

Richard A. Hrachovy, M.D.



- **Distinguished Emeritus Professor of Neurology**
- **Head, Peter Kellaway Section of Neurophysiology**
- **Program Director, Clinical Neurophysiology Residency Program, Baylor College of Medicine**
- **Director, [Baylor Comprehensive Epilepsy Center](#)**
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Clinical Service Area

Neurology

Specialty

Epilepsy
Clinical Neurophysiology
Seizure Disorders

Board Certification

American Board of Psychiatry and Neurology, Neurology
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Medical School

M.D., University of Texas Medical Branch Hospitals at Galveston, Texas

Residency

Neurology, University of Texas Medical Branch at Galveston, Texas

Clinical Fellowship

Neurophysiology, Baylor College of Medicine, Houston, Texas

Clinic Location

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Clinical Interests

Clinical neurophysiology, electroencephalography, epilepsy, neonatal seizures, infantile spasms

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Journal Publications

1. Chen DK, Maheshwari A, Franks R, Trolley GC, Robinson JS, Hrachovy RA. Brief group psychoeducation for psychogenic nonepileptic seizures: A neurologist-initiated program in an epilepsy center. *Epilepsia*. 2014;55(1):156-66. [[View journal article](#)]
2. Hrachovy RA, Frost JD, Jr. Infantile spasms. *Handb Clin Neurol*. 2013;111:611-8. [[View journal article](#)]
3. Chen DK, Izadyar S, Wisdom NM, Collins RL, Franks R, Hrachovy RA. Intact vs. impaired ictal sensorium: does it affect outcome of psychogenic nonepileptic events following disclosure of diagnosis? *Epilepsy Behav*. 2012;24(1):30-5. [[View journal article](#)]
4. Frost JD, Jr, Lee CL, Le JT, Hrachovy RA, Swann JW. Interictal high frequency oscillations in an animal model of infantile spasms. *Neurobiol Dis*. 2012;46(2):377-88. [[View journal article](#)]
5. Chen DK, Izadyar S, Collins RL, Benge JF, Lemaire AW, Hrachovy RA. Induction of psychogenic nonepileptic events: Success rate influenced by prior induction exposure, ictal semiology, and psychological profiles. *Epilepsia*. 2011;52(6):1063-70. [[View journal article](#)]
6. Frost JD, Jr, Lee CL, Hrachovy RA, Swann JW. High frequency EEG activity associated with ictal events in an animal model of infantile spasms. *Epilepsia*. 2011;52(1):53-62. [[View journal article](#)]
7. Andropoulos DB, Mizrahi EM, Hrachovy RA, Stayer SA, Stark AR, Heinle JS, et al. Electroencephalographic seizures after neonatal cardiac surgery with high-flow cardiopulmonary bypass. *Anesth Analg*. 2010;110(6):1680-5. [[View journal article](#)]
8. Pellock JM, Hrachovy R, Shinnar S, Baram TZ, Bettis D, Dlugos DJ, et al. Infantile spasms: a U.S. consensus report. *Epilepsia*. 2010;51(10):2175-89. [[View journal article](#)]
9. Barnwell LF, Lugo JN, Lee WL, Willis SE, Gertz SJ, Hrachovy RA, et al. Kv4.2 knockout mice demonstrate increased susceptibility to convulsant stimulation. *Epilepsia*. 2009;50(7):1741-51. [[View journal article](#)]
10. Friedman DE, Kung DH, Laowattana S, Kass JS, Hrachovy RA, Levin HS. Identifying depression in epilepsy in a busy clinical setting is enhanced with systematic screening. *Seizure*. 2009;18(6):429-33. [[View journal article](#)]
11. Mitra J, Glover JR, Ktonas PY, Thitai Kumar A, Mukherjee A, Karayiannis NB, et al. A multistage system for the automated detection of epileptic seizures in neonatal electroencephalography. *J Clin Neurophysiol*. 2009;26(4):218-26. [[View journal article](#)]
12. Price MG, Yoo JW, Burgess DL, Deng F, Hrachovy RA, Frost JD, et al. A triplet repeat expansion genetic mouse model of infantile spasms syndrome, *Arx(GCG)10+7*, with Interneuronopathy, spasms in infancy, persistent seizures, and adult cognitive and behavioral impairment. *J Neurosci*. 2009;29(27):8752-63. [[View journal article](#)]
13. Guggenheim MA, Frost JD, Jr, Hrachovy RA. Time interval from a brain insult to the onset of infantile spasms. *Pediatr Neurol*. 2008;38(1):34-7. [[View journal article](#)]
14. Lee CL, Frost JD, Jr, Swann JW, Hrachovy RA. A new animal model of infantile spasms with unprovoked persistent seizures. *Epilepsia*. 2008;49(2):298-307. [[View journal article](#)]
15. Lugo JN, Barnwell LF, Ren Y, Lee WL, Johnston LD, Kim R, et al. Altered phosphorylation and localization of the A-type channel, Kv4.2 in status epilepticus. *J Neurochem*. 2008;106(4):1929-40. [[View journal article](#)]
16. Guerra MP, Hrachovy RA, Lugli L, Mizrahi EM, Ferrari F. A new lethal case of joint contractures, facial abnormalities, pachygyria plus early-onset encephalopathy with a suppression-burst EEG pattern. *Eur J Paediatr Neurol*. 2007;11(5):318-321. [[View journal article](#)]
17. Kawai M, Hrachovy RA, Franklin PJ, Foreman PJ. Video-EEG monitoring in a geriatric veteran population. *J Clin Neurophysiol*. 2007;24(6):429-32. [[View journal article](#)]
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20. Karayiannis NB, Tao G, Frost JD, Jr, Wise MS, Hrachovy RA, et al. Automated detection of videotaped neonatal seizures based on motion segmentation methods. *Clin Neurophysiol.* 2006;117(7):1585-94. [[View journal article](#)]
21. Karayiannis NB, Xiong Y, Frost JD, Jr, Wise MS, Hrachovy RA, et al. Automated detection of videotaped neonatal seizures based on motion tracking methods. *J Clin Neurophysiol.* 2006;23(6):521-31. [[View journal article](#)]
22. Karayiannis NB, Xiong Y, Tao G, Frost JD, Jr, Wise MS, et al. Automated detection of videotaped neonatal seizures of epileptic origin. *Epilepsia.* 2006;47(6):966-80. [[View journal article](#)]
23. Frost JD, Jr, Hrachovy RA. Pathogenesis of infantile spasms: a model based on developmental desynchronization. *J Clin Neurophysiol.* 2005;22(1):25-36. [[View journal article](#)]
24. Mitra J, Glover J, Ktonas P, Frost J, Hrachovy R, Mizrahi E. Rule-enhanced clustering in the detection of neonatal seizures. *Conf Proc IEEE Eng Med Biol Soc.* 2005;1:948-51. [[View journal article](#)]
25. Karayiannis NB, Mukherjee A, Glover JR, Ktonas PY, Frost JD, Jr, et al. Quantifying and visualizing uncertainty in EEG data of neonatal seizures. *Conf Proc IEEE Eng Med Biol Soc.* 2004;1:423-6. [[View journal article](#)]
26. Mitra J, Glover JR, Frost JD, Ktonas PA, Hrachovy RA, Mizrahi EM. Enhanced spatio-temporal clustering in the detection of neonatal seizures using context-based rules. *Conf Proc IEEE Eng Med Biol Soc.* 2004;7:4717-20. [[View journal article](#)]
27. Hrachovy RA, Frost JD, Jr. Infantile epileptic encephalopathy with hypsarrhythmia (infantile spasms/West syndrome). *J Clin Neurophysiol.* 2003;20(6):408-25. [[View journal article](#)]
28. Hrachovy RA. West's syndrome (infantile spasms). Clinical description and diagnosis. *Adv Exp Med Biol.* 2002;497:33-50. [[View journal article](#)]
29. Lee CL, Hannay J, Hrachovy R, Rashid S, Antalffy B, Swann JW. Spatial learning deficits without hippocampal neuronal loss in a model of early-onset epilepsy. *Neuroscience.* 2001;107(1):71-84. [[View journal article](#)]
30. Galvan CD, Hrachovy RA, Smith KL, Swann JW. Blockade of neuronal activity during hippocampal development produces a chronic focal epilepsy in the rat. *J Neurosci.* 2000;20(8):2904-16. [[View journal article](#)]
31. Swann JW, Lee CL, Smith KL, Hrachovy RA. Developmental neuroplasticity and epilepsy. *Epilepsia.* 2000;41(8):1078-9. [[View journal article](#)]
32. Anderson AE, Hrachovy RA, Antalffy BA, Armstrong DL, Swann JW. A chronic focal epilepsy with mossy fiber sprouting follows recurrent seizures induced by intrahippocampal tetanus toxin injection in infant rats. *Neuroscience.* 1999;92(1):73-82. [[View journal article](#)]
33. Hrachovy RA, O'Donnell DM. The significance of excessive rhythmic alpha and/or theta frequency activity in the EEG of the neonate. *Clin Neurophysiol.* 1999;110(3):438-44. [[View journal article](#)]
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35. Anderson AE, Hrachovy RA, Swann JW. Increased susceptibility to tetanus toxin-induced seizures in immature rats. *Epilepsy Res.* 1997;26(3):433-42. [[View journal article](#)]
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37. Lee CL, Hrachovy RA, Smith KL, Frost JD, Jr, Swann JW. Tetanus toxin-induced seizures in infant rats and their effects on hippocampal excitability in adulthood. *Brain Res.* 1995;677(1):97-109. [[View journal article](#)]
38. Hrachovy RA, Frost JD, Jr, Glaze DG. Coupling of focal electrical seizure discharges with infantile spasms: incidence during long-term monitoring in newly diagnosed patients. *J Clin Neurophysiol.* 1994;11(4):461-4. [[View journal article](#)]
39. Hrachovy RA, Frost JD, Jr, Glaze DG. High-dose, long-duration versus low-dose, short-duration corticotropin therapy for infantile spasms. *J Pediatr.* 1994;124(5 Pt 1):803-6. [[View journal article](#)]
40. Doody RS, Hrachovy RA, Feher EP. Recurrent fluent aphasia associated with a seizure focus. *Brain Lang.* 1992;42(4):419-30. [[View journal article](#)]

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44. Hrachovy RA, Glaze DG, Frost JD, Jr. A retrospective study of spontaneous remission and long-term outcome in patients with infantile spasms. *Epilepsia*. 1991;32(2):212-4. [[View journal article](#)]
45. Hrachovy RA, Frost JD, Jr, Glaze DG, Rose D. Treatment of infantile spasms with methysergide and alpha-methylparatyrosine. *Epilepsia*. 1989;30(5):607-10. [[View journal article](#)]
46. Hrachovy RA, Frost JD, Jr. Infantile spasms. *Cleve Clin J Med*. 1989;56 Suppl Pt 1:S10-6; discussion S40-2. [[View journal article](#)]
47. Hrachovy RA, Frost JD, Jr. Infantile spasms. *Pediatr Clin North Am*. 1989;36(2):311-29. [[View journal article](#)]
48. Glaze DG, Hrachovy RA, Frost JD, Jr, Kellaway P, Zion TE. Prospective study of outcome of infants with infantile spasms treated during controlled studies of ACTH and prednisone. *J Pediatr*. 1988;112(3):389-96. [[View journal article](#)]
49. Hrachovy RA, Frost JD, Jr, Glaze DG. Treatment of infantile spasms with tetrabenazine. *Epilepsia*. 1988;29(5):561-3. [[View journal article](#)]
50. Hrachovy RA, Frost JD, Jr, Pollack MS, Glaze DG. Serologic HLA typing in infantile spasms. *Epilepsia*. 1988;29(6):817-9. [[View journal article](#)]
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52. Frost JD, Jr, Kellaway P, Hrachovy RA, Glaze DG, Mizrahi EM. Changes in epileptic spike configuration associated with attainment of seizure control. *Ann Neurol*. 1986;20(6):723-6. [[View journal article](#)]
53. Glaze DG, Hrachovy RA, Frost JD, Jr, Zion TE, Bryan RN. Computed tomography in infantile spasms: effects of hormonal therapy. *Pediatr Neurol*. 1986;2(1):23-7. [[View journal article](#)]
54. Hrachovy RA, Frost JD, Jr, Glaze DG. What have we learned about sudden infant death? *N Engl J Med*. 1984;310(12):787-8. [[View journal article](#)]
55. Hrachovy RA, Frost JD, Jr, Kellaway P. Hypsarrhythmia: variations on the theme. *Epilepsia*. 1984;25(3):317-25. [[View journal article](#)]
56. Strickbine-Van Reet P, Glaze DG, Hrachovy RA. A preliminary prospective neurophysiological study of coma in children. *Am J Dis Child*. 1984;138(5):492-5. [[View journal article](#)]
57. Hrachovy RA, Frost JD, Jr, Kellaway P, Zion TE. Double-blind study of ACTH vs prednisone therapy in infantile spasms. *J Pediatr*. 1983;103(4):641-5. [[View journal article](#)]
58. Kellaway P, Hrachovy RA. Status epilepticus in newborns: a perspective on neonatal seizures. *Adv Neurol*. 1983;34:93-9. [[View journal article](#)]
59. Hrachovy RA. Drug-induced alpha coma. *Neurology*. 1982;32(11):1319. [[View journal article](#)]
60. Hrachovy RA, Frost JD, Jr, Kellaway P. Sleep characteristics in infantile spasms. *Neurology*. 1981;31(6):688-93. [[View journal article](#)]
61. Hrachovy RA, Frost JD, Jr, Kellaway P, Zion T. A controlled study of ACTH therapy in infantile spasms. *Epilepsia*. 1980;21(6):631-6. [[View journal article](#)]
62. Hrachovy RA, Frost JD, Jr, Kellaway P, Zion T. A controlled study of prednisone therapy in infantile spasms. *Epilepsia*. 1979;20(4):403-7. [[View journal article](#)]
63. Kellaway P, Hrachovy RA, Frost JD, Jr, Zion T. Precise characterization and quantification of infantile spasms. *Ann Neurol*. 1979;6(3):214-8. [[View journal article](#)]
64. Frost JD, Jr, Hrachovy RA, Kellaway P, Zion T. Quantitative analysis and characterization of infantile spasms. *Epilepsia*. 1978;19(3):273-82. [[View journal article](#)]
65. Bruhn JG, Hrachovy RA. Black college students' attitudes toward opportunities in the health professions. *J Med Educ*. 1977;52(10):847-9. [[View journal article](#)]

Books and Volumes

1. Mizrahi EM, Hrachovy RA, Kellaway P, Stockard-Pope JE. Atlas of neonatal electroencephalography. 3rd

ed. Philadelphia: Lippincott Williams & Wilkins; 2004.

2. Frost JD, Jr, Hrachovy RA. Infantile spasms: diagnosis, management, and prognosis. Boston: Kluwer Academic Publishers; 2003.

Book Chapters and Other Publications

1. Mizrahi EM, Moshe SL, Hrachovy RA. Normal EEG and sleep: preterm and term neonates. In: Schomer DL, Lopes da Silva F, editors. Niedermeyer's electroencephalography: Basic principles, clinical applications, and related fields. 6th ed. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2011. p. 153-162.
2. Hrachovy RA. Electroencephalography. In: Rolak LA, editor. Neurology secrets. 5th ed. Philadelphia: Mosby Elsevier; 2010. p. 403-427.
3. Hrachovy RA, Frost JD, Jr. Adrenocorticotropic hormone and steroids. In: Engel J, Jr, Pedley TA, editors. Epilepsy - a comprehensive textbook. 2nd ed. Philadelphia: Wolters Kluwer | Lippincott Williams & Wilkins; 2008. p. 1519-1529.
4. Hrachovy RA, Frost JD, Jr. Severe encephalopathic epilepsy in infants: infantile spasms (West syndrome). In: Pellock JM, Bourgeois BFD, Dodson WE, editors. Pediatric epilepsy: diagnosis and therapy. 3rd ed. New York: Demos; 2008. p. 249-268.
5. Hrachovy RA, Frost Jr JD. Infantile spasms. In: Chapman K, Roberts C, Rho JM, editors. Pediatric epilepsy case studies: From infancy and childhood through adolescence. Boca Raton, FL: CRC Press, Taylor & Francis Group; 2008. p. 109-116.
6. Hrachovy RA. Electroencephalography. In: Rolak LA, editor. Neurology secrets. 4th ed. St. Louis: Dolam Publishing Services; 2005. p. 389-412.
7. Hrachovy RA, Frost JD, Jr. Severe encephalopathic epilepsy in infants: West syndrome. In: Pellock JM, Dodson WE, Bourgeois BFD, editors. Pediatric epilepsy: diagnosis and therapy. 2nd ed. New York: Demos; 2001. p. 177-191.
8. Hrachovy RA. Electroencephalography. In: Rolak LA, editor. Neurology secrets. 3rd ed. Philadelphia: Hanley and Belfus; 2001. p. 367-388.
9. Hrachovy RA. Development of the normal EEG. In: Levin K, Luders H, editors. Comprehensive clinical neurophysiology. Philadelphia: WB Saunders Co.; 2000. p. 387-413.
10. Hrachovy RA. Electroencephalography. In: Rolak LA, editor. Neurology secrets. 2nd ed. Philadelphia: Hanley and Belfus; 1998. p. 353-374.
11. Hrachovy RA. ACTH and other steroids. In: Engel J, Jr, Pedley TA, editors. Epilepsy, a comprehensive textbook. Philadelphia: Lippincott-Raven Press; 1997. p. 1463-1473.
12. Hrachovy RA, Frost JD, Jr. Severe encephalopathic epilepsy in infants: infantile spasms. In: Dodson WE, Pellock JM, editors. Pediatric epilepsy: diagnosis and therapy. New York: Demos; 1993. p. 135-145.
13. Hrachovy RA. Electroencephalography. In: Rolak LA, editor. Neurology secrets. Philadelphia: Hanley and Belfus; 1993. p. 365-386.
14. Hrachovy RA, Frost JD, Jr. Infantile spasms. In: Dam M, Gram L, editors. Comprehensive epileptology. New York: Raven Press; 1990. p. 113-121.
15. Hrachovy RA, Mizrahi EM, Kellaway P. Electroencephalography of the newborn. In: Daly DD, Pedley TA, editors. Current practice of clinical electroencephalography. 2nd ed. New York: Raven Press; 1990. p. 201-242.
16. Kellaway P, Mizrahi EM, Hrachovy RA. Seizures of newborns and infants. In: Wada JA, Ellingson RJ, editors. Clinical neurophysiology of epilepsy. EEG handbook. Amsterdam: Elsevier Science Publishers BV; 1990. p. 311-330.
17. Mizrahi EM, Hrachovy RA. Neonatal seizures and infantile spasms. In: Johnson RT, editor. Current therapy in neurologic disease. 3rd ed. Philadelphia: BC Decker; 1990. p. 23-29.
18. Hrachovy RA, Frost JD, Jr. Infantile spasms. In: Pellock JM, editor. The pediatric clinics of North America. Philadelphia: WB Saunders; 1989. p. 311-329.
19. Hrachovy RA, Frost JD, Jr. Infantile spasms: a disorder of the developing nervous system. In: Kellaway P, Noebels JL, editors. Problems and concepts in developmental neurophysiology. Baltimore: Johns Hopkins University Press; 1989. p. 131-147.
20. Hrachovy RA, Frost JD, Jr. Intensive monitoring of infantile spasms. In: Schmidt D, Morselli PL, editors. Intractable epilepsy: experimental and clinical aspects. New York: Raven Press; 1986. p. 87-97.

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22. Kellaway P, Hrachovy RA. Status epilepticus in newborns: a perspective on neonatal seizures. In: Delgado-Escueta AV, Wasterlain CG, Treiman DM, Porter RJ, editors. Status epilepticus: mechanisms of brain damage and treatment. Advances in neurology. 2nd ed. Vol. 34. New York: Raven Press; 1983. p. 93-99.
23. Kellaway P, Frost JD, Jr, Hrachovy RA. Infantile spasms. In: Gellis S, Kagan B, editors. Current pediatric therapy. Vol. 10. Philadelphia: WB Saunders; 1982. p. 71-72.
24. Kellaway P, Hrachovy RA. Electroencephalography. In: Swaiman KF, Wright FS, editors. The practice of pediatric neurology. 2nd ed. Vol. I. St Louis: CV Mosby; 1982. p. 96-114.
25. Hrachovy RA, Frost JD, Jr, Kellaway P, Zion T. A controlled study of prednisone therapy in infantile spasms. In: Wada JA, Penry JK, editors. Advances in epileptology: the Xth Epilepsy International Symposium. New York: Raven Press; 1980. p. 335-339.

Poster and Platform Presentations

1. Pacheco V, Cherian V, Izadyar S, Hrachovy R. Can EEG sampling be used as an effective tool for detecting clinically significant seizures? Presented at the American Clinical Neurophysiology Society (ACNS), 2012 Annual Meeting in San Antonio, Texas (Feb. 7-12, 2012).
2. Izadyar S, Franks R, Chen DK, Hrachovy RA. Intact vs. impaired ictal sensorium: Does it affect outcome of psychogenic nonepileptic events following disclosure of diagnosis. Abstract No 1.074, 2011, American Epilepsy Society Annual Meeting, www.aesnet.org [\[View poster\]](#)
3. Livesay S, Bershady E, Suarez J, Hrachovy R, Manian P, Herlihy JP, et al. Clinical utility of continuous electroencephalogram (CEEG) monitoring in hypothermia after cardiac arrest. Neurocrit Care. 2011;15:S42.
4. Izadyar S, Chen D, Collins R, Bengtson J, LeMaire A, Hrachovy R. Induction of psychogenic non-epileptic events: Success rates vary with ictal semiology and neuropsychological profile. Abstract No 1.346, 2010, American Epilepsy Society Annual Meeting, www.aesnet.org. [\[View poster\]](#)
5. Izadyar S, Friedman D, Pacheco V, Hrachovy R. Comparison of detection rates of non-convulsive status epilepticus and non-convulsive seizure in critically ill patients using routine EEG and continuous EEG in a busy county and a private hospital. Neurology. 2010;74(9 Suppl 2):A29. [\[View poster\]](#)
6. Frost JD, Lee CL, Hrachovy RA, Swann JW. High frequency EEG activity associated with ictal events in the TTX model of infantile spasms. Epilepsia. 2009;50(Suppl 11):28-9.
7. Mizrahi EM, Frost JD, Jr., Friedman DE, Hrachovy RA, Slater JD. Assessment of acute mild traumatic brain injury by quantitative EEG analysis — Mission Connect: Mild Traumatic Brain Injury Translational Research Consortium — The Integrated Clinical Protocol: Neurophysiology Core. Presented at the US Department of Defense, Military Health Research Forum 2009 in Kansas City, Mo. (Aug. 31 - Sept. 3, 2009). [\[View poster\]](#)
8. Lee CL, Antalffy B, Frost JD Jr, Hrachovy RA, Swann JW. Persistent focal neocortical abnormalities in the TTX model of infantile spasms. Epilepsia. 2007;48(Suppl 6):295.
9. Goldman AM, Burgess DL, Gibbs RA, Chapman KE, Wilfong AA, Hrachovy RA, et al. The prevalence of inter-ictal cardiac arrhythmias and LQT gene variants in patients with idiopathic epilepsy. Epilepsia. 2006;47(Suppl 4):366-7.
10. Lee CL, Frost JD Jr, Swann JW, Hrachovy RA. Neonatal blockade of cortical or hippocampal activity: A possible model of infantile spasms. Epilepsia. 2006;47(Suppl 4):223-4.
11. Richards KC, Hrachovy RA, Mizrahi EM, Jefferson LS. Utility of intermittent bedside electroencephalographic monitoring in the pediatric intensive care setting. Epilepsia. 2004;45(Suppl 7):253.
12. Kim DK, Hrachovy RA, Swann JW. Persistent changes in seizure susceptibility and gabaergic neurotransmission after recurrent early-life seizures. Epilepsia. 2003;44(Suppl 9):28.
13. Foreman PJ, Wilder LM, Hrachovy RA. Utility of continuous video-EEG monitoring in a veteran population: Review of 144 consecutive patients. Epilepsia. 2002;43(Suppl 7):39-40.
14. Doody RS, Hrachovy RA. Recurrent posterior-type aphasia associated with a seizure focus. Electroencephalogr Clin Neurophysiol. 1991;79:28.