**UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS**

**CURRICULUM VITAE**

**MARK C. SPITZ**

Office Address: Department of Neurology

University of Colorado Anschutz Medical Campus

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Education: 1975 B.A. (Chemistry), Arizona State University; Tempe, Arizona

1979 M.D. University of Arizona College of Medicine; Tucson, Arizona

## POST GRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS

1979 – 1980 Internship in Internal Medicine; Baylor College of Medicine Affiliated Hospitals; Houston, Texas

1980 – 1983 Residency in Neurology; Baylor College of Medicine Affiliated Hospitals; (includes 6 months as Chief Resident), Houston, Texas

1983 – 1985 Post-doctoral Fellow in Clinical Neurophysiology and Epilepsy; the Neurological Institute of New York, College of Physicians and Surgeons of Columbia University; New York, New York.

# FACULTY APPOINTMENTS

1985 Chief, Epilepsy Division, University of Colorado Health Sciences Center

1985 – 1991 Assistant Professor, Department of Neurology, University of Colorado Health Sciences Center

1991 – 1999 Associate Professor, Department of Neurology, University of Colorado Health Sciences Center

1999 -present Professor, Department of Neurology, University of Colorado Health Sciences Center

2017 -present Reuler-Lewin Family Professor of Neurology

**LICENSURE** State of Colorado, #27145

**SPECIAL CERTIFICATIONS**

1. National Board of Medical Examiners
2. American Board of Clinical Neurophysiology

1988 American Board of Psychiatry and Neurology (Neurology)

1997 American Board of Psychiatry and Neurology (Clinical Neurophysiology)

2013 American Board of Psychiatry and Neurology (Clinical Epilepsy)

# EXAMINER

1992, 1994 American Board of Psychiatry and Neurology (Neurology)

1995, 2000 American Board of Clinical Neurophysiology

# EDITORIAL BOARD

2003-present Epilepsy.com

# AD HOC REVIEWER

2003-present Clinical Infections Disease, Neurology, Epilepsia, Epilepsy and Behavior

2012 Abstract Review American Neurological Association Annual Meeting

2013-present Journal of the Neurological Sciences

2014 -present Behavior and Neurology

2015 The Journal of Neuropsychiatry and Clinical Neurosciences

# AWARDS AND HONORS

1. American Institute of Chemists Award (given to most outstanding undergraduate)
2. Outstanding Teacher Award in Neurology (elected by

Residents), UCHSC

1. “Hero of the Week” Award for Community Service, Rocky Mountain News
2. Who’s Who in Medicine and Healthcare, 1st Edition, MARQUIS Who’s Who; New Providence, New Jersey

2003 The Commitment to Medical Excellence in Epilepsy Award, Epilepsy Foundation of Colorado

2004 Listed in “Best Doctors in America 2004-2005” preeminent database

2004 Outstanding Service Award, Epilepsy Foundation of Wyoming

2005 Listed in “Best Doctors in America 2005-2006” preeminent database

2006 Listed in “Best Doctors in America 2006-2007” preeminent database

2006 Distinguished Coloradoan Award

2007 Listed in “Best Doctors in America 2007-2008” preeminent database

2008 Listed in “Best Doctors in America 2008-2009” preeminent database

2009 Listed in “Best Doctors in America 2009-2010” preeminent database

2010 Listed in “Best Doctors in America 2010-2011” preeminent database

2010 The “Compassionate Doctor” award, Patient’s Choice

2011 The “Compassionate Doctor” award, Patient’s Choice

2012 Listed in Denver's 5280 Magazine 'top doctors' issue

2012 USNWR and Castle Connolly Medical 'best doctors' list

2013 Listed in “Best Doctors in America 2013” preeminent database

2013 Listed in Denver's 5280 Magazine 'top doctors' issue

2014 Listed in Denver's 5280 Magazine 'top doctors' issue

2015 Listed in Denver's 5280 Magazine 'top doctors' issue

2015 Castle Connolly Top Doctor in Neurology

2015 Listed in “Best Doctors in America 2015” preeminent database

2016 Listed in Denver's 5280 Magazine 'top doctors' issue

2016 Castle Connolly Top Doctor in Neurology

2016 Listed in “Best Doctors in America 2016” preeminent database

2017 Listed in Denver's 5280 Magazine 'top doctors' issue

2017 Listed in “Best Doctors in America 2017” preeminent database

2018 Castle Connolly Top Doctor in Neurology

2018 Listed in “Best Doctors in America 2018” preeminent database

2018 Listed in Denver's 5280 Magazine 'top doctors' issue

2019 Castle Connolly Top Doctor in Neurology

2019 Listed in “Best Doctors in America 2019” preeminent database

2019 Listed in Denver's 5280 Magazine 'top doctors' issue

# MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Academy of Neurology (Fellow)

American Clinical Neurophysiology Society (Clinical Practices Committee, 1990 – 1993; Chairman, Membership Committee, 1993 – 1996)

American Epilepsy Society:

(Scientific Program Committee, 1997 – Present; Website Committee 2005-present)

Cajal Club (2000)

Colorado Neurology Society

Epilepsy Foundation of America (Professional Advisory Board 1989 – 1997; Chairman, Gatekeepers Committee, 1993 – l995; Board of Directors, 1995 – 1997)

Epilepsy Foundation of Colorado (Professional Advisory Board, 1985 – Present; Chairman, Professional Advisory Board, 1990 – 1997)

Western Electroencephalography Society (Secretary-Treasurer, 1995 – 1996; Vice President, 1996 – 1997; President 1997 – 1998)

American Academy of Clinical Neurophysiology (Board of Directors, 2006-present)

Primary Neuro News (Editorial Board, 2006-present)

American Neurological Association

Qualitative Use Driven Learning Survey in Epilepsy (Q-Pulse Committee – 2015 to present)

**ADMINISTRATIVE ACTIVITIES:**

1983 – 1984 Acting Director, Electroencephalography Laboratory; Harlem Hospital Medical Center

1985 – present Medical Director, Clinical Neurophysiology Laboratory; University of Colorado Health Sciences Center

1985 – present Director, Comprehensive Epilepsy Center, University of Colorado Health Sciences Center

1985 – 1991 Quality Assurance, Department of Neurology; University of Colorado Health Sciences Center

1988 – present Medical Director, Clinical Neurophysiology Laboratory, Denver VA

1990 – 1995 Faculty Senate; University of Colorado Health Sciences Center

1992 – 1995 Resident Selection Committee, Department of Neurology; University of Colorado Health Sciences Center

1997 – 2008 Incentive Committee Chairman Committee, Department of Neurology; University of Colorado Health Sciences Center

2003 – 2006 Academic Ethics committee; University of Colorado Health Sciences Center

### CONTRACTS

1987 – 1989 Depakote Monitoring in the Treatment of Primary Generalized Epilepsy. Abbott Laboratories

1989 - 1991 Depakote in the Treatment of Complex Partial Seizures. Abbott Laboratories

1991 - 1994 A Double-blind, Placebo-controlled, Parallel Trial of Topiramate as Adjunctive Therapy in Refractory Partial Seizure Disorders. R.W. Johnson Pharmaceuticals

1992 - 1993 Controlled Trial of Felbamate Monotherapy for Generalized Tonic-Clonic Seizures. Wallace Laboratories

1994 - 1996 Placebo Controlled Efficacy and Safety Evaluation of Zonisamide in the Treatment of Seizures in Medically Refractory Patients. Dainippon Pharmaceuticals

1994 Gabapentin Open-Label, Follow-up Trial in Patients with Refractory Partial Epilepsy. Warner-Lambert

1994 Gabapentin Inpatient Monotherapy Trial: A Double-blind, Dose-controlled, Multicenter Study in Patients with Refractory Partial Epilepsy. Warner-Lambert

1995 - 1996 Efficacy of Rational Polytherapy with Sebril vs. Carbamazepine Monotherapy in the Management of Patients with Non-Refractory Complex Partial Seizures.

Marion Merrill Dow, Inc.

1996 - 1997 Cost Analysis of the Routine Use of Parenteral IM Fosphenytoin Versus IV Fosphenytoin in the Management of Seizures Within the Hospital Setting. Parke-Davis Pharmaceuticals

1998 - 2003 New Onset Epilepsy in the Elderly. Veterans Administration Cooperative Study #428. A Multicenter, Study of New Onset Geriatric Epilepsy comparing Carbamazepine, Lamotrigine and Gabapentin.

2001 - 2002 Open-label Dose Titration Trial to Determine Tolerability and Efficacy of Oral SPM 927 as Adjunctive Therapy in Patients with Partial Seizures with or without Secondary Generalization. Swartz Pharmaceuticals

2003 - 2004 Double-blind study of Topiramate in the Elderly. McNeil Pharmaceuticals

2003 - 2004 Safety, Efficacy and Bioavailability of Zonisamide in 25mg and 50 mg Formulations. Elan Pharmaceuticals

2005 - 2008 Principle Investigator in Denver Veterans Administration’s participation in, Double Blind Study of Leviteracetam in the elderly. UCB Pharmaceuticals

2007 - 2009 Principle Investigator in University of Colorado Hospital’s participation in, A Randomized Double Blind, Placebo Controlled Multicenter Study of Retigabine as Adjunctive Therapy in Refractory Epilepsy. Valeant Research and Development

2008 - 2010 Co investigator in Ganaxolone in Adults With Medically Refractory Epilepsy. Marinus Pharmaceuticals.

2008 - 2013 Principal Investigator, Schwarz SP902, A Historical-Controlled, Multicenter, Double-Blind, Randomized Trial to Assess The Efficacy and Safety of Conversion to Lacosamide 400MG/day Monotherapy In Subjects with Partial-Onset Seizures

2008 - 2014 Principal Investigator, Schwarz SP904, A Multicenter, Open-Label Extension Trial to Assess the Long-Term Use of Lacosamide Monotherapy and Safety of Lacosamide Monotherapy and Adjunctive Therapy in Subjects with Partial-Onset Seizures

2009 - 2010 Co investigator in Supernus Prosper 301 study: Multicenter, Double-Blind, Randomized, Placebo-Controlled, Three-Arm, Parallel Group Study to Evaluate the Efficacy and Safety of Oxcarbazepine Extended-Release (OXC XR) (1200 and 2400mg/day) as Adjunctive Therapy in Subjects with Refractory Partial Seizures due to Epilepsy on up to Three Concomitant Antiepileptic Medications

2009 - 2011 Co investigator in Supernus Prosper 302 study: Multicenter, Open-Label Extension Study to Evaluate the Long-Term Safety and Tolerability of Oxcarbazepine Extended-Release (OXC XR) as Adjunctive Therapy in Subjects with Refractory Partial Epilepsy on up to Three Concomitant Antiepileptic Medications

2009 - 2013 Sub-Investigator, Sunovion 093-045, Double-Blind, Randomized, Historical Control Study of the Safety and Efficacy of Eslicarbazepine Acetate Monotherapy in Subjects with Partial Epilepsy Not Well Controlled by Current Antiepileptic Drugs

2009 - 2015 Sub-Investigator, Sunovion 093-050, Long-Term Eslicarbazepine Acetate Extension Study

2009 - 2015 Co investigator in Sepracor INC Research 093-045 study: Double-Blind, Randomized, Historical Control Study of the Safety and Efficacy of Eslicarbazepine Acetate Monotherapy in Subjects with Partial Epilepsy Not Well Controlled by Current Antiepileptic Drugs

2011 - 2014 Sub-Investigator, Sunovion 304, Efficacy and Safety of Eslicarbazepine Acetate

(BIA 2-093) as Adjunctive Therapy for Refractory Partial Seizures in a Double-Blind, Randomized, Placebo-Controlled, Parallel-Group, Multicenter Clinical Trial

2012-Present Principle Investigator in the Eyewitness Study: The Accuracy of Seizure Descriptions from Patients and Eyewitnesses

2012-Present Sub-Investigator, USL P261-401 ARTEMIS-1, A Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of Intranasal Midazolam (USL261) in the Outpatient Treatment of Subjects with Seizure Clusters

2012-2015 Principal Investigator, Eisai E2007-G000-322, A Double-blind, Randomized, Placebo-controlled, Multicenter, Parallel-group Study with an Open-label Extension Phase to Evaluate the Efficacy and Safety of Adjunctive Perampanel in Primary Generalized Tonic-Clonic Seizures

2012-Present Sub-Investigator, USL P261-402 ARTEMIS-1, An Open-Label Safety Study of USL261 in the Outpatient Treatment of Subjects with Seizure Clusters

2013-Present Sub-Investigator, UCB N01358, A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Parallel-Group Study to Evaluate the Efficacy and Safety of Brivaracetam in Subjects (≥16 to 80 Years Old) With Partial Onset Seizures

2013-Present Sub-Investigator UCB N01379, An Open-Label, Multicenter, Follow-Up Study to Evaluate the Long-Term Safety and Efficacy of Brivaracetam Used as Adjunctive Treatment in Subjects Age 16 Years Or Older with Epilepsy

2014- Present Sub-Investigator, Marinus 1042-0603, A Multicenter, Double Blind, Randomized, Placebo-Controlled Trial to Determine the Efficacy and Safety of Ganaxolone as Adjunctive Therapy for Adults with Drug-Resistant Partial-Onset Seizures Followed by Long-term Open-Label Treatment

2014- Present Co investigator in the Brain Injury and Mechanisms of Action of HBO2 for Persistent Post-Concussive Symptoms after Mild Traumatic Brain Injury (BIMA), sponsored by the Department of Defense (DoD) is a randomized, double-blind, sham-controlled trial of hyperbaric oxygen (HBO2) in Service members with persistent post-concussive symptoms following mild TBI, undergoing comprehensive assessments.

2015-Present Sub-Investigator, NeuroPace RNS System Post Approval Study, RNS System Post-Approval Study in Epilepsy Clinical Investigation Plan (CIP)

2015-Present Principle Investigator in the Wireless electroencephalography for continuous monitoring in the EEG LTM unit (Patch Protocol) study, sponsored by Epitel. The study is to learn more about how the results of a new wireless patch for continuous EEG compare to those of standard continuous EEG.

2015-Present Co investigator in the Recording Magnetoencephalography with magnetrodes operating at room temperature. NIH funded grant in collaboration with the University of Colorado.

**POST-DOCTORAL FELLOWS TRAINED:**

* 1. Leslie Tarantino, M.D.
  2. John A. Towbin, M.D.
  3. Michael F. Hehmann, M.D.
  4. Elizabeth Gerard, M.D.
  5. Franklin Lum, M.D.
  6. Sheri Friedman, M.D.
  7. Archana Shrestha, M.D.
  8. Laura Strom, M.D.
  9. Edward Maa, M.D.

2007-2008 Chantal O’Brien, M.D.

2008 - 2010 Kirsten Nielsen, M.D.

2010 - 2011 Charles Livsey, M.D.

2011- 2012 Katherine Polovitz, M.D.

2012 – 2013 Danielle McDermott, M.D.

2013 – 2014 Kimberly Horiuchi, M.D.

2015 – 2016 Laura Friedlander, M.D.

2016 – 2017 Natasha Sparrow, D.O. and Dina Galperin, M.D.

2017 – 2018 Samuel DeStefano, M.D. and Thomas Bullock, M.D

2018 – 2019 Murtaza Khan, M.D

**BIBLIOGRAPHY**

**PEER REVIEWED MANUSCRIPTS:**

1. **Spitz, M.C.**, Jankovic, J., Killian, J.M.: Familial tic disorder, parkinsonism, motor neuron disease, and acanthocytosis: A new syndrome. Neurology, 35:366-371, 1985.
2. **Spitz, M.C.** Emerson, R.G., Pedley, T.A.: Dissociation of the frontal N100 from the occipital P100 in pattern reversal VEPs. EEG and Clinical Neurophysiology, 65:161-168, 1986.
3. Rosenberg, N.L., **Spitz, M.C.**, et al: Central nervous system effects of chronic toluene abuse-clinical brainstem evoked response and magnetic resonance imaging studies. Neurotoxicology and Teratology, 10:489-495, 1988.
4. Ramsay, R.E., Wilder, B.J., Pellock, J.M., Dreifuss, F.E., Mattson, R.H., Smith, D.B., Penry, J.K., Sunder, T.R., Ahmann, P.A., **Spitz, M.C.**, et al: Successful conversion from polytherapy to Depakote monotherapy in patients with primary generalized tonic-clonic seizures. Epilepsia 30:662-663, 1989.
5. Staley, K., Iragui, V., **Spitz, M.C**., The human fetal auditory evoked potential. EEG and Clinical Neurophysiology, 77:1-5, 1990.
6. **Spitz, M.C.**, Panic disorder in association with seizures: A diagnostic pitfall. Epilepsia, 31:33-38, 1991.
7. **Spitz,** **M.C**., Deasy, D.: Conversion to valproate monotherapy in non-retarded adults with primary generalized tonic-clonic seizures. Journal of Epilepsy, 4:33-38, 1991.
8. **Spitz, M.C.**: Severe burn injury as a result of seizures in patients with epilepsy. Epilepsia, 33:103-107, 1992.
9. **Spitz, M.C.,** Towbin, J.A., Shantz, D., Adler, L.E.: Risk factors for burns as a consequence of seizures in people with epilepsy. Epilepsia, 35:764-767, 1994.
10. Stears, J.C., **Spitz, M.C**.: The imaging of epilepsy. Seminars in Ultrasound, CT and MRI. 17:221-250, 1996.
11. **Spitz, M.C.,** Towbin, J.A., Honigman, B., Shantz, D.: Emergency seizure care in adults with known epilepsy. Journal of Epilepsy, 9:159-164, 1996.
12. Willmore, L.J., Shu, V., Wallin, B., and the M88-194 Study Group: Efficacy and safety of add-on divalproex sodium in the treatment of complex partial seizures. Neurology, 46:49-53, 1996.
13. Dudek, F.E., **Spitz, M.C**.: Hypothetical mechanisms for the cellular and neurophysiologic basis of secondary epileptogenesis. Journal of Clinical Neurophysiology, 14:90-101, 1997.
14. Gerard, M.E**., Spitz, M.C**., Towbin, J.A., Shantz, D.: Subacute postictal aggression. Neurology, 50:384-388, 1998.
15. **Spitz, M.C.**: Injuries and death as a consequence of seizures in people with epilepsy. Epilepsia, 39:904-907, 1998.
16. Rosenberg, A.A., **Spitz M.C.,** et al.: Biology of the Neonate. Effects of combined superoxide dismuntase and cataline on somatosensory evoked potentials and neuropathologic changes in asphyxiated newborn lambs. Biol. Neonate, 77:115-122, 2000.
17. **Spitz, M.C.**: Closed head injury resulting in paradoxical improvements of a seizure

disorder. Seizure, 9:142-144, 2000.

1. Karceski, S.,et al.:The Expert Consensus Guideline Series, The Treatment of Epilepsy. Epilepsy and Behavior, 2: A1-A50, 2001.
2. Smith, M.C., **Spitz, M.C.**: Treatment strategies in Landau-Kleffner syndrome and paraictal psychiatric and cognitive disturbances. Epilepsy & Behavior, 524-529, 2002.
3. Rowan, A.J., Ramsay, R.E., Collins, J.F., Pryor, F., Broadman, K.D., Uthman, B.M., **Spitz, M.C**., Fredrick, T., Towne, A., Carter, G.S., Marks, W., Felicetta, J., Tomyanovich, M.L., VA Cooperative Study 428 Group New onset geriatric epilepsy:a randomized study of gabapentin, lamotrigine, and carbamazepine. Neurology. 2005 June 14; 64(11):1869-73.
4. Karceski, S., Morrell, M.J., Carpenter, D. Treatment of epilepsy in adults: expert opinion, 2005 Epilepsy Behavior. 2005 Sep; 7 Suppl 1:S1-64; quiz S65-7.
5. Ramsay RE, Uthman B, Pryor F., Rowan AJ, Bainbridge J, **Spitz M**, Sirven JI, Frederick TE. Topiramate in older patients with partial-onset seizures: a pilot double-blind, dose-comparison study. Epilepsia. 2008 Jul; 49(7): 1180-5.
6. Ramsay, R.E., Rowan, A.J., **Spitz, M.C.,** et al: Double-blind study of Topiramate (TPM)

Monotherapy in Older Patients with Partial Onset Seizures. Epilepsia, 49(7):1180-5, 2008.

1. Glauser, T.A., Sandar, R. Core Elements of epilepsy diagnosis and management: expert consensus from the Leadership in Epilepsy, Advocacy, and Development (LEAD) faculty. Current Medical Research & Opinion. 2008 Dec; 24(12):3463-77.
2. Frey, L.C., Strom, L.A., Shrestha, A, **Spitz, M.C.**: End-of-dose emergent psychopathology in ambulatory patients with epilepsy on stable-dose lamotrigine monotherapy: A case series of six patients. Epilepsy and Behavior Volume 15 Issue 4 August 2009, pp. 521-523.
3. **Spitz, M.C.**, Winston K.R., Maa, E.H., Ojemann, S.G., Insulation discontinuity in a vagus nerve stimulator lead: a treatable cause of intolerable stimulation-related symptoms. Journal of Neurosurgery. 2009 Jun 26
4. Bateman LM, **Spitz M**, Seyal M. Ictal hypoventilation contributes to cardiac arrhythmia and SUDEP: Report on two deaths in video-EEG-monitored patients. Epilepsia. 2010 Feb 3:916-920
5. Sankar R, Glauser TA., Bainbridge, J., Bebin, M., Benbadis, S.R., Ramsay R.U., Faught, E., Gruenthal, M., Holmes, G.L., Husain, A.M., Labiner, D.M., Montouris, G. Naritoku, D.K., Olson, B.J., Pellock, J.L. Penovich, P.E., Richards, K.C., Rho, J.M., Rosenfeld, W.E., Slater, J.D., Smith, M.C., **Spitz, M.C.,** Stern, J.M., Vossler, D., Wheless,J.W., Understanding therapeutic equivalence in epilepsy. CNS Spectr. 2010 Feb;15(2):112-23
6. Wortzel, H. S., Strom, L. A., Anderson, A. C., Maa, E. H. and **Spitz, M**. (2012), Disrobing Associated with Epileptic Seizures and Forensic Implications. Journal of Forensic Sciences, 57: 550–552. doi: 10.1111/j.1556-4029.2011.01995.x
7. Ryvlin, P., Nashef, L., Lhatoo, S.D., Bateman,L.M., Bird, J., Bleasel,A., Boon, P., Crespel, A., Dworetzky,B.A.,Høgenhaven, H., Lerche, H., Maillard, L., Malter,M.P., Marchal, C., Murthy, J.M.K., Nitsche, M., Pataraia, E., Rabben, T., Rheims, S., Sadzot,B., Schulze-Bonhage, A., Seyal, M., So, E.L., **Spitz, M**., Szucs, A., Tan, M., Tao, J.X., Tomson, T., Monitored Sudden Unexpected Deaths and Near-Miss in Epilepsy. Lancet Neurology, 12.10 (2013): 966-977
8. Lampe E, Forster J, Herbst E, **Spitz M**, Frey L., Pre-admission clinical factors affect length of stay in the epilepsy monitoring unit. Neurodiagn J. 2014 Jun;54(2):138-47.
9. Harden, C., Tomson, T., Gloss, D., Buchhalter, J., Cross, H., Donner, E., French, J.,

Gil-Nagel, A., Hesdorffer, D., Ryvlin, P., Smithson, W.H., **Spitz, M**., Walczak, T., Evidence-based guideline: Sudden unexpected death in epilepsy (SUDEP) incidence rates and risk factors Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology, Neurology April 25, 2017 vol. 88 no. 17 1674-1680, doi: <http:/​/​dx.​doi.​org/​10.​1212/​WNL.​0000000000003685>

1. Williams, Christopher, et al. "Characterization of Baseline EEG Abnormalities the Brain Injury and Mechanisms of Action of Hyperbaric Oxygen (HBO2) for Persistent Post-Concussive Symptoms after Mild Traumatic Brain Injury (mTBI) Study (BIMA)(P7. 167)." *Undersea and Hyperbaric Medicine,* 2016, Vol. 43, No. 5, P 521- 530

**35.** Lewine JD, Plis S, Ulloa A, Williams C, **Spitz M**, Foley J, et al. Quantitative EEG Biomarkers for Mild Traumatic Brain Injury. J Clin Neurophysiol. 2019.

**ABSTRACTS:**

1. Patel, S.C., **Spitz, M.C.,** Barranter, J.A.: Partial sphingomyelinase deficiency in the syndrome of photomyoclonus, dementia, lipomas and ataxia. Neurology, 34(S1): 196, 1984.
2. **Spitz, M.C.**, Jankovic, J., Killian, J.M.: Familial tourettisms, parkinsonism and distal muscular atrophy: A new syndrome. Neurology, 34(S1): 271-272, 1984.
3. **Spitz, M.C.,** Emerson, R.G., Pedley, T.A.: A comparison of median and posterior tibial somatosensory evoked potentials in patients with multiple sclerosis. EEG and Clinical Neurophysiology, 64:31P, 1986.
4. Ramsay, R.E., Wilder, B.J., Mattson, R.H., Dreifuss, F.E., Pellock, J.M., Smith, D.B., Ahmann, P.A., **Spitz, M.C.,** et al: Successful valproate monotherapy in patients with tonic-clonic seizures. Neurology, 38(S1):104, 1988.
5. Rosenberg, N.L., **Spitz, M.C**., Filley, C.M., Schaumberg, H.H.: Central nervous system effects of chronic toluene inhalation: Clinical, brainstem evoked response, and MRI studies. Neurology, 38(S1):113, 1988.
6. Staley, K.J., Iragui, V., Key, T., Coen, R., **Spitz, M.C.,** Goodlin, R.: Non-invasive evaluation of the fetal CNS during labor. Neurology, 38(S1):303, 1988.
7. **Spitz, M.C.,** Towbin, J.A.: The efficacy, safety, and pharmacology of chronic valproate therapy. Epilepsia, 31:601, 1990.
8. **Spitz, M.C.,** Towbin, J.A., Shantz, D.: Risk factors for burns in patients with epilepsy. Epilepsia, 33(S3):52, 1991.
9. **Spitz, M.C.,** Towbin, J.A., Shantz, D., Fugate, T.: Emergency care for seizures in patients with epilepsy. Epilepsia, 33(S3):126, 1992.
10. **Spitz, M.C**., Towbin, J.A., Cohen, J., Earnest, M., Seigel, J.: Driving and Seizures: A survey of opinions from Colorado neurologists. Epilepsia, 34(S6):7-8, 1993.
11. **Spitz, M.C.,** Towbin, J.A., Hehmann, M., Shantz, D., Intractable temporal love epilepsy in remission following a closed head injury. Epilepsia, 34(S6):133, 1993.
12. **Spitz, M.C.,** Towbin, J.A., Shantz, D., Felbamate: Initial experience in adults with epilepsy. Epilepsia, 35(S8):95, 1994.
13. Towbin, J., Hauser, J. **Spitz, M.C.**, Messner, T.: Subacute post-operative temporal lobectomy syndrome (SPOTS). Epilepsia, 35(S8):154, 1994.
14. Shantz, D., Towbin, J.A., **Spitz, M.C.**: Changes in mood and affect in patients on gabapentin. Epilepsia, 36(S4):73, 1995.
15. Gerard, M.E., **Spitz, M.C**., Shantz, D., Towbin, J.A.: Postictal aggression. Epilepsia, 37(S5):20, 1996.
16. Towbin, J.A., **Spitz, M.C**., Bainbridge, J.L., Shantz, D., The use of felbamate, gabapentin and lamotrigine on patients with well controlled epilepsy but experiencing adverse effects on established anti-seizure medicines. Epilepsia, 37(S5):156, 1996.
17. **Spitz, M.C.**, Towbin, J.A., Bainbridge, J.L., Shantz, D.: Factors related to excellent outcome in patients with “intractable epilepsy” following treatment with felbamate, gabapentin and lamotrigine. Epilepsia, 37(S5):160, 1996.
18. **Spitz, M.C.,** Clover, T., Shantz, D., Bainbridge, J.: Profuse sweating as an ictal phenomenon. Epilepsia, 38(S8):54, 1997.
19. Bainbridge, J., Fish, D.N., Shantz, D**., Spitz, M.C.:** Quality of life in epilepsy at the University of Colorado Health Sciences Center. Epilepsia, 38(S8): 182, 1997.
20. Rowan, A.J., Ramsay, R.E., Collins, J.F., Smith, B., DVA CS 428 Study Group: Treatment of seizures in the elderly population: A new DVA cooperative study. Epilepsia, 38(S8): 89, 1997.
21. **Spitz, M.C**., Perlman, J., Cavazos, J.E.: The prevalence of violence in association with epileptic seizures. Epilepsia, 39(S6):236, 1998.
22. Yee, A.S**., Spitz, M.C.,** Shantz, D., Kelly, J.P., Filley, C.M.: Post-ictal mania. Epilepsia, 39(S6): 241, 1998.
23. **Spitz, M.C.,** Nay, L. B., Wilson, B. The accuracy of EEG’s performed in the community. Electroenceph and Clin. Neurophys. 107:139, 1998.
24. Pryor, F.M., Ramsay, R.E., Rowan, A.J., Collins, J.F., DVA CSP 428 Study Group: Treatment of seizures in the elderly: Demographics, diagnosis, & retention. Epilepsia, 40(S7): 106, 1999.
25. **Spitz, M.C.**: Concurrent alpha and spindle coma. Clin. Neurophys, 110: 2380, 1999.
26. Lehnhoff, L.L., **Spitz, M.C.,** Cavasos, J.E.: The Incidence of aphasic epilepsy in a tertiary care setting. Epilepsia, 40(S7): 109-110, 1999.
27. **Spitz, M.C.,** Nay, L.B., Wilson, M.C.: Reliability of Community Performed EEGs in patients with possible Seizures. Epilepsia, 40(S7): 174-175, 1999.
28. Oderberg, A.D., Shantz, D., **Spitz, M.C**.: Behavioral changes as a prodrome in epilepsy. Epilepsia, 40(S7): 220, 1999.
29. Bainbridge, J.L., Lum, F.T., **Spitz, M.C.**: Management of anti-epileptic drugs in solid organ transplant patients. Epilepsia, 40(S7): 228, 1999.
30. Pollack, S.D., **Spitz, M.C.,** Bainbridge, J.L.: Catamenial Patterns in a population of women with refractory epilepsy. Epilepsia, 41(S7): 200, 2000.
31. Frey, L.C., **Spitz, M.C**.: Clinical recovery patterns in prolonged post-ictal aphasia, Epilepsia, 41(S7): 104, 2000.
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12. **Spitz, M.C.**, Anderson, C.A., Wortzel, H.S., Maa, E.H., Strom, L.A.: Disrobing in Epilepsy. American Epilepsy Society Abstract 1.040. (2007)
13. McDermott, D., Maa, E.H., Doherty M.J., **Spitz, M.C**.: Barometric Pressure And Seizure Frequency In An Epilepsy Monitoring Unit. American Epilepsy Society Abstract 1.041 (2007)
14. O’Brien, C., Maa, E.H., Bainbridge, J., Neumann, R, **Spitz, M.C**.: Unpredictable Gastrointestinal Absorption Of Oral Levetiracetam In A Critically Ill Patient Population. American Epilepsy Society Abstract 3.179 (2007)
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16. Edward Maa, J. Bainbridge, K. Ehrenreich-Piot and **M. Spitz**: Safety and Efficacy of Intravenous Levetiracetam in Subarachnoid Hemorrhage. American Epilepsy Society Abstract 3.23 (2008)
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21. C. Livsey, L. Frey, **M. Spitz**: Is it Peri-ictal Cough or Cough-related Syncope? American Epilepsy Society Abstract 3.182 (2011)
22. **M. C. Spitz,** D. Case, C. Livsey, M. Friedman, W. J. Jones: A Retrospective Analysis of 'Stroke Alerts' in the Hospital Setting to Assess Factors Predicting a Diagnosis of Seizure Versus Stroke. American Epilepsy Society Abstract 3.095 (2011)
23. J. Bainbridge, H. Cooper, M. Egeberg, **M. Spitz,** S. Benbadis, E. Maa: - A Multi-Center Retrospective Study of Lacosamide in the Elderly (? 60 years of age). American Epilepsy Society Abstract 1.292 (2011)
24. **M. C. Spitz**, M. Friedman, L. Frey, C. Drees, S. Pearson. - Forensic Implications of Ictal or Peri-ictal Grabbing Behaviors, American Epilepsy Society Abstract 3.093 (2012)
25. **Spitz M**, Drees C, Frey L, Fleming J, Bainbridge J, Pearson S, Shrestha A, Strom L. Pharmaco-adherence in patients with epilepsy and neurologic tumors. Abstract 2.171. American Epilepsy Society Annual Meeting. December 2013.
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27. McDermott D, Frey L, Faithe M, Bainbridge J, O’Brien C, Oh C, Pearson S, Shrestha A, Strom L, **Spitz M**, Drees C. Improving time to treatment and resolution of status epilepticus. Abstract 3.153. American Epilepsy Society Annual Meeting. December 2013.
28. Christopher Williams, **Mark Spitz**, John Foley, Lindell Weaver, Anne Lindblad, Michael Wierzbicki, Characterization of Baseline EEG Abnormalities the Brain Injury and Mechanisms of Action of Hyperbaric Oxygen (HBO2) for Persistent Post-Concussive Symptoms after Mild Traumatic Brain Injury (mTBI) Study (BIMA), Abstract P7-167, American Academy of Neurology Sports Concussion Conference. July 2014
29. Drees C, DeBello R, Frey L, Korb P, Shrestha A, Strom L, **Spitz M**, O’Brien C. Process improvement to reduce time to epilepsy surgery. Abstract 2.053. American Epilepsy Society Annual Meeting. December 2014.
30. **Spitz M**, Moreland S, Horiuchi K, Lervik K, Korb P, Drees C, DeBello R, Strom L, Frey L,Shrestha A, O’Brien C. Eyewitnesses of seizures are more accurate historians that the patients. Abstract 3.205. American Epilepsy Society Annual Meeting. December 2014.
31. Bainbridge J, Wong PS, **Spitz M,** Frey L, Drees C, O’Brien C, Strom L, Shrestha A, Sirven J, Benbadis S, Maa E, Chung S, Phillips B. Retrospective study of lacosamide in the elderly (≥60 years of age). Abstract 3.304. American Epilepsy Society Annual Meeting. December 2014.
32. Christopher Williams, **Mark Spitz**, John Foley, Lindell Weaver, Anne Lindblad, Michael Wierzbicki, Characterization of Baseline EEG Abnormalities the Brain Injury and Mechanisms of Action of Hyperbaric Oxygen (HBO2) for Persistent Post-Concussive Symptoms after Mild Traumatic Brain Injury (mTBI) Study (BIMA), Abstract P7-167. American Academy of Neurology Annual Meeting. April 2015
33. Bainbridge J, Wong P-S, **Spitz M**, Frey L, Shrestha A, Strom L, Benbadis S, Sriven J, Chung SS. Retrospective study of lacosamide in the elderly (>= 60 years of age). Abstract 3.073. American Epilepsy Society Annual Meeting. December 2015
34. Mark Lehmkuhle, Michael Elwood, Jean Wheeler, John Fisher, F. Edward Dudek, Development of a discrete, wearable, EEG device for counting seizures. Abstract 2.158. American Epilepsy Society Annual Meeting. December 2015
35. C. O'Brien, **M. Spitz**, L. Frey, J. Schofield, C. Kenny, L. Strom, A. Shrestha, C. Drees, M. Brown, P. Korb, Diagnostic Usefulness of Tilt Table Testing with Concomitant Video EEG Monitoring in Select Patients with Intractable Loss of Consciousness Events, Abstract 3.116. American Epilepsy Society Annual Meeting. December 2016
36. C. Drees, M. Brown, S. Sillau, R. DeBello, L. Frey, P. Korb, A. Shrestha, L. Strom, **M. Spitz**, C. O'Brien, S. Ojemann, A. Abosch, Process Improvement to Decrease Time to Epilepsy Surgery and Increase Number of Surgeries, Abstract 2.308. American Epilepsy Society Annual Meeting. December 2016
37. M. Lehmkuhle, M. Elwood, J. Wheeler, J. Fisher, F. Dudek, K. Lervik, L. Frey, A. Shrestha, C. Drees, M. Brown, P. Korb, **M. Spitz**, The EEG Patch: An Update on Feasibility as a Discrete, Wearable, EEG Device for Counting Seizures Abstract 2.006. American Epilepsy Society Annual Meeting. December 2016
38. D. McDermott, S. DeStefano, S. Sillau, R. Pierce, C. Baca, C. Drees, **M. Spits**, M. Brown; What is a Fill Time Academic Epileptologist? Results of a National Survey in the United States. American Epilepsy Society Annual Meeting. In Press, December 2019

**INVITED PUBLICATIONS, CHAPTERS, AND EDUCATIONAL VIDEOS:**

1. Shantz, D., **Spitz, M.C.:** The care of patients who also happen to have epilepsy. Nursing 93: 34-40, Nov. 1993.
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3. Sachedeo, R.C., Duchovny, M., Hartmann, A.W., Lieberman, J.A., Montouris, G.D., O’Neil, B., **Spitz, M.C.,** Watson, C., Young, W.F.: Evaluation and management of seizures in the emergency department. Bioscientific Resources, Inc. Woodcliff Lake, N.J., 1998.
4. Dudek, F.E., Bowman, J., **Spitz, M.C.:** Epilepsy In Encyclopedia of Life Sciences. Stockton Press, London, 2000.
5. Lum, F., Cavazos, J.E., **Spitz, M.C**.: Juvenile myoclonus in Textbook of Neurology. E-medicine, 2000.
6. Anderson, C.A., **Spitz, M.C.**: New Medications for Epilepsy. Hospital Physician, 36: 55-61, 2000.
7. **Spitz, M.C.,** Lum, F.: Status epilepticus in Textbook of Neurology. E-medicine, 2000.
8. Cavazos, J.E., Lum, F**., Spitz, M.C.:** Seizures and epilepsy, overview and classification in Textbook of Neurology. E-medicine, 2000.
9. Anderson, C.A., **Spitz, M.C.**: New Medications for Epilepsy. Hospital Physician, 36: 55-61, 2000
10. **Spitz, M.C.:** Accidental Death and Injuries in Epilepsy. Epilepsy.com, 2002.
11. **Spitz, M.C.:** Top 10 Misconceptions about Epilepsy. Epilepsy.com, 2004.
12. **Spitz, M.C.:** Epilepsy in the Elderly. Epilepsy.com, 2004.
13. **Spitz, M.C.**; Epilepsy in the Elderly (educational video), Medcentrus.com, 2004.
14. **Spitz, M.C.**; Special Considerations in the treatment of Geriatric Epilepsy (educational video). CME Discovery.com, 2004
15. Cavazos, J.E., Lum, F**., Spitz, M.C.**, Maa, E.**:** Seizures and epilepsy, overview and classification in Textbook of Neurology. E-medicine, 2005.
16. **Spitz, M.C.,** Lum, F., Maa, E.: Status epilepticus in Textbook of Neurology. E-medicine, 2005, 2006.
17. **Spitz, M.C.,** Burt, V.K.: Depression, Anxiety and Cognitive Dysfunction in Women with Epilepsy. The Female Patient, pp.19-24, April 2007.
18. **Spitz, M.C.**: Profile of a Patient with Epilepsy. Primary Neuro News, Fall 2006
19. Cavazos, JE, **Spitz M**. Seizures and Epilepsy: Overview and Classification. eMedicine from WebMD. Updated November18, 2009. Available at:

http://www.emedicine.com/neuro/topic415.htm

1. Cavasos, JE, **Spitz, M**.: Epilepsy, Juvenile Myoclonis. eMedicine from WebMD. Updated November 18, 2009.
2. **Spitz, M.C.**, Dudek, F.E.; Epilepsy. Encyclopedia of Life Sciences. John Wiley & Sons, Ltd: Chichester. London, December 2009, <http://www.els.net/>
3. **Spitz MC**, Strom LA. , Diagnostic and localizing intracranial EEG features of epileptic seizures, In: Epilepsy and intensive care monitoring: principles and practice. Bruce Fisch, MD, ed., Demos Medical Pub.; 2010.
4. Frey LC, **Spitz MC**. Physiologic Basis of EEG Generation of Electrical Activity of the Cerebral Cortex. In: Arciniegas D, Anderson A, Filley C, Eds. Behavioral Neurology and Neuropsychiatry. 2013.
5. Maa EM, Earnest MP, **Spitz MC**, Bainbridge J., Severity of Seizures as a Forensic Risk and Case Reports. In: Sudden Death in Epilepsy: Forensic and Clinical Issues. Editors: Lathers CM, Schraeder PL, Bungo MW, and Leestma JE. (pp. 209-220). Boca Raton: CRC Press Taylor & Francis Group. 2011
6. Maa, E. H., Kahle, K. T., Walcott, B. P., **Spitz, M. C.** and Staley, K. J. (2011), Diuretics and epilepsy: Will the past and present meet?. Epilepsia, 52: 1559–1569. doi: 10.1111/j.1528-1167.2011.03203.x
7. Frey Lauren C, **Spitz Mark C**. Physiologic Basis of EEG Generation of Electrical Activity of the Cerebral Cortex. In: David B. Arciniegas, C. Alan Anderson, Christopher M. Filley, eds. Behavioral Neurology and Neuropsychiatry. Cambridge University Press; 2013:422-458.
8. **Spitz Mark C**., Bainbridge, Jacquelyn L, Wong, Pei-Shieen, Phenobarbital and Primidone. In: Wyllie E. Wyllie's treatment of epilepsy: principles and practice: Wolters Kluwer Health; 2015: 682-690.
9. **Spitz Mark C**., Optimal Diagnosis and Management of Refractory Partial-Onset Seizures. Practicing Clinicians Exchange, January 16, 2015. Online CME Program
10. **Spitz Mark C**., Maa, E., Vagal Nerve Stimulation for the treatment of Intractable Epilepsy, August 11, 2017, National Webinar for VA Epilepsy Care
11. **Spitz Mark C**., Bainbridge, Jacquelyn L, Wong, Pei-Shieen, Phenobarbital and Primidone. In: Wyllie E. Wyllie's treatment of epilepsy: principles and practice: Wolters Kluwer Health. In Press

**INVITED TALKS**

**1.** Marijuana and Epilepsy**.** American Epilepsy Society National Meeting, San Diego, CA 12/2006.

**2.** Marijuana and Epilepsy. Epilepsy Foundation of Colorado Annual Educational Symposium, Denver, CO 11/2006.

**3.** Injuries as a Resultof Epilepsy. Epilepsy Foundation Annual Education Supper, Denver, CO 11/2007.

**4.** Practical Vignettes in Epilepsy. Lecture Saint Joseph’s Hospital, Denver Colorado.

**5.** Status Epilepticus: Emergency Neurology Lecture series. University of Colorado Hospital, Aurora, Colorado 7/2008.

**6.** Injuries as a Result of Epileptic Seizures. University of Colorado Hospital Grand Rounds, Aurora, Colorado 8/2008.

**7.** Injuries as a Result of Epilepsy. Neurology Grand Rounds, University of Arizona, Tucson, Arizona 1/2009.

**8.** Epilepsy in the Elderly. Grand Rounds, Cleveland Clinic, Weston, Florida 10/2009

**9.** Clinical Cases in Epilepsy. The Big Easy Neurosciences Symposium, New Orleans, Louisiana 6/2010

**10.** Management of Seizures and Epilepsy in Adults. Rocky Mountain Hospital Medicine Symposium, Denver, Colorado 10/2010

**11**. Instructive Cases in Epilepsy, Neurology Resident Lecture, 10/2010

**12.** Clinical Cases in Epilepsy, Department of Neurology Grand Rounds 12/2010

**13.** Clinical Cases in Epilepsy, Neurology Conference for St. Joseph’s Hospital Medicine House staff, 12/2010

**14.** Epilepsy: Treatment Advances, Colorado Epilepsy Foundation, Patient Support Group, 2/2011

**15.** Antiepileptic Drugs, Neurology Resident Lecture, 2/2011

**16.** Psychogenic Non-epileptic Seizures, UCSOM Behavioral Neurology & Neuropsychiatry Conference, 4/2011

**17.** Psychogenic Non-epileptic Seizures, Department of Neurology Grand Rounds 01/2012

**18.** Clinical & EEG Classification, Core Curriculum Series, Neurology Residency Training Program, UCD 10/2012

**19.** Psychogenic Non-epileptic Seizures, Grand Rounds, Fort Carson Evans Army Hospital 02/2013

**20**. Psychogenic Non-epileptic Seizures, Neuropsychiatry Seminar Series, UCD 03/2013

**21.** Neurostimulation in the Treatment of Epilepsy, Covenant’s Continuing Medical Education Program, Lubbock TX, 08/2013

**22.** Treatment Options for Intractable Temporal Lobe Epilepsy. Department of Neurology Grand Rounds, 08/2013

**23.** Prognosis and Evaluation of Psychogenic Nonepileptic Seizures. 61st Family Medicine Review, 06/2014

**24.** Neuro-Stimulation in the Treatment in Epilepsy. Epilepsy and Stroke 2014 CME Event 10/2014

**25.** Prognosis and Evaluation of Psychogenic Nonepileptic Seizures. Family Medicine Group Talk, 11/2014

**26.** Prognosis and Evaluation of Psychogenic Nonepileptic Seizures. Neuropsychology Seminar University of Colorado, 12/2015

**27.** Overcoming Barriers to Ensure Safety in the Epilepsy Monitoring Unit, NAEC Webinar, 6/2016

**28.** Overcoming Barriers to Ensure Safety in the Epilepsy Monitoring Unit, American Epilepsy Society Annual Meeting 12/2016

1. A woman with substance abuse and epilepsy, Department of Neurology Grand Rounds, 11/29/2017
2. Seizure Semiology, Epilepsy Fellowship Weekly Lecture, 3/12/2018
3. Classification and Treatment of Partial Epilepsies, Epilepsy Fellowship Weekly Lecture, 3/18/2019
4. Ask an Epileptologist: your Burning Questions Answered: Department of Neurology Grand Rounds 3/20/2019
5. Forensic Epilepsy Cases, Epilepsy Fellowship Weekly Lecture, 2/3/2020