

# **Michael R. Sperling, MD**

Department of Neurology

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## **Education**

1970-74 B.A.

Biochemistry, magna cum laude

Temple University

Philadelphia, PA

1974-78 M.D.

Temple University School of Medicine

Philadelphia, PA

Internship:

1978-79 Internal Medicine Mount Sinai Hospital, New York, NY

Residency:

1979-82 Neurology, Mount Sinai Hospital, New York, NY

Fellowship:

1982-84 Epilepsy and Clinical Neurophysiology, UCLA School of Medicine, Los Angeles, CA

## **Licensure**

New York 140938

California G47167

Pennsylvania MD 034277E

## **Board Certification**

- 1979 National Board of Medical Examiners
- 1984 American Board of Psychiatry and Neurology, (Neurology)
- 1984 American Board of Clinical Neurophysiology (formerly American Board of Qualification in EEG)
- 1999 American Board of Psychiatry and Neurology, (subspecialty certification in Clinical Neurophysiology)

## **Academic Honors and Awards**

Honors in Chemistry, Temple University

President's Scholar, Temple University

1984 - 85 Merritt-Putnam Fellowship

1985 - 86 Merritt-Putnam Fellowship

1992 Founders Award, Epilepsy Foundation of Southeastern Pennsylvania

## **Appointments**

1982 - 85 Adjunct Assistant Professor of Neurology, UCLA School of Medicine

1985 Assistant Professor of Neurology in Residence, UCLA School of Medicine

1985 - 91 Assistant Professor of Neurology, University of Pennsylvania School of Medicine

1991 - 1995 Associate Professor of Neurology, University of Pennsylvania School of Medicine

1996 - 1997 Adjunct Associate Professor of Neurology, University of Pennsylvania School of Medicine

1995 - 1996 Clinical Associate Professor of Neurology, Temple University School of Medicine

1996 - 1997 Clinical Professor of Neurology, Temple University School of Medicine

1997 - present Baldwin Keyes Professor of Neurology, Jefferson Medical College

1997 - present Vice Chairman for Research, Department of Neurology, Jefferson Medical College, Jefferson Medical College

1985 Director, UCLA Seizure Clinic, Los Angeles, CA

1985 - 1997 Director, Neurophysiology Laboratory, Graduate Hospital, Philadelphia, PA

1985 - 1995 Chief, Medical/Surgical Program, Comprehensive Epilepsy Center, Graduate Hospital, Philadelphia, PA

1985 - 1997 Director, Epilepsy Monitoring Unit, Graduate Hospital, Philadelphia, PA

1995- 1997 Director, Comprehensive Epilepsy Center, Graduate Hospital, Philadelphia, PA

1997 - present Director, Jefferson Comprehensive Epilepsy Center, Thomas Jefferson University Hospital, Philadelphia, PA

1997 – present Director, Clinical Neurophysiology Laboratory, Thomas Jefferson University Hospital, Philadelphia, PA

1997 – present Director, Clinical Neurophysiology Laboratory Wills Eye Hospital, Philadelphia, PA

2000- present Director, Clinical Neurophysiology fellowship, Thomas Jefferson University Hospital, Philadelphia, PA

### **Professional Activities**

Society Presidency

1999-2000 American Clinical Neurophysiology Society

Educational

Director of EEG Fellowship Program in Epilepsy and Clinical Neurophysiology, Graduate Hospital, Philadelphia, PA (1986 - 1997), Thomas Jefferson University Hospital (1997 - )

1986-88 Peter Bridgman, M.D.

1987-89 Catherine Phillips, M.D.

1988-90 Martha Morrell, M.D.

1989-91 William Tatum, D.O.

1990-92 Robert Burgerman, M.D.

1991-93 Mercedes Jacobson, M.D.

1992-94 Joyce Liporace, M.D.

1993-94 Leonard Weinberger, M.D.

1994-96 Joseph Sirven, M.D.

1996-97 Gabriel Bucurescu, M.D.

1997-99 Maromi Nei, M.D.

1997-98 Marco Castro, M.D.

1998-20 Melissa Carran, M.D.  
1999-20 Eric Goldberg, M.D.  
1999-20 Kelly Geary, D.O.  
2000-02 Sigmund Jenssen, M.D.  
2000-01 Allen Tyler, M.D.  
2000-01 Shidong Su, M.D.  
2000-01 Xiaoping Ma, M.D.  
2001-03 Maria Lourdes Guina, M.D.  
2001-02 Diane Lee, M.D.

Supervise and aid in development of resident and student research projects

Roger Bertoldi, M.D. Brainstem abscess

Martha Morrell, M.D. Speech during seizures

Mark Epstein, M.D. Cardiac changes during seizures

Brian Kester, M.S. Musical processing in epilepsy

Paul Stafiniak, M.S. Naming after epilepsy surgery

Edward Manno, M.D. Positron emission tomography in epilepsy surgery

Daniel Laskowitz, M.D. Frontal lobe epilepsy

Joseph King, M.D. Analysis of cost-effectiveness of epilepsy surgery

Ellen Shaver, M.D. Relationship of early risk to hippocampal cell density in temporal lobe epilepsy

Jin-Moo Lee, M.D. Comparison of complex partial and generalized status epilepticus

Maromi Nei, M.D. EEG in status epilepticus

Stefani Raaf, M.D. Propagation routes of temporal lobe seizures

James Hummel, B.A. Anatomic pathways subserving blinking in occipital seizures

Dennis Dlugos, M.D. Anatomic correlates of subcortical hypometabolism in temporal lobe epilepsy

Melissa Carran, M.D. Marital status and epilepsy surgery

Eric Goldberg, M.D. Results of corpus callosotomy

Benjamin Metzger, B.A. Economic evaluation of epilepsy surgery on income

Richard Cho, B.A. Quality of life in epilepsy

Sigmund Jenssen, M.D. Surgical outcome in bitemporal epilepsy

Allen Tyler, M.D. Employment effects of epilepsy surgery

Sigmund Jenssen, M.D. Corpus callosotomy for uncontrolled idiopathic generalized epilepsy

Xiaoping Ma, M.D. Surgical treatment of status epilepticus

Valerie Johnson, B.A. Quality of life in epilepsy

Michael Platt, B.A. Cost utility analysis of epilepsy surgery

Sigmund Jenssen, M.D. Sleep disturbances in epilepsy

Yr Sigurdudottir, M.D. Factors related to late seizure recurrence after epilepsy surgery

David Houghton, B.A. Multivariable survival analysis of outcome after temporal lobectomy

Debbie Lin, B.A. Relationship of auras to seizure localization, lateralization, and outcome after epilepsy surgery

Andro Zangaladze, M.D. Subclinical seizures

Bradley Klein, B.A. Cost effectiveness analysis of change in antiepileptic drug treatment

1986–1997 University of Pennsylvania Neurology 100 Seminar Instructor

1998-present Jefferson Medical College Freshman Neuroscience Lecture

1998 – present Jefferson Medical College Sophomore Epilepsy Pathophysiology lecture

2000- present Jefferson Medical College Senior Pharmacology lecture

Supervise Thomas Jefferson University student senior Neurology rotation, 12 months per year, lectures on epilepsy

Lecture to sophomore medical students during neuroscience course, 1 per year

Weekly clinical neurophysiology conference

Supervise elective in EEG, evoked potentials, and epilepsy for Neurology Housestaff from Thomas Jefferson University, Temple University, and Childrens Hospital

Direct EEG and Monitoring Conference, 1 hour per week

Direct Epilepsy Conference, 1.5 hours per week

### **Membership on Ph.D Committees and Student Supervision**

University of Pennsylvania  
1986-1990 Jingsheng Zheng, Ph.D.  
1990-1994 Jay Shils, Ph.D.

Drexel University  
1990-1994 Gayle Deutsch, Ph.D.

### **Clinical Activities**

Developed epilepsy program at the Graduate Hospital, including design and development of the epilepsy monitoring unit and EEG laboratory, epilepsy surgical program (with Dr. Michael O'Connor), contributing to development of experimental antiepileptic drug program, and clinical research program.

Developed the Comprehensive Epilepsy Center at Thomas Jefferson University, including designing and developing the epilepsy monitoring unit and EEG laboratory, epilepsy surgical program (with Dr. Michael O'Connor), experimental antiepileptic drug program, and clinical research program.

Attending Rounds at Thomas Jefferson Hospital 1-2 months per year (ward/consult)

EEG reading, Thomas Jefferson Hospital – 1-2 days per week

Attending on Epilepsy Monitoring Unit, Jefferson Hospital 12 months per year

Outpatient Clinic, Jefferson Hospital, 3 half days per week.

Developed intraoperative brain mapping program for epilepsy surgery and brain tumor surgery (with Dr. David Andrews) at Thomas Jefferson University Hospital

## **Research**

### Grant Support

Multicenter Study of Epilepsy Surgery: (NIH) Study PI: Susan Spencer, Yale University, M. Sperling, site PI at Jefferson. 2001-2006.

Genetic Influences on Human Epilepsy. (NIH) Study PI: Russell Buono. M Sperling, site PI at Jefferson. 2001-2006,

Progesterone Therapy for Women with Epilepsy. (NIH) Study PI: Andrew Herzog, PI). M. Sperling, co-investigator. 2000-2003.

Cost-Effectiveness Analysis of Surgery in Epilepsy. (NIH) Study PI: John Langfitt, University of Rochester. M Sperling, site PI at Jefferson. 1998-2002.

Effect of the ketogenic diet on brain metabolites. (NIH) Jullie Pan, PI, M. Sperling site PI at Jefferson 2001-2005.

Early Randomized Surgical Trial. (NIH) Study PI: Jerome Engel, Jr.. M. Sperling, site PI at Jefferson. 2002-2007.

Olfaction in Epilepsy (NIH) Study PI: Richard Doty, University of Pennsylvania, M. Sperling site PI at Jefferson 2001-2002.

Patient Outcome Registry/VNS. M. Sperling, PI (Cyberonics) 2001 – 2003.

Measurement of Neuropsychological Functioning in Epilepsy Patients Treated with Vagus Nerve Stimulation (VNS) Therapy. M. Carran, PI, M. Sperling site PI at Jefferson, Cyberonics. 2001-2003.

A double-open-label, multicenter, follow-up study to evaluate the safety and efficacy of Levetiracetam (LEV) (oral tablets of 166, 250, or 500 mg b.i.d.) at individualized doses up to a maximum of 4000 mg/day (or 80 mg/ke/day for children less than 50 kg), in children (> 4 years old), adolescents and adults suffering from primary generalized seizures. M. Sperling co-investigator, UCB Pharma. 2002-2003.

Open-Label, Multi-Center Randomized trial to Evaluate the Development of Components of Polycystic Ovary Syndrome in Female Subjects with Newly Diagnosed Epilepsy initiating Anti-Epileptic Drug Treatment on either Lamotrigine or Valproate Monotherapy. M. Sperling co-investigator, Glaxco-Wellcome, 2001 – 2003.

A multicenter, double-blind, randomized, placebo-controlled, parallel group trial

To investigate the efficacy and safety of SPM 927 (200 mg/day, 400 mg/day, 600 mg/day), as adjunctive therapy in subjects with partial seizures with or without secondary generalization. M. Sperling co-investigator, Schwarz Biosciences 2001-2003.

#### Previous Support

Subcortical Metabolic Alterations in Epilepsy, National Institutes of Health 1 R01 NS 26178; M. Sperling, Principal Investigator, 1989-93.

Investigation of Long term Neurobehavioral Changes after Temporal Lobectomy, National Institutes of Health 1 RO1 NS 28813; M. Sperling, Co-PI, 1991-95.

Principal Investigator: Brain Injury and Recovery in Epilepsy, National Institutes of Health, in Local Cerebral Glucose Metabolism in Man, M. Reivich, P.I. of Program Project, PO1 NS 14867; 1992-1997.

Open-Label Evaluation of Lamotrigine Versus Carbamazepine, Phenytoin, or Divalproex Sodium as Monotherapy Treatment for Epilepsy Patients Who Have Failed a Previous Course of Antiepileptic Drug Therapy. Glaxo-Wellcome, 1998

An Open-Label Pilot Comparison of Lamotrigine Versus Divalproex Sodium for the Treatment of Patients with Juvenile Myoclonic Epilepsy. Glaxo-Wellcome, 1998 -. Principal Investigator: Michael R. Sperling, M.D. Co-investigators: Joyce Liporace, Joseph Sirven, Leopold Streletz, Ramon Manon-Espaillet.

Open Label Follow-Up Long Term Felbamate Therapy in Adult Subjects with Epilepsy, Wallace Laboratories, 1989-92. M. Sperling, PI

A Multicenter Open-Label Long-Term Evaluation of the Safety of Felbamate in Subjects with Epilepsy, Wallace Laboratories. 1990-92. M. Sperling, PI

Safety and Efficacy of Three Dose Levels of Tiagabine HCl vs. Placebo as Adjunctive Treatment for Complex Partial Seizures, Abbott Laboratories, 1992. M. Sperling, PI

Knoll Pharmaceutical, Acute Stroke Protocol for Ancrod, 1993-96. M. Sperling, PI

Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter Study in Patients with Partial Seizures, Parke-Davis, 1998 - 1999. M. Sperling, PI

Open-Label Dose Titration Assessment of the Clinical Utility of a Slow, Low Dose Titration Schedule of Zonagrán in the Initiation of Therapy in Patient with Partial Seizures, Athena Neurosciences, 1999 - 2001. M. Sperling, PI

Endocrine Changes in Partial Epilepsy: Mandell Foundation, M. Sperling, Principal Investigator, 1986-88.

Multicenter, Placebo Controlled, Double-Blind Evaluation of Felbamate in Subjects with Lennox Gastaut Syndrome, Wallace Laboratories; M. Sperling, Principal Investigator, 1989-90.

Evaluation of the efficacy and safety of Eliprodil in patients with acute ischemic stroke, Lorex Pharmaceuticals, M. Sperling, Principal Investigator, 1995 - 96.

Topiramate Monotherapy Clinical Trial in Subjects with Recently Diagnosed Partial Onset Seizures, R.W. Johnson Pharmaceutical Research Institute, M. Sperling, Principal Investigator, 1996 - 97.

A Comparison, Dose Controlled, Ascending, Multiple Dose Safety and Tolerability Study of Remacimide Hydrochloride as an Adjunctive therapy in Refractory Patients with Epilepsy, M. Sperling, Principal Investigator, Astra-Merck, 1996 - 97.

Safety and Efficacy of Tiagabine HCL as Adjunctive Treatment, Abbott Laboratories, M. Sperling, Principal Investigator 1995-1998.

Topiramate in Primary Generalized Tonic-clonic Seizures, R.W. Johnson Pharmaceutical Research Institute, M. Sperling, Principal Investigator 1996 - 1998.

Safety and Efficacy of High versus Low Dose Oxcarbazepine Monotherapy in Patients with Inadequately Controlled Partial Onset Seizures, M. Sperling, Principal Investigator, Ciba-Geigy, 1996-2000.

Double-Blind Randomized Placebo-Controlled, Parallel Group Study of Vigabatrin in Patients with Uncontrolled Complex Partial Seizures, Merrell Dow Pharmaceuticals, 1990-92.

Conversion From Antiepileptic Drug Therapy to Gabapentin (CI-945) Monotherapy in Patients with Complex or Secondarily Generalized Seizures: A Double-Blind Dose-Controlled Multicenter Study, Parke-Davis. 1993-94.

Baseline Controlled Safety and Efficacy Evaluation of Zonisamide in the Treatment of Seizures in Medically Refractory Patients - Dainippon Pharmaceuticals, 1993-95.

Long-Term Safety and Efficacy Evaluation of Zonisamide in the Treatment of Seizures in Medically Refractory Patients and Efficacy Evaluation of Zonisamide Monotherapy - Dainippon Pharmaceuticals. 1993-95.

A Pilot Study of Topimax Topiramate in Children with Lennox-Gastaut Syndrome, R.W. Johnson, 1993-95.

A Double-Blind Trial of Topiramate in Subjects with Lennox-Gastaut Syndrome, R.W. Johnson, 1993-95.

Genetech Pharmaceutical, Acute Stroke Protocol for TPA, 1993-95.

Placebo controlled efficacy and safety evaluation of Zonisamide in the treatment of seizures in medically refractory patients, 1994-95.

A randomized placebo-controlled double-blind study of the efficacy and safety of Losigamone in patients with inadequately controlled partial seizures, 1994-95.

Pregabalin BID Open-Label Add-On Trial: An Open- Label, Multicenter Follow-On Study to Determine Long Term Safety and Efficacy in Patients With Partial Seizures, Parke-Davis, 1999 – 2001

### **Editorial Positions**

Journal of Epilepsy, Member, Editorial Board 1991-1999.

Epilepsy Advances, Member, Editorial Board 1993-95, 1996-1998.

Epilepsy Research, Member, Editorial Board, 1999-present.

Electroencephalography and Clinical Neurophysiology, Reviewer

Annals of Neurology, Reviewer

Neurology, Reviewer

Epilepsia, Reviewer

Journal of Clinical Neurophysiology, Reviewer

Neuroradiology, Reviewer

Journal of Neurological Sciences, Reviewer

Archives of Neurology, Reviewer

### **Conferences/Meetings**

1992 - Eastern Association of Electroencephalographers, Course Chairman, Status Epilepticus.

1994 - American EEG Society, Symposium Director, Long Term Memory

1993 - Epilepsy Foundation of Southeastern Pennsylvania, Community Conference

1994 - Epilepsy Foundation of Southeastern Pennsylvania, Community Conference

1995 - Regional Merritt Putman Symposium on Refractory Epilepsy, Philadelphia

1995 - Status Epilepticus Seminar at annual American Academy of Neurology Meeting

1996 - Regional Epilepsy Symposium in conjunction with Joseph Hulihan, M.D., Philadelphia

1996 - Graduate Hospital Community Epilepsy conference, Philadelphia

1996 - American Epilepsy Society Satellite Symposium, Controversies in Intractable Partial Epilepsy, San Francisco, CA

1997 - Graduate Hospital Ethics Symposium, Philadelphia

1997 - Jefferson Community Epilepsy conference, Philadelphia

1997 - American Clinical Neurophysiology Society Meeting, Beverly Hills, CA

1997 - Jefferson Epilepsy Symposium, Philadelphia

1998 - Danish Epilepsy Society, Aarhus, Denmark

1998 - Clinical Investigators Workshop at the American Epilepsy Society Meeting, San Diego, CA

1998 - Temporal Lobe Club at the American Epilepsy Society Meeting, San Diego, CA

1999 – Vagal Nerve Stimulation Symposium, community conference, Philadelphia, PA

1999 - Clinical Investigators workshop at the American Epilepsy Society Meeting, Orlando, FL

1999 – Participatory Roundtable at the American Epilepsy Society Meeting, Orlando, FL

2000 - 3rd Russian - American Epilepsy Symposium. Moscow, Russia.

2000 – American Clinical Neurophysiology Society Meeting, Montreal, Canada

2000 – Participatory Roundtable at the American Epilepsy Society Meeting, Los Angeles, CA

2000 – Functional Imaging symposium at American Epilepsy Society Meeting, Los Angeles, CA

2000 - Clinical Investigators workshop at the American Epilepsy Society Meeting, Los Angeles, CA

2001 - Jefferson Clinical Neurophysiology Course (with Bryan O'Neill, M.D.), Philadelphia, PA

2002 - Mesial Temporal Lobe Epilepsy Workshop, International League Against Epilepsy workshop, Istanbul, Turkey (organizing committee).

2002 - Jefferson Clinical Neurophysiology Course (with Bryan O'Neill, M.D.), Philadelphia, PA

### **Professional Organizations**

American Academy of Neurology, Fellow  
Scientific Program Committee 1996  
Epilepsy Surgery Task Force 1997-99

American Society for Neurological Investigation, 1983-87

Philadelphia Neurological Society  
First Vice President 2001-2002  
Second Vice President 2000-2001

American Epilepsy Society:  
Epilepsy Surgery Taskforce 1997-99  
Technology Task Force  
Membership Committee 1994-97, Chairman: 1995-97  
Scientific Program Committee 1996-97, 2000-2001  
Continuing Education Committee 1987-91  
Annual Course Committee, Chairman 1988-1991  
1988 - Epilepsy Surgery  
1989 - Epilepsy: Pediatric Update  
1990 - Endocrine and Reproductive Dysfunction in Epilepsy  
1991 - Status Epilepticus  
Scientific Program Committee, 1993,2000-02  
Clinical Investigators Workshop, Chairman: 1997-2000  
American Epilepsy Society Awards Committee: 1998- 2000

American EEG Society, Fellow:  
President 1999-2000  
Council Member 1993-2001  
Second Vice President 1997-98  
First Vice President 1998-99  
Member, Journal Oversight Committee, 2001-2003

Chairman, Public Relations Committee 1993-96  
Member, Fellowship Committee, 1993-97  
Symposium Director, Long Term Memory, September 21, 1994  
Chairman, Scientific Program Committee for 1997 Annual Meeting  
Member, Nominating Committee, 1997-99  
Member, Laboratory Accreditation Task Force, 1997-98

American Medical Association

Eastern Association of Electroencephalographers:

Member, Executive Committee 1990-1994

Course Chairman 1992 - Status Epilepticus

NIH SBIR Study Section (chair): August 1987, March 1988, November 1989,  
December 1994

Member of Diagnostic and Therapeutic Assessment (DATTA) Program for  
American Medical Association (1987-1996)

Status Epilepticus Committee, Epilepsy Foundation of America 1992-93

Epilepsy Foundation of Philadelphia:

Professional Advisory Board, Member, 1986 - present, Chairman 1990-1996

Board of Directors, 1990-present

Long Range Planning Committee, 1994-present

American Board of Psychiatry and Neurology, examiner: 1996, 1997

NIH Study Section chair, (special section) November 1996.

International League against Epilepsy

Committee member: Committee on Burden of Epilepsy

Committee member: Committee on Surgical Treatment

American Neurological Association - 2001

## **Committees**

University of Pennsylvania IRB, 1987-1991

University of Pennsylvania, Dermatology Department Review Committee, 1989-  
90

Thomas Jefferson University IRB, 1999 – present

Thomas Jefferson University Committee on Affiliations, 2001 - present

Graduate Hospital Critical Care Committee 1991 – 1997.

Graduate Hospital CNS Tumor Board, 1994 – 1997.

Graduate Hospital Stroke Path Committee, 1995 – 1997; Chairman

Graduate Hospital Bylaws Committee 1986-1988.

Graduate Health System Stroke Path Committee, 1995 – 1997.

Graduate Hospital Ethics Committee, 1996 – 1997.

Subcommittee Chair: Ethics Symposium 1997.

Jefferson Neurology Department Residency Review Committee

Jefferson Neurology Department Executive Faculty Committee

Jefferson Neurology Department Promotions Committee

## **Publications**

Bertoldi, R.V., Sperling, M.R. Nocardia brain stem abscess: diagnosis and response to medical therapy. *Bull. Clin. Neurosciences.* 49:99-104, 1984.

Sperling, M.R. Hypoglycemic activation of focal abnormalities in the EEG of patients considered for temporal lobectomy. *Electroenceph. Clin. Neurophysiol.* 58:506-512, 1984.

Sperling, M.R. and Herrmann, C. Jr. Syndrome of palatal myoclonus and progressive ataxia. *Neurology* 35: 1212-1214, 1985.

Sperling, M.R. and Engel, J. Jr. EEG from the temporal lobes: a comparison of ear, anterior temporal, and nasopharyngeal electrodes. *Annals of Neurology* 17:510-513, 1985.

Sperling, M.R., Brown, W.J., Crandall, P.H. Focal burst-suppression induced by thiopental. *Electroencephalogr. Clin. Neurophysiol.* 63: 203-208, 1986.

Sperling, M.R., Mendius, J.R., Engel, J., Jr. Mesial temporal spikes: a comparison of sphenoidal, nasopharyngeal, and ear electrodes. *Epilepsia* 27:81-86, 1986.

Sperling, M.R., and Wilson, C.L. The effect of limbic and extralimbic stimulations upon prolactin secretion in humans. *Brain Res.* 371:293-297, 1986.

Lieb, J.P., Sperling, M.R., Skomer, C., Mendius, J.R., Engel, J., Jr. Visual versus computer evaluation of thiopental-induced EEG changes in temporal lobe epilepsy. *Electroencephalogr. Clin. Neurophysiol.* 63:395-407, 1986.

Sperling, M.R., Wilson, G., Engel, J. Jr., Babb, T.L., Phelps, M., Bradley W. Magnetic resonance imaging in intractable partial epilepsy: correlative studies. *Annals of Neurology* 20:57-62, 1986.

Sperling, M.R., Pritchard, P.B., Engel, J.Jr., Daniel, C., Sagel, J. Prolactin in partial epilepsy: an indicator of limbic seizures. *Annals of Neurology* 20:716-722, 1986.

Brewer, K., Sperling, M.R., Neurosurgical treatment of intractable epilepsy. *J. Neuroscience Nursing* 20:366-372, 1988.

Sperling, M.R., Melmed, S., McAllister, T., Price, T.R.P. Lack of effect of naloxone on prolactin and seizures in electroconvulsive therapy. *Epilepsia* 30(1):41-44, 1989.

Sperling, M.R., Cahan, L.D., Brown, W.J. Relief of seizures from a predominantly posterior temporal tumor with anterior temporal lobectomy. *Epilepsia* 30(5):559-563, 1989.

Sperling, M.R., Lieb, J.P., Engel, J. Jr., Crandall, P.H. The prognostic significance of independent auras in temporal lobe seizures. *Epilepsia* 30(3):322-331, 1989.

Bridgman, P.A., Malamut, B.L., Sperling, M.R., Saykin, A.J., O'Connor, M.J. Memory during subclinical hippocampal seizures. *Neurology* 39:853-856, 1989.

Sperling, M.R., and O'Connor, M.J. Comparison of depth and subdural electrodes in recording temporal lobe seizures. *Neurology* 39(11):1497-1504, 1989.

Sperling, M.R., Gur, R.C., Alavi, A., Gur, R.E., Resnick, S., O'Connor, M.J., Reivich, M. Subcortical metabolic alterations in partial epilepsy. *Epilepsia* 31:145-155, 1990.

Sperling, M.R. and O'Connor M.J. Auras and subclinical seizures: characteristics and prognostic significance. *Annals of Neurology* 28:320-328, 1990.

Stafiniak, P., Saykin, A.J., Sperling, M.R., Kester, D.B., Robinson, L.J., O'Connor, M.J., Gur, R.C. Acute naming deficits following dominant temporal lobectomy: prediction by age at first risk for seizures. *Neurology* 40:1509-1512, 1990.

Morrell, M.J., Phillips, C.A., O'Connor, M.J., Sperling, M.R. Speech during partial seizures: Intracranial EEG correlates. *Epilepsia* 32:886-889, 1991.

Tatum, W.O., Sperling, M.R., Jacobstein, J. Epileptic palatal myoclonus. *Neurology* 41:1305-1306, 1991.

Kester, D.B., Saykin, A.J., Sperling, M.R., O'Connor, M.J., Robinson, L.J., Gur, R.C. Acute effect of anterior temporal lobectomy of musical processing. *Neuropsychologia* 29:703-708, 1991.

Sperling, M.R., O'Connor, M.J., Saykin, A.J., Phillips, C.A., Morrell, M.J., Bridgman, P.A., French, J.A., Gonatas, N. A non-invasive protocol for anterior temporal lobectomy. *Neurology* 42:416-422, 1992.

Epstein, M.A., Sperling, M.R., O'Connor, M.J. Cardiac rhythm during temporal lobe seizures. *Neurology* 42:50-53, 1992.

Masukawa, L.M., Uruno, K., Sperling, M.R., O'Connor, M.J., Burdette, L.J. The functional relationship between antidromically evoked field responses of the dentate gyrus and mossy fiber reorganization in temporal lobe epileptic patients. *Brain Research* 579:119-127, 1992.

Brooks, M.L., O'Connor, M.J., Sperling, M.R., Mayer, D.P. MRI in localization of EEG depth electrodes for seizure monitoring. *Epilepsia* 33:888-891, 1992.

O'Rourke, D.M., Saykin, A.J., Gilhool, J.J., Harley, R., O'Connor, M.J., Sperling, M.R. Unilateral hemispheric memory and hippocampal neuronal density in temporal lobe epilepsy. *Neurosurgery* 32:574-581, 1993.

The Felbamate Study Group in Lennox-Gastaut Syndrome Efficacy of Felbamate in childhood encephalopathy (Lennox-Gastaut Syndrome). (M.R. Sperling - Co-author) *New England Journal of Medicine* 238:29-33, 1993.

Morrell, M.J., Sperling, M.R., Stecker, M., Dichter, M.A. Sexual dysfunction in partial epilepsy: a deficit in physiological sexual arousal. *Neurology* 44:243-247, 1994.

Kucharczyk, N., Adusumalli, V.E., Wichmann, J.K., Kamin, M., Sofia, R.D., French, J., Sperling, M.R., Bourgeois, B., et al. Drug concentrations in human brain tissue samples from epileptic patients treated with Felbamate. *Drug Metabolism and Disposition* 22:168-170, 1994

Liporace, J.L., Sperling, M.R., Dichter, M.A. Absence seizures and carbamazepine in adults. *Epilepsia* 35:1026-1028, 1994.

Sperling, M.R., Saykin, A.J., Glosser, G., Moran, M., French, J.A., O'Connor, M.J. Predictors of outcome after anterior temporal lobectomy: The intracarotid amobarbital test. *Neurology* 44:2325-2330, 1994.

Manno, E.M., Sperling, M.R., Ding, X.S., Jaggi, J., Alavi, A., O'Connor, M.J., Reivich, M. Predictors of outcome after anterior lobectomy: Positron emission tomography. *Neurology* 44:2331-2336, 1994.

Crino, P.B., Sater, R., Sperling, M.R., Katsetos, C.D. Renal cell carcinomatous meningitis: Pathologic and immunohistochemical features. *Neurology* 45:189-91, 1995.

Laskowitz, D.T., Sperling, M.R., French, J.A., O'Connor, M.J. The syndrome of frontal lobe epilepsy: Characteristics and surgical management. *Neurology* 45:780-787, 1995.

Sperling, M.R. and Skolnick, B.E. Cerebral blood flow during spike-wave discharges. *Epilepsia* 36:156-163, 1995.

Tatum, W.O., Sperling, M.R., O'Connor, M.J., Jacobstein, J.G. Interictal single photon emission computed tomography in partial epilepsy. *Journal of Neuroimaging* 5:142-144, 1995.

Sperling, M.R., Saykin A.J., Roberts D.F., French J.A., O'Connor. Occupational outcome after temporal lobectomy for refractory epilepsy. *Neurology* 45:970-977, 1995.

Sperling, M.R., Alavi, A., Reivich, M., French, J.A., O'Connor, M.J. False lateralization of temporal lobe epilepsy with FDG positron emission tomography. *Epilepsia* 36:722-727, 1995.

Burgerman, R.S., Sperling, M.R., French, J.A., Saykin, A.J., O'Connor, M.J. Comparison of mesial versus neocortical onset temporal lobe seizures: Neurodiagnostic findings and surgical outcome. *Epilepsia* 36:662-670, 1995.

Legido, A., Lago, P., Chung, H.J., Sperling M., Clancy, R.R. Serum prolactin in neonates with seizures. *Epilepsia* 36:682-686, 1995.

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Johnson, V., Cho, R., Tracy, J., Glosser, D., Sperling, M. Determinants of Quality of Life in Epilepsy. *Neurology* 58 (Suppl 3) 213, 2002.

Guina, M., Liporace, J., Sperling, M., Nei, M. Long-Term Video EEG and Interictal Epileptiform Abnormalities. *Neurology* 58 (Suppl 3) 451, 2002.

Houghton, D., Sperling, M., Salmon, E., O'Connor, M., Berg, A. Preoperative Predictors of Postoperative Seizure Recurrence after Anterior Temporal lobectomy: Analysis with Cox Proportional Hazards Model. *Neurology* 58 (Suppl 3) 94, 2002.

Nei, M., Ho, R., AbouKhalil, B., Drislane, F., Liporace, J., Romeo, A., Sperling, M. EEG and EKG in Sudden Unexplained Death in Epilepsy. *Neurology* 58 (Suppl 3) 334, 2002.

### **Invited Presentations**

February 21, 1992 Workshop leader - Strategy for invasive techniques in epilepsy surgery, International epilepsy surgery symposium, Palm Desert, CA.

April 9, 1992 New technologies in epilepsy, Second International Zurich Epilepsy Symposium, Zurich, Switzerland

May 24 - 25, 1992 Interpretation of intracranial EEG workshop, Propagation of spontaneous seizures. Intracranial EEG symposium, University of Pittsburgh, Pittsburgh, PA

October 2, 1992 NATO symposium on MRI and epilepsy, MRI in cognitive decline, London, UK.

March 16-18, 1995 Series of four lectures: Epilepsy Surgery, Neuroimaging in Epilepsy, Diagnosis and Classification of the Epilepsies, Pharmacotherapy of Epilepsy, Venezuelan Neurologic Society, Barquisimeto, Venezuela.

May 12, 1996 Post-ictal Hormonal Changes. Cleveland Clinic International Epilepsy symposium. Cleveland, OH.

July 2, 1997 Ictal EEG recording before epilepsy surgery. 22nd International Epilepsy Congress, Dublin, Ireland.

August 27, 1997 Mortality in Epilepsy 2. Surgical Treatment of Extratemporal Epilepsies. Sourassky Medical Center of Tel Aviv University, Tel Aviv, Israel.

May 13, 1998 Mortality after Epilepsy Surgery. Queen Elizabeth Hospital, Humboldt University, Berlin, Germany

May 15, 1998 Electrophysiology of Frontal Lobe Epilepsy 2. Behavior in Frontal Lobe Seizures. Danish Epilepsy Society Meeting, Aarhus, Denmark.

June 24-26, 1998 Operation in Bitemporal Epilepsy. 2. Depth Electrodes. Cleveland Clinic International Epilepsy Surgery Symposium, Cleveland, OH.

July 7, 1998 Epilepsy Surgery. Second Russian-American Epilepsy Symposium, St. Petersburg, Russia.

September 24 Propagation of Neocortical Seizures. First Dartmouth International Symposium on Neocortical Epilepsy. Lebanon, NH.

October 9, 1998 Risks of Epilepsy. Ortho-McNeill Symposium. Cannes, France.

September 11, 1999 The Cost of Epilepsy. International League Against Epilepsy Workshop, Prague, Czech Republic.

September 13, 1999 The Cost of Epilepsy. Twenty first International Epilepsy Congress, Prague, Czech Republic.

September 13, 1999 Subclinical Seizures. Twenty first International Epilepsy Congress, Prague, Czech Republic.

May 19, 2000 Mortality in Epilepsy Surgery Patients. ILAE meeting, Brussels, Belgium.

June 30, 2000 Risks of Epilepsy. Ortho-McNeill symposium. Amsterdam, Netherlands.

August 25, 2000 Mortality in Refractory Epilepsy. Karolinska Institute. Stockholm, Sweden.

August 30, 2000 Selection of Candidates for Epilepsy Surgery. 3rd Russian-American Epilepsy Symposium. Moscow, Russia.

August 30, 2000 Results of Epilepsy Surgery. 3rd Russian- American Epilepsy Symposium. Moscow, Russia.

May 16, 2001 Cost-Effectiveness of Epilepsy Surgery and Medical Therapy for intractable epilepsy. 24th International Epilepsy Congress, Buenos Aires, Argentina.

May 17, 2001 Mortality after Epilepsy Surgery. 24th International Epilepsy Congress, Buenos Aires, Argentina.

March 13, 2002 Risks of Epilepsy. Hong Kong Neurological Society, Hong Kong, China.

March 14, 2002 Risks of Epilepsy and Therapy of Epilepsy. Nanjing Neurologic Society, Nanjing, China.

March 15, 2002 Risks of Epilepsy and Treatment of Epilepsy, Guangzhou, China.

May 4, 2002 Temporal Lobectomy. Session leader, Istanbul, Turkey.

### **National Lectures**

October 30, 1991 Management of seizures and status epilepticus, Long Island College Hospital, Brooklyn, NY.

November 5, 1991 Surgical treatment of epilepsy, SUNY, Stonybrook, Long Island, NY.

November 14, 1991 Status epilepticus, New Orleans Neurological Society, New Orleans, LA.

November 15, 1991 Neuroimaging in epilepsy, Louisiana State University, New Orleans, LA.

November 19, 1991 Neuroimaging in epilepsy, University of Massachusetts, Worcester, MA.

December 13, 1991 EEG in focal epilepsy, American EEG Society Annual Course, Philadelphia, PA.

March 25, 1992 Epilepsy surgery, Mount Sinai Medical Center, New York, NY

May 8, 1992 EEG and polygraphic monitoring, American Academy of Neurology Workshop, San Diego, CA

June 20, 1992 Non-invasive evaluation of patients for epilepsy surgery. 2) Anticonvulsant therapy in epilepsy, Texas Tech University, Lubbock, TX

August 14, 1992 Neuroimaging in epilepsy, Milton S. Hershey Medical Center, Penn State University, Hershey, PA.

February 10, 1993 Epilepsy surgery, Pediatric Grand Rounds, SUNY, Stonybrook, Stonybrook, NY.

March 3, 1993 Neuroimaging in epilepsy, Columbia University Department of Neurology Grand Rounds, New York, NY.

March 9, 1993 Status epilepticus, Lehigh Valley Medical Center, Medical Grand Rounds, Allentown, PA.

April 1, 1993 Neuroimaging in epilepsy, Medical University of South Carolina, Department of Neurology Grand Rounds, Charleston, SC.

April 26, 1993 Faculty member of workshop on polygraphic monitoring, American Academy of Neurology, New York, NY.

May 21, 1993 Long term EEG monitoring, Lahey Clinic Department of Neurology, Burlington, MA.

May 21, 1993 Long term EEG monitoring, Massachusetts General Hospital, Harvard Medical School, Department of Neurology Conference, Boston, MA.

June 2, 1993 Epilepsy surgery, Colorado Society of Neurologists, Denver, CO.

July 22, 1994 Prediction of Outcome after Temporal Lobectomy for Refractory Epilepsy. Neurology Grand Rounds, University of Pittsburgh, Pittsburgh, PA.

September 9, 1994 University of Virginia, Walter O. Klingman Lecturer and Visiting Professor

October 21, 1994 Prediction of Outcome after Epilepsy Surgery. Neurology Grand Rounds, Dartmouth Medical School, Lebanon, NH.

November 9, 1994 Status Epilepticus. Medicine Grand Rounds, Brookdale Hospital, Brooklyn, NY.

January 4, 1995 Prediction of Outcome after Epilepsy Surgery. Neurology Grand Rounds, Robert Wood Johnson Medical School, New Brunswick, NJ.

April 10, 1995 Outcome of Epilepsy Surgery. Department of Neurology, Hershey Medical Center, Hershey, PA.

May 20, 1995 Epilepsy Surgery. Good Samaritan Hospital, Oregon Comprehensive Epilepsy Center, Portland, OR.

May 12, 1995 Status Epilepticus. After Dinner Seminar (seminar director), American Academy of Neurology Meeting, Seattle, WA.

May 20, 1995 Epilepsy Surgery. Good Samaritan Hospital, Oregon  
Comprehensive Epilepsy Center, Portland, Oregon.

June 10, 1995 Epilepsy Surgery. JFK Neuroscience Institute and Epilepsy  
Foundation of New Jersey, Edison, NJ.

November 13, 1995 Advances in Ambulatory EEG Monitoring. Seminar. Boston,  
Mass.

November 30, 1995 Results of Epilepsy Surgery. Mount Sinai Medical Center  
Symposium, New York, NY.

December 3, 1995 Criteria for EEG Monitoring in Evaluating Patients for Epilepsy  
Surgery. Symposium Director at Temporal Lobe Club meeting at the American  
Epilepsy Society meeting, Baltimore, MD.

January 17, 1996 Outcome of Epilepsy Surgery. Neurology Grand Rounds,  
UCLA Department of Neurology. Los Angeles, CA.

January 17, 1996 Case Conference. Department of Neurology, UCLA, Los  
Angeles, CA.

January 18, 1996 Results of Epilepsy Surgery. Neuroscience Seminar. USC  
Department of Neurology, Los Angeles, CA.

January 19, 1996 Frontal Lobe Epilepsy. Neurology Grand Rounds. Wadsworth  
VA Medical Center- UCLA, Los Angeles, CA.

January 19, 1996 Case Conference. Department of Neurology, Wadsworth VA  
Medical Center - UCLA, Los Angeles, CA.

February 1, 1996 Results of Epilepsy Surgery. Neurology Grand Rounds, Johns  
Hopkins Department of Neurology, Baltimore, MD.

March 22, 1996 Neuroimaging in Epilepsy. American Society for Neuroimaging  
annual course. Oakland, CA.

March 24, 1996 Status Epilepticus. Seminar Director and lecturer. American  
Academy of Neurology Meeting, San Francisco, CA.

December 4, 1996 Surgical Treatment of Epilepsy. Ortho-McNeill Fellows  
Symposium. San Francisco, CA

December 4, 1996 Controversies in Intractable Partial Epilepsy (Symposium  
chair and moderator). Mortality in Epilepsy. American Epilepsy Society Meeting.  
San Francisco, CA.

December 7, 1996 Challenges in Invasive Monitoring. American Epilepsy Society annual course. San Francisco, CA.

January 23, 1997 Mortality in Epilepsy. Brookhaven Hospital, Brookhaven, N.Y.

February 20, 1997 Results of Epilepsy Surgery. Sacramento Comprehensive Epilepsy Program at Sutter Community Hospital. Sacramento, CA.

April 12, 1997 Surgical Treatment of Extratemporal Epilepsy. American Academy of Neurology Meeting, Boston, MA.

May 17, 1997 Risks of Epilepsy. Ortho-McNeill Pharmaceutical Symposium, New York, NY.

June 16, 1997 Frontal Lobe Epilepsy. New York Medical College. Valhalla, NY.

June 17, 1997 Mortality and Epilepsy. New York Medical College, Valhalla, NY.

September 15, 1997 Positron Emission Tomography Scanning. Multimodality Imaging Symposium, American Clinical Neurophysiology Society Meeting, Beverly Hills, CA.

October 24-25, 1997 Epileptiform Abnormalities: Interictal and Ictal. EEG Course (organized by Dr. Kolva). Philadelphia, PA.

November 15, 1997 Medical Management of Epilepsy. American Society of Consultant Pharmacists, Philadelphia, PA.

December 5, 1997 Auras. American Epilepsy Society Symposium on Lateralizing Signs in Seizures. Boston, Mass.

December 5, 1997 New Presentations at the American Epilepsy Society Meeting. Ortho-McNeill TopScholars Program. Boston, Mass.

January 28, 1998 Management of Epilepsy. Trenton State Psychiatric Hospital, Trenton, NJ.

February 21, 1998 Risks of Epilepsy. Ortho-McNeill Educators Conference. Laguna Beach, CA.

February 25, 1998 Results of Temporal Lobectomy. University of Maryland, Department of Neurology Grand Rounds, Baltimore, MD.

April 9, 1998 Frontal Lobe Epilepsy. Lancaster Neuroscience Associates, Lancaster, PA.

April 23, 1998 Surgery of Frontal Lobe Epilepsy. Hershey Medical Center, Hershey, PA.

June 5-6, 1998 Neuroimaging in Epilepsy 2. Epilepsy Surgery. St. Louis Epilepsy Center Symposium, St. Louis, MO.

November 13, 1998 Clinical Effectiveness of Topiramate. Ortho-McNeill Educators Conference. Coral Gables, FL.

December 7, 1998 Case Study in Epilepsy. Ortho-McNeill TopScholars Symposium at the American Epilepsy Society Meeting. San Diego, CA.

December 8, 1998 Temporal Lobectomy in Patients with Bitemporal Seizures. American Epilepsy Society Meeting. San Diego, CA.

December 10, 1998 Mortality in Epilepsy. Stanford University Department of Neurology. Stanford, CA.

February 12, 1999 Risks of Epilepsy. Ortho-McNeill Symposium, La Quinta, CA.

February 20, 1999 Risks of Epilepsy. Ortho-McNeill Symposium, Coral Gables, FL.

March 11, 1999 Use of Anticonvulsants, Morristown Hospital, Morristown, NJ.

April 23, 1999 The EEG in Status Epilepticus. American Academy of Neurology course "Status Epilepticus," Toronto, Canada.

June 1, 1999 Risks of Epilepsy. Tuscaloosa, AL.

June 2, 1999 Outcome of Epilepsy Surgery, University of Alabama, Birmingham, AL.

October 6, 1999 Psychosocial Outcome of Epilepsy Surgery. Wilkes Barre, PA.

October 23, 1999 The Case for Early Intervention in Epilepsy. Ortho-McNeill Symposium, Palm Beach, FL.

November 1, 1999 Depth Electrodes. American Clinical Neurophysiology Society. St. Louis, MO.

December 5, 1999 Mortality in Epilepsy. Participatory Roundtable. American Epilepsy Society. Orlando, FL.

March 15, 2000 Risks of Epilepsy. Mayo Clinic, Scottsdale, AZ.

April 30, 2000 EEG in Status Epilepticus. American Academy of Neurology Meeting, San Diego, CA.

May 1, 2000 The Intracranial EEG. American Academy of Neurology Meeting, San Diego, CA.

June 1-2, 2000 Series of Lectures: EEG in Epilepsy; Surgical Treatment of Epilepsy; Neuroimaging in Epilepsy. Bowman Gray School of Medicine, Epilepsy Fellows Symposium, Winston Salem, NC.

September 23, 2000 Intracranial EEG: Going off the Gold Standard. Presidential Lecture, American Clinical Neurophysiology Society Lecture, Montreal, Canada,

November 29, 2000 Mortality in Epilepsy. Robert Wood Johnson Department of Neurology Grand Rounds, New Brunswick, NJ.

December 3, 2000 Functional neuroimaging session moderator, American Epilepsy Society Meeting, Los Angeles, CA.

December 3, 2000 Case studies in epilepsy. American Epilepsy Society Meeting, Los Angeles, CA.

December 5, 2000 Mortality in refractory epilepsy. American Epilepsy Society Meeting, Los Angeles, CA.

December 6, 2000 The need for video-EEG monitoring in evaluating patients for temporal lobectomy. American Epilepsy Society Meeting, Los Angeles, CA.

May 7, 2001 Epilepsy Surgery. American Academy of Neurology Course, Philadelphia, PA.

May 11, 2001 Patterns in the Intracranial EEG. American Academy of Neurology Course, Philadelphia, PA.

May 11, 2001 The EEG in Coma and Encephalopathy. American Academy of Neurology Course, Philadelphia, PA.

May 11, 2001 The EEG in Status Epilepticus. American Academy of Neurology Course, Philadelphia, PA.

June 28, 2001 Results of Epilepsy Surgery. Neurology Grand Rounds, University of Washington, Seattle, WA. (scheduled)

November 30, 2001 Cortical Mapping and Electrographic, American Clinical Neurophysiology Society Course, Philadelphia, PA.

### **Local Lectures**

September 6, 1991 Diagnosis and treatment of seizures, Germantown Hospital, Philadelphia, PA.

September 27, 1991 Electrophysiology of seizures, Graduate Hospital Research Symposium, Philadelphia, PA

October 23, 1991 Diagnosis and management of seizures, Mercy Catholic Medical Center, Darby, PA.

January 23, 1992 Advances in the management of epilepsy, Community Memorial Hospital, Toms River, NJ.

April 23, 1992 Surgical treatment of epilepsy, Temple University, Philadelphia, PA.

May 2, 1992 Management of seizures, Pennsylvania Osteopathic Medical Association, Philadelphia, PA.

September 2, 1992 Status epilepticus, Graduate Hospital, Department of Medicine Management Conference, Philadelphia, PA.

March 25, 1993 Epilepsy surgery review, HUP, Neurology Grand Rounds, Philadelphia, PA.

March 29, 1993 Management of epilepsy, Chestnut Hill Hospital, Department of Family Practice, Philadelphia, PA.

August 18, 1994 Diagnosis and Classification of Epilepsy. Neurology Management Conference, Medical College of Pennsylvania.

October 13, 1994 Epilepsy Surgery. Anesthesia Grand Rounds, Graduate Hospital.

November 2, 1994 Epilepsy Surgery Update. Philadelphia Neurologic Society.

November 19, 1994 Classification of Seizures and Epilepsy. Epilepsy Foundation of Southeastern Pennsylvania Annual Community Conference.

April 13, 1995 Frontal Lobe Epilepsy. Department of Neurology Grand Rounds, Hospital of the University of Pennsylvania.

April 27, 1995 Frontal Lobe Epilepsy. Pennsylvania Hospital.

May 18, 1995 Epilepsy Surgery. Neurosurgery Conference, Hospital of the University of Pennsylvania.

June 3, 1995 Outcome after Epilepsy Surgery, Merritt-Putnam Symposium, Philadelphia.

August 18, 1995 Epilepsy Surgery. Department of Psychiatry conference, University of Penna.

October 6, 1995 Outcome after Epilepsy Surgery. Department of Neurology Grand Rounds, Temple University Hospital.

November 18, 1995 Living with Epilepsy. Epilepsy Foundation of Southeastern Pennsylvania community conference. Philadelphia, PA.

November 21, 1995 Epilepsy Diagnosis and Treatment, public health lecture, Graduate Hospital.

March 11, 1996 Frontal Lobe Epilepsy. Abington Hospital Neuroscience Rounds. Abington, PA.

April 20, 1996 Status Epilepticus. Epilepsy course sponsored by Temple University, Graduate Hospital, and the Epilepsy Foundation of Southeastern Pa.

June 22, 1996 Living with epilepsy. Graduate Hospital epilepsy symposium.

October 3, 1996 Mortality from Epilepsy. University of Pennsylvania Neurology Grand Rounds.

October 25, 1996 Results of Epilepsy Surgery. Pan-Philadelphia Neurosurgical Conference.

October 29, 1996 Use of Lamotrigine: Panel Discussion. Philadelphia, PA.

November 23, 1996 New Medications for Epilepsy. Epilepsy Foundation of Southeastern Pennsylvania community conference. Philadelphia, PA.

April 19, 1997 Epilepsy in the Brain Injured. West Chester University, West Chester, PA.

June 19, 1997 Alpers Lecture. Mortality in Epilepsy. Thomas Jefferson University Hospital, Philadelphia, PA.

June 20, 1997 Surgical Treatment of Temporal Lobe Epilepsy. Neurology Grand Rounds, Thomas Jefferson University Hospital, Philadelphia, PA.

July 10, 1997 Frontal Lobe Epilepsy. Christiana Hospital, Christiana, Delaware.

September 5, 1997 Surgical Treatment of Extratemporal Epilepsies. Neurology Grand Rounds, Thomas Jefferson University, Philadelphia, PA.

September 27, 1997 Ortho-McNeill TRAITS conference, Philadelphia, PA.

October 3, 1997 Epilepsy and Mortality, Jefferson Symposium, Philadelphia, PA.

October 22, 1997 Epilepsy Surgery, Psychiatry Grand Rounds, Thomas Jefferson University, Philadelphia, PA.

November 7, 1997 Epilepsy Surgery, Nuclear Medicine Division, Thomas Jefferson University, Philadelphia, PA.

December 18, 1997 Non-epileptiform abnormalities in the EEG. Thomas Jefferson University Resident Conference. Philadelphia, PA.

March 4, 1998 Neuroimaging in Epilepsy. Thomas Jefferson Neurophysiology Course, Philadelphia, PA.

June 13, 1998 Results of Epilepsy Surgery. Jefferson Comprehensive Epilepsy Center Community Conference, Philadelphia, PA.

August 1, 1998 Case Study in Epilepsy. Philadelphia, PA.

November 9, 1998 Case Study in Epilepsy. Allentown, Pa.

November 21, 1998 Diagnosis of Epilepsy. Epilepsy Foundation of Southeastern Pennsylvania Community Conference, Philadelphia, PA.

February 6, 1999 The Use of Vagal Nerve Stimulation in the Treatment of Epilepsy. Jefferson Comprehensive Epilepsy Center community conference, Philadelphia, PA

July 21, 1999 Psychosocial Impact of Seizure Control. Philadelphia, PA.

November 17, 1999 Psychosocial Outcome after Epilepsy Surgery. Gulph Mills, PA.

November 20, 1999 Turning the Corner in Epilepsy: 1999-2000. Epilepsy Foundation of Southeastern Pennsylvania Community Conference, Philadelphia, PA.

April 6, 2000 New Treatments for Epilepsy, Allentown, PA.

June 9, 2000 Risks of Epilepsy. MCP/Hahnemann School of Medicine, Neurology department grand rounds, Philadelphia, PA.

July 1, 2000 Medical Treatment of Epilepsy with New Agents. Medford, NJ.

October 19, 2000 Medical Treatment of Epilepsy. Local lecture, Philadelphia, PA.

November 4, 2000 Alternative Treatments for Epilepsy. Epilepsy Foundation of Southeastern PA conference, Philadelphia, PA.

November 3, 2000 Risks of Epilepsy. Cooper Hospital Department of Neurology Grand Rounds, Camden, NJ.

November 8, 2000 Mortality in Epilepsy. Jefferson Neuroscience seminar, Thomas Jefferson University.

February 7, 2001 Status Epilepticus. Philadelphia Neurological Society, Philadelphia, PA.

February 20, 2001 New Antiepileptic Drugs. Trenton, NJ.

March 16, 2001 Use of Anticonvulsant Drugs. Philadelphia, PA.

April 13, 2001 Epilepsy Surgery, Department of Neurology Grand Rounds, Cooper Hospital, Camden, NJ.

June 18, 2001 New Antiepileptic Drugs. West Orange, NJ.