Board, Schwarz Biosciences
 2006-2008 Monotherapy RCT Grant Development Committee (M. Privitera, PI)
 2007 Schwarz SP902 Monotherapy Steering Committee
 2008-2009 Prospective trial of levetiracetam for antiepileptogenesis after traumatic brain
 injury, Grant Development Committee (P. Klein, multicenter PI)
 2010-present Established Status Epilepticus Treatment Trial (ESETT) Grant Development
 Committee and Clinical Adjudication Committee (J. Kapur, PI)
 2015-present Adjudication Committee, Medtronic Registry for Epilepsy
 (MORE), Medtronic
 2016-present Medical Monitor, Dose Ranging Study to Assess Intracerebroventricular
 (ICV) Valproate in Temporal Lobe Seizures, Cerebral Therapeutics

Institutional and Neurology Department Committees

2002-2003 Multiple Sclerosis Faculty Search Committee
 2002-2003 Pediatric Epilepsy Faculty Search Committee
 2003-2007 Health Services Foundation, Physician Advisory Council
 2004-2007 Epilepsy Faculty Search Committee

2005-2007	Research Administration and Compliance Computing Initiative
2008-2011	Dean's Research Advisory Committee, Chair 2010
2008	Investigator Advisory Committee of Institutional Review Board
2010	Epic EMR Research Committee
2010	Epilepsy Neurology Faculty Search Committee
2010	Pediatric Neurology Faculty Search Committee
2010	Clinical Research Advisory Committee
2013-present	Epic Research Advisory Committee

School of Medicine Standing Teaching Assignments

1994- 2017	Neurology Physical Diagnosis Section (POM), Founding Course Director
1996-2001	Clinical Neurophysiology Resident Lecture Series, Lecturer
1996- present	Neurology Clerkship; Problem Set Discussion Preceptor, Lecturer
1997- present	Epilepsy Fellows Weekly Reading Conference; Preceptor, Lecturer
1997-1998	Medical Neuroscience Course; Lecturer, Anatomy Lab Instructor, Case Discussion Preceptor
1998-1999	Graduate Dissertation Committee, Greg Harrington, Physics and Engineering Departments, "Fourier generated empirical functional MRI models"
1999- 2016	Medical Scientist Training Program Practice of Medicine, Course Preceptor
1999- present	Epilepsy Nurse Conference
2002-2003	Graduate Dissertation Committee, Teiko Miyashita, Department of Psychology, "Modulation of hippocampal noradrenergic systems as a neural substrate for memory enhancement initiated by peripheral arousal"

Grants and Contracts:

Investigator Initiated Research Grants:

1994-1995	Dormancy of inhibitory interneurons in an animal model of epilepsy. Epilepsy Foundation Clinical Research Grant, PI (Eric Lothman, M.D., Ph.D, mentor)
1995-1996	Focal entorhinal cortex lesions cause distant hyperexcitability in the hippocampal CA1 region. Epilepsy Foundation Clinical Research Grant, PI (Eric Lothman, MD, PhD and Edward Bertram MD, mentors)
1998-2001	Inhibition in entorhinal cortex in epilepsy. NINDS K08 NS01992, PI.
2004-2006	Early Randomized Surgical Epilepsy Trial (ERSET). NINDS U01 NS042372, site PI (J. Engel, multicenter PI)
2007-2009	Progesterone therapy for women with Epilepsy. NIH RO1 NS39466, site PI (A. Herzog, multicenter PI)
2009-2014	Radiosurgery versus open surgery epilepsy trial (ROSE), R01 NS 058634-01A2, site PI (N. Barbaro, M. Quigg multicenter co-PIs)
2010-2014	Epilepsy Phenome/Genome Project (EPGP), NINDS U01 NS 053998, site PI (D. Lowenstein, multicenter PI)
2011	2-Deoxyglucose: Proof of Principal Clinical Trial, Epilepsy Research Foundation, PI (on hold)
2015-2017	Focused Ultrasound for Subcortical Epilepsy (FUSE) study, PI, Epilepsy Foundation and InSightec

2015-2020 Established Status Epilepticus Treatment Trial (ESETT), 1U01NS088034-01, Adjudication Core (J. Kapur, multicenter PI)

Clinical Drug and Device Epilepsy Trials, UVA Principal Investigator (last 5 years):

2013-present Dose ranging RCT of YKP3089 for partial seizures (C017). SK Life Sciences
2015-present YKP3089 PK/exposure study in partial onset seizures (C021). SK Life Sciences
2016-2018 PK Study of NRL-1: seizure and normal conditions (DIAZ.001.04). Neurelis
2016-present Repeat-Dose Safety Study of NRL-1 in Epilepsy (DIAZ.001.05). Neurelis
2017-2018 Dose-escalation RCT of TAK-935 for epileptic encephalopathies (2001). Takeda
2017-present CBD for LGS open label extension (1415). GW Pharma
2018-present Phase 2 RCT of Natalizumab for epilepsy (BG00002). Biogen
2018-present CBD for TS and open label extension (1521). GW Pharma

Public Health Care Grants:

2003-present Virginia Department of Health - Care Connection for Children. Administration of Neurology Southwest Virginia rural field clinics (\$68,000/year)

Peer Reviewed Publications:

1. **Fountain, N.B.**, Lothman, E.W. Pathophysiology of status epilepticus. *Journal of Clinical Neurophysiology* 1995;12(4):326-342.
2. **Fountain, N.B.**, Eberhard, D.A. Primary angiitis of the CNS associated with cerebral amyloid angiopathy: report of two cases and review of the literature. *Neurology* 1996;46:190-197.
3. Bear, J., **Fountain, N.B.**, Lothman, E.W. Responses of the superficial entorhinal cortex *in vitro* in slices from naive and chronically epileptic rats. *Journal of Neurophysiology* 1996;76(5):2928-2940.
4. **Fountain, N.B.**, Kim, J.S., Lee, S.I. Sleep deprivation activates epileptiform discharges independent of the activating effects of sleep. *Journal of Clinical Neurophysiology* 1998;15(1):69-75.
5. Fountain, N.B., Bear, J., Bertram, E.H., Lothman, E.W. Responses of deep entorhinal cortex are epileptiform in an electrogenic rat model of chronic temporal lobe epilepsy. *Journal of Neurophysiology* 1998;80:230-240.
6. Bertram, E.H., Zhang D.X., Mangan P., **Fountain, N.**, Rempe D. Functional anatomy of limbic epilepsy - a proposal for central synchronization of a diffusely hyperexcitable network. *Epilepsy Research* 1998;32:194-205.
7. **Fountain, N.B.**, Lopes, M.B.S. Control of primary angiitis of the CNS associated with cerebral amyloid angiopathy by cyclophosphamide alone. *Neurology* 1999;52(3):660-662.

8. Quigg, M., **Fountain, N.B.** Conduction aphasia elicited by stimulation of the left posterior superior temporal gyrus. *Journal of Neurosurgery, Neurology & Psychiatry* 1999;66:393-396.
9. **Fountain, N.B.**, Adams, R. E. Midazolam treatment of acute and refractory status epilepticus. *Clinical Neuropharmacology* 1999;22(5):261-267.
10. **Fountain, N.B.** Status epilepticus: risk factors and complications. *Epilepsia* 2000;41(Suppl 2):S23-S30.
11. Laxer K, and Ganaxolone Presurgical Study Group. Assessment of ganaxolone anticonvulsant activity using a randomized double-blind, presurgical trial design. *Epilepsia* 2000;41(9):1187-1194.
12. Frucht M.M., Quigg, M., Schwaner, C., **Fountain, N.B.** Distribution of seizure precipitants among epilepsy syndromes. *Epilepsia* 2000;41:1534-1539.
13. **Fountain, N.B.**, Waldman, W.A. Effects of benzodiazepines on triphasic waves: Implications for nonconvulsive status epilepticus. *Journal of Clinical Neurophysiology*, 2001;18(4):345-352.
14. Pellock JM, Glauser TA, Bebin EM, **Fountain NB**, Ritter FJ, Coupez RM, Shields WD. Pharmacokinetic Study of Levetiracetam in Children. *Epilepsia* 2001;42(12):1574-1579.
15. Glauser TA, Pellock JM, Bebin EM, **Fountain NB**, Ritter FJ, Jensen CM, Shields WD. Efficacy and safety of levetiracetam in children with partial seizures: an open-label trial. *Epilepsia* 2002;43:518-524.
16. Quigg MS, Armstrong RF, Farace E, **Fountain NB**. Quality of life outcome is associated with cessation rather than reduction of psychogenic nonepileptic seizures. *Epilepsy and Behavior* 2002;3:455-459.
17. Gullapalli D, **Fountain NB**. Clinical correlation of occipital intermittent rhythmic delta activity (OIRDA). *Journal of Clinical Neurophysiology*, 2003;20(1):35-41.
18. Shneker BF, **Fountain NB**. Assessment of acute morbidity and mortality in nonconvulsive status epilepticus. *Neurology* 2003;61:1066-1073.
19. **Fountain, N.B.**, May A.C. Epilepsy and Athletics. *Clinics in Sports Medicine* 2003;33(3):605-616.
20. Kirby D, **Fountain NB**, Quigg MS. Standardized mental status testing for nonconvulsive status epilepticus. *American Journal of Electroneurodiagnostic Technology* 2004;44(3):199-201.
21. Sahoo SK, **Fountain NB**. Epilepsy in football players and other land-based contact/collision sport athletes: when can they participate and is there an increased risk? *Current Sports Medicine Reports*, 2004;3(5):284-5.

22. Glauser TA, Ayala R, Elterman RD, Mitchell WG, Van Orman CB, Gauer LJ, Lu Z for the N159 Study Group. Double-blind placebo-controlled trial of adjunctive levetiracetam in pediatric partial seizures. *Neurology*. 2006;66(11):1654-60.
23. **Fountain NB**, Conry JA, Rodríguez-Leyva I, Gutierrez-Moctezuma J, Salas E, Coupez R, Stockis A, Lu Z. Prospective Assessment of Levetiracetam Pharmacokinetics During Dose Escalation in 4- to 12-Year-Old Children With Partial-Onset Seizures on Concomitant Carbamazepine or Valproate. *Epilepsy Research* 2007;74:60-69.
24. Pugh MJ, Berlowitz DR, Montouris G, Bokhour B, Cramer JA, Bohm V, Bollinger M, Helmers S, Ettinger A, Meador KJ, **Fountain N**, Boggs J, Tatum WO 4th, Knoefel J, Harden C, Mattson RH, Kazis L. What constitutes high quality of care for adults with epilepsy? *Neurology* 2007;69:2020-2027.
25. Biton V, Rosenfeld WE, Whitesides J, **Fountain NB**, Vaiciene N, Rudd GD. Intravenous lacosamide as replacement for oral lacosamide in patients with partial-onset seizures (SP616). *Epilepsia* 2008;49(3):418–424.
26. Fisher R for the SANTE Study Group. Electrical Stimulation of the Anterior Nucleus of Thalamus for Treatment of Refractory Epilepsy. *Epilepsia* 2010;51(5):899–908.
27. Chung S, Sperling MR, Biton V, Krauss G, Hebert D, Rudd GD, Doty P; SP754 Study Group. Lacosamide as adjunctive therapy for partial-onset seizures: a randomized controlled trial. *Epilepsia* 2010;51(6):958-67.
28. Labiner DM, Bagic AI, Herman ST, **Fountain NB**, Walczak TS, Gumnit RJ; for the National Association of Epilepsy Centers. Essential services, personnel, and facilities in specialized epilepsy centers-Revised 2010 guidelines. *Epilepsia* 2010;51:2322-2333.
29. Chung S, Ben-Menachem E, Sperling M, Rosenfeld W, **Fountain NB**, Benbadis S, Hebert D, Isojarvi J, Doty P. Examining the Clinical Utility of Lacosamide: Pooled Analyses of Three Phase II/III Clinical Trials. *CNS Drugs* 2010;24(12):1041-1054.
30. **Fountain NB**, Van Ness PC, Swain-Eng R, Tonn S, Bever CT Jr; For the American Academy of Neurology Epilepsy Measure Development Panel and the American Medical Association– Convened Physician Consortium for Performance Improvement Independent Measure Development Process. Quality improvement in neurology: AAN epilepsy quality measures: Report of the Quality Measurement and Reporting Subcommittee of the American Academy of Neurology. *Neurology* 2011;76(1):94-99.
31. Morrell MJ and RNS System in Epilepsy Study Group. Responsive cortical stimulation for the treatment of medically intractable partial epilepsy. *Neurology* 2011;77(13):1295-304.
32. Herzog AG et al for Progesterone Trial Study Group. Variation of seizure frequency with ovulatory status of menstrual cycles. *Epilepsia* 2011;52(10):1843-8.

33. Cock HR for the ESETT Group. Established status epilepticus treatment trial (ESETT). *Epilepsia*. 2012;52 Suppl 8:50-2.
34. Langer JE, Lopes B, **Fountain NB**, Pranzatelli MR, Thiele EA, Rust RS, Goodkin HP. An unusual presentation of anti-Hu associated paraneoplastic limbic encephalitis. *Dev Med Child Neuro* 2012;Feb.
35. Engel J Jr, et al. Early randomized surgery for epilepsy trial (ERSET). *JAMA* 2012;307(9):922-930.
36. Wicks P, **Fountain NB**. Patient Assessment of Physician's Performance of Epilepsy Quality Care Measures. *Neurology Clinical Practice* 2012;2:335-342.
37. **Fountain NB**, Krauss G, Isojarvi J, Dilley D, Doty P, Rudd GD. Safety and tolerability of adjunctive lacosamide IV loading dose in lacosamide-naïve patients with partial-onset seizures. *Epilepsia* 2013;54(1):58-65.
38. Halford JJ, Schalkoff RJ, Zhou J, Benbadis SR, Tatum WO, Turner RP, Sinha SR, **Fountain NB**, Arain A, Pritchard PB, Kutluay E, Martz G, Edwards JC, Waters C, Dean BC. Standardized Database Development for EEG Epileptiform Transient Detection: EEGnet Scoring System and Machine Learning Analysis. *Journal Neuroscience Methods* 2013;212:308–316.
39. Hirsch LJ, Laroche SM, Gaspard N, Gerard E, Svoronos A, Herman ST, Mani R, Arif H, Jette N, Minazad Y, Kerrigan JF, Vespa P, Hantus S, Claassen J, Young GB, So E, Kaplan PW, Nuwer MR, **Fountain NB**, Drislane FW. American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2012 version. *J Clin Neurophysiol* 2013;30:1-27
40. Winawer MR, Connors R; EPGP Investigators. Evidence for a shared genetic susceptibility to migraine and epilepsy. *Epilepsia* 2013 Feb;54:288-95.
41. Epi4K Consortium & Epilepsy Phenome/Genome Project. De novo mutations in epileptic encephalopathies. *Nature* 2013;501:217-221.
42. EPGP Collaborative. The epilepsy phenome/genome project. *Clin Trials* 2013 Aug;10(4):568-86.
43. Shain C, Ramgopal S, Fallil Z, Parulkar I, Alongi R, Knowlton R, Poduri A; EPGP Investigators. Polymicrogyria-associated epilepsy: a multicenter phenotypic study from the Epilepsy Phenome/Genome Project. *Epilepsia* 2013 Aug;54(8):1368-75.
44. Bleck T, Cock H, Chamberlain J, Cloyd J, Connor J, Elm J, **Fountain N**, Jones E, Lowenstein D, Shinnar S, Silbergleit R, Treiman D, Trinka E, Kapur J. The established status epilepticus trial 2013. *Epilepsia* 2013;54 Suppl 6:89-92.
45. Friedman D, Fahlstrom R; EPGP Investigators. Racial and ethnic differences in epilepsy classification among probands in the Epilepsy Phenome/Genome Project (EPGP). *Epilepsy Res*. 2013;107(3):306-10.

46. Widdess-Walsh P, Dlugos D, Fahlstrom R, Joshi S, Shellhaas R, Boro A, Sullivan J, Geller E; EPGP Investigators. Lennox-Gastaut syndrome of unknown cause: phenotypic characteristics of patients in the Epilepsy Phenome/Genome Project. *Epilepsia* 2013;54(11):1898-904.
47. Greyson B, **Fountain NB**, Derr LL, Broshek DK. Out-of-Body Experiences Associated with Seizures. *Frontiers in Human Neuroscience* 2014;8:65.
48. Greyson B, **Fountain NB**, Derr LL, Broshek DK. Mystical Experiences Associated With Seizures. *Religion, Brain & Behavior* 2015;5(3):182-196.
49. Heck CN, et al. Two-year seizure reduction in adults with medically intractable partial onset epilepsy treated with responsive neurostimulation: Final results of the RNS System Pivotal trial. *Epilepsia* 2014;55(3):432-41.
50. Langer J, **Fountain NB**. An Observational Study of Current Treatment for Generalized Convulsive Status Epilepticus. *Epilepsy and Behavior* 2014;37:95-99.
51. Rosenfeld W, **Fountain NB**, Kaubrys G, Ben-Menachem E, McShea C, Isojarvi J, Doty P; the SP615 Study Investigators. Safety and efficacy of adjunctive lacosamide among patients with partial-onset seizures in a long-term open-label extension trial of up to 8 years. *Epilepsy & Behavior* 2014;41:164-170.
52. Epilepsy Phenome/Genome Project; Epi4K Consortium; EuroEPINOMICS-RES Consortium. De Novo Mutations in Synaptic Transmission Genes Including DNMT1 Cause Epileptic Encephalopathies. *Am J Hum Genet* 2014 Oct 2;95(4):360-70.
53. Salinova et al. Long-term efficacy and safety of thalamic stimulation for drug-resistant partial epilepsy. *Neurology* 2015;84(10):1017-25.
54. Bergey GC, Morrell M, Mizrahi EM, Goldman AM, King-Stephens D. Long-term treatment with responsive brain stimulation in adults with refractory partial seizures. *Neurology* 2015;84(8):810-7.
55. **Fountain NB**, Van Ness PC, Bennett A, Absher J, Patel AD, Sheth KN, Gloss DS, Morita DA, Stecker S. Quality improvement in neurology: Epilepsy Update Quality Measurement Set. *Neurology* 2015;84(14):1483-7.
56. Mefford, EPGP Study Group. CNV analysis from exome data in 349 patients with epileptic encephalopathy. *Ann Neurology* 2015;78(2):323-8.
57. Quigg MS, Sun F, **Fountain NB**, Jobst BC, Wong VSS, Mirro E, Brown S, Spencer DC. Interrater reliability in interpretation of electrocorticographic seizure detections of the responsive neurostimulator. *Epilepsia* 2015;56(6):968-71.
58. King-Stephens D, et al. Lateralization of Mesial Temporal Lobe Epilepsy with Long-term Ambulatory Electrocorticography. *Epilepsia* 2015;56(6):959-67.

59. Biton V, Gil-Nagel A, Isojarvi J, Doty P, Hebert D, **Fountain NB**. Safety and tolerability of lacosamide as adjunctive therapy for adults with partial-onset seizures: analysis of data pooled from three randomized, double-blind, placebo-controlled clinical trials. *Epilepsy Behav* 2015;25;52(Pt A):119-127.
60. Spencer DC, Sun FT, Brown SN, Jobst B, **Fountain NB**, Wong VS, Mirro EA, Quigg M. Circadian and ultradian patterns of epileptiform discharges differ by seizure onset location during long-term ambulatory intracranial monitoring. *Epilepsia* 2016;57(9):1495-502.
61. Geller et al. Brain-responsive neurostimulation in patients with medically intractable mesial temporal lobe epilepsy. *Epilepsia* 2017;58(6):994-1004.
62. Jobst et al. Brain-responsive neurostimulation in patients with medically intractable seizures arising from eloquent and other neocortical areas. *Epilepsia* 2017;58(6):1005-1014.
63. Epi4K Consortium, EuroEPINOMICS-RES Consortium, and Epilepsy Phenome Genome Project. Application of Rare Variant Transmission-Disequilibrium Tests to Epileptic Encephalopathy Trio Sequence Data. *European Journal of Human Genetics* 2017;25(7):894-899.
64. Epi4K consortium. Ultra-rare genetic variation in common epilepsies: a case-control sequencing study. *Lancet Neurol* 2017;16(2):135-143.
65. Leiva-Salinas C, Quigg M, Elias WJ, Patrie JT, Flors L, **Fountain NB**, Rehm PK. Earlier seizure onset and longer epilepsy duration correlate with the degree of temporal hypometabolism in patients with mesial temporal sclerosis. *Epilepsy Research* 2017;138:105-109.
66. Fureman B, Freidman D, Baulac M, Glauser T, Moreno J, Dixon-Salazar T, Bagiella E, Connor J, Ferry J, Farrell K, **Fountain NB**, French J. Reducing placebo exposure in trials: Considerations from the Research Roundtable in Epilepsy. *Neurology* 2017 Oct 3;89(14):1507-1515.
67. Shih J, **Fountain NB**, Herman S, Bagic A, Lado F, Arnold S, Zupanc M, Riker E, Labiner D. Indications and Methodology for Video-EEG Studies in the Epilepsy Monitoring Unit. *Epilepsia* 2018;59:27-36.
68. Devinsky O, Friedman D, Duckrow R, **Fountain N**, Gwinn R, Leiphart J, Murro A, Van Ness P. SUDEP in Patients Treated with Brain Responsive Neurostimulation. *Epilepsia* 2018;59(3):555-561.
69. Barbaro N, Quigg M, Ward M, Chang E., et al. Radiosurgery versus open surgery for mesial temporal lobe epilepsy: the randomized, controlled ROSE Trial. *Epilepsia* 2018;59:1198-1207.
70. Epi4K Consortium, Epilepsy Phenome/Genome Project. De novo and inherited private variants in MAP1B in periventricular nodular heterotopia, 2018 PLOS Genetics, accepted.
71. Epi4K Consortium. Phenotypic Analysis of 303 Multiplex Families with Common

Epilepsies. Brain 2018, accepted.

72. Goldstein and EPGP Investigators. The genetic architecture of the common epilepsies. 2018, submitted.

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Invited Extramural Lectures:

New Technologies for Intractable Epilepsy: Focused Ultrasound and Deep Brain Stimulation, Northwestern University, June 4, 2018

Sudden Unexplained Death in Epilepsy (SUDEP), Virginia Neurological Society, Hot Springs VA, January 26, 2018

Selecting Epilepsy Treatments: Practice of Neurology, Virginia Neurological Society, Hot Springs VA, January 26, 2018

Focused Ultrasound Treatment for Epilepsy, Hot Topics American Epilepsy Society, Washington DC, December 2, 2017

Reducing placebo exposure in epilepsy trials, AED Trials XVII, Miami, May 18, 2017

New Treatments for Intractable Epilepsy, George Washington University Grand Rounds on epilepsy.com, Feb. 14, 2017

Focused Ultrasound for Epilepsy, International Hypothalamic Hamartoma Symposium, London, Sept. 16, 2016.

Hans Berger Symposium, Richmond, May 23-24, 2016
Selecting Seizure Drugs: EEG and Other Factors,
Epilepsy Quality Measures in Clinical Practice

Prudent use of new and old AEDs, Johns-Wooten Symposium, Charlottesville, May 14, 2016

Exercise and Epilepsy, Epilepsy Pipeline Conference, San Francisco, Feb. 27, 2016

Adhering to Epilepsy Quality Measurement Set Update, NeuroSeries Live, Richmond, VA, September 30, 2015 <https://event.webcasts.com/viewer/directLink.jsp?ei=1076582>

Innovations in Treatment of Status Epilepticus, AAN, Washington DC, April 25, 2015

Cannabinoids in the Treatment of Epilepsy, Virginia Neurological Society, January 30, 2015

Potential of Focused Ultrasound for Epilepsy, International Epilepsy Colloquium, Marburg, Germany, May 29, 2014

AED Mechanisms of Action: Are they clinically relevant? AES Pharmacology SIG, Washington DC, December 9, 2013

New and Emerging Therapies for Epilepsy, Pan Arab Union of Neurological Societies, Sharm El Sheikh, Egypt, Feb. 17, 2013

Egyptian Society of Neurology, Neurosurgery, Psychiatry Epilepsy Workshop and Forth Ain Shams University Epilepsy Conference, Cairo, Egypt, October 20-22, 2012:
7 Hour lecture series, "Epilepsy Diagnosis and Treatment"

Refractory Epilepsy in Intellectual and Developmental Delay, Webinar, June 27, 2012

EMU Safety, AES Quality Special Interest Group, Baltimore, December 6, 2011

NAEC Institute of Medicine Survey, NAEC Annual Meeting, December 8, 2011

Epilepsy Quality Performance Measures, Inaugural Epilepsy Symposium, University of Kentucky, Lexington, November 11, 2011

Quality Measures in Neurology and Epilepsy, Ohio State University Neurology Grand Rounds, October 11, 2011

Moderator for ICU Management of Status Epilepticus, 3rd London-Innsbruck Colloquium on Status Epilepticus, Oxford, England, April 8, 2011

Epilepsy Quality Performance Measures and Performance in Practice, American Epilepsy Society SIG, San Antonio, December 5, 2010

Visiting Professor, Anshan Chandga Hospital, Anshan, China, September 20-23, 2010:
Treatment of Refractory Epilepsy
Thrombolysis Treatment of Acute Stroke
Structure of US Medical Education
Delivery of US Healthcare

Periodic Patterns in ICU Monitoring, Annual Course, American Clinical Neurophysiology Society, San Diego, February 4, 2010

Periodic Discharges and Other Controversial Patterns, AES Plenary Session, Boston, December 5, 2009

Epilepsy Performance Measures, AES Special Interest Group, Boston, December 5, 2009

Recommendation for Women Based on Teratogenic Risk of AEDs, Virginia Neurological Society, Hot Springs, Virginia, February 6, 2009

AAN Epilepsy Quality Measure Development for CMS, Quality Measures SIG, AES Annual Meeting, Seattle, December 9, 2008

Outcome of Nonconvulsive Status Epilepticus, University of Maryland, Neurology Grand Rounds, Oct. 29, 2008

Nonconvulsive Status Epilepticus, Case Western Reserve University, Epilepsy Grand Rounds, July 7, 2008

Visiting Professor, Second Ain Shams University Epilepsy Unit Conference, Cairo, Egypt, October 15-19, 2007:
AED and Non-Surgical Treatments for Intractable Epilepsy
Epilepsy Surgery Phase 1: Evaluation: Scalp EEG, Ictal SPECT, MRI, Neuropsych Testing
Epilepsy Surgery Phase 2: Intracranial Monitoring
Epilepsy Surgery Phase 3: Resection Methods and Awake Craniotomy
Outcome from Temporal Lobectomy

New Guidelines in the Treatment of Status Epilepticus, Virginia College of Emergency Physicians Annual Course, Richmond, February 28, 2006

Debate: EEG is an Essential Clinical Tool for Epilepsy (pro). American Epilepsy Society, Washington DC, December 4, 2005

Seizures and Epilepsy, Therapy in Neurology course, American Academy of Neurology, Miami, April 10, 2005

Treatment of Nonconvulsive Status Epilepticus, Status Epilepticus Dinner Seminar, American Academy of Neurology, Miami, April 9, 2005

Pathophysiology and Morbidity of Nonconvulsive Status Epilepticus. Washington University Neurology Grand Rounds, St. Louis, December 15, 2004

Activation of Seizures by Sleep Deprivation, Sleep and Epilepsy Special Interest Group, American Epilepsy Society Meeting, New Orleans, December 5, 2004

Is it Status?, Status Epilepticus Dinner Seminar, American Academy of Neurology, San Francisco, April 25, 2004

Weighing Epilepsy Treatment Options, National Capital CURE Conference, Washington, DC, March 12, 2004

Moderate and case presentations, Difficult Case Discussion Group, Virginia Neurological Society Annual Meeting, Hot Springs, Virginia, February 15, 2004

Practice of Neurology: EEG Cases and Unknowns. Virginia Neurological Society Annual Meeting, Hot Springs, Virginia, February 14, 2004

Clinical Implications of Breakthrough Seizures, Seminar, Society for Neuroscience, New Orleans, November 10, 2003

NCSE: Is it Status?, Status Epilepticus Dinner Seminar, American Academy of Neurology, Honolulu, Hawaii, April 4, 2003

Difficult Management Problems in Patients with Status Epilepticus, Status Epilepticus Dinner Seminar, American Academy of Neurology, Honolulu, Hawaii, April 4, 2003

Status Epilepticus: Advances in Diagnosis and Therapy, Epilepsy Therapy Symposium, American Academy of Neurology, Honolulu, Hawaii, April 2, 2003

Moderate and case presentations, Difficult Case Discussion Group, Virginia Neurological Society Annual Meeting, Hot Springs, Virginia, February 9, 2003

Nonconvulsive Status Epilepticus, Status Epilepticus Dinner Seminar, American Academy of Neurology Annual Meeting, Denver, April 14, 2002

Cortical Physiology: Normal Mechanisms and Epilepsy, American Academy of Clinical Neurophysiology Annual Review Course, Santa Fe, New Mexico, February 15, 2002

Pathophysiology of Status Epilepticus, American Academy of Clinical Neurophysiology Symposium, Santa Fe, New Mexico, February 16, 2002

The Bleeding Edge: Epilepsy Surgery, Virginia Neurological Society Annual Meeting, Hot Springs, Virginia, January 31, 2002

Outcome from Anterior Temporal Lobectomy for Temporal Lobe Epilepsy, George Washington University, Washington D.C., April 12, 2001

Progressive Myoclonic Epilepsy, Virginia Neurological Society Annual Meeting, Hot Springs, Virginia, February 3, 2001

Status Epilepticus: Complications and Treatment, University of Rochester Neurology Grand Rounds, Rochester, New York, November 10, 2000

Clinical Pharmacology of Antiepileptic Drugs, Rochester, New York, November 9, 2000

Complications and Treatment of Status Epilepticus, Merritt-Putnam Lectures on Epilepsy, St. Louis University, Missouri, April 1, 2000

Status epilepticus: risk factors and complications, American Epilepsy Society Annual Course, Orlando, Florida, December 4, 1999

Pathophysiology of epilepsy, Iowa Medical Neurology Association, University of Iowa, Iowa City, Iowa, June 22, 1999

Treatment of Refractory Seizures, Iowa Medical Neurology Association, University of Iowa, Iowa City, Iowa, June 22, 1999

The Role of Entorhinal Cortex in Temporal Lobe Epilepsy, University of Wisconsin Neurology Grand Rounds, Madison Wisconsin, February 1996

Entorhinal Cortex and Epilepsy, University of Kentucky Neurology Grand Rounds, Lexington Kentucky, March 1996