

CURRICULUM VITAE

PERSONAL INFORMATION

Bruce H. Cohen, MD, FAAN
Director; NeuroDevelopmental Science Center, Children's Hospital Medical Center of Akron
Division of Neurology, Children's Hospital Medical Center of Akron
Professor of Pediatrics, Northeast Ohio College of Medicine
Place of Birth: St. Louis, Missouri, USA
Citizenship: United States

EDUCATION

Undergraduate:
Washington University
Lindel and Skinker Blvd., St. Louis, MO 63105
A.B., Chemistry, Summa Cum Laude and Sigma Xi
September 1974-June 1978

Medical School:
Albert Einstein College of Medicine of Yeshiva University
1300 Morris Park Avenue
Bronx, NY 10461

POST-GRADUATE TRAINING

Pediatric Residency:
Children's Hospital of Philadelphia
34th and Civic Center Blvd., Philadelphia, PA 19104
June 17, 1982 - June 30, 1984

Pediatric Neurology Residency
Neurological Institute of New York and Babies Hospital
Columbia Presbyterian Medical Center
630 West 168th Street
New York, NY 10032
July 1, 1984 - June 30, 1987

Pediatric Neuro-Oncology Fellowship:
Children's Hospital of Philadelphia
34th and Civic Center Blvd., Philadelphia, PA 19104
July 1, 1987 - May 31, 1989

CONTACT INFORMATION

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PROFESSIONAL APPOINTMENTS

Children's Hospital Medical Center of Akron; Director of the Neurodevelopmental Science Center 2015 – present
Children's Hospital Medical Center of Akron; Interim Vice-President and Medical Director of the Rebecca D. Considine Research Institute 2019 - present
Children's Hospital Medical Center of Akron; Interim Director of the Neurodevelopmental Science Center 2014-2015
Children's Hospital Medical Center of Akron; Director of Neurology, 2010 - 2016
Professor of Pediatrics; Tenure Track, Northeast Ohio Medical University, 2011-current
Professor of Integrative Medical Sciences, Tenure Track, Northeast Ohio Medical University, 2019 - current
Akron General Hospital; Department of Neurology Staff, 2014 – current

Professor of Medicine; Lerner College of Medicine of The Cleveland Clinic; Case Western Reserve University 2010-2011
Cleveland Clinic; Staff Physician, Neurological Institute, 1989-2011
Hillcrest Hospital, Medical Consulting Staff, Cleveland Clinic Health System, 2005-2010
Cleveland Clinic; Chairman, Section of Pediatric Neurology, 1999-2002
Ohio State University; Associate Professor of Pediatrics, Department of Pediatrics, 1992-2003
Children's Hospital of Philadelphia, University of Pennsylvania, Instructor in Pediatrics, 1988-1989
Children's Hospital of Philadelphia, University of Pennsylvania, Consulting Neurologist - Neurofibromatosis Clinic, 1987-1989
Children's Hospital of Philadelphia, University of Pennsylvania, Consulting Neurologist - Neuro-Oncology Clinic, 1987-1989
Harlem Hospital Medical Center, Assistant Attending Physician, 1985-1987

CERTIFICATION AND LICENSURE

Fellow of the National Board of Medical Examiners, July 1, 1983, No. 270210
Fellow of the American Board of Pediatrics, June 2, 1989, No. 39726. Re-certified on 3/11/1996 through 2003 and again on August 2, 2002 for the period of 2004-2010.
Fellow of the American Board of Psychiatry and Neurology, boarded in Neurology with Special Competence in Child Neurology, March 1990 (Permanent), No. 720
Medical License: Ohio, No. 58033

HONORS AND AWARDS

St. Louis Chemical Council Award, March 1977
John C. Sowden Memorial Award, Chemistry Department, Washington University, April 1978.
Sigma Xi, Washington University. Associate Member 1978-2002 Full Member 2002-current
Research Grant, Department of Anesthesia, Albert Einstein College of Medicine, 1979.
Eilene L. Schneider Award (Pediatric Department, Albert Einstein College of Medicine), May 1982.
Peter Preuss Foundation Grant, \$20,000 Training Grant, Peter Preuss Foundation, 1987-1988.
American Cancer Society, Clinical Oncology Fellow Grant, \$25,000, 1988-1989.
American Society of Clinical Oncology Travel Award, Am. Society of Clinical Oncology Meeting, San Francisco, May 21-24, 1989.
The Lawrence Koreness Humanitarian Award, The United Mitochondrial Disease Foundation, August 12, 2002.
Best Doctors in America; continually from 1994 through 2013
Healthcare Heroes; Cleveland Crain's Business Daily, 2011.
Vanguard Award, United Mitochondrial Disease Foundation, 2019

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Sigma Xi North American Scientific Society, Washington University, Associate Member 1978-2002, Full Member 2002-current
Alpha Omega Alpha, Albert Einstein College of Medicine, 1981-current
American Academy of Neurology 1985-current, appointed Fellow in 1999
 Chairman, Coding Subcommittee 2013 -
Child Neurology Society 1988-current
 Chairman, Practice Committee: 2006-2012
 Counselor from the Midwest: 2013-2015
 Secretary-Treasurer 2016-2020
Professors of Child Neurology 1999-current (President 2009-2011)
Mitochondrial Research Society 2001-current
Mitochondrial Medicine Society 2001-current (President 2003-2007)
American Neurological Association 2008-current
American Academy of Neuromuscular and Electrodiagnostic Medicine 2018-current

PROFESSIONAL SERVICES

Editorial Boards and Review Panels

Neurology Now – Editorial Advisory Board
Neurology Today – Editorial Advisory Board
Mitochondrian – Member of the Editorial Board
Pediatric Neurology – Member of the Editorial Board

Annals of Neurology - Reviewer
Neurology - Reviewer
Medical and Pediatric Oncology - Reviewer
Journal of Neuro-Oncology – Reviewer
Neuro-Oncology – Reviewer
Muscle and Nerve – Reviewer
Molecular Genetics and Metabolism – Reviewer
Continuum, Associate Editor (Practice); 2019 - current

Study Sections/Grant Review Committees

United Mitochondrial Disease Foundation Scientific Abstract Reviewer Annual Meeting 2004-current
United Mitochondrial Disease Foundation Grant Review Committee 2005-2011
American Neurological Association Scientific Abstract Reviewer 2009 - current
CPT Advisor (Assistant) - American Academy of Neurology October 2009 – 2016
CPT Advisor - American Academy of Neurology October 2016 -
Neurofibromatosis Consortium, Chairman of the External Review Committee, 2012 - current

Advisory Groups and Volunteer Service

Achievement Center for Children of Cuyahoga County, Medical Professional Advisory Board, 1991-2000
Camp Physician, Camp Friendship, American Cancer Society, 1992 -1998.
The Gathering Place: A Wellness Community for Those Touched By Cancer, Professional Advisory Board, 2001-2003
The United Mitochondrial Disease Foundation, Board of Trustees, 1999-2007
The United Mitochondrial Disease Foundation, Executive Committee, 2004-2007
The United Mitochondrial Disease Foundation, Secretary of the Scientific and Medical Advisory Board, 2007-2010
The United Mitochondrial Disease Foundation, Board of Trustees, 2010 – 2019
The United Mitochondrial Disease Foundation, Chairman of the Scientific and Medical Advisory Board, 2019-current

COMMITTEE SERVICE

National

Children’s Cancer Group, Brain Tumor Autologous Marrow Transplant Committee CCG 9883/9004, 1989-1992
Children’s Cancer Group, Neurology Committee, member 1989 - 1999
Children’s Cancer Group, Medulloblastoma/PNET Committee (CCG 9892), member, 1989-1995
The National Neurofibromatosis Foundation, Clinical Care Committee, member, 1989-1993
Children’s Cancer Group, Bone Marrow Transplantation Committee, member 1990-1992
Children’s Cancer Group, High-Grade Astrocytoma/Autologous Marrow Rescue and Irradiation Committee (CCG 9010/CCG 9922), member 1990-1994
Children’s Cancer Group, Low-Stage Medulloblastoma Committee (CCG 9014), 1993-1996
Children’s Cancer Group, Brain Tumor Strategy Committee, member, 1994-1999
Children’s Cancer Group, Task Force on Malignant Infant Brain Tumors, chairman, 1994-1996
Children’s Cancer Group, Task Force on Neurofibromatosis, member, 1995-1996
Child Neurology Society, Practice Committee, member, 1995 - 2013
Child Neurology Society, Coding Subcommittee of the Practice Committee, Chairman, 1995-2000
Child Neurology Society, Practice Committee, Vice-Chairman, 1996-2005
Children’s Cancer Group - Children’s Oncology Group, Infant Brain Tumor Study (CCG 99703), Chairman, 1997 - current (study closed in 2004 and manuscripts in progress)
American Board of Psychiatry and Neurology, Examiner for the Oral Boards, 1998 - 2009
Accreditation Council for Pediatric Neurosurgical Fellowships, member, 1998 - 2013
Children’s Oncology Group, Brain Tumor Steering Committee, member, 1999-current
Children’s Oncology Group, Low-Grade Astrocytoma Committee, Co-Chairman, 1999 - 2009
Children’s Oncology Group, Neurology Committee, member 1999 - current
Professors of Child Neurology 1999-present (President 2009-2011)
American Academy of Neurology, Section of Child Neurology, Compliance and E&M Committee, 1989 - 2000
Mitochondrial Medicine Society, Steering Committee, member 2000 - 2003
Child Neurology Society, Electronic Communications Committee, member, 2001 - 2013
American Board of Psychiatry and Neurology, Maintenance of Certification Committee (member and writer for MOC examination), 2002 - 2009
American Academy of Neurology, Graduate Medical Education Subcommittee, member, 2003 - 2006

Mitochondrial Medicine Society, President, 2003-2007
American Academy of Neurology, Child Neurology Section, Vice-Chairman and Chair-Elect, 2003-2005
American Academy of Neurology, Child Neurology Section Executive Committee, 2003-2009
American Academy of Neurology, Child Neurology Section, Chairman, 2005-2007
American Academy of Neurology, Council of Sections, member, 2005-2007
Child Neurology Society, Practice Committee, Chairman, 2005-2013
American Academy of Neurology, Annual Meeting Course Selection Committee, 2005 - current
American Academy of Neurology, Practice Committee, member, 2006 - 2015
Childhood Cancer Survivor Study Group, member 2007 - 2011
American Academy of Neurology, Media Panel for Child Neurology, 2007 - current
Child Neurology Society, Finance Committee, 2007 - 2013
American Academy of Neurology, Coding Subcommittee of the Medical Economic and Management Committee, member, 2008 – 2019.
American Academy of Neurology, Coding Subcommittee, Chairman, 2013-2019
American Academy of Neurology, Medical Economic and Management Committee, member, 2013– 2019
American Academy of Neurology, Grievance Committee, member 2008 - 2010
American Academy of Neurology, AEI Risk Management Work Group, 2009 - 2011
American Academy of Neurology, CPT Assistant Advisor (AMA), 2009-2016
American Academy of Neurology, CPT Advisor (AMA), 2017 - current
Professors of Child Neurology, President 2010-2012 (member 1999- current)
United Council of Neurologic Subspecialties, Accreditation Council, Representing The Child Neurology Society; 2011-2017
Chairman, External Review Board, Department of Defense Neurofibromatosis Consortium, 2012 –
Panel Member, FDA Committee for Gene and Tissue Therapy for Mitochondrial Disease, 2013-2014
Child Neurology Society, Counselor from the Midwest, 2013-2015
Child Neurology Society, Secretary – Treasurer, 2015-2020 term
United Council of Neurologic Subspecialties, Certification Council, 2017 – present
American Academy of Neurology CPT Advisor on Coding and Payment Policy Subcommittee (2019-current)
American Academy of Neurology, Member on Health Policy Subcommittee (2019-current)

Akron Children's Hospital

Director, NeuroDevelopmental Science Center 2015 -
Interim Director NeuroDevelopmental Science Center 2014 – 2015
Director of Neurology 2011 – 2016
Black Belt NDSC Redesign Team 2011 – 2014
Laboratory Formulary Committee 2011 – current
Blue Belt Daily Huddle Project (2012-2013)
Advanced Practice Committee 2012 – 2014
ICD-10 Physician Oversight Committee 2013 – 2015
New Procedure/Technology Committee 2012 – current
MyChart Oversight Committee 2013 – 2015
Interdisciplinary Care Committee 2012 – current
Enduring Materials CME Task Force 2013 - current
Physicians for Philanthropy 2011 – current
Epic Interdisciplinary Team 2011 – 2014
CMIO Advisory Committee 2012 – current
Leadership Academy Class 1 2013 – 4
Care Oversight Committee 2013 – current
Huron ACTNow Project 2015 – current
Considine 2 Expansion Project Member 2016 -2018

Cleveland Clinic

Medical Records Committee, member, 1991 - 2010
Chart Compliance Sub-Committee, member and reviewer, 1991-1994
Medical Records Committee, Chairman, 1996 - 2010
Electronic Medical Record Selection Task Force, member, 2000 – 2001

Cleveland Clinic Lerner College of Medicine (thru 2010)

Education of residents, fellows, medical students and graduate students

NEOMED (2011- current)

Education of residents, fellows, medical students and graduate students

Residency Director: Neurology at Akron General Hospital and Pediatric Neurology at Akron Children's Hospital (planning 2010 – current)

Educational Committees

American Academy of Neurology, Graduate Medical Education Subcommittee, member, 2003 - 2009

TEACHING ACTIVITIES

Lecturer: ARM2 Course, CCLCM 2008-2010

CCLCM PhD Core Lecture Series, 1 lecture per year (2008-2010)

Medical University of South Carolina; PhD Biochemistry Course 2011

The University of Indiana, Biochemistry Course, Evansville, Indiana, November 7, 2012

Curriculum/Course Development

1. Course Co-Director, United Mitochondrial Disease Foundation Annual Symposium, June 1-4, 2000, Cleveland, OH
2. Course Co-Director, Neuro-Oncology 2002: Current Concepts, The Fourth Annual CCF Brain Tumor Symposium. Naples, FL February 1-4, 2002
3. Course Co-Director, Mitochondrial Medicine Symposium. San Diego, CA June 12-14, 2003
4. Course Director, United Mitochondrial Disease Foundation Annual Symposium, St, Louis, MO June 16-19, 2005
5. Course Co-Director, United Mitochondrial Disease Foundation Annual Symposium, Indianapolis, IN June 24-28, 2008
6. Course CME Director, United Mitochondrial Disease Foundation 11th Symposium, June 24-27, 2009 Tysons Corners, VA
7. Course CME Director, United Mitochondrial Disease Foundation 12th Symposium, June 16-19, 2010, Phoenix, AZ.
8. Course CME Director, United Mitochondrial Disease Foundation 13th Symposium, June 2011, Schaumburg, IL.
9. Course Director, Practice 101. American Academy of Neurology 2011 Fall Symposium. October 21, 2011. Las Vegas, NV.
10. Course Director, The Practice of Neurology. Issues in Coding and Reimbursement. 1FC.001. (full day educational course). New Orleans, LA. American Academy of Neurology Annual Meeting. April 21, 2012.
11. Course CME Director, United Mitochondrial Disease Foundation 14th Symposium, June 13-16 2012, Bethesda, MD.
12. Course Director, 2013 UMDF Mini-Symposium, Ohio Chapter of the UMDF. Akron Children's Hospital, Akron, OH. February 17, 2013.
13. Course Director, The Practice of Neurology. Issues in Coding and Reimbursement. 1FC.001. (full day educational course). American Academy of Neurology Annual Meeting. San Diego, CA. March 16, 2013.
14. Course CME Director, United Mitochondrial Disease Foundation 15th Symposium, Newport Beach, CA, June 12-15, 2013.
15. Co-Chairman, 2013 Neurobiology of the Diseases of Children Annual Symposium, Mitochondrial Diseases. Held in conjunction with the 42nd Annual Meeting of The Child Neurology Society. October 30, 2013. Austin, TX.
16. Course CME Director, United Mitochondrial Disease Foundation Mini-Symposium, Indianapolis, IN, March 20-21, 2014.
17. Course Director, The Practice of Neurology. Issues in Coding and Reimbursement. C6 (full day educational course). American Academy of Neurology Annual Meeting. Philadelphia, PA, April 26, 2014.
18. Course CME Director, United Mitochondrial Disease Foundation 16th Symposium, Pittsburgh, PA, June 3-7, 2014.
19. Course CME Director, United Mitochondrial Disease Foundation, Great Lakes Regional Symposium, Michigan State University, East Lansing, MI, May 1-2, 2015.
20. Course CME Director, United Mitochondrial Disease Foundation 17th Symposium, Herndon, VA, June 17-20, 2015.
21. Course CME Director, United Mitochondrial Disease Foundation, Central Region Regional Symposium, held at University of Texas Medical Center, Houston, TX, February 12-13, 2016.
22. Course CME Director, United Mitochondrial Disease Foundation, Carolina Region Regional Symposium, held at Duke University Medical Center, Durham, NC February 19-20, 2016.
23. Course CME Director, United Mitochondrial Disease Foundation 18th Symposium, Seattle, WA June 15-18, 2016.
24. Course CME Director, Mitochondrial Medicine 2017, Southeast Regional Symposium, Grand Bohemian Hotel, Birmingham, AL, April 7, 2017.
25. Course CME Director, United Mitochondrial Disease Foundation 19th Symposium, Alexandria, VA, June 28-July 1, 2017.
26. Course CME Director, United Mitochondrial Disease Foundation Great Lakes Regional Symposium, Akron Ohio, October 13-14, 2017
27. Course CME Director, United Mitochondrial Disease Foundation 20th Symposium, Nashville, TN, June 27-30, 2018.

28. Course Director, Coding 101. American Academy of Neurology Annual Meeting, Philadelphia, PA. May 7, 2019.
29. Course CME Director, United Mitochondrial Disease Foundation, 21st Symposium, Alexandria, VA, June 26-29, 2019.

Presentations at Scientific Meetings

◆ indicates primary/senior presenter

1. Central nervous system melanotic neuroectodermal tumor of infancy (CNS- MNTI): Value of chemotherapy in management. American Academy of Neurology, Section on Neuro- Oncology, New York, NY, April 9, 1987. ◆
2. Brain tumors (BT) in children under two years: Treatment, survival, and long- term prognosis. American Academy of Neurology, Section on Child Neurology, Cincinnati, OH, April 1988. ◆
3. Gadolinium- DTPA (GAD)- enhanced MRI imaging in childhood brain tumors. American Academy of Neurology, Section on Neuro- Oncology, Cincinnati, OH, April 1988. ◆
4. Neurologic and magnetic resonance imaging abnormalities in symptomatic and asymptomatic children with neurofibromatosis type 1: Incidence and significance. Child Neurology Society, Neuro-Oncology Section, Halifax, Nova Scotia, September 1988. ◆
5. ³¹P magnetic resonance spectroscopy (³¹P- MRS) in childhood brain tumors. American Academy of Neurology, Session on Neuro- Oncology, Chicago, IL, April 13- 19, 1989.6. Ototoxicity of cis- platin in children with brain tumors receiving cranial irradiation. American Society of Clinical Oncology, San Francisco, CA, May 21- 23, 1989. ◆
6. "Poor- risk" medulloblastoma: Improved three- year disease- free survival after treatment with chemotherapy. Child Neurology Society 1989 Meeting, San Antonio, TX, October 11- 13, 1989. ◆
7. MR imaging of the brain in children with neurofibromatosis types I and II: Focal areas of abnormal signal intensity. The Radiological Society of North America, Chicago, IL, November 28, 1989, Section of Neuroradiology. ◆
8. Integrated MRI/³¹P MRS studies of large pediatric brain tumors. The Radiological Society of North America, Chicago, IL, November 28, 1989. ◆
9. High-dose chemotherapy with bone marrow rescue in children and young adults with recurrent high-grade brain tumors. Proceedings of the Fifth International Symposium on Autologous Bone Marrow Transplantation, Omaha, August 1990.
10. Progressive visual loss: A rare manifestation of familial cavernous angiomas. Child Neurology Society 1990 Meeting, Atlanta, GA, October 18-20, 1990. ◆
11. Murine antiepidermal growth factor monoclonal antibody (alphaEGFr MAB 425) for the imaging and treatment of childhood brain tumors. Child Neurology Society 1990 Meeting, Atlanta, GA, October 18-20, 1990. ◆
12. Outcome of children with medulloblastoma/primitive neuroectodermal tumors of the posterior fossa in the modern era: Improved survival with adjuvant chemotherapy. Child Neurology Society 1990 Meeting, Atlanta, GA, October 18-20, 1990. ◆
13. Cerebral Gangliogliomas in Childhood: Presentation, Pathologic Variability, Treatment and Outcome. Child Neurology Society 1991 Meeting, Portland OR, October 1991.
14. Lack of benefit of intravenous gamma globulin in treatment of intractable childhood epilepsy (ICE) in children with and without IgG-subclass deficiency. Child Neurology Society 1992 Meeting, New Orleans LA, October 1992.
15. Neurofibromatosis 2 in young patients: An "aggressive" disorder. Child Neurology Society 1992 Meeting, New Orleans LA, October 1992. ◆
16. Neurofibromatosis 2 in young patients: Imaging Experience. American Society of Neuroimaging, 16th Annual Meeting. Orlando, Florida, February 3, 1993.
17. Phase I trial of intrathecal 4-hydroperoxycyclophosphamide for neoplastic meningitis. AACR, April 9, 1993.
18. Randomized trial of CCNU, vincristine and prednisone versus "8-in-1" chemotherapy in the treatment of supratentorial primitive neuroectodermal tumors (S-PNET): A Childrens Cancer Group Study. Child Neurology Society Meeting. Orlando, Florida. October 14-16, 1993 ◆
19. Segmental neurofibromatosis. Child Neurology Society Meeting. Orlando, Florida. October 14-16, 1993.

20. Treatment of "poor-risk" medulloblastoma with radiation and chemotherapy: 5-year progression-free survival. Child Neurology Society Meeting. Orlando, Florida. October 14-16, 1993.
21. Progression-free survival of children with "poor-risk" medulloblastoma after treatment with radiotherapy and CCNU, vincristine and cis-platinum chemotherapy. 6th International Symposium on Pediatric Neuro-Oncology
22. Response to tamoxifen in patients failing conventional therapy for malignant glioma. American Association of Neurological Surgeons 62nd Annual Meeting. San Diego, CA, April 9-14, 1994.
23. High-Dose Thiotepa and Etoposide with Autologous Marrow Rescue (ABMR) for Children and Young Adults with Recurrent Central Nervous System (CNS) Tumors. International Symposium of Pediatric Neuro-Oncology, Houston, TX, August 3, 1994.
24. Clinical Usefulness of Magnetic Resonance Imaging in Pediatric Headache. Cleveland Clinic Foundation 20th Annual Neuroscience Residents' Day. Cleveland, Ohio, May 25, 1995. ✧
25. External Ophthalmoplegia and Spindle Coma in Combined Carbamazepine and Primidone Overdose: Case Report and Review of the Literature. Cleveland Clinic Foundation 20th Annual Neuroscience Residents' Day. Cleveland, Ohio, May 25, 1995. ✧
26. Benign Brainstem Lesions in Children with neurofibromatosis -1. Cleveland Clinic Foundation 20th Annual Neuroscience Residents' Day. Cleveland, Ohio, May 25, 1995. ✧
27. Benign Brainstem Lesions in Children with Neurofibromatosis type 1. The NNFF International Consortium for Molecular Biology of NF1 and NF2. Philadelphia, PA, July 14-16, 1995. ✧
28. Spinal Neurofibromatosis: NF1, NF2, or neither? The NNFF International Consortium for Molecular Biology of NF1 and NF2. Philadelphia, PA, July 14-16, 1995.
29. Clinical Usefulness of Magnetic Resonance Imaging in Pediatric Headache. Child Neurology Society Annual Meeting, Baltimore, MD, October 27, 1995. ✧
30. Brainstem lesions in children with Neurofibromatosis type 1. Child Neurology Society Annual Meeting, Baltimore, MD, October 27, 1995. ✧
31. Early results of reduced-dose radiotherapy plus chemotherapy for children with non-disseminated medulloblastoma: A Children's Cancer study. Child Neurology Society Annual Meeting, Baltimore, MD, October 27, 1995.
32. Results of Linac-based stereotactic radiosurgery for newly diagnosed glioblastoma multiforme. LINAC Radiosurgery Meeting sponsored by The Florida Neurosurgical society. Lake Buena Vista, FL, December 6-10, 1995.
33. Linac-based stereotactic radiosurgery for newly diagnosed malignant gliomas. Academy of Neurology Annual Meeting, San Francisco, CA, March 26, 1996.
34. Seizures In Patients with Cancer and Brain Tumors. Symposium on Epileptic Seizures: Pathophysiology and Semiology. Seventh International Cleveland Clinic-Bethel Epilepsy Symposium. Cleveland, Ohio May 12, 1996.
35. PSG and MSLT in Kleine-Levin Syndrome and Periodic Hypersomnia. American Professional Sleep Society. San Francisco, CA. June 13, 1997. ✧
36. Is Whole Brain Radiation Therapy Needed for all Patients with Newly Diagnosed Brain Metastases Undergoing Stereotactic Radiosurgery? Submitted to ASTRO.
37. Adhalin deficiency in a patient with limb-girdle muscular dystrophy. 22nd Annual Neuroscience Residents' Day, Cleveland, OH, May 22, 1997.
38. Radiographic and clinical characteristics of children treated at the Cleveland Clinic for acute disseminated encephalomyelitis. S Friedman, B Cohen. 22nd Annual Neuroscience Residents' Day, Cleveland, OH, May 22, 1997. ✧
39. Defects in oxidative phosphorylation manifesting as psychotic encephalopathy in an adult. R Dukkupati BH Cohen. 22nd Annual Neuroscience Residents' Day, Cleveland, OH, May 22, 1997. ✧
40. Incidence of concussion in high school football players. W Langburt, N Akhtar, K O'Neill, B Cohen. 22nd Annual Neuroscience Residents' Day, Cleveland, OH, May 22, 1997. ✧
41. Mucopolysaccharidosis in an 18 year old man presenting with stroke. K O'Neill, B Cohen.. 22nd Annual Neuroscience Residents' Day, Cleveland, OH, May 22, 1997. ✧
42. Is Whole Brain Radiation Therapy Needed For All Patients with Newly Diagnosed Brain Metastases Undergoing Stereotactic Radiosurgery? American Society for Therapeutic Radiation Oncology. Orlando, FL. October 21, 1997.

43. Disorders of Oxidative Metabolism in Children Undergoing Video-EEG monitoring. 1997 American Epilepsy Society Annual Meeting, Boston, MA. December 10, 1997. ◆
44. Defect in Mitochondrial Function Manifesting as Psychotic Encephalopathy. 1st Mitochondrial Medicine Conference. San Diego, CA, February 21, 1998. ◇
45. Fatal Status Epilepticus In A 9-Year Old Girl Due to A Defect Mitochondrial Electron Transport Chain Complex II. 1st Mitochondrial Medicine Conference. San Diego, CA, February 21, 1998.
46. Disorders of Oxidative Metabolism Presenting as Paroxysmal Non-Epileptic Disorders. 1st Mitochondrial Medicine Conference. San Diego, CA, February 21, 1998. ◆
47. Systemic T cell adoptive immunotherapy of malignant gliomas. AACR, New Orleans, LA. March 1998.
48. Reversible Cardiomyopathy/Myopathy Due to a Disorder of Long Chain Fatty Acid Metabolism. 23rd Annual Neuroscience Residents' Day, Cleveland, OH, May 14, 1998. ◇
49. The Spectrum of Mitochondrial Complex I Deficiencies: A Biochemical and Clinical Study. American Academy of Neurology Annual Meeting, Toronto, CA, April 21, 1999. ◆
50. HYPERLINK "abs/cohen.html"Polarographic and Spectrophotometric Analysis of 80 Patients with Mitochondrial Cytopathies: A Clinical, Biochemical, and Pathologic Study. Euromit 4. Cambridge, Great Britain, September 16, 1999. ◆
51. HYPERLINK "abs/saneto.html"Well Known Neurological Conditions That Have An Associated Electron Transport Chain Deficiency. Euromit 4. Cambridge, Great Britain, September 17, 1999. ◆
52. Neurocognitive Status in children with medulloblastoma following reduced-dose craniospinal radiotherapy and chemotherapy. Child Neurology Society Annual Meeting, Nashville, TN, October 14, 1999.
53. Characterization of Biochemical and Clinical Features of Children with Electron Transport Chain Complex III Deficiency. Child Neurology Society Annual Meeting, Nashville, TN, October 16, 1999. ◆
54. Making Sense of Respiratory Chain Analysis. Mitochondrial Symposium. National Institutes of Health, Bethesda, MD, March 14, 2000. ◆
55. Clinical, Genetic and Histopathologic Findings in Two Siblings with Muscle-Eye-Brain Disease. The Association for Research in Vision and Ophthalmology Meeting in Ft. Lauderdale, FL, April 30- May 5, 2000, The American Academy of Ophthalmology Meeting in Dallas, TX, October 20-25, 2000.
56. MRS Detection of CNS Lactate Peaks in Primary Mitochondrial Cytopathies. 53rd American Academy of Neurology Meeting, Philadelphia, PA. May 8, 2001. ◇
57. Ultrastructural Skin Changes in Mitochondrial Disorders (P01.069). 53rd American Academy of Neurology Meeting, Philadelphia, PA. May 8, 2001.
58. A Population of Rett and Angelman Syndrome Patients has an Associated Electron Transport Chain Defeciciency. Mitochondria 2001, San Diego, Feb 28-March 2, 2001. ◇
59. A Population of Rett and Angelman Syndrome Patients has an Associated Electron Transport Chain Defeciciency. CCF Neuroscience Residents Day, Cleveland Clinic Foundation, May 29, 2001. ◇
60. Ultrastructural Skin Changes in Mitochondrial Disorders. CCF Neuroscience Residents Day, Cleveland Clinic Foundation, May 29, 2001.
61. Paroxysmal events in children with mitochondrial cytopathies and epilepsy. 30th Child Neurology Society Annual Meeting, Victoria, British Columbia, Canada, October 18, 2001. ◇
62. Status epilepticus in mitochondrial disorders. 30th Child Neurology Society Annual Meeting, Victoria, British Columbia, Canada, October 18, 2001. ◇
63. Oxidative Phosphorylation as a Tool for Diagnosis of Defects in Mitochondrial Energy Metabolism. American Academy of Neurology 54th Annual Meeting. ◆
64. Clinical and biochemical manifestations of an adult-onset Phenotype of a rare vitamin B12 deficiency of the cblC class. CCF Neuroscience Residents Day, Cleveland Clinic Foundation, May 10, 2002. ◇
65. Treatment Results with Radiotherapy Alone. 5th Congress of the European Association of Neuro-Oncology, 2002.
66. Epilepsia Partialis Continua Associated with Mitochondrial Electron Transport Chain Dysfunction. 31st Annual Meeting of the Child Neurology Society, Washington DC, October 10, 2002. ◇

67. Early Recovery from Locked-In Syndrome in an Adolescent with Vertebral Artery Dissection. American Society of Neuroimaging 28th Annual Meeting, March 3-6, 2005.
68. Psychiatric Co-Morbidity in Patients with Mitochondrial Diseases, The United Mitochondrial Disease Foundation Annual Meeting, St. Louis, MO, June 14, 2005. ✧
69. A pilot study of intensive chemotherapy with peripheral stem cell support for infants with malignant brain tumors. A Consensus and State-of-the-Art Workshop Marrow Ablative Chemotherapy with Hematopoietic Stem Cell Rescue for Malignant Brain Tumors of Childhood and Adolescence. September 13, 2006, Milano, Italy ✧
70. Atypical teratoid/rhabdoid tumor therapy on infants and young children. A Consensus and State-of-the-Art Workshop Marrow Ablative Chemotherapy with Hematopoietic Stem Cell Rescue for Malignant Brain Tumors of Childhood and Adolescence. September 14, 2006, Milano, Italy. ✧
71. Polarographic and enzymatic defect in mitochondrial complex III caused by BCS1L mutations in a girl with clinical features of both Björnstad syndrome and GRACILE syndrome. 2007 Society for Inherited Metabolic Diseases Annual Meeting, Nashville, TN, March 25-28, 2007. ✧
72. Silver-Russell Syndrome, UPD 7 and mitochondrial dysfunction. 2007 Society for Inherited Metabolic Diseases Annual Meeting, Nashville, TN, March 25-28, 2007.
73. Children's' Cancer Study 99703: A pilot study of intensive chemotherapy with peripheral stem cell support for infants with malignant brain tumors. 59th American Academy of Neurology Annual Meeting, Boston, MA. May 3, 2007. ✧
74. Fatty Acid Oxidation in Human Skeletal Muscle Mitochondria Determined by Oxidative Phosphorylation as a Function of Age. United Mitochondrial Disease Foundation Symposium. San Diego, CA, June 12, 2007.
75. A Novel BCS1L mutation as a cause of Björnstad syndrome and GRACILE syndrome. United Mitochondrial Disease Foundation Symposium. San Diego, CA, June 12, 2007. ✧
76. Mitochondrial Toxicity of Cancer Chemotherapeutic Agents. 3rd International Mitochondrial Minisymposium: Mitochondria and Their Proteomics. Natcher Conference Center, National Institutes of Health, Bethesda, MD January 10, 2008. ✧
77. The Role of Nutritional Therapeutics and Exercise in the Treatment of Mitochondrial Disease: Methodology of Controlled Clinical Trials and the Role for Evidence Based Medicine. 3rd International Mitochondrial Minisymposium: Mitochondria and Their Proteomics. Natcher Conference Center, National Institutes of Health, Bethesda, MD January 10, 2008. ✧
78. OPA1 Mutations. United Mitochondrial Disease Foundation 2008 Symposium. Indianapolis, IN. June 25, 2008
79. Blue native gel electrophoresis as part of the evaluation for mitochondrial disorders. United Mitochondria Disease Foundation 2008 Symposium. Indianapolis, IN. June 25, 2008
80. The Relationship Between Mitochondrial Dysfunction and Autism. NIH-FDA-CDC-Department of Health and Human Services. Special Symposium: Mitochondrial Encephalopathies: Potential Relationships to Autism. Indianapolis, IN. June 29, 2008 ✧
81. Panel Participant: Evidence for Direct and Indirect Effects of Various Triggers and/or Events/Conditions That Disturb Oxidative Metabolism. NIH-FDA-CDC-Department of Health and Human Services. Special Symposium: Mitochondrial Encephalopathies: Potential Relationships to Autism. Indianapolis, IN. June 29, 2008 ✧
82. Objective response of multiply recurrent low-grade gliomas to bevacizumab and irinotecan. 13th International Symposium on Pediatric Neuro-Oncology. June 30, 2008, Chicago, IL
83. Outcomes of Patients with Acoustic Neuromas Treated with Gamma Knife Radiosurgery. 50th Annual ASTRO Meeting, Abstract #2155, Boston, MA, September 23, 2008
84. Objective response of multiply recurrent low-grade gliomas to bevacizumab and irinotecan. Child Neurology Society Annual Meeting. November 5, 2008
85. Quantitative assessment of mtDNA damage differentiates long-term and short-term survivors with glioblastoma. American Association of Cancer Research 101st Annual Meeting. April 17-21, 2010
86. Energy Metabolism in Human Skeletal Muscle. United Mitochondrial Disease Foundation Annual Symposium, Scottsdale, AZ, June 16-20, 2010.
87. Quantitative assessment of mtDNA damage differentiates long-term and short-term survivors with glioblastoma. United Mitochondrial Disease Foundation Annual Symposium, Scottsdale, AZ, June 16-20, 2010.

88. Mitochondrial Cytopathies. American Association of Neuromuscular & Electromyography Clinical Medicine 57th Annual Meeting. Québec City, Canada, October 7, 2010. ♦
89. Mitochondrial respiratory chain dysfunction has a common expression signature in human muscle and fibroblasts at the level of multiple biochemical and transcription factor target pathways. SIMD 2011 Meeting, Asimolar, CA, March 2, 2011.
90. Clinical Findings of Results from a Pilot Study of EPI-743. The United Mitochondrial Disease Foundation Annual Symposia. Schaumburg, IL. June 17, 2011. ♦
91. Clinical and Radiographic Evidence for ATQ₃ (EPI-743) Neuroprotection in Mitochondrial Disease. Child Neurology Society Annual Meeting. Savannah. GA. October 27, 2011.
92. Therapeutics and Targets for Mitochondrial Disease. Pediatric Neurology Symposium. American Academy of Neurology, Annual Meeting Scientific Session, New Orleans, LA, April 24, 2012. ♦
93. OnabotulinumtoxinA Injections in Treatment of Motor Tics and Associated Dystonia in an Adolescent: Case Report and Review of the Literature"
94. NextGen Sequencing as a Tool to Assist in Diagnosis and Expedite Treatment: RAPSN Congenital Myasthenic Syndrome. Annual Meeting of the American Academy of Neurology, Poster Session-Child Neurology and Development II, Philadelphia, PA, April 29, 2014. ♦
95. International Web-Based Survey on Evaluation of Global Developmental Delay. 2014 Annual Meeting of the Child Neurology Society, Columbus, OH, October 11, 2014. ♦
96. Effects of Elamipretide in Adults with Primary Mitochondrial Myopathy: a Phase 2 Double-Blind, Randomized, Placebo-Controlled Crossover Trial. UMDF Symposium, Alexandria, VA, June 30, 2017.
97. North American Mitochondrial Disease Consortium Update. UMDF Symposium, Alexandria, VA, June 30, 2017.
98. Retrospective Analysis of Healthcare Utilization in Patients with Primary Mitochondrial Disease. Muscle Study Group Meeting: Models of Neuromuscular Disease Across the Lifespan, Snowbird Ski & Summer Report, Snowbird, UT, September 24, 2017. ♦
99. Retrospective Analysis of Healthcare Utilization in Patients with Primary Mitochondrial Disease. Poster E29, Academy of Managed Care Pharmacy Nexus, Dallas, TX, October 17, 2017. ♦
100. Effects of Elamipretide in Adults with Primary Mitochondrial Myopathy: a Phase 2 Double-Blind, Randomized, Placebo-Controlled Crossover Trial (MMPOWER-2). Platform S5:003, American Academy of Neurology, Los Angeles CA, April 22, 2018: ♦
101. Mitochondrial disease phenotypes of 999 patients in the North American Mitochondrial Disease Consortium. P1.141, American Academy of Neurology, Los Angeles CA, April 22, 2018:
102. Development of diagnostic criteria to facilitate research in mitochondrial disorders: a proposal from the North American Mitochondrial Disease Consortium. Poster 2:013, American Academy of Neurology, Los Angeles CA, April 23, 2018: ♦
103. The challenge of genetic diagnoses in patients with mitochondrial disease: data from the North American Mitochondrial Disease Consortium (NAMDC). UMDF Symposium, Nashville, TN, June 27, 2018.
104. Retrospective, Comparative, Cohort Analysis of Health Care Utilization for Neurological Disorders in Patients with Mitochondrial Disease, Multiple Sclerosis, and Amyotrophic Lateral Sclerosis.). UMDF Symposium, Nashville, TN, June 27, 2018. ♦
105. Development of diagnostic criteria to facilitate research in mitochondrial disorders: a proposal from the North American Mitochondrial Disease Consortium (NAMDC). UMDF Symposium, Nashville, TN, June 27, 2018
106. Elamipretide in the MMPOWER-2 open-label extension trial (OLE): Long-term safety and tolerability. AANEM Annual Meeting, Washington DC, October 10, 2018. ♦
107. RePOWER: A Global Prospective Observational Registry Capturing Demographic Information on Patients with Primary Mitochondrial Myopathy. AussieMit 2018, Melbourne, Australia, November 30, 2018. ♦
108. Transition of Care from Child to Adult Neurologists: Implementation and Financial Strategies for Child and Adult Neurologists. American Academy of Neurology Annual Meeting. Philadelphia, PA. May 8, 2019. ♦
109. Induced Pluripotent Stem Cells as Models for Studying Mitochondrial Disease, United Mitochondrial Disease Foundation Annual Meeting, Alexandria, VA. June 27, 2019. ♦

110. Leigh Syndrome Roadmap Project. United Mitochondrial Disease Foundation Annual Meeting, Alexandria, VA. June 27, 2019. ♦
111. Elamipretide in Adults with Primary Mitochondrial Myopathy: MMPOWER-2 . United Mitochondrial Disease Foundation Annual Meeting, Alexandria, VA. June 27, 2019. ♦
112. MMPOWER-3 Study Design: A phase 3, Randomized, Double-Blind, Placebo-Controlled Trial of Elamipretide in Primary Mitochondrial Myopathy. AANEM Annual Meeting, Austin, TX, October 17, 2019. ♦
113. Baseline Demographics of MMPOWER-3: A Clinical Trial of Elamipretide in Primary Mitochondrial Myopathy. AANEM Annual Meeting, Austin, TX, October 17, 2019.
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Invited Presentations and Course Lectures

- 1.The Child with a Brain Tumor. Symposium for Educators of Elementary and High School Students with Cancer, Philadelphia, PA, December 1987.
- 2.Neurological Aspects of Neurofibromatosis. Neurology Grand Rounds, Hospital of the University of Pennsylvania, February 4, 1988.
- 3.Long-term Neurological Effects of Cancer Therapy. Symposium for Teachers and Parents, Learn Conference, Philadelphia, PA, April 29, 1988.
- 4.Pediatric Brain Tumors: Pediatric Grand Rounds, The Cleveland Clinic Foundation, May 24, 1988.
- 5.Neurological Effects of Therapeutic Irradiation: Neurology Grand Rounds, The Cleveland Clinic Foundation, May 25, 1988.
- 6.Long-term Neurological Effects of Cranial and Spinal Irradiation. Symposium for Teachers and Parents, Learn Conference, Philadelphia, PA, November 11, 1988.
- 7.Learning Disabilities in Neurofibromatosis Type 1: 10th Annual Meeting, The National Neurofibromatosis Foundation, Inc., Philadelphia, PA, November 12, 1988.
- 8.The Child with a Brain Tumor. Symposium for Educators of Elementary and High School Students with Cancer, Philadelphia, PA, December 2, 1988.
- 9.Learning Disabilities in Neurofibromatosis: Meeting of the Ohio Chapter of the National Neurofibromatosis Foundation, Inc., Cleveland, OH, April 9, 1989.
- 10.Research Progress in Neurofibromatosis: 1989 Northeastern Regional Seminar, Sponsored by Singles Helping Others. Princeton, NJ, April 29, 1989 Neurofibromatosis: Pediatric Grand Rounds, The Cleveland Clinic Foundation, September 12, 1989.
- 11.Neurofibromatosis Update: Neuro- ophthalmology Grand Rounds, The Cleveland Clinic Foundation, September 22, 1989.
- 12.Cancer in Neurofibromatosis: The Cleveland Clinic Cancer Grand Rounds, The Cleveland Clinic Foundation, October 3, 1989.
- 13.Management of Nervous System Neoplasms in Children with Neurofibromatosis. The Children's Cancer Study Group, Neurology Committee and Brain Tumor Strategy Committee, Denver, November 4, 1989.
- 14.The Role of Actinomycin- D in Future Pediatric Brain Tumor Trials. The Children's Cancer Study Group, New Agents Committee, Denver, November 4, 1989.
- 15.The Neurological Aspects of Neurofibromatosis Type 1. Neurology Grand Rounds, The Cleveland Clinic Foundation, February 19, 1990.
- 16.Clinical Aspects of Neurofibromatosis Type 1 and 2. ENT Grand Rounds, The Cleveland Clinic Foundation, March 3, 1990.
- 17.The Medical Approach to the Patient with Neurofibromatosis. Medical Grand Rounds, The Cleveland Clinic Foundation, March 29, 1990.
- 18.New Chemotherapeutic Approaches in the Treatment of Children with Brain Tumors. Pediatric Grand Rounds, Mount Sinai Hospital, Cleveland, Ohio, March 30, 1990.
- 19.Clinical Overview. Neurofibromatosis Type 2. Neurofibromatosis Symposium, Boston, April 28, 1991.

20. The Dying Child: End of Life Decisions. Pediatric Grand Rounds, The Cleveland Clinic Foundation, May 1, 1990.
21. Association of Cancer in Neurofibromatosis Types 1 and 2. Lecture for Medical Professionals, Patients and Families. The Ohio Chapter of The National Neurofibromatosis Association. Cleveland, OH, June 3, 1990.
22. Pediatric Brain Tumor Clinic Report. The Cleveland Clinic Cancer Center Grand Rounds. June 12, 1990.
23. Childhood Brain Tumors. EEG Technologist Rounds. The Cleveland Clinic Foundation. October 5, 1990.
24. The Neurological Assessment of Children and Adolescence with Psychiatric Symptoms. Pediatric Neurology Update. The Cleveland Clinic Foundation. October 31, 1990.
25. Unusual Brain Tumors. Pediatric Neurology Update. The Cleveland Clinic Foundation. October 31, 1990.
26. Management of Minor Head Trauma in Children. Pediatric Neurology Update. The Cleveland Clinic Foundation. October 31, 1990.
27. Medical Aspects of Mental Retardation in Children. Professional Association for Retardation. 1990 Convention. Columbus, Ohio. November 5, 1990.
28. Medical Aspects of Epilepsy in Children. Professional Association for Retardation. 1990 Convention. Columbus, Ohio. November 5, 1990.
29. Headaches in Children. St. John's Westshore Pediatric Workshop. Marriott Hotel, Cleveland, Ohio. November 14, 1990.
30. The Neurological Assessment of Children Presenting with Psychiatric Symptoms. Neuroscience Grand Rounds, The Cleveland Clinic Foundation, November 26, 1990.
31. Pediatric Brain Tumor Case Reports: Brainstem Ganglioglioma and Cauda Equina Primitive Neuroectodermal Tumor. Cancer Center Grand Rounds, The Cleveland Clinic Foundation, November 27, 1990.
32. Craniopharyngioma in Children: Controversies in Diagnosis and Treatment. Mount Sinai Hospital, Department of Pediatrics, Grand Rounds. December 7, 1990.
33. Neurological Aspects of Neurofibromatosis Type 1. Neurofibromatosis Symposium For Medical Professionals, Patients and Families. Ft. Lauderdale, FL, March 9, 1991.
34. Neurological Aspects of Neurofibromatosis Type 2. Neurofibromatosis Symposium, Ft. Lauderdale, FL, March 9, 1991.
35. Neurological Exam in Children with Cancer. Pediatric Oncology Nurses, Rainbow Babies and Children's Hospital, Cleveland, OH. March 21, 1991.
36. Ethical Issues in Neurology. John Jay High School Science Symposium, Cleveland OH. March 22, 1991.
37. Neurological Causes of Psychiatric Symptoms in Childhood. Pediatric Grand Rounds, The Cleveland Clinic Foundation, April 2, 1991.
38. Anticonvulsant Medication in the Difficult Patient with Seizures. Comprucare Symposium, The Cleveland Clinic Foundation, May 4, 1991.
39. Learning Disabilities in Neurofibromatosis. Lecture for Medical Professionals, Patients and Families. The Ohio Chapter Annual Neurofibromatosis Symposium, Cleveland, Ohio, May 5, 1991.
40. Management Strategies for Children with Craniopharyngiomas. Pediatric Grand Rounds, The Cleveland Clinic Foundation, May 21, 1991.
41. Actinomycin-D Neurotoxicity. Rainbow Babies & Children's Hospital Tumor Board, May 30, 1991.
42. High-Dose Chemotherapy with Bone Marrow Rescue in Children with Recurrent Malignant Brain Tumors. Neuroscience Grand Rounds, The Cleveland Clinic Foundation, June 24, 1991.
43. The Clinical Aspects of Neurofibromatosis Types 1 and 2. Special Lecture. Great Lakes Rehabilitation Hospital and The Hamot Medical Center. Erie, PA, July 17, 1991.
44. Effects of Neurosurgery and Radiotherapy on Patients with Brain Tumors. Caring Touch Conference. Ritz-Carlton Hotel, Cleveland, OH, September 29, 1991.
45. Adjunctive Therapies in Children with Brain Tumors. Pediatric Rehabilitation Conference, sponsored by Great Lakes Rehabilitation Hospital. Hilton Hotel South, Cleveland, OH, January 18, 1992.

46. Neurofibromatosis 1992 Update: NF1 and NF2. Neuroscience Grand Rounds, The Cleveland Clinic Foundation, February 24, 1992.
47. Molecular Genetics and Neurofibromatosis 1: An Introductory Discussion for the Pediatrician. Pediatric Grand Rounds, The Cleveland Clinic Foundation, March 3, 1992.
48. Ethical Aspects of Anencephaly. Medical Ethics, Shaker Heights High School. March 19, 1992.
49. Neurological Conditions in Children and Adolescents Presenting with Psychiatric Problems. Psychiatry Rounds. March 24, 1992.
50. Advances in the Treatment of Brain Tumors in Children. Child Neurology Course, The American Academy of Pediatrics. New York City. April 14, 1992.
51. Medical Management of Adults with Neurofibromatosis. Annual Meeting of The Ohio Chapter of The Neurofibromatosis Foundation, Cleveland, OH. April 26, 1992.
52. Recurrent Brain Tumors in Children. Pediatric Tumor Board, Rainbow Babies and Children's Hospital, Cleveland, OH. July 23, 1992.
53. Neurological and Behavioral Outcome in Children with Craniopharyngiomas: Is There a Case for Less Aggressive Surgery? Health Hill Hospital Grand Rounds, Cleveland, OH. September 1, 1992.
54. Treatable Neuromuscular Diseases. Update 1992. Pediatric Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH. September 22, 1992.
55. Epilepsy and Metabolic Disease. American Epilepsy Society 1992 Meeting, Seattle, WA, December 6, 1992.
56. Epilepsy and Metabolic Disease. Epilepsy Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH. January 27, 1993.
57. Epilepsy and Metabolic Disease. Pediatric Grand Rounds, Metro Health Center, Cleveland, OH. February 4, 1993.
58. Overview of Current Phase II and III Studies in Childhood Brain Tumors. Children's Cancer Group Affiliates Meeting, Columbus, OH, February 12, 1993.
59. The Treatment of High-Grade Astrocytomas with High-Dose Chemotherapy and Autologous Marrow Rescue. Cancer Center Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH. February 23, 1993.
60. Paroxysmal Non-Epileptiform Disorders. American Academy of Neurology Annual Course. New York, NY, May 1, 1993.
61. Paroxysmal Non-Epileptic Disorders. American Academy of Neurology Annual Course. New York, New York, May 1, 1993.
62. Neurological Causes of Learning Disabilities. 1993 Meeting of The Ohio Learning Disabilities Association. Cleveland, OH. October 7, 1993.
63. Paroxysmal Non-Epileptic Disorders. Epilepsy and Related Disorders in Children, Pediatric Neurology Course, The Cleveland Clinic Foundation. November 3, 1993.
64. Pediatric Brain Tumors: Advances of the Last Decade. Metro Hospital, Pediatric Grand Rounds, Cleveland, OH. December 9, 1993.
65. Pediatric Brain Tumors: Advances of the Last Decade. Fairview General Hospital, Pediatric Grand Rounds, Cleveland, OH. December 17, 1993.
66. Pediatric Brain Tumors: Overview, Advances and Effects of Therapy. Mt. Sinai Hospital, Pediatric Grand Rounds, Cleveland, OH. May 20, 1994.
67. Paroxysmal Non-Epileptiform Disorders. American Academy of Neurology Annual Course. New York, NY, May 2, 1994.
68. The Role of Adjuvant Chemotherapy in the Treatment of Brain Tumors. International College of Surgeons. Cleveland, Ohio, June 11, 1994.
69. Leptomeningeal Carcinomatosis. Neurology Grand Rounds. The Cleveland Clinic Foundation. October 12, 1994.
70. Non-Epileptic Disorders. Epilepsy and Related Disorders in Children, Pediatric Neurology Course, The Cleveland Clinic Foundation. November 2, 1994.
71. Progress in Pediatric Brain Tumors: 1985-1995. Pediatric Grand Rounds, The Cleveland Clinic Foundation. January 24, 1995.
72. Leptomeningeal Carcinomatosis: New Treatments. Cancer Center Grand Rounds. The Cleveland Clinic Foundation. January 27, 1995.

73. Leptomeningeal Carcinomatosis: Impact of New Treatments on Pediatric Cancers. Ohio State University Children's Hospital of Columbus CCG Affiliated Meeting. Columbus, Ohio, February 16, 1995.
74. The History of Chemotherapy for Brain Tumors. Frontiers in Neuroscience Course, The Cleveland Clinic Foundation. February 26, 1995.
75. Metastasis Cerebrales. Curso Internacional de Actualizacion en Neurologia. Hospital Central Militar, Mexico City, Mexico, March 7, 1995.
76. Tratamiento Actual de los Tumores Cerebrales Primarios. Curso Internacional de Actualizacion en Neurologia. Hospital Central Militar, Mexico City, Mexico, March 7, 1995.
77. Paroxysmal Non-Epileptiform Disorders. American Academy of Neurology Annual Course. Seattle, WA, May 8, 1995.
78. Neurologic Causes of Headaches. American Academy of Neurology Annual Course. Seattle, WA, May 8, 1995.
79. Thalidomide as a Potent Inhibitor of Angiogenesis: Possibilities for Utility in Neurofibromatosis. Presented at The NNFF International Consortium for Molecular Biology of NF1 and NF2, Philadelphia, PA. July 16, 1995.
80. Non-Epileptic Disorders. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. July 19, 1995.
81. The Hypotonic Infant. Review Course in Pediatric Neurology. Cleveland Clinic Foundation. November 29, 1995.
82. Thalidomide as a Potent Inhibitor of Angiogenesis: Possibilities for Utility in Neurofibromatosis. Department of Neurology Grand Rounds, November 22, 1995.
83. Pyruvate and Mitochondrial Metabolism. Epilepsy Grand Rounds. The Cleveland Clinic Foundation. March 7, 1996.
84. Paroxysmal Non-Epileptic Disorders. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. July 16, 1996.
85. Mitochondrial Cytopathy and Oxidative Stress: It's Not Just for Kids Anymore. Neurology Grand Rounds. The Cleveland Clinic Foundation. October 30, 1996.
86. Mitochondrial Cytopathy in Pediatrics. Pediatric Teaching Conference. Rainbow, Babies and Children's Hospital. April 17, 1997.
87. Paroxysmal Non-Epileptic Disorders. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. August 1997.
88. Mitochondrial Cytopathy in Pediatrics. Pediatric Grand Rounds. The Cleveland Clinic Foundation. September 23, 1997.
89. ICD-9 and CPT Coding for the Child Neurologist. Breakfast Seminar. Child Neurology Society Annual Meeting. Phoenix, AZ, October 30, 1997.
90. Thalidomide for the Treatment of Plexiform Neurofibromas in Neurofibromatosis Type 1. Breakfast Seminar. Child Neurology Society Annual Meeting. Phoenix, AZ, October 31, 1997.
91. Rationale Strategies for Treating Plexiform Neurofibromas and Optic Gliomas in Patients with NF1. Neurofibromatosis Symposium, Ohio Chapter NF Foundation, Cleveland, OH, November 9, 1997.
92. Defect in Mitochondrial Function Manifesting as Psychotic Encephalopathy. International Mitochondrial Medicine Conference, San Diego, CA, February 21, 1998.
93. Fatal Status Epilepticus In A 9-Year Old Girl Due to A Defect Mitochondrial Electron Transport Chain Complex II. International Mitochondrial Medicine Conference, San Diego, CA, February 21, 1998.
94. Disorders of Oxidative Metabolism Presenting as Paroxysmal Non-Epileptic Disorders. International Mitochondrial Medicine Conference, San Diego, CA February 21, 1998.
95. Dystonia and Oxidative Phosphorylation. Orthopedic Grand Rounds. Cleveland Clinic Foundation. March 2, 1998.
96. Mitochondrial Cytopathy in Adults: It's not Just for Kids Anymore. University Hospitals of Cleveland, Department of Neurology Grand Rounds. March 6, 1998.
97. New Treatment Strategies for Adult High-Grade Astrocytomas. Rhone-Pollenc Rorer Seminar. Cleveland, OH July 9, 1998.
98. Paroxysmal Non-Epileptic Disorders. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. August 28, 1998.
99. Treatments for Adult High-Grade Astrocytomas. Neurosurgical Seminar, Rhone-Pollenc Rorer Seminar. Columbus, OH September 23, 1998.
100. Mitochondrial Disease in Children. Pediatric Anesthesia Nursing In-Service Seminar. Cleveland Clinic Foundation, September 28, 1998.

101. What do Department Chairmen need to know about CPT Coding? Annual Professors of Child Neurology Meeting, Toronto, Ontario, October 21, 1998.
102. Energy Metabolism in Malignant Glioma: Possibilities for Therapy. 1st Annual Cleveland Clinic Foundation Brain Tumor Symposium. Naples, FL. February 16, 1999.
103. Chemotherapy for Plexiform Neurofibromas. 1st Annual Cleveland Clinic Foundation Brain Tumor Symposium. Naples, FL. February 17, 1999.
104. Newborn Metabolic Emergencies. Combined Metro-CCF Neonatal Lecture Series. Metro Health Medical System, March 23, 1999.
105. Treatments for Adult High-Grade Astrocytomas: The Role for Implantable Chemotherapy Delivery Systems. Rhone-Pollenc Rorer Seminar, Harrisburg, PA, May 5, 1999.
106. Chemotherapy and Malignant Astrocytomas: The Failure of Past Therapies and the Potential for Success with New Treatment Modalities. Sacred Heart Hospital 1st Annual Neuroscience Symposium. Allentown, PA, May 6, 1999.
107. Overview of Mitochondrial Cytopathy: Clinical, Pathologic, Biochemical, Genetic and Treatment Survey. Cleveland Clinic Foundation Seminar. Cleveland, OH, May 16, 1999.
108. Mitochondrial Diseases: Recognition of Abnormal Mitochondrial Function. Pediatric Grand Rounds, Rainbow, Babies and Children's Hospital. June 17, 1999.
109. Medical Therapeutic Strategies for Neurofibromatosis I: Cis-Retinoic Acid, Interferon Alpha and Thalidomide. Pediatric Grand Rounds. University of Florida at Gainesville, Gainesville, FL. July 9, 1999.
110. Chemotherapy and Malignant Astrocytoma: Molecular Genetics, Therapeutic Failures and Hope with New Treatments. Danville, PA. July 27, 1999.
111. Management Strategies for Low-Grade Astrocytomas. Current Management of Neurological Disorders. Cleveland Clinic Foundation. Cleveland Marriott Hotel. Cleveland OH. August 13, 1999.
112. Paroxysmal Non-Epileptic Disorders. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. September 1, 1999.
113. The Muscular Dystrophies. Intensive Review of Pediatrics, The Cleveland Clinic Foundation. September 3, 1999.
114. The Clinical Manifestations of Neurofibromatosis I. The Brain and Learning: Educational Implications of Neurological and Psychiatric Disorders. 4th Annual CCF Learning Assessment Clinic Lecture Series. Cleveland, OH. December 3, 1999.
115. Making Sense of Respiratory Chain Analysis. National Institutes of Health Mini-symposium on Mitochondrial Diseases. National Institutes of Health, March 14, 2000.
116. Disorders of Oxidative Phosphorylation and their Relationship with Epilepsy. Epilepsy and Sleep Disorders Grand Rounds. Cleveland Clinic Foundation, March 23, 2000.
117. Adult Presentations of Mitochondrial Disorders. Internal Medicine Grand Rounds, University Hospitals of Cleveland. April 18, 2000.
118. Clinical Presentations of Mitochondrial Cytopathy in Children and Adults. United Mitochondrial Disease Foundation Annual Symposium: Mitochondrial Cytopathy 2000. Cleveland, OH. June 1, 2000.
119. Mitochondrial Cytopathy in Children. Pediatric Grand Rounds. Cleveland Clinic Foundation. October 17, 2000.
120. Mitochondrial Cytopathy: An Overview for Occupational and Physical Therapists. Cleveland Clinic Foundation. October 12, 2000.
121. Commonly Asked Questions by Parents and Caregivers. UMDF Ohio Chapter Meeting. October 21, 2000.
122. Overview of the Clinical Aspects of Mitochondrial Cytopathies. Cleveland Clinic Neuroscience Nursing Conference, Cleveland Ohio. November 16, 2000.
123. ICD-9 and CPT Coding for Neurologists in 2001. Children's Hospital of Michigan-Wayne State University Medical Center Neurology Grand Rounds. December 15, 2000.
124. Mitochondrial Cytopathies in Adults. Department of Neurology Grand Rounds, Medical College of Ohio. Toledo, OH, February 15, 2001.
125. High-Grade Gliomas in Children, Brain Tumor and Neuro-Oncology Symposium. Naples, FL February 16-20, 2001.

126. Clinical Trial Design, Brain Tumor and Neuro-Oncology Symposium. Naples, FL February 16-20, 2001
127. Distinguished Doctors Panel: Possible Therapies for Mitochondrial Diseases, United Mitochondrial Disease Foundation Meeting, San Diego, CA March 4, 2001.
128. Distinguished Doctors Panel: Ask the Doctor, United Mitochondrial Disease Foundation Meeting, San Diego, CA March 4, 2001.
129. Overview and Highlights of the Physician, United Mitochondrial Disease Foundation Meeting, San Diego, CA March 4, 2001.
130. Mitochondrial Cytopathy. Pediatric Grand Rounds. Fairview Hospital. April 13, 2001.
131. Overview of Mitochondrial Cytopathy: Past, Present and Future. Ohio Chapter United Mitochondrial Disease Foundation Symposium, Seminar for Medical Professionals, Patients and Families. Cleveland Clinic Foundation. Cleveland, OH. June 10, 2001.
132. Mitochondrial Cytopathy in Children. Akron Children's Hospital Grand Rounds. July 13, 2001.
133. Mitochondrial Cytopathy in Epilepsy. Epilepsy Grand Rounds, Cleveland Clinic Foundation, January 4, 2002.
134. Apoptosis and Mitochondrial Function in Malignant Gliomas: Potentials for Therapeutic Intervention. Neuro-Oncology 2002: Current Concepts, The Fourth Annual CCF Brain Tumor Symposium. Naples, FL, February 2, 2002.
135. Neurological Aspects of Mitochondrial Disorders. United Mitochondrial Disease Foundation Conference on Epidemiology. Pittsburgh, PA. February 19, 2002
136. Neonatal Metabolic Emergencies. Neonatology Grand Rounds, Metro General Hospital, Cleveland, OH. Mar 12, 2002.
137. Oxidative Phosphorylation as a Tool for Diagnosis of Defects in Mitochondrial Energy Metabolism. American Academy of Neurology 54th Annual Meeting. Denver, CO, April 15, 2002.
138. Mitochondrial Cytopathy in the Setting of a Person with a Developmental Disability. 11th Annual National Developmental Disability Conference. California Department of Developmental Services. San Diego, CA, April 30, 2002.
139. Mitochondrial Cytopathy. Western Pennsylvania School for the Blind. Pittsburgh, PA May 20, 2002.
140. Ask the Doctor. UMDF Mitochondrial Symposium, Lecture for Medical Professionals, Patients and Families. Patient Section. Dallas, TX, June 8, 2002.
141. Mitochondrial Basics for the Newly Diagnosed. Lecture for Medical Professionals, Patients and Families. UMDF Mitochondrial Symposium, Patient Section Dallas, TX, June 8, 2002.
142. Neurological Aspects of Mitochondrial Diseases. UMDF Mitochondrial Symposium, Scientific and Clinical Section, Dallas, TX June 9, 2002.
143. Mitochondrial Cytopathy. Neurology Grand Rounds, Cleveland Clinic Foundation, July 15, 2002.
144. Kearns-Sayre Syndrome and Other Mitochondrial Disorders Associated with Epilepsy. Epilepsy Grand Rounds. Cleveland Clinic Foundation. August 16, 2002.
145. Mitochondrial Cytopathy: A Primer. Cleveland Clinic Children's Hospital for Rehabilitation, Grand Rounds, September 20, 2002.
146. Coding Update for Pediatric Neurologists. Breakfast Seminar, 31st Annual Meeting of the Child Neurology Society, Washington DC, October 11, 2002.
147. Clinical Trials in Pediatric Neuro-Oncology. 4th Annual Cleveland Clinic Neuro-Oncology Symposium, Orlando, FL January, 13, 2003.
148. Mitochondrial Disorders in Adults. Internal Medicine Grand Rounds, Medical College of Ohio, Toledo, OH March 13, 2003.
149. Clinical Aspects of Mitochondrial Disorders. Society of Pediatric Pathology Annual Symposium, Washington, D.C., March 22, 2003.
150. The Beginning of the Future of Mitochondrial Medicine. Address to The Mitochondrial Medicine Society, June 13, 2003, San Diego, CA
151. The Office Management of Patients with Mitochondrial Disorders. California Chapter of the United Mitochondrial Disease Foundation, June 13, 2003, San Diego, CA.
152. Paroxysmal Non-Epileptiform Disorders, 9th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, August 27, 2003.

153. Mitochondrial Cytopathy in Adults, Fairview Hospital Medicine Grand Rounds, November 24, 2003, Cleveland, OH
154. The Neurological Aspects of Mitochondrial DNA Disorders. Department of Neurology Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH, March 1, 2004.
155. Mitochondrial Disorders in Children, Department of Pediatrics Grand Rounds, St. Louis Children's Hospital, April 9, 2004.
156. Clinical Features of Mitochondrial Diseases, Southwest Chapter of The United Mitochondrial Disease Foundation, St. Joseph's Hospital, Phoenix, AZ, April 24, 2004.
157. Mitochondrial Disorders in Children, Department of Pediatrics Grand Rounds, Phoenix Children's Hospital, April 27, 2004.
158. Clinical Features of Mitochondrial Diseases, New England Chapter of The United Mitochondrial Disease Foundation, Westin Hotel, Boston, MA May 11, 2004.
159. Towards a Consensus for the Clinical and Laboratory Diagnosis of Mitochondrial Disease, Mitochondria 2003, The Annual Meeting of the Mitochondrial Medicine Society, June 14, 2003
160. Is an International Consensus Realistic? Mitochondria 2003, The Annual Meeting of the Mitochondrial Medicine Society, June 14, 2003
161. Symptom Management in Mitochondrial Disorders. Mitochondrial Medicine 2004: Streams of Energy. UMDF/MMS/MRS Symposium. Pittsburgh, PA. August 8, 2004.
162. Paroxysmal Non-Epileptiform Disorders, 10th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, August 27, 2004.
163. Mitochondrial Update 2004, Northeast Ohio Chapter of The United Mitochondrial Disease Foundation, Silver Lakes Country Club, Stow, OH October 10, 2004
164. Breaking The Codes (CPT Codes). Symposium IV, 33rd Annual Meeting of The Child Neurology Society, Ottawa, CA, October 15, 2004.
165. The Neurological Aspects of Common Mitochondrial DNA Disorders. Department of Neurology Grand Rounds, University of Pittsburgh Medical Center, Pittsburgh, PA October 20, 2004.
166. The Neurological Aspects of Common Mitochondrial DNA Disorders. Department of Neurology Grand Rounds, Medical College of Ohio, Toledo, OH October 28, 2004.
167. A General Overview of Mitochondrial Disorders. Hamot Medical Center Grand Rounds, Erie, PA December 9, 2004.
168. Mitochondrial Disorders in Children. St. Christopher's Children's Hospital Grand Rounds, Philadelphia, PA January 24, 2005.
169. Mitochondrial Disorders Affecting Adults. Aultman Hospital, Hospital Grand Rounds, Canton, OH January 26, 2005.
170. Mitochondrial Disorders – A General Overview. Aultman Institute Evening Education Seminar, Canton, OH January 26, 2005.
171. Metabolic Treatment of Glioblastoma and Malignant Brain Tumors. The Cleveland Clinic 7th Annual Neuro Oncology Symposium, Lake Buena Vista, FL, January 30, 2005.
172. Preliminary Outcome of Infants treated on CCG-99703. Medulloblastoma Symposium, Children's Oncology Group, Los Angeles, CA, April 1, 2005.
173. Gastrointestinal Complications of Mitochondrial Disorders Part I, CCF Pediatric GI Grand Rounds, April 20, 2005
174. Mitochondrial Disorders in Children. Atlanta Chapter of the United Mitochondrial Disease Foundation. Atlanta, GA, May 2, 2005.
175. Mitochondrial Disorders Affecting Adults. Atlanta Medical Center Hospital Grand Rounds. Atlanta, GA. May 3, 2005.
176. Clinical Diagnosis and Management of Mitochondrial Cytopathies. Miami Children's Hospital XXVI Annual Child Neurology 164. Postgraduate Course. Miami, FL. May 12, 2005.
177. Gastrointestinal Complications of Mitochondrial Disorders Part II, CCF Pediatric GI Grand Rounds, May 25, 2005
178. Symptom Management in Mitochondrial Disorders. Mitochondrial Medicine 2005: Gateway to A Cure. UMDF/MMS/MRS Conference. Hyatt Union Station, St. Louis, MO, June 18, 2005.
179. Mitochondrial Defects in Patients with Rett Syndrome, 6th Annual Rett Syndrome Research Foundation Symposium, Chicago, IL, June 28, 2005.

180. Brain Tumors in Infants: Results of Clinical Trials. International Brain Tumor Symposium, The Brain Tumor Institute, Cleveland Clinic Foundation, Cleveland, OH, August 11, 2005.
181. Twenty Neurology Case Studies for the Pediatric Boards, 11th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, September 1, 2005.
182. A pilot study of intensive chemotherapy with peripheral stem cell support for infants with malignant brain tumors: Preliminary results of the CCG-99703 Study. Stem Cell Transplant Educational Session. Children's Oncology Group. October 5, 2006, Los Angeles, CA.
183. RVUs and You. 35th Annual Meeting Child Neurology Society, Breakfast Seminar, Pittsburgh, PA, October 19, 2006.
184. Mitochondrial Cytopathy in Children. Pediatric Grand Rounds, Children's Mercy Hospital, Kansas City, MO. October 6, 2006.
185. Overview of the Clinical Features of Mitochondrial Disorders. Evening Seminar for Physicians, Nurses and Parents. Sponsored by The Kansas City Chapter of the UMDF. Kansas City, MO. October 6, 2006.
186. Mitochondrial Cytopathy in Adults. Medical Grand Rounds, University of Kansas Medical Center, Kansas City, KS. October 7, 2006.
187. Mitochondrial Diseases: Then and Now 1982-2005. Ohio Chapter UMDF Conference for Health Care Professionals, Patients and Families, Solon Community Center, OH. November 6, 2006.
188. Mitochondrial Diseases in Adults. Neurology Grand Rounds, Indiana University, Indianapolis, IN. February 2, 2006.
189. Brain Tumors in Children and Young Adults: Epidemiology, Classification, Molecular Diagnosis and Treatment. Department of Pediatrics Grand Rounds, Cleveland Clinic at Hillcrest Hospital. Mayfield Heights, OH. February 3, 2006.
190. Mitochondrial Enzymology: Biochemical and Clinical Correlation. Genetic Metabolic Dietary International Annual Meeting. Emory University Conference Center, Atlanta, GA. April 29, 2006.
191. Case Studies for the Pediatric Boards, 12th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, August 28, 2006.
192. Mitochondrial Disorders in Children. Seattle Children's Hospital Grand Rounds. Seattle, WA, November 9, 2006.
193. Introduction to Mitochondrial Disorders in Children and Adults. New England Chapter of the United Mitochondrial Disease Foundation, Springfield, MA. November 23, 2006.
194. Mitochondrial Disorders in Children. Baystate Medical Center Neurology Grand Rounds, Springfield, MA. November 24, 2006.
195. Mitochondrial DNA and Nuclear DNA Interactions as the Basis of Mitochondrial Disease. Neurology Grand Rounds, Nebraska Medical Center. Omaha, NE, January 4, 2007.
196. Overview of Mitochondrial Disorders. Pediatric Neurology Conference. Nebraska Medical Center. Omaha, NE. January 4, 2007.
197. Mitochondrial Diseases. Division of Medicine Grand Rounds. Cleveland Clinic, Cleveland, OH. January 11, 2007.
198. Mitochondrial DNA and Nuclear DNA Interactions as the Basis of Mitochondrial Disease. Pediatric Neurology Grand Rounds. Children's Hospital of Michigan, Wayne State University, Detroit, MI. January 17, 2007.
199. Introduction to Mitochondrial Diseases. Case Conference, Department of Pediatrics, University of Mississippi, Jackson, Mississippi. February 28, 2007.
200. Mitochondrial DNA and Nuclear DNA Interactions as the Basis of Mitochondrial Disease. Department of Pediatrics, University of Mississippi, Jackson, Mississippi. February 28, 2007.
201. Mitochondrial DNA and Nuclear DNA Interactions as the Basis of Mitochondrial Disease. Grand Rounds, Department of Medical Genetics, Henry Ford Medical Center, Detroit, MI. March 5, 2007.
202. Mitochondrial Disorders: The Interactions Between Two Genomes. Pediatric Grand Rounds, Scottish Rite Hospital, Children's Healthcare of Atlanta. August 21, 2007. Atlanta, GA
203. Case Studies for the Pediatric Boards, 13th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, August 27, 2007.
204. Mitochondrial Diseases in Children. Pediatric Grand Rounds. University of Minnesota, Minneapolis Campus, August 28, 2007, Minneapolis, MN

205. Mitochondrial Case Conference. Department of Pediatrics. University of Minnesota Duluth Campus. August 29, 2007 Duluth, MN
206. Mitochondrial Diseases in Children. Pediatric Grand Rounds. University of Minnesota, Duluth Campus, August 29 2007, Duluth, MN
207. Mitochondrial Diseases in Children. Pediatric Grand Rounds. University of Minnesota, St. Paul Campus, August 30, 2007, St. Paul, MN
208. Practical Aspects of Mitochondrial Diseases. 7th Annual Pediatric Neurology Review. Cleveland Clinic Foundation. September 7, 2007.
209. Mitochondrial Diseases in Children. Pediatric Grand Rounds. Arnold Palmer Hospital for Children, September 18, 2007, Orlando, FL
210. Mitochondrial Diseases in Children. Pediatric Grand Rounds. Columbus Children's Hospital, September 27, 2007, Columbus, OH
211. Update on Mitochondrial Disorders. United Mitochondrial Disease Foundation Mini-Symposium, Cuyahoga Falls, OH, November 11, 2007.
212. Mitochondrial Disorders in Children. Akron Children's Hospital Pediatric Neurology Rounds. Akron, OH. November 27, 2007.
213. Mitochondrial Disorders in Adults. Special Seminar, Neurocare, Inc. North Canton, OH. December 6, 2007.
214. POLG and the Adult Neurologist. Department of Neurology Grand Rounds, Cleveland Clinic Foundation. Cleveland, OH December 10, 2007
215. Mitochondrial Disorders in Adults. Department of Neurology Grand Rounds, Oregon Health Sciences University. Portland, OR. December 12, 2007.
216. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Portland, OR. December 12, 2007
217. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds, Oregon Health Sciences University. Portland, OR. December 13, 2007.
218. Neurological Presentations of Mitochondrial Disorders in Adults. Seminar, Department of Neurology, Cleveland Clinic Weston Branch, Weston, Florida, January 18, 2008.
219. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Chattanooga, TN. January 29, 2008.
220. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds, T.C. Thompson Children's Hospital, University of Tennessee, Chattanooga, TN, January 30, 2008.
221. Epilepsy as a Presentation of Mitochondrial Disorders. 10th Annual Pediatric Neurology Symposium. Bowman Gray School of Medicine, Wake Forest University, Asheville, NC. February 2, 2008.
222. POLG and other Disorders of Mitochondrial DNA Stability. Department of Neurology Grand Rounds, St. Joseph's Hospital and The Barrows Neurological Institute, Phoenix, AZ, February 11, 2008.
223. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Phoenix, AZ, February 11, 2008.
224. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds. St. Joseph's Hospital and The Barrows Neurological Institute, Phoenix, AZ, February 12, 2008.
225. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Cincinnati, OH, February 18, 2008.
226. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds. Cincinnati Children's Hospital, Cincinnati, OH February 19, 2008.
227. Epilepsy as a Presentation of Mitochondrial Disorders. Section of Epilepsy Grand Rounds, The Neurological Institute, Cleveland Clinic, Cleveland, OH, February 22, 2008.
228. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Durham, NC, February 26, 2008.

229. POLG and Other Nuclear Genes: The Cause of Mitochondrial DNA Depletion. Department of Neurology Ground Rounds, Duke University Medical Center, Durham, NC. February 27, 2008.
230. Mitochondrial Disorders in Children. Pediatric Neurology Case Conference. Duke University Medical Center. Durham, NC. February 27, 2008
231. Mitochondrial Disorders in Adults. Neurology Case Conference. Duke University Medical Center. Durham, NC. February 27, 2008.
232. Could it Be Mitochondrial Disease? American College of Osteopathic Pediatricians Annual Conference. Savannah, GA. April 11, 2008.
233. Basic Metabolic Disorders. American Academy of Neurology 60th Annual Meeting, Course BS005.001. April 18, 2008.
234. Pediatric Neurology Practice Issues: RVUs, CPT and ICD9 Coding for Cognitive Services. American Academy of Neurology 60th Annual Meeting, Course CL005.007, April 18, 2008.
235. The Basic Science of Neurofibromatosis I. Symposium for Families and Healthcare Workers. The Children's Tumor Foundation and Cleveland Clinic Symposium. Cleveland, OH, May 4, 2008.
236. Mitochondrial Disorders in Children. Moving Forward in the Treatment of Pediatric Neurological Disorders: A Conference Honoring James R. Gage, M.D. Gillette Children's Hospital, Minneapolis, MN. May 17, 2008.
237. CPT Coding in a multi-disciplinary program. Special Lecture. Brain Tumor and Neuro-Oncology Center. Cleveland Clinic. May 23, 2008.
238. RVUs in a multi-disciplinary program. Special Lecture. Brain Tumor and Neuro-Oncology Center. Cleveland Clinic. June 6, 2008.
239. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Greensboro, NC. June 12, 2008.
240. Mitochondrial Disorders in Children: A New Frontier. Pediatric Grand Rounds, Wake Forest University Medical Center, Winston-Salem, NC. June 13, 2008.
241. Special Topics in Mitochondrial Medicine. Special Lecture, Division of Pediatric Neurology, Wake Forest University Medical Center, Winston-Salem, NC. June 13, 2008.
242. Evaluation of the Mitochondrial Patient. Special Lecture, Department of Neurology, Wake Forest University Medical Center, Winston-Salem, NC. June 13, 2008.
243. Mitochondrial Disease Case Presentations. Special Lecture for Medical Genetics and Pediatric Neurology. Winston-Salem, NC. June 13, 2008.
244. The Functions of the NF1 Gene. Neurosurgical Grand Rounds. The Cleveland Clinic Foundation. Cleveland, OH. June 18, 2008.
245. Making the Most of the Office Visit: Lecture for Patients with Mitochondrial Disease. United Mitochondrial Disease Foundation Family Symposium. Indianapolis, IN, June 28, 2008.
246. Mitochondrial Medicine: The New Frontier: Combined Pediatric and Neurology Grand Rounds. Rush University Medical Center. Chicago, IL. July 8, 2008.
247. Mitochondrial Disorders: Metabolism, Genetics, Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. Chicago, IL. July 8, 2008.
248. The Neurological Aspects of Mitochondrial Disorders in Children. Children's Memorial Hospital, Northwestern University. Chicago, IL. July 9, 2008.
249. Mitochondrial Medicine: The New Frontier: Neurology Grand Rounds. University of Chicago. Chicago, IL. July 9, 2008.
250. Neuro-Genetics. Cleveland Clinic Genomics Seminar for Health Care Professionals. Cleveland, OH August 1, 2008.
251. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. St. Christopher's Hospital. August 10, 2008.
252. Mitochondrial Medicine: The New Frontier. Pediatric Neurology Grand Rounds, St. Christopher's Hospital. Philadelphia, PA. August 11, 2008.
253. Advanced Topics in Mitochondrial Medicine. University of Pennsylvania, CHOP and HUP Mitochondrial Affinity Group Lecture Series. Children's Hospital of Philadelphia, Philadelphia, PA. August 11, 2008.

254. Case Studies for the Pediatric Boards, 14th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, August 26, 2008.
255. Advanced Topics in Mitochondrial Medicine. University of Washington, Seattle Children's Hospital Neurology Grand Rounds. Seattle, WA, September 12, 2008
256. Progress in Mitochondrial Medicine, Keynote Speech, Seattle Children's Hospital Mitochondrial Guild Annual Dinner and Auction, September 13, 2008.
257. Mitochondrial Medicine: The New Frontier: Neurology Grand Rounds. University of Michigan, Ann Arbor, MI. September 17, 2008.
258. Case Conference: Mitochondrial Diseases in Children. Department of Pediatric Neurology, Mott's Children's Hospital, Ann Arbor, MI. September 17, 2008.
259. Mitochondrial Medicine: The New Frontier: Pediatric Grand Rounds. St. Louis University. St. Louis, MO. September 18, 2008.
260. Case Conference: Mitochondrial Diseases in Children. Department of Pediatric Neurology, Cardinal Glennon Children's Hospital, St. Louis, MO. September 18, 2008.
261. Mitochondrial Disorders: Evaluation and Treatment. UMDF Seminar for Families and Health Care Professionals. St. Louis, MO. September 18, 2008.
262. Mitochondrial Toxicity of Cancer Chemotherapy. Seminar for Child Neurologists. St. Louis, MO. September 18, 2008.
263. Mitochondrial Medicine: The New Frontier: Neurology Grand Rounds. Washington University. St. Louis, MO. September 19, 2008.
264. The Genetic Evaluation of a Child with Suspected Mitochondrial Diseases. Department of Pediatric Neurology, St. Louis Children's Hospital. September 19, 2008.
265. What is the Evidence for a Relationship Between Mitochondrial Dysfunction and Autism? 13th Women's HeLa Conference. Morehouse School of Medicine, Atlanta, GA. September 26, 2008.
266. Mitochondrial Disorders in Adult Neurology. Neurology Grand Rounds. Cleveland Clinic Foundation – Weston. Weston, FL. October 16, 2008.
267. Update in Mitochondrial Disease. UMDF Seminar for Families and Health Care Professionals. October 19, 2008. Independence, OH.
268. Mitochondrial Biochemistry and Genetics. Lecture to 2nd Year Medical Students and PhD Candidates. Cleveland Clinic Lerner College of Medicine. October 31, 2008. Cleveland, OH
269. Introduction to Mitochondrial Diseases. Breakfast Seminar. Child Neurology Society Annual Meeting. November 7, 2008. Santa Clara, CA.
270. Clinical Manifestations of Mitochondrial Disease. 2nd US-Indo Technology Forum Workshop on Mitochondrial Research and Medicine Biotechnology Conference. Division of Biotechnology, Manipal Life Sciences Centre, Manipal, Karnataka, India. November 13, 2008.
271. Treatment of Mitochondrial Disorders. 2nd US-Indo Technology Forum Workshop on Mitochondrial Research and Medicine Biotechnology Conference. Division of Biotechnology, Manipal Life Sciences Centre, Manipal, Karnataka, India, November 14, 2008.
272. Mitochondrial Disorders in Children. Hackensack University Medical Center, Pediatric Grand Rounds, Hackensack, NJ, December 10, 2008.
273. Mitochondrial Disorders in Children. Pediatric Neurology Seminar. Elizabeth, NJ. December 10, 2008
274. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Hackensack, NJ, December 10, 2008
275. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families. Weston, FL, January 15, 2009
276. Mitochondrial Disorders in Children. Miami Children's Hospital. Pediatric Grand Rounds. Miami, FL, January 16, 2009.
277. Introduction to Mitochondrial Disorders in Children and Adults: Case Presentations. University of Kentucky, Lexington, KY, January 26, 2009.

278. Mitochondrial Disorders. University of Kentucky. Neurology Grand Rounds. Lexington, KY, January 27, 2009.
279. Mitochondrial and Nuclear DNA Disorders in Children. The New Frontier. Pediatric Grand Rounds. Phoenix Children's Hospital, Phoenix, AZ, February 3, 2009.
280. MELAS and other Common Mitochondrial Disorders. Neurology Grand Rounds, Mayo Clinic - Scottsdale, Scottsdale, AZ, February 3, 2009.
281. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families. Phoenix, AZ, February 3, 2009.
282. Case Presentations in Mitochondrial Diseases. Barrows Neurological Institute, St. Joseph's Hospital. Phoenix, AZ, February 4, 2009.
283. Mitochondrial Disorders: The New Frontier, Neurology Grand Rounds, University of Arizona, Tucson, AZ. February 4, 2009.
284. Mitochondrial Disorders in Children. New Jersey Pediatric Neurology Society. Edison, NJ, February 25, 2009.
285. Genetic Aspects of Mitochondrial Disorders. Department of Genetics Grand Rounds, University of Wisconsin, Madison, WI, March 4, 2009.
286. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families. Milwaukee, WI, March 4, 2009.
287. Mitochondrial and Nuclear DNA Disorders in Children. The New Frontier. Pediatric Grand Rounds. Medical College of Wisconsin, Children's Hospital of Wisconsin, Milwaukee, WI, March 5, 2009.
288. Case Studies of Mitochondrial Disease. Department of Neurology, Medical College of Wisconsin, Children's Hospital of Wisconsin, Milwaukee, WI, March 5, 2009.
289. Mitochondrial Disorders in Children. Dinner Seminar for Pediatric Neurologists, Louisville KY, March 12, 2009.
290. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families, Providence, RI, March 24, 2009.
291. Mitochondrial Disorders in Children and Adults. Grand Rounds, Departments of Neurology and Pediatric Neurology, Hasbro Children's Hospital and Rhode Island Hospital, Brown University. Providence, RI, March 25, 2009.
292. Case Conference - Mitochondrial Disorders. Department of Pediatric Neurology. Hasbro Children's Hospital, Brown University. Providence, RI, March 25, 2009.
293. Mitochondrial Disorders in Children. Grand Rounds, LeBonheur Children's Hospital, University of Tennessee. Memphis, TN, April 1, 2009.
294. Case Conference. Departments of Neurology and Genetics, LeBonheur Children's Hospital, University of Tennessee. Memphis, TN, April 1, 2009.
295. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families, LeBonheur Children's Hospital, Memphis, TN. April 1, 2009.
296. Cancer, Cancer Chemotherapy and the Mitochondria. Medical Grand Rounds, St. Jude Children's Research Hospital, Memphis, TN, April 2, 2009.
297. ICD-9, CPT and RVUs. The Massachusetts Medical Association and Massachusetts Neurological Society Annual Meeting. Boston, MA, April 4, 2009.
298. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families. Massachusetts Institute of Technology, Boston, MA April 4, 2009.
299. Basic Metabolic Disorders. American Academy of Neurology 61st Annual Meeting, Course AS008.001. April 27, 2009.
300. Management of Mitochondrial Cytopathies. Pediatric Academic Society Annual Meeting. Morning Seminar. Baltimore, MD, May 4, 2009.
301. Mitochondrial Disorders: Overview of the Advances in Research Funded by The United Mitochondrial Disease Foundation. UMDF Conference for Medical Professionals, Patients and Families. Spartanburg, SC, May 20, 2009.
302. Mitochondrial Disorders in Children. Neuroscience Grand Rounds, Medical University of South Carolina, Charleston, SC, May 21, 2009.

303. Mitochondrial Medicine, The New Frontier, University of Alabama Medical Center, Birmingham, AL, Pediatric Grand Rounds, June 4, 2009
304. Case Studies in Mitochondrial Diseases, Pediatric Neurology Conference, University of Alabama Medical Center, Birmingham, AL, June 4, 2009.
305. Mitochondrial Disorders: Diagnosis and Treatment. UMDF Conference for Medical Professionals, Patients and Families. University of Alabama Medical Center, Pediatric Grand Rounds, Birmingham, AL, June 4, 2009.
306. Advanced Concepts in Mitochondrial Genetics. Genetic Department Conference, University of Alabama Medical Center, Birmingham, AL, June 5, 2009
307. Brain Tumors in Children. Case Conference. Kentucky Clinic Department of Neurology. University of Kentucky, Lexington, KY, June 10, 2009.
308. Genetic and Environmental Factors In Mitochondrial-Linked Disease. National Institute of Environmental Health Sciences Symposium on Biomarkers for Mitochondrial Dysfunction. Vienna, Virginia, June 25, 2009.
309. What Does the Literature Say about the Link Between Autism and Mitochondrial Dysfunction? Symposium sponsored by Autism Speaks and The United Mitochondrial Disease Foundation. Vienna, Virginia, June 26, 2009.
310. The Diagnostic Paradigm Using Commercially Available Testing. 11th Symposium of The United Mitochondrial Disease Foundation. Vienna, VA, June 27, 2009.
311. Hot Topics in Mitochondrial Medicine. 11th Symposium of The United Mitochondrial Disease Foundation. Vienna, VA, June 27, 2009.
312. Advances in Mitochondrial Research: Basic Science and Clinical Studies in 2009. 11th Symposium of The United Mitochondrial Disease Foundation. Vienna, VA, June 27, 2009.
313. Neurological Presentations of Mitochondrial Illness. Dinner Seminar, Louisville, IN, July 15, 2009.
314. The Mitochondrial Response to Vaccines and Vaccination. Workshop on Vaccine Safety. The Institute of Medicine, National Academy of Science. Washington, DC, August 26, 2009.
315. Case Studies for the Pediatric Boards, 15th Annual Pediatric Board Review Course, Cleveland Clinic Foundation, Cleveland, OH, August 31, 2009.
316. Primitive Neuroectodermal Tumors and Medulloblastomas. Neuro-Oncology Current Concepts, Cleveland Clinic Course, Cleveland, OH, September 12, 2009
317. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Grand Rapids, MI, September 21, 2009.
318. Mitochondrial Disorders in Children. Pediatric Grand Rounds, Helen DeVos Children's Hospital, Grand Rapids, MI, September 22, 2009
319. Advances in Mitochondrial Medicine. Conference for Patients, Families and Medical Professionals. The United Mitochondrial Disease Foundation, Ohio Chapter, Annual Meeting. Beachwood, OH, September 27, 2009.
320. Mitochondrial Disorders. UMDF Conference for Medical Professionals, . University of North Carolina Medical Center. Raleigh, North Carolina, October 28, 2009.
321. Mitochondrial Disorders in Children and Adults. Neurology Grand Rounds. University of North Carolina Medical Center. Chapel Hill, North Carolina, October 29, 2009
322. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Palmetto Richland Hospital, Columbia, SC, October 29, 2009.
323. Mitochondrial Disorders in Childhood. Pediatric Grand Rounds, Palmetto Richland Memorial Hospital, Columbia, SC, October 30, 2009
324. Advance Genetic Concepts in Mitochondrial Disease. Special Seminar, Greenwood Genetics Center, Greenwood, South Carolina, October 30, 2009
325. Case Studies in Mitochondrial Disease. Carolina Neurological Center, Charlotte, NC, October 30, 2009.
326. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Charlotte, NC, October 30, 2009.

327. Mitochondrial Disease: What the Neurologist Must Know. Department of Neurology Grand Rounds, Cleveland Clinic, Cleveland, OH, November 2, 2009.
328. Mitochondrial Function, Autism, and the Link. Special Seminar, Autism Society of America, Western New York Chapter, Buffalo, NY, November 5, 2009
329. Mitochondrial Disorders in Children. Grand Rounds, Buffalo Women's and Children's Hospital, Buffalo, NY, November 6, 2009.
330. The Diagnosis and Management of Mitochondrial Disorders. 28th Annual Educational Conference, National Society of Genetic Counselors. Atlanta, GA, November 12, 2009.
331. Advanced Mitochondrial Genomics - Mitochondrial DNA Depletion Syndromes. Children's Healthcare of Atlanta and Emory University Seminar. Atlanta, GA, November 17, 2009.
332. Mitochondrial Genomics. Pediatric Neurology Dinner Seminar. Dayton, OH, November 18, 2009.
333. Challenges of designing and executing clinical trials in mitochondrial diseases. Research Challenges in CNS Manifestations of Inborn Errors of Metabolism Workshop. NIH, Bethesda, MD. December 8, 2009.
334. Mitochondrial Disorders. Neuroscience Conference, MINDS Group, Garden City Hospitals, Inkster, MI, February 18, 2010.
335. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Mercy Hospital, Kansas City, MO, February 19, 2010.
336. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, University of Kansas Medical Center, Kansas City, KS, February 19, 2010
337. Mitochondrial Disorders in Children, Pediatric Grand Rounds, University of Kansas Medical Center, Kansas City, KS, February 20, 2010.
338. Mitochondrial Disease - Have We Gone Too Far. Crisis in The Clinic. Neurology Seminar, Children's Hospital of Philadelphia, Philadelphia, PA, February 26, 2010.
339. Mitochondrial Disease and The Psychiatrist. Department of Psychiatry Grand Rounds, Cleveland Clinic, Cleveland, OH March 4, 2010
340. Mitochondrial Disorders: What the Neurologist Must Know. Neuroscience Grand Rounds, University of Louisville Medical Center, Louisville, KY, March 5, 2010
341. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Kosair Children's Hospital, Louisville, KY, March 5, 2010.
342. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds, Georgetown University Medical Center, , DC, March 17, 2010.
343. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Washington DC Chapter, Arlington, VA, March 17, 2010.
344. Mitochondrial Disorders in Children, Department of Neurology Conference, Children's National Medical Center, Washington, DC, March 18, 2010.
345. Mitochondria and Cancer. St. Jude Children's Research Hospital Faculty Seminar, Memphis, TN, March 31, 2010.
346. Mitochondrial Disorders in Children. All Children's Hospital, Department of Neurology Conference, St. Petersburg, FL, April 27, 2010.
347. Interactions between mtDNA and nDNA. Department of Genetics, University of South Florida, Tampa, FL, April 27, 2010
348. Mitochondrial Disorders in Adults, Tampa Bay Neurologist Dinner Seminar, Tampa, FL, April 27, 2010.
349. Mitochondrial Disorders: The New Frontier. Department of Neurology Grand Rounds, University of Florida, Gainesville, FL, April 28, 2010.
350. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Northern Florida UMDF Chapter, Gainesville, FL, April 28, 2010.
351. Mitochondrial Disorders: Bioenergetics, A New Medicine Category: Introduction To Mitochondrial Disease. Seattle Children's Hospital Seminar for Primary Care Physicians, University of Washington, Seattle, WA, May 1, 2010.
352. The Laboratory Evaluation of Mitochondrial Disease. Seattle Children's Hospital Seminar for Primary Care Physicians, University of Washington, Seattle, WA, May 1, 2010.

353. Mitochondrial Disorders in Children. Riley Children's Hospital 45th Annual Course, Indianapolis, IN May 19, 2010
354. Neonatal and Infantile Metabolic Disorders. Southeastern Association of Neonatologists, 24th Annual Conference, Marco Island, FL, May 22, 2010
355. What Neonatologists Need to Know about Genetics, Genetic Testing and Neuro-Genetic Disorders. Southeastern Association of Neonatologists, 24th Annual Conference, Marco Island, FL, May 23, 2010
356. Neonatal Neurology Case Studies. Southeastern Association of Neonatologists, 24th Annual Conference, Marco Island, FL, May 23, 2010
357. Treatment of Mitochondrial Diseases. United Mitochondrial Disease Foundation Annual Symposium, Scottsdale, AZ, June 16-20, 2010.
358. Mitochondrial Disorders. Special Seminar for Neurologists and Geneticists. Toledo, OH. September 15, 2010.
359. Mitochondrial Disorders. Greenville Medical Center Pediatric Neurology Seminar, Greenville, SC. October 26, 2010.
360. Mitochondrial Disorders. Spartanburg Regional Medical Center Grand Rounds, Spartanburg, SC. October 26, 2010.
361. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Carolina Foothills Chapter of the UMDF. Spartanburg, SC. October 26, 2010.
362. Mitochondrial Disorders in Children. Pediatric Grand Rounds. Carolinas Medical Center. Charlotte, NC. October 27, 2010
363. Mitochondrial Genetics. Seminar for Fullerton Genetics. Asheville, NC. October 27, 2010.
364. Advanced Topics in Mitochondrial Medicine. Departments of Neurology and Genetics, Children's Hospital of Los Angeles. Los Angeles, CA, November 2, 2010.
365. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Southern California Chapter of the UMDF. Los Alimitos, CA. November 2, 2010.
366. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, New York Metro Chapter of the UMDF. Bronx, NY. November 29, 2010.
367. Mitochondrial Disorders in Children. Pediatric Grand Rounds. Bronx-Lebanon Hospital. Bronx, NY. November 30, 2010.
368. Mitochondrial Diagnostics. Special Seminar for Neurologists, Geneticists and Laboratory Medicine. Medical University of South Carolina, Charleston, SC. November 30, 2010
369. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, South Florida Chapter of the UMDF. Coral Gables, FL. December 1, 2010.
370. Mitochondrial Diseases. Special Seminar, Miami Children's Hospital. Miami, FL, December 1, 2010.
371. Mitochondrial Diseases in Children. Dan Marino Center, Miami Children's Hospital Special Seminar. Westin, FL December 2, 2010.
372. Mitochondrial Disorders. Joe DiMaggio Children's Hospital Pediatric Neurology Dinner Seminar, Hollywood, FL, December 2, 2010.
373. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Central Ohio Chapter of the UMDF. Columbus, OH, December 6, 2010.
374. Mitochondrial Disorders for Neurologists. Department of Neurology, Ohio State University Medical Center Grand Rounds. Columbus, OH, December 7, 2010
375. Case Conference for Residents and Attendings. Department of Neurology, Ohio State University Medical Center. Columbus, OH, December 7, 2010
376. Mitochondrial Disease Update. UMDF Conference for Medical Professionals, Patients and Families, Chicago Chapter of the UMDF. Chicago, IL. December 8, 2010.
377. Mitochondrial Disorders. Grand Rounds, Captain James A. Lovell Federal Health Care Center, North Chicago, IL. December 9, 2010.
378. Case Studies in Mitochondrial Disease. Division of Pediatric Neurology, Rex Hospital, Raleigh, NC. March 1, 2011.

379. Advances Cases in Mitochondrial Medicine: Department of Genetics Seminar, Carolinas Medical Center, Charlotte, NC. March 1, 2011
380. Mitochondrial Disorders in Children. Levine Children's Hospital Carolinas Medical Center Grand Rounds, Charlotte, NC. March 2, 2011.
381. Mitochondrial Disorders. Department of Neurology, Medical College of Georgia. Augusta, GA. March 2, 2011.
382. What the Child Neurologist Must Know about Mitochondrial Disorder. Special Seminar, Division of Child Neurology, Medical University of South Carolina, Charlestown, SC. March 3, 2011.
383. Mitochondrial Disease Update. UMDF Conference for Medical Professionals, Patients and Families, South Carolina Chapter of the UMDF. Charlestown, SC. March 3, 2011
384. Mitochondrial Disease Update. UMDF Conference for Medical Professionals, Patients and Families, North Carolina Chapter of the UMDF. Winston Salem, NC March 3, 2011
385. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds, Brenner's Children's Hospital, Bowman Gray School of Medicine of Wake Forest University. Winston Salem, NC March 4, 2011.
386. Management of Mitochondrial Patients in the Complex Care Unit. Brenner's Children's Hospital, Bowman Gray School of Medicine of Wake Forest University, Winston Salem, NC March 4, 2011.
387. Case Studies in Mitochondrial Disorders. Division of Child Neurology. Brenner's Children's Hospital, Bowman Gray School of Medicine of Wake Forest University, Winston Salem, NC March 4, 2011.
388. Interesting Cases in Bio-Energetic Medicine. Department of Medical and Biochemical Genetics Case Conference, Lucy Packard Children's Hospital, Stanford Medical Center, March 21, 2011.
389. Mitochondrial Disease Update. UMDF Conference for Medical Professionals, Patients and Families, Western New York Chapter of the UMDF. Buffalo, NY March 23, 2011
390. Mitochondrial Disorders for Neurologists. Neurology Grand Rounds. Buffalo General Hospital, March 24, 2011.
391. Pediatric Neurology Case Conference: Mitochondrial Diseases. Department of Neurology. Buffalo Children's Hospital. March 24, 2011.
392. Mitochondrial Disorders: What does the Family Practice Doctor and Internist Need to Know? Medical Grand Rounds. Buffalo General Hospital, Buffalo, OH, March 24, 2011.
393. Beta-Oxidation and Electron Transport Chain Metabolism, Course for PhD and MD/PhD Students. The South Carolina College of Pharmacy/Charleston Campus, Department of Pharmaceutical and Biomedical Sciences, Medical University of South Carolina. Charleston, SC, April 4, 2011.
394. Mitochondrial Disorders. Seminar, The South Carolina College of Pharmacy/Charleston Campus, Department of Pharmaceutical and Biomedical Sciences, Medical University of South Carolina. Charleston, SC, April 4, 2011.
395. Mitochondrial Disorders in Children. Pediatric Grand Rounds, Sutter Memorial Hospital Department of Pediatrics, Sacramento, CA, April 27, 2011.
396. UMDF Conference for Medical Professionals, Patients and Families, Bay Area Chapter of the UMDF. Sacred Heart Schools, Atherton, CA, April 27, 2011.
397. The Mitochondrial Toxicity of the Pharmacopeia. Scientific Session of The United Mitochondrial Disease Foundation Annual Symposia. Schaumburg, IL. June 16, 2011.
398. A Primer of Mitochondrial Disease. Diabetes Symposium of the Scientific Session of The United Mitochondrial Disease Foundation Annual Meeting. Schaumburg, IL. June 18, 2011.
399. New Treatments for Mitochondrial Diseases. Keynote Speaker - Robert H. Cullen, Jr, MD Lecture, XXXII Annual Child Neurology, Neurosurgery and Psychiatry Post-Graduate Course, Miami Children's Hospital, Miami, FL, July 18, 2011.
400. Mitochondrial Diseases in Children. Pediatric Grand Rounds. Miami Children's Hospital, Miami, FL July 18, 2011.
401. UMDF Conference for Medical Professionals, Patients and Families, Texas Chapter of the UMDF. University of Texas Medical School at Hermann Hospital, Houston, TX. July 18, 2011.
402. Mitochondrial Disorders in Children. Pediatric Grand Rounds. University of Texas Medical School at Hermann Hospital, Houston, TX. July 19, 2011.

403. Mitochondrial Disorders. Department of Neurology, Bluebird Clinic, Texas Children's Hospital. Baylor University Medical Center, Houston, TX, July 19, 2011.
404. Autism as a Consequence of Mitochondrial Dysfunction. Texas Department of Health Genetics Conference. Omni Hotel. Dallas, TX, August 24, 2011.
405. Mitochondrial Genetics: Links to Mitochondrial Toxins. Special Seminar. Pioneer Valley Life Sciences Institute, Baystate Medical Center, Springfield, MA, August 31, 2011.
406. UMDF Conference for Medical Professionals, Patients and Families, Connecticut Chapter of the UMDF. The Hartford Hospital, Hartford, CT, August 31, 2011.
407. Neurological Manifestations of Mitochondrial Disorders, Neurology Grand Rounds, Hartford Hospital and The Children's Hospital of Connecticut. Hartford, CT, September 1, 2011.
408. Mitochondrial Disorders: The New Frontier. Pediatric Neurology Seminar. Yale-New Haven Medical Seminar, New Haven, CT, September 1, 2011.
409. Pharmacological Management of Mitochondrial Diseases. 1st Annual Advance Practice Nurse - Physician's Assistant Pediatric Pharmacology and Law Update. Children's Hospital Medical Center of Akron. Akron, OH, September 23, 2011.
410. The Basics of E/M CPT. Practice 101 Course, American Academy of Neurology Fall 2011 Course. Las Vegas, NV. October 21, 2011.
411. Neurogenetics for the Perinatologist. 7th Annual Perinatology Symposium, Aultman Hospital. Canton, OH, November 3, 2011.
412. UMDF Conference for Medical Professionals, Patients and Families, Baltimore Chapter of the UMDF. Kennedy Krieger Institute, Johns Hopkins University, Baltimore, MD, November 15, 2011.
413. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Cooper University Hospital, Robert Wood Johnson Medical School, Camden, NJ, November 16, 2011.
414. Advanced Topics in Mitochondrial Diagnostics, Genetics Grand Rounds, Kennedy Krieger Institute, Johns Hopkins University, Baltimore, MD, November 16, 2011.
415. Mitochondrial Medicine for Pediatricians, Pediatric Grand Rounds, MetroHealth Medical Center, Case Western Reserve University, Cleveland, OH, December 9, 2011.
416. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Primary Children's Medical Center. Salt Lake City, UT. December 14, 2011.
417. Mitochondrial Disorders in Children. Pediatric Grand Rounds. Primary Children's Medical Center and University of Utah. Salt Lake City, UT. December 15, 2011.
418. Mitochondrial Disorders in Children. Pediatric Neurology Seminar, Department of Neurology, Children's Hospital and Medical Center of Omaha, Omaha, NE, January 25, 2012.
419. Genetic Considerations in Mitochondrial Disorders, Nurse Practitioners Seminar, Children's Hospital and Medical Center of Omaha, Omaha, NE, January 25, 2012.
420. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Blank Children's Hospital, Des Moines, Iowa, January 26, 2012.
421. Mitochondrial Disorders: The New Frontier. Pediatric Grand Rounds, Blank Children's Hospital, Des Moines, Iowa, January 27, 2012.
422. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. New York and New Jersey Chapter of the UMDF. Sayerville, NJ, January 29, 2012.
423. Mitochondrial Disorders in Children. Pediatric Neurology Seminar, Department of Neurology, State University of New York (SUNY) Downstate Medical Center, Brooklyn, NY, January 30, 2012.
424. Clinical Studies in Mitochondrial Disease. Seminar for Pediatric Neurology. Weill Cornell Medical College, New York City, New York, January 30, 2012.
425. Medicare Changes and Health Care Expenditures: How will this Impact the Neurologist? North Carolina Neurologic Society's Annual Meeting, Grandover Resort, Greensboro, NC, February 18, 2012.

426. Mitochondrial Disease in Adult Neurology Practice. North Carolina Neurologic Society's Annual Meeting, Grandover Resort, Greensboro, NC, February 18, 2012.
427. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Central Virginia Chapter of the UMDF, Mechanicsville, VA, March 20, 2012.
428. Mitochondrial Disorders. Grand Rounds, Virginia Commonwealth University, Richmond, VA, March 21, 2012.
429. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Virginia Chapter of the UMDF, Roanoke, VA, March 20, 2012.
430. Mitochondrial Disorders in Children, Grand Rounds, Carilion Clinic, Roanoke VA, March 21, 2012.
431. Clinical Management of Mitochondrial Disorders. UMDF Panel Meeting. Charlotte, NC, March 30, 2012.
432. Neuro-Muscular Presentation of Adults with Mitochondrial Disease. Joint Meeting of The Society of Inherited Mitochondrial Disorders and American College of Medical Genetics and Genomics Annual Meetings. Charlotte, NC, March 31, 2012.
433. Non-Syndromic Mitochondrial Diseases. Neurology Conference. Children's Hospital of Los Angeles, Los Angeles, CA. April 3, 2012.
434. Mitochondrial Disorders in Neurology. Seminar for Neurologists at UCLA Medical Centre and Los Angeles. Los Angeles, CA, April 3, 2012.
435. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Oregon Chapter of the UMDF, Portland, OR, April 4, 2012.
436. Mitochondrial Disorders in Children. Department of Pediatrics Grand Rounds, Doernbecher Children's Hospital, Oregon Health Sciences University. Portland, OR. April 5, 2012.
437. Neuromuscular Presentations of Mitochondrial Diseases. Department of Neurology, Oregon Health Sciences University, Portland, OR, April 5, 2012.
438. Cases in Mitochondrial Disease. Seminar for Neurologists. Portland, OR, April 5, 2012.
439. Coding for Patient Visits: Level of Service: Bullets versus Time. Issues in Coding and Reimbursement. The Practice of Neurology. 1FC.001, The American Academy of Neurology, Annual Meeting Course New Orleans, LA, April 21, 2012.
440. What Major Payment Reform Means for Cognitive Care and Procedures. Practice Colloquium: Prepare Your Practice for the Future: What Will the Practice of Neurology Look Like in 2017? 2EC.002. The American Academy of Neurology, Annual Meeting Course New Orleans, LA, April 22, 2012.
441. Evaluation and Management Coding: Minimize Mistakes, Maximize Reimbursement. The American Academy of Neurology, Annual Meeting Course 4SM.002, New Orleans, LA, April 24, 2012.
442. Therapeutics and Targets for Mitochondrial Disease. Pediatric Neurology Symposium. The American Academy of Neurology, Annual Meeting Scientific Session, New Orleans, LA, April 24, 2012.
443. Mitochondrial Therapeutics: It is not all about ATP. Research Seminar, Children's Hospital Medical Center of Akron, Akron, OH, May 16, 2012.
<https://webmail.chmca.org/owa/redir.aspx?C=6519707f05db457395d24e5be17970d2&URL=https%3a%2f%2fakronchildrens.webex.com%2fakronchildrens%2fldr.php%3fAT%3dpb%26SP%3dMC%26rID%3d32359702%26rKey%3d16108f4fff7682eb>
444. Practical Approaches to Mitochondrial Testing. Seminar, Pediatric and Adolescent Neurodevelopmental Associates. Atlanta, GA, May 23, 2012.
445. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Columbus Georgia Chapter of the UMDF, Columbus, GA, May 23, 2012.
446. Mitochondrial Disorders Across the Lifespan, Grand Rounds, Columbus Regional Medical Center, Columbus, GA, May 24, 2012.
447. Practical Approaches to Mitochondrial Testing. Seminar, Atlanta Southeast Center for Epilepsy and Neurodevelopment. Atlanta, GA, May 24, 2012.
448. Summary of Scientific Advances in Mitochondrial Diseases: UMDF 2012 Scientific Meeting. UMDF 2012 Symposium, Bethesda, MD, June 16, 2012.
449. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Northern California Chapter of the UMDF, Sacramento, CA, July 11, 2012.

450. Autism and Mitochondrial Diseases. Sutter Pediatric Neurology Group. Sacramento, CA. July 12, 2012.
451. Mitochondrial Disorders: A General Overview for Geneticists and Genetic Counselors. Regional Genetics Conference. University of California, Davis Campus. Sacramento, CA, July 12, 2012.
452. Advanced Genetic Cases in Mitochondrial Disease. Department of Genetics. University of California, Davis Campus. Sacramento, CA, July 13, 2012.
453. E&M Update: Maximize Revenue, Minimize Mistakes. American Academy of Neurology Webinar. Broadcasted on July 17, 2012.
454. Genetic Testing For Mitochondrial and Other Neurogenetic Disorders. Blue Cross Blue Shield CareSource Advisory Group Meeting. BlueCross BlueShield Association, BCBSA Headquarters, Chicago, IL, July 26, 2012.
455. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Michigan Chapter of the UMDF, Detroit, MI, August 2, 2012.
456. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Children's Hospital of Michigan, Detroit Medical Center, Detroit, MI, August 3, 2012.
457. Clinician's Perspectives from 30 years of diagnostics. Mitochondrial Biology Conference. The Mitochondrial Conundrum: When Testing Does Not Lead to a Diagnosis. Seattle Children's Hospital Sponsored Symposium. Bell Harbor International Conference Center. Seattle, WA, August 24, 2012.
458. Diagnostic Testing for Mitochondrial Disease: Past, Present and Future. UMDF Symposium for Patients, Families and Health Care Providers, Research Institute of Seattle Children's Hospital, Seattle, WA, August 25, 2012.
459. Genetic and Biochemical Evaluation for Mitochondrial Disorders. Special Seminar. Sections of Pediatric Neurology and Genetics. Tripler Medical Army Center, Honolulu, HI, September 19, 2012
460. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Hawaii Chapter of the UMDF, Honolulu, HI, September 19, 2012.
461. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Department of Pediatrics Grand Rounds. Tripler Medical Army Center, Honolulu, HI, September 19, 2012
462. Advanced Concepts in Mitochondrial Medicine: Advances in Genetic Testing. Seminar for Divisions of Neurology and Genetics. Children's Hospital of Los Angeles, Los Angeles, CA, October 18, 2012.
463. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Department of Pediatrics Grand Rounds. Children's Hospital of Los Angeles, Los Angeles, CA, October 19, 2012.
464. How Will ACOs affect Child Neurology Training? Professors of Child Neurology, Annual Meeting of the Professors of Child Neurology, Huntington Beach, CA, October 31, 2012.
465. Quality Measures and CPT in the World of ACOs. Child Neurology Society Quality Special Interest Group. 41st Annual Meeting of The Child Neurology Society Annual Meeting, Huntington Beach, CA, November 1, 2012.
466. CPT E&M Coding. In: CPT, ICD-10 and Guideline Update: Sit at the Table or Be Served as the Meal. Breakfast Seminar, 41st Annual Meeting of The Child Neurology Society Annual Meeting, Huntington Beach, CA, November 2, 2012.
467. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Indiana Chapter of the UMDF, Evansville, Indiana, November 6, 2012.
468. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Department of Pediatrics Grand Rounds and Medical School Teaching Course. St. Mary's Hospital and The University of Indiana, Evansville, Indiana, November 7, 2012.
469. Small But Mighty, Mitochondrial Diseases. 15th Annual Innovations in Neuroscience (Keynote Speaker), Cleveland Clinic Foundation. Cleveland, OH, November 9, 2012.
470. New Concepts in Mitochondrial Medicine: The Phenotype Drives the Genotype: Advances in Genetic Testing. Grand Rounds, Pediatric Neurology, Johns Hopkins Medical Center, Baltimore, MD, December 19, 2012
471. New Concepts in Mitochondrial Medicine: The Phenotype Drives the Genotype: Advances in Genetic Testing. Seminar, Department of Genetics, University of Maryland Medical Center, Baltimore, MD, December 20, 2012.

472. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Washington DC Chapter of the UMDF, December 20, 2012.
473. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Pediatric Grand Rounds, Georgetown Medical Center, Washington, DC, December 21, 2012.
474. Rhabdomyolysis in Children. Pediatric Morbidity and Mortality Conference, Akron Children's Hospital, Akron, OH, January 19, 2013
475. Correcting Common Mistakes in ICD, E/M, and CPT Coding. American Academy of Neurology Webinar, Original Broadcast on February 5, 2013.
476. Mitochondrial Genetics: NextGen Sequencing. Department of Genetics Seminar. All Children's Hospital, St. Petersburg, FL. February 7, 2013.
477. Advanced Genetic Concepts in Mitochondrial Diseases. Department of Genetics Seminar. University of South Florida, Tampa, FL. February 7, 2013.
478. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Central Florida Chapter of the UMDF, Tampa, FL. February 7, 2013.
479. Mitochondrial Disorders: A General Overview for Pediatricians: Biochemistry, Genetics, Evaluation and Therapy. Neurology Grand Rounds, University of South Florida, Tampa, FL. February 8, 2013.
480. Mitochondrial Disorders in Children. Clinical Presentations and Diagnostics. Children's Healthcare of Atlanta – Scottish Rite Hospital. Pediatric Grand Rounds, Atlanta, GA. February 12, 2013.
481. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Atlanta Chapter of the UMDF, Mercer University, February 12, 2013, Atlanta, GA.
482. Mitochondrial Disorders in Children. Clinical Presentations and Diagnostics. Children's Healthcare of Atlanta – Egelston Children's Hospital. Pediatric Grand Rounds, Atlanta, GA. February 12, 2013.
483. Current Therapies in the Treatment of Mitochondrial Disease. 2013 UMDF Mini-Symposium, Ohio Chapter of the UMDF. Akron Children's Hospital, Akron, OH. February 17, 2013.
484. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. East Tennessee Chapter of the UMDF. Knoxville, TN. April 15, 2013.
485. Current Therapies in the Treatment of Mitochondrial Disease. Pediatric Grand Rounds. East Tennessee Children's Hospital. Knoxville, TN, April 16, 2013.
486. Mitochondrial Disease: The New Frontier. Pediatric Grand Rounds. University Medical Center, University of Nevada – Las Vegas Campus. May 3, 2013.
487. Case Studies in Mitochondrial Disease. Department of Pediatrics Noon Seminar. University Medical Center, University of Nevada – Las Vegas Campus. May 3, 2013.
488. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Las Vegas Chapter of the UMDF. May 3, 2013.
489. Drugs: The Good, The Bad, and The Ugly. UMDF Annual Symposium Scientific Sessions, Mitochondrial Medicine 2013, Newport Beach, CA. June 12, 2013.
490. Mitochondrial Medicine 2013 Update of Research. UMDF Annual Symposium Family Sessions, Mitochondrial Medicine 2013, Newport Beach, CA. June 15, 2013.
491. Mitochondrial Diseases in Children. Pediatric Grand Rounds. A.I. DuPont Medical Center. Wilmington, DE. June 26, 2013
492. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Delaware Valley Chapter of the UMDF. June 26, 2013.
493. The Genetics of Mitochondrial Disorders. Seminar for Medical Genetics. St. Christopher Hospital for Children. Philadelphia, June 27, 2013.
494. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Texas Chapter of the UMDF. Austin, TX, July 25, 2013.
495. Mitochondrial Diseases in Children. Pediatric Grand Rounds. Dell Children's Hospital. Austin, TX. July 26, 2013

496. Mitochondrial Disorders Causing Developmental Disabilities and Autism. Parent-2-Parent, Texas Chapter. San Marcos, TX. July 26, 2013.
497. Treatments for Mitochondrial Disorders. University of Chicago Medical Center, Seminar – Pediatric Neurology. Chicago, IL, August 1, 2013.
498. Mitochondrial Diagnostics: Special Seminar, Pediatric Neurology, Rush University Medical Center, Chicago, IL, August 1, 2013
499. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Chicago Chapter of the UMDF. Oak Brook, IL, August 1, 2013
500. Mitochondrial Diseases: The New Frontier. Pediatric Grand Rounds, Lurie Children’s Hospital, Northwestern University. Chicago, IL, August 2, 2013.
501. 30 Years of Mitochondrial Disease. Pediatric Neurology Conference Series. Mayo Clinic. Rochester, MN, August 7, 2013.
502. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Minnesota Chapter of the UMDF. St. Paul, MN. August 7, 2013.
503. Mitochondrial Disorders in Children. Pediatric Grand Rounds, Gillette Children’s Medical Specialties, Regions Hospital, St. Paul, MN, August 8, 2013.
504. Cases in Mitochondrial Disease. Seminar for Pediatric Neurology and Genetics. Children’s Hospital and Clinics of Minnesota, St. Paul Campus, St. Paul, MN, August 8, 2013.
505. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Rochester-Mayo Chapter of the UMDF. Rochester, MN. August 8, 2013.
506. Mitochondrial Disorders: The New Frontier. Pediatric Grand Rounds, Mayo Clinic, Rochester, MN, August 9, 2013.
507. CPT E&M Coding: It’s All About Time. Akron Children’s Hospital Coding Conference. Akron Children’s Hospital. Akron, OH, October 5, 2013.
508. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Central Florida Chapter of the UMDF. Orlando, FL, October 7, 2013.
509. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Nemour Children’s Hospital, Orlando, FL, October 8, 2013.
510. Diagnosis and Treatment of Mitochondrial Disease, 2013 Neurobiology of Disease in Children, 42nd Annual Meeting of the Child Neurology Society. Austin, TX, October 30, 2013.
511. ACOs and New Payment Models: How this will Affect Reimbursement for the Child Neurologist, In: Shifting Models of Healthcare Delivery and the Child Neurologist. Breakfast Seminar, 42nd Annual Meeting of the Child Neurology Society. Austin, TX, October 31, 2013.
512. Reimbursement Changes and CPT Changes: How this will affect reimbursement for the developmental pediatrician and cognitive neurologist. Neurodevelopmental Special Interest Group Meeting, 42nd Annual Meeting of the Child Neurology Society. Austin, TX, October 31, 2013.
513. Neuromuscular Presentations of Mitochondrial Diseases. Neuromuscular Section Seminar, University of Alabama Medical Center, Department of Neurology, Birmingham, AL, November 21, 2013.
514. Genetic Testing for Mitochondrial and Neurogenetic Disorders. Pediatric Neurology Seminar, Children’s Hospital of Alabama, Department of Neurology, Birmingham, AL, November 21, 2013.
515. Mitochondrial Disorders: The New Frontier. Pediatric Grand Rounds, Alabama Children’s Hospital. Birmingham, AL, November 21, 2013.
516. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Alabama Chapter of the UMDF. Birmingham, AL, November 21, 2013.
517. Case Studies in Mitochondrial Disease: When NextGen Does not Provide Answers. Seminar for Medical Genetics. Department of Genetics, University of Alabama School of Medicine. Birmingham, AL, November 22, 2013.
518. Testing for Mitochondrial Disorders: Where We Have Been, Where We Are Now and Where We Are Going. Genetics Grand Rounds, University of Alabama School of Medicine. Birmingham, AL, November 22, 2013.

519. Clinical Aspects of Mitochondrial Disorders. 3rd Annual Conference of The Society of Mitochondrial Research and Medicine – India; Mitochondria in Health and Disease. National Institute of Mental Health and Neuro Sciences (NIMHANS). Bengaluru, India, December 19, 2013.
520. Recognition and Diagnosis of Brain Tumors. Arab Health Congress, 7th Middle East Paediatrics Conference. Dubai International Convention Center, Dubai, United Arab Emirates, January 29, 2014.
521. Mitochondrial Disease: A Primer. The State of the Art Lecture in the Program: Arab Health Congress, 7th Middle East Paediatrics Conference. Dubai International Convention Center, Dubai, United Arab Emirates, January 29, 2014.
522. Paroxysmal Non-Epileptiform Disorders in Children. Department of Pediatric Grand Rounds, Akron Children's Hospital. Akron, OH, February 21, 2014.
523. Mitochondrial Disorders: The New Frontier. Pediatric Grand Rounds, Cardinal Glennon Children's Hospital, St. Louis University. St. Louis, MO, March 5, 2014.
524. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. St. Louis Chapter of the UMDF. St. Louis, MO, March 5, 2014.
525. Mitochondrial Disorders: The New Frontier. Gastroenterology Grand Rounds, Barnes Jewish Medical Center, Washington University, St. Louis University. St. Louis, MO, March 6, 2014.
526. Diagnostic Criteria for Mitochondrial Disease: What do Primary, Secondary and Other Classifications Mean? Pediatric Neurology Seminar, St. Louis Children's Hospital, Washington University. St. Louis, MO, March 6, 2014.
527. Mitochondrial Disorders: The New Frontier, Neurology Grand Rounds, Bowman Gray College of Medicine – Wake Forest University. Winston-Salem, NC, March 18, 2014.
528. Primary and Secondary Mitochondrial Disorders: Where does Dysautonomia Fit In? Great Lakes Regional Symposium of the UMDF. Riley Children's Hospital, Indianapolis, IN, March 21, 2014.
529. Screening and Evaluation of Mitochondrial Disorders. Great Lakes Regional Symposium of the UMDF. Riley Children's Hospital, Indianapolis, IN, March 22, 2014.
530. The Relative Value Updates Committee (RUC): What is the Function, What it Cannot Do, and the AAN's Role. The Practice of Neurology: Issues in Coding and Reimbursement. C6: Full Day Course, Annual Meeting of the American Academy of Neurology, Philadelphia, PA, April 26, 2014.
531. Office and Hospital Evaluation and Management Coding: Knowing the Basics Will Maximize Your Reimbursement. C6: Full Day Course, Annual Meeting of the American Academy of Neurology, Philadelphia, PA, April 26, 2014.
532. E/M: Minimize Mistakes, Maximize Reimbursement. C43. Morning Course, Annual Meeting of the American Academy of Neurology, Philadelphia, PA, April 27, 2014.
533. Neurological Manifestations of Mitochondrial Diseases in Children. Neurology Conference, Department of Neurology, Children's National Medical Center, Washington, DC, May 6, 2014.
534. Diagnosis and Treatment of Mitochondrial Diseases. Greater Baltimore Neurology Monthly Seminar. Baltimore, MD, May 6, 2014.
535. Childhood Cancer Trial Development: Lessons for Mitochondrial Disease Therapy. Annual Meeting of the Mitochondrial Medicine Society. Pittsburgh, PA, June 5, 2014.
536. Primary, Secondary and other Classifications of Mitochondrial Disorders: Developing a Working Paradigm. UMDF Annual Symposium, Family Program, Pittsburgh, PA, June 7, 2014.
537. Annual Meeting Summary. UMDF Annual Symposium, Family Program, Pittsburgh, PA, June 7, 2014.
538. Physiological manifestations of exercise intolerance in patients with mitochondrial myopathies. United Mitochondrial Disease Foundation Annual Meeting, Pittsburgh, PA. June 6, 2014.
539. Clinical Challenges in Establishing a Mitochondrial Diagnosis. Euromit 2014, Patient and Family Session, Tampere, Finland, June 18, 2014.
540. Panel Presentation: Clinical Aspects of Mitochondrial Disease. Euromit 2014, Patient and Family Session, Tampere, Finland, June 18, 2014.
541. Opening Address, Joint Conference of the Scientific and Family Meeting. Euromit 2014, Patient and Family Session, Tampere, Finland, June 18, 2014.

542. Mitochondrial Diseases in Children. Grand Rounds, LeBonheur Children's Hospital, University of Tennessee. Memphis, TN, July 16, 2014.
543. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Tennessee Regional Family Meeting of the UMDF. Memphis, TN, July 16, 2014.
544. Mitochondrial Toxicity of Cancer Chemotherapy. Grand Rounds. St. Jude Children's Research Hospital, Memphis, TN, July 17, 2014.
545. Genetic Testing for Neurological Disorders. Payers Summit, American Academy of Neurology Medical Economics and Management Committee Special Session, American Academy of Neurology, Minneapolis, MN, August 15, 2014.
546. Therapies, Therapeutic Targets and Strategies for The Treatment of Mitochondrial Diseases. The Mitochondrial Conundrum: Novel Presentations and Treatments of Mitochondrial Disease. Seattle Children's Research Institute Symposium. Bell Harbor International Convention Center, Seattle, WA, September 12, 2014.
547. Mitochondrial Diagnosis and Therapy. Parents Meeting. Seattle Children's Research Institute and Mitochondrial Research Guild. Seattle, WA, September 13, 2014.
548. Mitochondrial Disorders: The New Frontier: The Adam Barsky Memorial Lecture. Pediatric Grand Rounds Series. The Hospital for Sick Children, Toronto, Ontario, Canada, September 24, 2014.
549. Mitochondrial Diseases: The Diagnostic Pathway. Department of Neurology Seminar. The Hospital for Sick Children, Toronto, Ontario, Canada, September 25, 2014.
550. Clinical Trials in Mitochondrial Disease. Department of Medical Genetics Seminar. The Hospital for Sick Children, Toronto, Ontario, Canada, September 24, 2014.
551. Case Studies in Mitochondrial Diseases. Department of Medical Genetics Seminar. The Hospital for Sick Children, Toronto, Ontario, Canada, September 24, 2014.
552. Pediatric Neurology wRVUs in the Hospital-Based Practice Setting. Professors of Child Neurology Annual Meeting. Columbus, OH, October 10, 2014.
553. The Last 50 Years of Healthcare, And the Next Five: Implications for Child Neurology Practice. Seminar at Children's Hospital of New Orleans, Louisiana State University, New Orleans, LA, November 17, 2014.
554. RVUs in Child Neurology Practice. Seminar at Children's Hospital of New Orleans, Louisiana State University, New Orleans, LA, November 17, 2014.
555. CPT E&M Coding for Child Neurologists. Seminar at Children's Hospital of New Orleans, Louisiana State University, New Orleans, LA, November 17, 2014.
556. The Electronic Medical Record: How to Adapt Your Practice. Seminar at Children's Hospital of New Orleans, Louisiana State University, New Orleans, LA, November 17, 2014.
557. New Therapies for Mitochondrial Diseases. Seminar at Children's Hospital of New Orleans, Louisiana State University, New Orleans, LA, November 18, 2014.
558. Nutritional Interventions in Pediatric Mitochondrial Diseases; Which Ones are Used and for What Purpose. Nutritional Interventions in Primary Mitochondrial Disorders: Developing an Evidence Base. National Institutes of Health, Rockville, MD, December 2, 2014.
559. Clinical Trials In Mitochondrial Disease – It is Not Your Father's Oldsmobile: Endpoints, Biomarkers, and Other Barriers. Nutritional Interventions in Primary Mitochondrial Disorders: Developing an Evidence Base. National Institutes of Health, Rockville, MD, December 2, 2014.
560. New Therapies for Mitochondrial Diseases. Society for Mitochondrial Research and Medicine, 4th Annual Conference, Mitochondrial Biology: From Molecules to Disease. Melaka-Manipal Medical College, Manipal, India, December 9, 2014.
561. Mitochondrial Diseases and the Neurologist. Department of Neurology Grand Rounds, UCLA Medical Center, Los Angeles, CA, December 17, 2014.
562. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Buffalo, NY, December 18, 2014.
563. Mitochondrial Diseases in Children. Department of Pediatric Grand Rounds, Buffalo Woman's and Children's Hospital of Buffalo, Buffalo, NY, December 19, 2014.

564. Genetic Testing in Mitochondrial Diseases. Seminar for the Department of Genetics, Buffalo Woman's and Children's Hospital of Buffalo, Buffalo, NY, December 19, 2014.
565. Mitochondrial Diseases in Children. Department of Pediatric Grand Rounds, MetroHealth Medical Center, Cleveland, OH, January 15, 2015.
566. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Oregon Health & Science University, Portland, OR, February 11, 2015.
567. Mitochondrial Disorders, The New Frontier. Department of Genetics Grand Rounds, Oregon Health & Science University, Portland, OR, February 12, 2015.
568. Mitochondrial Diseases in Children. Department of Neurology Grand Rounds, Detroit Medical Center and Wayne State University Hospital - Medical Center, Detroit, MI, February 27, 2015.
569. Neurogenetics for Epileptologists. Special Seminar. Department of Neurology Grand Rounds, Detroit Medical Center and Wayne State University Hospital - Medical Center, Detroit, MI, February 27, 2015.
570. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Carolinas Medical Center, Charlotte, NC, March 10, 2015.
571. Mitochondrial Disorders in Children. Grand Rounds, Levine Children's Hospital, Carolinas Medical Center, Charlotte, NC, March 11, 2015.
572. 33 Years as a Mitochondrial Doctor: Where We Have Been and Where we are Going. Special presentation to Physicians and Community Leaders. Charlotte, NC. March 11, 2015.
573. The Basics of Office and Hospital E&M Coding. The Practice of Neurology: Issues in Coding and Reimbursement, American Academy of Neurology C6 Course. American Academy of Neurology Annual Meeting. Washington, DC, April 18, 2015.
574. E&M Coding: Billing for Time, Complex Coordination of Care and Transitional Care Management. Advanced Neurologic Coding C14 Course. American Academy of Neurology Annual Meeting. Washington, DC, April 18, 2015.
575. Coordination of Care with Mitochondrial Specialists. Scientific Symposium. The Great Lakes Regional Mitochondrial Medicine Symposium, The United Mitochondrial Disease Foundation. Michigan State University, East Lansing, MI, May 1, 2015.
576. Mitochondrial Disease: What it is and What to Expect. Family Symposium. The Great Lakes Regional Mitochondrial Medicine Symposium, The United Mitochondrial Disease Foundation. Michigan State University, East Lansing, MI, May 2, 2015.
577. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Children's Hospital of Orange County. Orange, CA, May 12, 2015.
578. Mitochondrial Disorders in Children. Grand Rounds, Children's Hospital of Orange County. Orange, CA, May 13, 2015.
579. Mitochondrial Myopathies in Adults. The Changing Spectrum of IMD: Surviving longer and growing old with IMDs Conference, Recordati Rare Disease Foundation. Washington, DC. May 22, 2015.
580. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families, Norton Hospital. Louisville, KY, June 3, 2015.
581. Mitochondrial Disorders in Children. Grand Rounds, Kosair Children's Hospital, Louisville, KY, June 4, 2015.
582. Basics of E/M Coding. American Academy of Neurology Webinar, Original Broadcast on October 16, 2015.
583. What Pediatricians Need to Know about Genetic Testing. Seminar, Visiting Professor Series, Department of Pediatrics, DuPont Nemours Children's Hospital, Wilmington, DE, October 20, 2015.
584. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Department of Pediatrics, DuPont Nemours Children's Hospital, Wilmington, DE, October 21, 2015.
585. Current Therapies and Treatments for Mitochondrial Disease in Adults. Webinar, UMDF Series, www.umdf.org; October 28, 2015.
586. New Therapies in Human Mitochondrial Disease. Society for Mitochondrial Research and Medicine's 5th Annual Conference - Mitochondria in Cancer and Neurodegenerative Disorders. Aravind Medical Research Foundation, Madurai, Tamil Nadu, India, November 7, 2015.
587. Health Care Payment Models: 50 Years of History and What the Future Holds. Where to APPs Fit In? Akron Children's Hospital Advance Practice Providers Leadership Annual Meeting. Akron, OH, November 11, 2015.

588. Mitochondrial Myopathy and Current Clinical Trials. MitoAction Webnair. <https://itunes.apple.com/podcast/mitoaction-org-podcast/id290467730> and <http://www.mitoaction.org/blog/mitochondrial-myopathy> November 20, 2015.
589. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. University of Florida, Jacksonville, FL, December 16, 2015.
590. Mitochondrial Disorders. Grand Rounds, Mayo Clinic, Jacksonville, FL, December 17, 2015.
591. Whole exome testing: Case studies; treatable diseases. 9th Middle East Paediatrics Conference, Arab Health, Dubai, UAE, January 27, 2016.
592. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Ft. Worth, TX, February 8, 2016.
593. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Department of Pediatrics, Cook Children's Hospital, Ft. Worth, TX, February 9, 2016.
594. Clinical Trials in Mitochondrial Diseases, United Mitochondrial Disease Foundation, Central Region Regional Symposium (CME), held at University of Texas Medical Center, Houston, TX, February 12-13, 2016.
595. Old and New Approaches to the Treatment of Mitochondrial Diseases, United Mitochondrial Disease Foundation, Central Region Regional Symposium, held at University of Texas Medical Center, Houston, TX, February 13, 2016.
596. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Akron, OH, March 10, 2016.
597. Mitochondrial Disorders. Pediatric Grand Rounds. Akron Children's Hospital, Akron, OH, March 11, 2016.
598. Potential Treatments and Therapies. United Mitochondrial Disease Foundation Great Lakes Mini-Symposium. Mayo Clinic, Rochester, MN, May 20, 2016.
599. Treatments and Therapies for Mitochondrial Diseases. United Mitochondrial Disease Foundation Great Lakes Family Symposium. Mayo Clinic, Rochester, MN, May 21, 2016.
600. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Maine Medical Center, Portland, ME, June 1, 2016.
601. Mitochondrial Disorders. Pediatric Grand Rounds. Barbara Bush Children's Hospital, Maine Medical Center, Portland, ME. June 2, 2016.
602. New Research in Mitochondrial Medicine. Family Conference, Annual Symposium of the United Mitochondrial Disease Foundation. Seattle, WA, June 18, 2016.
603. Mitochondrial Medicine: Primary and Ecogenetic Disorders. Department of Medicine Grand Rounds. Cleveland Clinic. Cleveland, OH, September 1, 2016.
604. Therapy and Therapeutic Trials for Mitochondrial Disorders. Rebecca D. Considine Research Institute Building A Culture of Research Series. Akron Children's Hospital, Akron, OH January 17, 2017.
605. Paroxysmal Non-Epileptiform Disorders: Not Everything That Shakes is Epilepsy. 10th Mideast Pediatric Conference; Arab Health Congress. Dubai, United Arab Emirates, January 30, 2017.
606. Mitochondrial Disorders, Grand Rounds. Al-Jalal Children's Hospital, Dubai, United Arab Emirates, January 31, 2017.
607. Mitochondrial Disorders in Children, Grand Rounds, Department of Pediatrics, Alabama Children's Hospital, University of Alabama, Birmingham, AL, April 6, 2017.
608. Case Studies in Mitochondrial Diseases, Mitochondrial Medicine 2017, Southeast Regional Symposium, Grand Bohemian Hotel, Birmingham, AL, April 7, 2017.
609. Developing Treatments for Mitochondrial Diseases, Mitochondrial Medicine 2017, Southeast Regional Symposium, Grand Bohemian Hotel, Birmingham, AL, April 7, 2017.
610. Omaveloxolone (RTA-408) Clinical Trial, Mitochondrial Medicine 2017, Southeast Regional Symposium, Grand Bohemian Hotel, Birmingham, AL, April 7, 2017.
611. Mitochondrial Disorders. UMDF Conference for Medical Professionals, Patients and Families. Golisano Children's Hospital, Ft. Myers, FL, May 11, 2017.
612. Mitochondrial Disorders in Children, Pediatric Grand Rounds, Golisano Children's Hospital, Ft. Myers, FL, May 11, 2017.
613. Scientific Review of Mitochondrial Medicine 2017, UMDF Symposium, Alexandria, VA, July 1, 2017.

614. Mitochondrial Disorders in Children. Bob I. Eiben Visiting Professor Lecture Series, Pediatric Grand Rounds, MetroHealth Medical Center, Cleveland, OH, September 7, 2017.
615. Non-Epileptic Movement Disorders, Bob I. Eiben Visiting Professor Lecture Series, Noon Lecture Series, MetroHealth Medical Center, Cleveland, OH, September 7, 2017.
616. Chromosomal Microarray and Clinical Exome: Basic Review of The Technology. Bob I. Eiben Visiting Professor Lecture Series, Resident Conference, MetroHealth Medical Center, Cleveland, OH, September 7, 2017.
617. Coding and the Future of Child Neurology, Presidential Symposium, Child Neurology Society 46th Annual Meeting, Kansas City, MO, September 28, 2017.
618. Treatments and Clinical Trials in Mitochondrial Disease. UMDF Regional Symposium, Akron Children's Hospital, Akron, OH, October 13, 2017.
619. Mitochondrial Therapies. UMDF Regional Symposium Family Meeting, Akron Children's Hospital, Akron, OH, October 14, 2017.
620. Mitochondrial Diseases. The Bob I. Eiben Visiting Professor Lecture, Grand Rounds, University Hospitals of Cleveland and Case Western Reserve University, Cleveland, OH, December 15, 2017.
621. A Child with Hypotonia. 11th Mideast Pediatric Conference; Arab Health Congress. Dubai, United Arab Emirates, January 30, 2018.
622. Current and Potential Treatments and Therapies for Mitochondrial Diseases. UMDF Pacific Regional Mitochondrial Disease Scientific Symposium. University of California, San Diego. San Diego, CA, February 23, 2018.
623. Roadmap to A Cure and Mitochondrial Medicine Society. UMDF Pacific Regional Mitochondrial Disease Symposium. University of California, San Diego. San Diego, CA, February 23, 2018.
624. Current and Potential Treatments and Therapies for Mitochondrial Diseases. UMDF Pacific Regional Mitochondrial Disease Family Symposium. University of California, San Diego. San Diego, CA, February 23, 2018.
625. What Do I need to Know About Coding in My Practice? Experiential Learning Talk. American Academy of Neurology Annual Meeting, April 26, 2018.
626. Non-Face-to-Face and Time-Based E/M Codes. Coding 101 Course, American Academy of Neurology Annual Meeting, April 27, 2018.
627. Overview of Clinical Trial Development in Mitochondrial Diseases. (talk prepared by me and delivered by a colleague in my emergency absence). UMDF Symposium, Nashville, TN, June 29, 2018.
628. Environmental-Induced Mitochondrial Disorders. (talk prepared by me and delivered by a colleague in my emergency absence). UMDF Symposium, Nashville, TN, June 30, 2018.
629. The History of Mitochondrial Diseases and Clinical Trial Update. Department of Metabolism, Boston Children's Hospital, Harvard University, Boston, MA, July 17, 2018.
630. Mitochondrial Disease: What the Epileptologist Needs to Know. Division of Epilepsy, Department of Neurology, Boston Children's Hospital, Harvard University, Boston, MA, July 19, 2018.
631. The Patient Experience: High-Priced Medication. Rare Patient Advocacy Summit. Sponsored by Global Genes and The Child Neurology Foundation. Irvine, CA, October 5, 2018.
632. Neurology; 2019 New Codes. CPT and RBRVS 2019 Annual Symposium. Chicago, IL. November 15, 2018.
633. Leigh Syndrome. Australia Mitochondrial Disease Foundation – AussieMit 2018 Family Meeting. Melbourne, Australia, December 1, 2018.
634. Preserve Access to Care for Neurologic Patients. At Neurology on the Hill, American Academy of Neurology. Alexandria, VA. February 25, 2019.
635. Understanding How You Get Paid. American Academy of Neurology Webinar. March 12, 2019.
636. Primary Mitochondrial Diseases. Harvard Department of Neurology Grand Rounds, Harvard University, Boston, MA. May 1, 2019.
637. What's New with E/M. Experimental Learning Center, American Academy of Neurology Annual Meeting, Philadelphia, PA. May 4, 2019.

638. The CPT Process. Industry Relations Seminar. American Academy of Neurology Annual Meeting, Philadelphia, PA. May 4, 2019.
639. Mitochondrial Cytopathies. Metabolism in Child Neurology Course. American Academy of Neurology Annual Meeting, Philadelphia, PA. May 7, 2019.
640. Non-Face-To-Face and New CPT Codes for 2019. Coding 101 Course. American Academy of Neurology Annual Meeting, Philadelphia, PA. May 7, 2019.
641. Leigh Syndrome Roadmap Project. United Mitochondrial Disease Foundation Annual Meeting, Alexandria, VA. June 27, 2019.
642. Defining and Assessing Clinical Benefit: The Scientific Perspective. Developing Therapies for Primary Mitochondrial Diseases: Bridging the Gaps. Food and Drug Administration Symposium. FDA Headquarters, White Oak Campus, Silver Spring, MD, September 6, 2019.
643. Mitochondrial Diseases and Therapies. The United Mitochondrial Disease Foundation's Carolina Chapter's Family Meeting. Levine Children's Hospital, Charlotte, NC, October 22, 2019.
644. Mitochondrial Disease Update: What is New in the Last 10 Years. Neurology Grand Rounds. University of Toledo – ProMedica Hospital System. Toledo, OH, December 5, 2019.
645. Coding for Evaluation and Management (E/M) Telemedicine Services. Akron Children's Hospital Series, Akron Children's Hospital, Akron, OH April 6, 2020. <https://www.akronchildrens.org/pages/Enduring-Materials.html>
- 646.

Visiting Professorships

- Curso Internacional de Actualizacion en Neurologia. Hospital Central Military Mexico City, Mexico, March 5-7, 1995.
- St. Christopher's Children's Hospital, Philadelphia, PA, January 24, 2005.
- Seattle Children's Hospital, Grand Rounds. Seattle, WA, November 9, 2006.
- University of Minnesota, Minneapolis, Duluth and St. Paul MN, August 28-30, 2007.
- Oregon Health Sciences University. Portland, OR, December 12-13, 2007.
- Wake Forest University Medical Center, Winston-Salem, NC, June 13, 2008.
- University of Alabama Medical Center, Birmingham, AL, June 4-5, 2009.
- Medical University of South Carolina, Charleston, SC, April 5, 2011
- Miami Children's Hospital, Robert H. Cullen, Jr, MD Lecture, Miami, FL. July 18, 2011
- Children's Hospital of Los Angeles, Aaron Michael Graham Lecture, Los Angeles, CA, October 19, 2012.
- Wake Forest University Medical Center, Department of Neurology, Winston-Salem, NC, March 18, 2014.
- Hospital For Sick Children, Adam Barsky Memorial Lectureship, Department of Neurology, Toronto, Ontario, Canada, September 24-25, 2014
- The Center for Embryonic Cell and Gene Therapy. Office of the Senior Vice President for Research, Oregon Health & Science University, Portland, OR, February 11-12, 2015.
- DuPont Children's Hospital. Department of Pediatrics, Wilmington, DE. October 20-21, 2015.
- MetroHealth Medical Center, Department of Pediatrics, Eiben Visiting Professorship Lecture Series, September 7, 2017 and December 15, 2017.
- Boston Children's Hospital, Departments of Metabolism and Neurology, July 17-19, 2018.

Trainees/Mentees

Pediatric Neurology Residents

<u>YEAR</u>	<u>NAME</u>	<u>CURRENT LOCATION</u>
1989	Lou Artacho	Fresno, CA
1989	Shobha Asthana	Pittsburgh, PA
1990	Michael Chez	Sacramento, CA
1990	Sudhir Malik	Steubenville, OH
1992	Gurmeet Singh	Barnsville, OH
1993	Bernado Flasterstein	Springfield, MO, Palm Beach FL
1994	Frank Berenson	Atlanta, GA

1994	Srinivas Halthore	Las Vegas, NV
1995	Ann Joseph	Milwaukee, WI
1995	Nancy Bass	B&C/Cleveland
1996	Bob Moorjani	Washington, DC; Buffalo, NY; California
1996	Ari Weinstock	Buffalo, NY
1997	Wayne Langburt	Toronto, Ontario
1997	Eduardo Gallegos	San Diego, CA
1998	Nadia Akhtar	Tucson, AZ
1998	Kelly O'Neill Maton	Miami, FL
2000	Jose Aceves	Fort Worth, TX
2000	Russell Saneto	Seattle, WA
2000	Edna Ty	The Philippines
2001	Ajay Gupta	Cleveland Clinic
2001	Deborah Rukin-Gold	RB&C/Cleveland
2001	Abdullah Abdullah	Akron Children's Hospital, Akron, OH, Dubai Health Authority
2002	Debabrata Ghosh	Cleveland Clinic, Nationwide Children's
2005	Sudeshna Mitra	Cleveland Clinic
2003	Mohammed Al-Muhaizea	Saudi Arabia
2004	M. Cristina Victorio	Akron Children's Hospital, Akron, OH
2004	Gita Harappanahally	Hasbro Children's Hospital, Providence, RI
2005	Andre Prochoroff	MetroHealth Medical Center, Cleveland, OH
2005	Ghazala Quraishi	Atlanta, GA
2006	Hossam AbdelSalam	Chicago, IL
2006	Rowena Rivera	Akron Children's, Harrisburg, PA
2008	Tobias Loddenkemper	Boston Children's Hospital Boston, MA
2008	Kohilavani Velayudam	Vanderbilt University, Nashville, TN
2009	Asit Tripathy	University of Iowa Clinics, Des Moines, IA
2009	Ahsan MoosanNaduvil Valappil	Cleveland, OH
2010	Ngoc Minh D. Le	Miami, FL, Orlando, FL, Courtagen LifeSciences
2010	Ninon Pachikara	Houston, TX
2011	Catalina Cleves	Pittsburgh, PA
2011	Shalaka Indulkar	Fayetteville, NC
2012	Carey Taute Lockhart	Seattle Children's Hospital Seattle, WA
2012	Partha Ghosh	Boston Children's Hospital, Boston, MA

Pediatric Residents

1999-2001 Ajay Gupta – Cleveland Clinic, Cleveland, OH

1994-7 Russell Saneto – Seattle Children's Hospital, Seattle, WA

Adult Neurology Residents (special mentoring)

1997-8 Ravi Dukkipati - Camp Hill, PA

1998-9 Li Ling Lim - Singapore

Neuro-Oncology Fellowship

1995-6 Glen Stevens - Cleveland Clinic

2001-2 Deborah Rukin-Gold - RB&C/Cleveland

Neuro-Metabolism Fellowship

2004-6 Sumit Parkih - Cleveland Clinic

Teaching Administration

1. Program Director, Pediatric Neurology Residency/Fellowship, Cleveland Clinic, November 1999 - January 2003

2. Program Director, Neurology and Pediatric Neurology Residency, Akron General Hospital and Akron Children's Hospital, Planning Phase 2012-2015.

Teaching Activities

1. Pediatric Neurology Clinic Resident's Supervisor, Harlem Hospital, 1985-1987.
2. Pediatric Neurology Resident's Clinic Attending, Children's Hospital of Philadelphia, 1987-1989
3. Neurofibromatosis Clinic, Neurology Consultant and Resident's Attending, Children's Hospital of Philadelphia, 1987-1989
4. Pediatric Neurology Resident's Clinic Attending (Outpatient), Cleveland Clinic, 1989-current
5. Pediatric Neurology On-Service Attending (Inpatient), Cleveland Clinic, 25% 1989-1991, 33% 1991-2001, 25% 2001-2003, ~15% 2004-current
6. Pediatric Neuro-Oncology Clinic (Outpatient, Pediatric and Neurology Residents), 1989-current
7. Neurology Residency Core Lecture Series, Cleveland Clinic, 3 lectures per year, 1989-current
8. Pediatric Residency Core Lecture Series, Cleveland Clinic, 3 lectures per year, 1989-current
9. Molecular Medicine Course, Cleveland Clinic PhD Curriculum. One 3 hour lecture per year 2007 - current
10. Mitochondrial Biology Course, Medical University of South Carolina, Department of Pharmacology. 2 hour lecture to PhD, PharmD and MD/PhD Students. April 5, 2011.

RESEARCH SUPPORT

Long-term Safety and Efficacy Evaluation of EPT-743 (Vincerinone) in Children with Leigh Syndrome, Extension Trial, Edison Pharma, 2015-2016; \$46,550.03

Understanding the Mechanisms of Mitochondrial Disease: A Transformative Approach from the Patient to Cell and Back to the Patient, collaboration with Dr. William Chilian, PhD, NEOMED, 2015. \$15,000; Children's Hospital Medical Center of Akron.

RTA408: Reata Pharmaceuticals. A Phase 2 Study of the Safety, Efficacy, and Pharmacodynamics of RTA 408 in the Treatment of Mitochondrial Myopathy (MOTOR).

SPIMM-201: Bendavia Mitochondrial Myopathy, Steath BioTherapeutics. \$25,993 per subject, \$43,205 due)

An Open-Label, Dose-Escalating Study to Assess the Safety, Tolerability, Efficacy, Pharmacokinetics and Pharmacodynamics of Cysteamine Bitartrate Delayed-release Capsules (RP103) for Treatment of Children with Inherited Mitochondrial Disease. Raptor Pharmaceuticals, 3/1/2014 - (\$569,816 total maximum, current \$72,061 + \$42956 due)

Long-term Safety and Efficacy Evaluation of EPI-743 (Vincerinone™) in Children with Leigh Syndrome (Protocol #EPI-743-13-023). Edison Pharmaceuticals, 10/31/13 - \$568,816.00

Emergency Use Protocol for EPI-743 in Acutely Ill Patients with Inherited Mitochondrial Respiratory Chain Disease Within 90 Days of End-of-Life Care (Protocol # EPI2009-1), Edison Pharmaceuticals, 12/13/2010 - \$235,068.00

A Phase 2B Randomized, Placebo Controlled, Double Blind Clinical Trial of EPI-743 in Children with Genetically-Confirmed Leigh Syndrome (Protocol EPI743-12-002), Edison Pharmaceuticals, 10/08/2012 - \$213,024.00

Development of a Mitochondrial Disease Patient Registry (Subaward 9 - PG005820). The Trustees of Columbia University in the City of New York - Anonymous Private Foundation, 11/01/2011-10/31/2013, \$12,000.00

North American Mitochondrial Disease Consortium (NAMDC) (Subaward 8 (GG006326). The Trustees of Columbia University in the City of New York - Anonymous Private Foundation, 09/01/2012-08/31/2013, \$2,500.00

North American Mitochondrial Disease Consortium (NAMDC) (Subaward 3(GG010312-21), Federal PTE Number 5U54NS078059-07. The Trustees of Columbia University in the City of New York - Anonymous Private Foundation, 09/01/2012-08/31/18-8/31/19

North American Mitochondrial Disease Consortium (NAMDC) (The Trustees of Columbia University in the City of New York - Anonymous Private Foundation, 09/01/2012-08/31/2013, \$2,500.00

Single Patient IND Clinical Trial of EPI-743 in Glioblastoma (Protocol #: EPI-743-GMB-001). Edison Pharmaceuticals, 11/11/11-04/02/2012, \$1,400.00

Children's Oncology Group 98543-03 Subcontract #14576 \$13,901 (For budget period of 3/1/05 – 2/28/06)

Children's Oncology Group 98543-02 Subcontract #13108 \$24,507 (For budget period of 3/1/04 – 2/28/05)

Children's Oncology Group 98543-01 Subcontract #11845 \$23,793 (For budget period of 3/1/03 – 2/28/04)

Peter Preuss Foundation Grant, Contract # 19871988, \$20,000 . (For budget period of 7/1/87-6/30/88)

American Cancer Society, Clinical Oncology Fellow Grant Contract # 19881989 (For budget period of 7/1/88-6/30/89).

BIBLIOGRAPHY

Peer Reviewed Articles & PubMed

1. Y. Chen, B. Cohen, P.P. Gaspar: Rearrangement of bis(trimethylsilyl) silylene (Me₂Si)Si in the gas phase; new silylene- silylene interconversions. *Journal of Organometallic Chemistry* 1978;195.
2. B. Cohen, M. Handler, D. De Vivo, Garvin JH Jr, Hays AP, Carmel P: Central nervous system melanotic neuroectodermal tumor of infancy (CNS- MNTI): Value of chemotherapy in management. *Neurology* 1988;38:163- 164.
3. Roger J. Packer, Larissa T. Bilaniuk, Bruce H. Cohen, Bruce H. Braffman, Angela C. Obringer, Robert A. Zimmerman, Kathy R. Siegel, Leslie N. Sutton, Peter J. Savino, Elaine H. Zachai, Anna T. Meadows. Intracranial visual pathway gliomas in children with neurofibromatosis. *Neurofibromatosis* 1988;1:212- 222.
4. Bruce H. Cohen, Ed Bury, Roger J. Packer, Leslie N. Sutton, L. T. Bilaniuk, Robert A. Zimmerman: Gadolinium-DTPA enhanced magnetic resonance imaging in childhood brain tumors. *Neurology* 1989;39(9):1178- 1183.
5. Leslie N. Sutton, Robert E. Lensinski, Bruce H. Cohen, Robert A. Zimmerman: Localized ³¹P phosphorous magnetic resonance spectroscopy in large pediatric brain tumors. *J Neurosurg* 1990;72:65-70.
6. Roger J. Packer, Jeffrey C. Allen, Joel L. Goldwein, Joseph Newall, Robert A. Zimmerman, John Priest, Tadanori Tomita, David E. Mandelbaum, Bruce H. Cohen, Jonathan L. Finlay, Leslie N. Sutton, Giulio D'Angio: Hyperfractionated radiotherapy for children with brainstem gliomas: A pilot study using 7,200 cGy. *Ann Neurol* 1990;27:167- 173.
7. Jonathan L. Finlay, Charles August, Roger Packer, Robert Zimmerman, Leslie Sutton, Arno Fried, Lucy Rorke, Eliel Bayever, Naynesh Kamani, Eric Kramer, Bruce Cohen, Beth Sturgill, James Nachman, Sarah Strandjord, Patrick Turski, Sharon Friedich, Richard Steeves, Manucher Javid: High- dose multi- agent chemotherapy followed by bone marrow 'rescue' for malignant astrocytomas of childhood and adolescence. *J Neurooncol* 1990;9:239-248.
8. Jonathan Finlay, Roger Packer, James Nachman, Sarah Strandjord, Mitchell Cairo, Russell Geyer, Russell Walker, Mark Malkin, Paul Moots, James Garvin, Bruce Bostrom, Lawrence Ettinger, David Mandlebaum, Ka Wah Chen, Richard Harris, Bruce Cohen, Eric Kramer, Naynesh Kamani, Eliel Beyever and Charles August: High-dose chemotherapy with bone marrow rescue in children and young adults with recurrent high-grade brain tumors. In: *Autologous Bone Marrow Transplantation. Proceedings of the Fifth International Symposium on Autologous Bone Marrow Transplantation, The University of Nebraska Medical Center, 1991:599-611.*
9. Roger J. Packer, Leslie N. Sutton, Joel W. Goldwein, Giorgio Perilongo, Greta Bunin, Janis Ryan, Bruce H. Cohen, Giulio D'Angio, Eric D. Kramer, Robert A. Zimmerman, Lucy B. Rorke, Audrey E. Evans, Luis Schut: Improved survival with the use of adjuvant chemotherapy in the treatment of medulloblastoma. *J. Neurosurg* 1991;74:433-440.
10. Michael R. Pranzatelli, Roger L. Albin, Bruce H. Cohen: Acute dyskinesias in young asthmatics treated with theophylline. *Pediatr Neurol* 1991;7:216-219.
11. Bruce H. Cohen, Allen M. Kaplan, Roger J. Packer: Management of Intracranial Neoplasms in Children with Neurofibromatosis Type 1 and 2. *Pediatr Neurosurg* 1990-91;16:66-72.
12. Bruce H. Cohen, Patrick Zweidler, Joel Goldwein, Roger J. Packer: Ototoxicity of cis- platinum in children with brain tumors receiving cranial irradiation. *Pediatr Neurosurg* 1990-91;16:292-296.
13. Sudir Malik, Bruce H. Cohen, Arno Fried, John Robinson, Cathy A. Sila: Progressive vision loss: A rare manifestation of familial cavernous angiomas. *Arch Neurol* 1992;49:170-173.
14. John C. Egelhoff, Douglas J. Bates, Jeffrey S. Ross, A. David Rothner, Bruce H. Cohen: Spinal MR findings in neurofibromatosis types 1 and 2. *AJNR* 1992;13:1071-1077.

15. Bruce H. Cohen, Roger J. Packer, Kathy R. Siegel, Lucy B. Rorke, Giulio D'Angio, Leslie N. Sutton, Derek A. Bruce, Luis Schut. Brain tumors in children under two years: Treatment, survival and long-term prognosis. *Pediatr Neurosurg* 1993;19(4):171-179.
16. Bruce H. Cohen. Metabolic and degenerative diseases associated with epilepsy. *Epilepsia* 1993;34:S62-S70.
17. Roger J. Packer, Leslie N Sutton, Roy Elterman, Beverly Lange, Joel Goldwein, Stacy Nicholson, Lynn Mulney, James Boyett, Guilo D'Angio, Kaethe Wechsler-Jentzsch, Gregory Reaman, Bruce H. Cohen, Derek A. Bruce, Lucy B. Rorke, Patricia Molloy, Janice Ryan, Debra LaFond, Audrey E. Evans, Luis Schut. Outcome of children with medulloblastoma treated with radiation and cisplatin, CCNU, and vincristine chemotherapy. *J Neurosurg* 81:690-698, 1994.
18. Ellis BD, Kosmorsky GS, Cohen BH. Medical and surgical management of acute disseminated encephalomyelitis. *J Neuroophthalmol* 14:210-213, 1994.
19. Bruce H. Cohen, James M. Boyett, A. Leland Albright, J. Russell Geyer, Jeffrey C. Allen, Jonathan L. Finlay, Patricia McGuire-Cullen, Jerrold M. Milstein, Lucy B. Rorke, Philip Stanley, James A. Stehbens, Susan B. Shurin, Jeffrey Wisoff, Kenneth R. Stevens, Paul M. Zeltzer. Factors and treatment results for supratentorial primitive neuroectodermal tumors in children using radiation and chemotherapy. A Childrens Cancer Group randomized trial. *J Clin Oncol* 13(7):1687-1696, 1995.
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21. Prakash Kotagal, Bruce H. Cohen, Joseph F. Hahn. Infantile Spasms in a child with brain tumor: seizure-free outcome after resection. *J Epilepsy* 8:57-60, 1995.
22. Bruce H. Cohen, Roger J. Packer. Chemotherapy for Medulloblastomas and Primitive Neuroectodermal Tumors. *J Neurol Oncol* 29:55-68, 1996.
23. Saneto RP, Fitch JA, Cohen BH. Acute Neurotoxicity of Meperidine in an Infant. *Pediatric Neurology* 14:339-341, 1996.
24. Jonathan L. Finlay, Stewart Goldman, Meng C. Wong, Mitchell Cairo, James Garvin, Charles August, Bruce H. Cohen, Philip Stanley, Robert A. Zimmerman, Bruce Bostrom, J. Russell Geyer, Richard E. Harris, Jean Saunders, Allen J. Yates, James M. Boyett, Roger J. Packer and The Childrens Cancer Group. Pilot study of high-dose thiotepa and etoposide with autologous bone marrow rescue in children and young adults with recurrent central nervous system tumors. *J Clin Oncol* 14:2495-2503, 1996.
25. Nancy E. Bass, Elaine Wyllie, Ann Joseph, Bruce H. Cohen. Pyridoxine dependent epilepsy: The Need For Repeated Trials and the Risk of Severe Electroencephalographic Suppression with Intravenous Therapy. *Journal of Child Neurology*, 11(5):422-424, 1996.
26. Arie Weinstock, Carolyn Green, Bruce H. Cohen, Richard A. Prayson. Becker Muscular Dystrophy Presenting as Eosinophilic Inflammatory Myopathy in an Infant. *J Child Neurol* 12:146-147, 1997.
27. S Goldman, MC Wong, J Garvin, M Cairo, C August, BH Cohen, B Bostrom, JR Geyer, RE Harris, AJ Yates, P Stanley, RJ Packer, JM Boyett, J Saunders, JL Finlay and the Childrens Cancer Group. High-dose thiotepa and etoposide with autologous marrow rescue (ABMR) for children and young adults with recurrent central nervous system (CNS) tumors. *Peds Neurosurgery*
28. DG Frankel, JS Lewin, BH Cohen. Massive Osteolysis of the Skull Base. *Pediatr Radiol* 27:265-267, 1997.
29. Gregory E. Plautz, Gene H. Barnett, David W. Miller, Bruce Cohen, Richard A. Prayson, John C. Krauss, Mark Luciano, Suyu Shu. Systemic T cell adoptive immunotherapy of malignant gliomas. *J Neurosurg* 88: 42-51, 1998.
30. Dasarahally S. Mohan, John H. Suh, Jennifer L. Phan, Patrick A. Kupelian, Bruce H. Cohen, Gene H. Barnett. Outcome in elderly patients undergoing definitive surgery and radiation therapy for supratentorial glioblastoma multiforme at a tertiary care institution. *Int J Radiation Oncology Biol Phys* 42 (5):981-987, 1998.
31. John H. Suh, Gene H. Barnett, Jason W. Sohn, Patrick A. Kupelian, Bruce H. Cohen. Linear accelerator-based stereotactic radiosurgery for recurrent and newly diagnosed acoustic neuromas. Submitted for publication.
32. Michael N. Needle, Patricia T. Malloy, Bruce H. Cohen, Claire Mazewski, Peter C. Phillips, Leslie Sutton. A phase I study of estramustine and etoposide in children with refractory cancer. Accepted for publication.
33. Roger J. Packer, Joel Goldwein, Stacy Nicholson, L. Gilbert Vezina, Jeffery C. Allen, M. Douglas Ris, Karin Muraszko, Lucy B. Rorke, William M. Wara, Bruce H. Cohen, James M. Boyett. Treatment of children with medulloblastomas with reduced-dose radiation therapy and adjuvant chemotherapy: A Children's Cancer Group Study. *Med Pediatr Oncol* 33:83-97, 1999.
34. Joel W. Goldwein, Lawrence W.C. Tom, Bruce Cohen, Beverly Lange, Georgio Perilongo, Leslie Sutton, Roger J. Packer, Giulio J. D'Angio. OncoLink: Late Radiation-Associated Deafness in Children Treated for Medulloblastoma and Brainstem

Tumors. HYPERLINK http://www.oncolink.upenn.edu/specialty/ped_onc/radiation/pedschap/lradeaf.html
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37. John H. Suh, Gene H. Barnett, Jason W. Sohn, Patrick A. Kupelian, Bruce H. Cohen. Results of linear accelerator-based stereotactic radiosurgery for recurrent and newly diagnosed acoustic neuromas. *Int J Cancer* 90:145-151, 2000.
38. Roger J. Packer, Bruce H. Cohen, Kathleen Coney. Intracranial germ cell tumors. *The Oncologist* 5:312-320, 2000.
39. Feliz Rosenow, Prakash Kotagal, Bruce H. Cohen, Carolyn Green, Elaine Wyllie. Multiple sleep latency test and polysomnography in diagnosing Kleine-Levin syndrome and periodic hypersomnia. *J Clin Neurophys* 17:519-522, 2000.
40. Janelle L. Park, John H. Suh, Gene H. Barnett, Chandana A. Reddy, David M. Peereboom, Glen H.J. Stevens, Bruce H. Cohen. Survival after stereotactic radiosurgery for recurrent glioblastoma multiforme. *Journal of Radiosurgery* 2000;3:169-175.
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