

CURRICULUM VITAE

Revised January 2005

Name: **Kenneth D. Laxer, M.D.**

Current Title: Director, Pacific Epilepsy Program
California Pacific Medical Center
2100 Webster Street, Suite 115, San Francisco, CA 94115
Professor Emeritus, Dept of Neurology
School of Medicine, University of California, San Francisco

EDUCATION:

<u>Dates Attended</u>	<u>Institution & Location</u>	<u>Degrees Conferred, Title or Status</u>	<u>Major Subject</u>
1965-69	University of California, Los Angeles	1969 B.S.	Engineering
1969-73	University of California, Irvine	1973 M.D.	Medicine
1973-74	Pacific Medical Center, San Francisco	Intern	Straight Medicine
1974-77	McGill University, Montreal Neurologic Institute Including: 6 months training in Electromyography and Clinical Neurophysiology with Dr. Andrew Eisen 6 months training in Electroencephalography with Dr. Pierre Gloor	Resident	Neurology
1977-78	Neurological Sciences Institute Portland, Oregon	Research Fellow	Cerebellar Physiology

ADDITIONAL RESEARCH EXPERIENCE:

10/1968 - 9/1969 Lear Siegler, Inc. Santa Monica, California, Engineer I, Flight Control System Design and Evaluation
6/1970 - 9/1970 Department of Pathology, University of California, Irvine. Graduate Research Assistant with E.R. Arquilla, M.D. Studying "Sulfated Insulins"
1/1973 - 6/1973 Long Beach Memorial Hospital Graduate Research Assistant with Leon Wiltse, M.D. studying "Toxicity of Chymopapain"
3/1973 - 6/1973 Department of Pharmacology, University of California, Irvine. Role of the Cerebellum in the Inhibition of Seizures with Robert Julien, Ph.D.

LICENSES, CERTIFICATIONS, ETC:

1974 State of California, License #G28500
1974 Diplomate of the National Board of Medical Examiners
1977 State of Oregon, License #10724
1978 Board Certified in Adult Neurology, American Board of Psychiatry and Neurology
1980 Board Certified American Board of Qualification in Electroencephalography and Clinical Neurophysiology

PRINCIPAL POSITIONS HELD:

1978-85 Associate Scientist, Neurological Sciences Institute, Portland, Oregon

1979-86 Assistant Clinical Professor of Neurology, University of Oregon Health Sciences Center
 1978-86 Director, Department of Clinical Neurophysiology, Good Samaritan Hospital and Medical Center
 1982-86 Director, Oregon Comprehensive Epilepsy Program, Good Samaritan Hospital and Medical Center
 1986-96 Associate Professor of Clinical Neurology, University of California, San Francisco
 1986- Director, Northern California Comprehensive Epilepsy Center, University of California, San Francisco
 1996-2002 Professor of Clinical Neurology and Neurosurgery, University of California, San Francisco
 2002- Director, Pacific Epilepsy Program, California Pacific Medical Center, San Francisco
 Professor Emeritus, Neurology, University of California, San Francisco

HONORS AND AWARDS:

School of Medicine "Silver Hammer" Neurology Teaching Award, 1983-84
 Fellow, American Academy of Neurology
 Wilder Penfield Award for Excellence in Neurology, 1976-77
 Chief Resident - Montreal Neurological Institute, 1975
 Graduate Cum Laude - University of California, Los Angeles
 NASA Scholarship in Space Medicine
 Tau Beta Pi - National Engineering Honorary Society
 Phi Eta Sigma - National Freshman Scholastic Honorary Society
 UCLA Honors at Entrance

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

American EEG Society (Fellow)
 American Epilepsy Society
 American Academy of Neurology (Fellow)
 Tau Beta Pi
 Western EEG Society
 San Francisco Neurologic Society
 Society for Neurological Spectroscopy
 International Society for Magnetic Resonance in Medicine
 American Neurological Association

PROFESSIONAL ACTIVITY:

1980-83	Western EEG Society	Board of Directors
1982	Epilepsy Association of Oregon	Professional Advisory Board
1982	Epilepsy Association of Oregon	Board of Directors
1983-85	Western EEG Society	Secretary Treasurer
1984-86	American Epilepsy Society	Bylaws Committee, Chairman
1984-93	Epilepsy Foundation of America	Professional Advisory Board
1985	Western EEG Society	President-Elect
1986	Western EEG Society	President
1986-	American Epilepsy Society	Future Sites Committee
1988-92	Epilepsy Foundation of America	Continuing Education Committee
1988-92	Epilepsy Foundation of America	Clinical Research Fellowships Subcommittee
1990-94	American Epilepsy Society	Program Committee
1992-	Epilepsy Society of the East Bay	Professional Advisory Board
1995-	American Epilepsy Society	Membership Committee
2001-	American Academy of Neurology	Program Committee
2003-	Epilepsy Foundation N. Cal	Chair, Professional Advisory Board
2005-	Epilepsy Research	Editorial Board

OTHER PROFESSIONAL SERVICE:

Ad hoc reviewer Epilepsia, Neurology, Annals of Neurology, Anesthesiology, Epilepsy Foundation of America education materials

Associate Examiner, American Board of Clinical Neurophysiology
American Academy of Neurology, Therapeutics and Technology Assessment Subcommittee, Vagal Nerve Stimulation.
1997 Grant Application Reviewer, Medical Research Council of Canada
1997 External Examiner Doctoral Committee, Faculty of Graduate Studies and Research, McGill University
1998 Alberta Heritage Foundation for Medical research, Health technology Assessment, reviewer
1998, 99,2001 NIH-NINDS Study Sections

Clinical Postdoctoral Fellows Supervised:

Mark Yerby - Clinical Associate Professor of Public Health, Obstetrics and Gynecology
Oregon Health Sciences Center
Steven Collins - Senior Director Global Development, Ovation Pharmaceuticals
Evelyn Tecoma - Associate Professor Neuroscience, University of California, San Diego
Paul Garcia - Associate Professor of Clinical Neurology, University of California, San Francisco
Teresa Curras-Fraser - Clinical Instructor Neurology, University of Miami, Miami, Florida
Robert C. Knowlton - Assistant Professor of Neurology, University of Alabama, Birmingham
Jack M. Parent - Assistant Professor of Neurology, University of Michigan
William J. Marks - Assistant Professor of Neurology, University of California, San Francisco
Oliver Bernath - Management Consultant for McKinsey & Co - London, England
Steve S. Chung - Clinical Assistant Professor of Neurology, Director of epilepsy clinics
University of California, Irvine
Taoufik Al Saadi - Assistant Professor of Clinical Neurology, Co-Director,
Comprehensive Epilepsy Program, University of California, Davis
Lisa M. Bateman – Clinical Instructor, University of California, San Francisco

Research Postdoctoral Fellows Supervised:

Jeroen van der Grond, D. Sci
James Hugg, PhD
Gabriella Ende, D. Sci
Peter Vermathen, PhD
Andres Cappizzano, M.D.
Joyce Suhy, PhD
Susanne Mueller, M.D.

RESEARCH AND CREATIVE ACTIVITY:

Original Articles:

1. Julien, R.M., Laxer, K.D. Cerebellar responses to penicillin-induced cerebral cortical epileptiform discharge. *Electroenceph. Clin. Neurophysiol.* 37:123-132, 1974.
2. Laxer, K.D., Eisen, A.A. Silent period measurement in the differentiation of central demyelination and axonal degeneration. *Neurology* 25:740-744, 1975.
3. Laxer, K.D., Sourkes, T.L., Fang, T.Y., Young, S.N., Gauthier, S.G., Missala, K. Monoamine metabolites in the CSF of epileptic patients. *Neurology* 29:1157-1161, 1979.
4. Rushmer, D.S., Woollacott, M.H., Robertson, L.T., Laxer, K.D. Somatotopic organization of climbing fiber projections from low threshold cutaneous afferents to pars intermedia of cerebellar cortex in the cat. *Brain Research* 181:17-30, 1980.
5. Janowsky, J.S., Laxer, K.D., Rushmer, D.S. Classical conditioning of kindled seizures. *Epilepsia* 21:393-398, 1980.
6. Robertson, L.T., Laxer, K.D. Localization of cutaneously elicited climbing fiber responses in lobule V of the monkey cerebellum. *Brain Behav. Evol.* 18:157-168, 1981.
7. Robertson, L.T., Laxer, K.D., Rushmer, D.S. Organization of climbing fiber input from mechanoreceptors to lobule V vermal cortex of the cat. *Exp. Brain Res.* 46:281-291, 1982.
8. Spreier, K.L., Laxer, K.D. Mass storage of evoked potential data on a home microcomputer system. *Electroenceph. Clin. Neurophysiol.* 55:604-605, 1983.

9. DiLiberti, J.H., Laxer, K.D. Brain stem auditory evoked potentials in a case of Reye's syndrome. *Clin. Ped.* 23:238-239, 1984.
10. Gancher, S., Laxer, K.D., Krieger, W. Activation of epileptogenic activity by Etomidate. *Anesthesiology* 61:616-618, 1984.
11. Laxer, K.D. Mini-sphenoidal electrodes in the investigation of seizures. *Electroenceph. Clin. Neurophysiol.* 58:127-129, 1984.
12. Laxer, K.D., Mullooly, J.P., Howell, B. Prolactin changes after seizures classified by EEG monitoring. *Neurology* 35:31-35, 1985.
13. Brey, R., Laxer, K.D. Type I/II complex partial seizures: No correlation with surgical outcome. *Epilepsia* 26:657-660, 1985.
14. Krieger, W., Copperman, J., Laxer, K.D. Seizures with etomidate anesthesia. *Anesthesia and Analgesia* 64:1226-1227, 1985.
15. Rafal, R.D., Laxer, K.D. Seizures triggered by blinking in a non-photosensitive epileptic. *J. Neurol., Neurosurg., Psychiatry* 49:445-447, 1986.
16. Rosenbaum, T.J., Laxer, K.D., Vessely, M., Smith, W.B. Subdural electrodes for seizure focus localization. *Neurosurgery* 19:73-81, 1986.
17. Koerner, M., Laxer, K.D. Ictal speech, postictal language dysfunction, and seizure lateralization. *Neurology* 38:634-636, 1988.
18. Rosenbaum, J.R., Laxer, K.D. Subdural electrode recordings for seizure focus localization. *J. Epilepsy* 2:129-135, 1989.
19. Geiger, E.H., Laxer, K.D., et al. A double-blind, placebo-controlled, evaluation of cinromide in patients with Lennox-Gastaut Syndrome. *Epilepsia* 30:422-429, 1989.
20. Goodin, D.S., Aminoff, M.J., Laxer, K.D. Comparative utility of different noninvasive methods for detecting epileptiform activity in the electroencephalogram of patients with complex partial epilepsy. *Annals of Neurology* 27:330-334, 1990.
21. Dowd, C.F., Dillon, W.P., Laxer, K.D., Barbaro, N. Magnetic Resonance Imaging of intractable complex partial seizures: Pathologic and electroencephalographic correlation. *Epilepsia* 32:454-9, 1991.
22. Garcia, P.A., Laxer, K.D. The prognostic value of post-operative seizures following epilepsy surgery. *Neurology* 41:1511-2, 1991.
23. Pledger, G.W., Laxer, K.D., Sahlroot, J.T., Taylor, M.R., Cereghino, J.J. Pharmacokinetic and dose tolerability study of ADD 94057 in co medicated patients with partial seizures. *Epilepsia* 33:112-118, 1992.
24. Dowd, C.F., Dillon, W.P., Barbaro, N.M., Laxer, K.D. Intractable complex partial seizure: Correlation of magnetic resonance imaging with pathology and electroencephalography. *Epilepsy Res.* 5:101-110, 1992.
25. Sloviter, R.S., Sollas, A.L., Barbaro, N.M., Laxer, K.D. Calcium-binding protein (calbindin-D28K) and parvalbumin immunocytochemistry in the normal and epileptic human hippocampus. *Journal of Comparative Neurology* 308:381-396, 1991.
26. Laxer, K.D., Hubesch, B., Sappey-Mariniere, D., Weiner, M.W. Increased pH and inorganic phosphate in temporal seizure foci, demonstrated by ³¹P MRS. *Epilepsia* 33:618-623, 1992.
27. Obana, W.G., Laxer, K.D., Cogen, P.H., Walker, J.A., Davis, R.L., Barbaro, N.M. Resection of dominant opercular gliosis in refractory partial epilepsy. *J. Neurosurgery* 77:632-639, 1992.
28. Hugg, J.W., Laxer, K.D., Matson, G.B., Maudsley, A.A., Husted, C.A., Weiner, M.W. Lateralization of Human Focal Epilepsy by ³¹P Magnetic Resonance Spectroscopic Imaging. *Neurology* 42:2011-2018, 1992.
29. Barbaro, N.M., Rosenbaum, T.J., Laxer, K.D. Focal encephalitis as an etiology of temporal lobe epilepsy. *Stereotact Funct Neurosurg* 58:178, 1992.
30. Bourgeois, B.F., Laxer, K.D., Kamin, M., Kramer, L.D., et al. Felbamate: A Double-Blind Controlled Trial in Patients Undergoing Presurgical Evaluation of Partial Seizures. *Neurology* 1992.
31. Desbiens, R., Berkovic, S.F., Dubeau, F., Andermann, F., Laxer, K.D., et al. Life Threatening Focal Status Epilepticus Due To Occult Cortical Dysplasia. *Archives of Neurology* 50:695-700, 1993.
32. Valk, P.E., Laxer, K.D., Barbaro, N.M., Knezevic, S., Dillon, W.P., Budinger, T.F. High-resolution PET in Partial Complex Epilepsy - Associated with Mesial Temporal Sclerosis. *Radiology* 186:55-58, 1993.
33. Hugg, J.W., Laxer, K.D., Weiner, M.W. Focal Epilepsy Localization by Magnetic Resonance Spectroscopic Imaging. *Adv. Clin. Neurosciences* 3:011-026, 1993.
34. Tecoma, E.S., Laxer, K.D., Barbaro, N.M., Plant, G.T. Incidence and Characteristics of Visual Field Deficits After Surgery For Mesial Temporal Sclerosis. *Neurology* 43:1235-1238, 1993.

35. Mamelak, A.N., Barbaro, N.M., Walker, J.A., Laxer, K.D. Corpus Callosotomy: A Quantitative Study of the Extent of Resection, Seizure Control, and Neuropsychological Outcome. *J. Neurosurgery* 79:688-695, 1993.
36. Rampil, I.J., Lopez, C.E., Laxer, K.D., Barbaro, N.M. Propofol Sedation May Disrupt Interictal Epileptiform Activity from a Seizure Focus. *Anesth Analg.* 77:1071-1073, 1993.
37. Hugg, J.W., Laxer, K.D., Matson, G.B., Maudsley, A.A., Weiner, M.W. Neuron Loss Localizes Human Temporal Lobe Epilepsy by In Vivo Proton Magnetic Resonance Spectroscopic Imaging. *Ann Neurology* 34:788-794, 1993.
38. Plant, G.T., Laxer, K.D., Barbaro, N.M., Schiffman, J.S., Nakayama, K. Impaired Visual Motion Perception in the Contralateral Hemifield Following Unilateral Posterior Cerebral Lesions in Humans. *Brain* 116:1303-35, 1994.
39. Garcia, P.A., Laxer, K.D., van der Grond, J., Hugg, J.W., Matson, G.B., Weiner, M.W. Phosphorus Magnetic Resonance Spectroscopic Imaging in Patients with Frontal Lobe Epilepsy. *Annals of Neurology* 35:217-221, 1994.
40. Garcia, P.A., Laxer, K.D., Barbaro, N.M., Dillon W.P. The prognostic value of qualitative MRI hippocampal abnormalities in patients undergoing temporal lobectomy for medically refractory seizures. *Epilepsia* 35:520-524, 1994.
41. Gevins, A., Cuttillo, B., Desmond, J.E., Ward, M., Bressler, S., Barbaro, N., Laxer, K. Subdural grid recordings of distributed neocortical networks involved with somatosensory discrimination. *Electroenceph. Clin. Neurophysiol* 92:282-290, 1994.
42. Gevins, A., Cuttillo, B., DuRousseau, D., Le, J., Leong, H., Martin, N., Smith, M.E., Bressler, S., Brickett, P., McLaughlin, J., Barbaro, N.M., Laxer, K.D. Imaging the Spatiotemporal Dynamics of Cognition With High-Resolution Evoked Potential Methods. *Human Brain Mapping* 1:101-116, 1994
43. Laxer, K.D. Guidelines for Treating Epilepsy in the Age of Felbamate, Vigabatrin, Lamotrigine, and Gabapentin. *The Western Journal of Medicine* 161:309-314, 1994.
44. Garcia, P.A., Laxer, K.D., van der Grond, J., Hugg, J.W., Matson, G.B., Weiner, M.W. Proton Magnetic Resonance Spectroscopic Imaging in Patients with Frontal Lobe Epilepsy. *Annals of Neurology* 37:279-281, 1995.
45. Garcia PA; Laxer KD; Ng T. Application of spectroscopic imaging in epilepsy. *Magnetic Resonance Imaging* 13:1181-5, 1995.
46. Menon, V., Freeman, W.J., Cuttillo, B.A., Desmond, J.E., Ward, M., Bressler, S.L., Laxer, K.D., Barbaro, N.M., Gevins, A.S. Spatio-temporal Correlations in Human Gamma Band Electroencephalograms. *EEG and Clin. Neurophys.* 98:89-102, 1996.
47. Ward, M.W., Barbaro, N.M., Laxer, K.D., Rampil, I.J. Preoperative valproate administration does not increase blood loss during temporal lobectomy. *Epilepsia* 37:98-101, 1996.
48. Wong, S.T., Knowlton, R.C., Hawkins, R.A., Laxer, K.D. Multimodal image fusion for noninvasive epilepsy surgery planning. *IEEE Computer Graphics* 16:30-38, 1996.
49. Ende, G., Laxer, K.D., Knowlton, R.C., Matson, G.B., Fein, G., Weiner, M.W. Proton MRSI reveals bilateral hippocampal metabolite changes in temporal lobe epilepsy. *Radiology* 202:809-817, 1996.
50. Grant, P.E., Barkovich, A.J., Wald, L., Dillon, W.P., Laxer, K.D., Vigneron, D.B. High resolution surface coil imaging of cortical lesions in medically refractory epilepsy: A prospective study. *American Journal of Neuroradiology* 18:291-301, 1997.
51. Li, Y., Uccelli, A., Laxer, K.D., Jeong, M.C., Vinters, H.V., Tourtellotte, W.W., Hauser, S.L., and Oksenberg, J.R. Local clonal expansion of infiltrating T lymphocytes in chronic encephalitis of Rasmussen. *Journal of Immunology* 158:1428-1437, 1997.
52. Garcia, P.A., Laxer, K.D., van der Grond, J., Hugg, J.W., Matson, G.B., Weiner, M.W. Correlation of seizure frequency with N-acetyl-aspartate levels determined by ¹H magnetic resonance spectroscopic imaging. *Magnetic Resonance Imaging* 15:475-8, 1997.
53. Vermathen, P., Ende, G., Laxer, K.D., Knowlton, R.C., Din, M.E., Matson, G.B., Weiner, M.W. Hippocampal N-Acetylaspartate in neocortical epilepsy and mesial temporal lobe epilepsy. *Annals of Neurology*, 42:194-199, 1997.
54. Johnston, S.C., Siedenberg, R., Min, J.K., Jerome, E.H., Laxer, K.D. Central Apnea and Acute Cardiac Ischemia in a sheep model of epileptic sudden death. *Annals of Neurology*, 42:588-594, 1997.

55. Knowlton, R.C., Laxer, K.D., Aminoff, M.J., Roberts, T.P., Wong, S.T., Rowley, H.A. Magnetoencephalography in partial epilepsy: Clinical yield and localization accuracy. *Annals of Neurology* 42:622-631, 1997.
56. Knowlton, R.C., Laxer, K.D., Ende, G., Wong, S.T., Hawkins, R.A., Matson, G.B., Rowley, H.A., Fein, G., Weiner, M.W. Presurgical multimodality neuroimaging in EEG lateralized temporal lobe epilepsy. *Annals of Neurology* 42:829-37, 1997.
57. Laxer, K.D. Clinical applications of magnetic resonance spectroscopy. *Epilepsia* 38:S13-17, 1997
58. van der Grond, J., Gerson, J.R., Laxer, K.D., Hugg, J.W., Matson, G.B., Weiner, M.W. Regional distribution of interictal ³¹P metabolic changes in patients with temporal lobe epilepsy. *Epilepsia* 39:527-536, 1998.
59. Marks, W.J., Laxer, K.D. Semiology of temporal lobe seizures: value in lateralizing the seizure focus. *Epilepsia* 39:721-726, 1998.
60. Hart, Y.M., Andermann, F., Robitaille, Y., Laxer, K.D., Rasmussen, T., Davis, R. Double pathology in Rasmussen's syndrome. A window on the etiology? *Neurology* 50:731-735, 1998.
61. Schachter, S.C., Vazquez, B., Fisher, R.S., Laxer, K.D., Montouris, G.D., et al. Oxcarbazepine: double-blind, randomized, placebo-control, monotherapy trial for partial seizures. *Neurology* 52:732-7, 1999.
62. Schachter, S.C., Vazquez, B., Fisher, R.S., Laxer, K.D., Combs-Cantrell, D., Faught, E., Willmore, L.J., Morris, G.L., Ojemann, L., Montouris, G.D. Oxcarbazepine in a monotherapy trial for partial seizures—placebo-controlled studies in neurology: where do they stop? *Neurology* 53:2211-2, 1999.
63. Vermathen, P.V., Laxer, K.D., El Din, M., Matson, G.B., Weiner, M.W. Hippocampal Structures: Anterior-posterior NAA differences in hippocampal structures in epilepsy patients and in controls shown with proton MR spectroscopic imaging. *Radiology* 214:403-410, 2000.
64. Laxer, K.D. Magnetic resonance spectroscopy in neocortical epilepsies. *Adv Neurol* 84:405-14, 2000.
65. Laxer, K.D. Phosphorus MRS: pH, ATP, PCr. *Adv Neurol* 83:273-7, 2000.
66. Capizzano, A.A., Vermathen, P.V., Laxer, K.D., Ende, G., Norman, D., Rowley, H., Matson, G.B., Maudsley, A.A., Segal, M., Weiner, M.W. Temporal lobe epilepsy: qualitative reading of 1H MR spectroscopic images for presurgical evaluation. *Radiology* 218:144-51, 2001.
67. Alsaadi, T.M., Laxer, K.D., Garcia, P.A., Barbaro, N.M., Marks, W.J.. Vagus Nerve stimulation for the treatment of bilateral independent temporal lobe epilepsy. *Epilepsia* 42:954-965, 2001.
68. Knowlton, R.C., Laxer, K.D., Klein, G., Sawrie, S., Hawkins, R.A., Aassar, O.S., Soohoo, K., Wong, S., Barbaro, N.M.. In vivo hippocampal glucose metabolism in mesial temporal lobe epilepsy. *Neurology* 57:1184-90, 2001.
69. Alsaadi, T.M., Laxer, K.D., Barbaro, N.M., Marks, W.J., Garcia, P.A. False lateralization by subdural electrodes in two patients with temporal lobe epilepsy. *Neurology* 57:532-534, 2001.
70. Baranzini, S.E., Laxer, K.D., Saketkoo, R., Elkins, M.K., Parent, J.M., Mantegazza, R., Oksenberg, J.R.. Analysis of antibody gene rearrangement, usage, and specificity in chronic focal encephalitis (Rasmussen's disease). *Neurology* 58:709-716, 2002.
71. Suhy, J., Laxer, K.D., Capizzano, A.A., Vermathen, P., Matson, G.B., Barbaro, N.M., Weiner, M.W.. ¹H MRSI predicts surgical outcome in MRI-negative temporal lobe epilepsy. *Neurology* 58:821-823, 2002.
72. Chung, S.S., McEvoy, L.K., Smith, M.E., Gevins, A., Meador, K., Laxer, K.D.. Task-related EEG and ERP changes without performance impairment following a single dose of phenytoin. *Clin Neurophysiol* 113:806-14, 2002.
73. Vermathen, P.V., Ende, G., Laxer, K.D., Walker, J.A., Knowlton, R.C., Barbaro, N.M., Matson, G.B., Weiner, M.W. Temporal lobectomy for epilepsy: recovery of the contralateral hippocampus ¹H MRS. *Neurology* 59:633-6, 2002.
74. Capizzano, A.A., Vermathen, P.V., Laxer, K.D., Matson, G.B., Maudsley, A.A., Soher, B.J., Schuff, N., Weiner, M.W. Multisection Proton MR Spectroscopy for Mesial Temporal Lobe Epilepsy. *Am J Neuroradiol* 23:1359-1368, 2002.
75. Mueller, S.G., Suhy, J., Laxer, K.D., Flenniken, D.L., Axelrad, J., Capizzano, A.A., Weiner, M.W.. Reduced Extrahippocampal NAA in Mesial Temporal Lobe Epilepsy. *Epilepsia* 43:1210-6, 2002
76. Baranzini, S.E., Laxer, K.D., Bollen, A., Oksenberg, J.R.. Gene expression analysis reveals altered brain transcription of glutamate receptors and inflammatory genes in a patient with chronic focal (Rasmussen's) encephalitis. *J of Neuroimmunology* 128:9-15, 2002.

77. Wong, S.T.C., Soo Hoo, K., Knowlton, R.C., Laxer, K.D., Cao, X., Hawkins, R.A., Dillon, W.P., Arenson, R.L.. Design and applications of a multimodality image data warehouse framework. *Jam Med Inform Assoc* 9:239-254, 2002.
78. Vermathen, P., Laxer, K.D., Schuff, N., Matson, G.B., Weiner, M.W.. Evidence for Neuronal Injury Outside Medial Temporal Lobe in Temporal Lobe Epilepsy: NAA Reductions Detected by Multislice Proton MRSI. *Radiology* 226:195-202, 2003.
79. Mueller, S.G., Laxer, K.D., Suhy, J., Lopez, R.C., Flenniken, D. L., Weiner, M.W.. Spectroscopic Metabolic Abnormalities in mTLE With and Without MRI Evidence for Mesial Temporal Sclerosis Using Hippocampal Short TE MRSI. *Epilepsia* 44:977-80, 2003.
80. Assaf BA, Karkar KM, Laxer KD, Garcia PA, Austin EJ, Barbaro NM, Aminoff MJ. Ictal magnetoencephalography in temporal and extratemporal lobe epilepsy. *Epilepsia* 44:1320-7, 2003.
81. Alsaadi TM, Bateman LM, Laxer KD, Barbaro NM, Austin EJ, Garcia PA. Potentially misleading extratemporal lobe lesions in patients with temporal lobe epilepsy. *J Neurol Neurosurg Psychiatry* 74:566-9, 2003.
82. Assaf BA, Karkar KM, Laxer KD, Garcia PA, Austin EJ, Barbaro NM, et al. Magnetoencephalography source localization and surgical outcome in temporal lobe epilepsy. *Clin Neurophysiol* 115:2066-76, 2004.
83. Sloviter RS, Kudrimoti HS, Laxer KD, Barbaro NM, Chan S, Hirsch LJ, et al. "Tectonic" hippocampal malformations in patients with temporal lobe epilepsy. *Epilepsy Res* 59:123-53, 2004.
84. Mueller SG, Laxer KD, Cashdollar N, Flenniken DL, Matson GB, Weiner MW. Identification of abnormal neuronal metabolism outside the seizure focus in temporal lobe epilepsy. *Epilepsia* 45:355-66, 2004.
85. Mueller, S.G., Laxer, K.D., Barakos, J.A., Cashdollar, N., Flenniken, D.L., Vermathen, P., Matson, G.B., Weiner, M.W.. Identification of the Epileptogenic Lobe in Neocortical Epilepsy with Proton MR Spectroscopic Imaging. *Epilepsia* 45:1580-1589, 2004.
86. Bateman, L.M., Laxer, K.D.. The role of spectroscopy in the evaluation of epilepsy. *Trends in Applied Spectroscopy* 5:63-69, 2004.
87. Kirsch, H.E., Walker, J.A., Winstanley, B.A., Hendrickson, R., Wong, S.T.C., Barbaro, N.M., Laxer, K.D., Garcia, P.A.. Limitations of Wada memory asymmetry as a predictor of outcomes after temporal lobectomy. *Neurology* 65:676-80, 2005.
88. Mueller, S.G., Laxer, K.D., Barakos, J.A., Cashdollar, N., Flenniken, D.L., Vermathen, P., Matson, G.B., Weiner, M.W.. Metabolic Characteristics of Cortical Malformations Causing Epilepsy. *J Neurol* 252:1082-92, 2005.
89. Mueller S.G., Laxer, K.D., Cashdollar, N., Lopez, R., Weiner, M.W.. Spectroscopic Evidence of Hippocampal Abnormalities in Neocortical Epilepsy. *Eur J Neurol* 13:256-60, 2006.
90. Schuff N, Meyerhoff DJ, Mueller S, Chao L, Sacrey DT, Laxer K, Weiner MW. N-acetylaspartate as a marker of neuronal injury in neurodegenerative disease. *Adv Exp Med Biol*. 576:241-62, 2006.
91. Mueller SG, Laxer KD, Cashdollar N, Buckley S, Paul C, Weiner MW. Voxel-based optimized morphometry (VBM) of gray and white matter in temporal lobe epilepsy (TLE) with and without mesial temporal sclerosis. *Epilepsia* 47:900-7, 2006.
92. Mueller SG, Laxer KD, Schuff N, Weiner MW. Voxel-based T2 relaxation rate measurements in temporal lobe epilepsy (TLE) with and without mesial temporal sclerosis. *Epilepsia*. 48:220-8, 2007.

Abstracts

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