

CURRICULUM VITAE

01/2018

NAME: Lauren C. Seeberger, M.D.

CURRENT POSITION: Associate Professor, Department of Neurology

PROFESSIONAL ADDRESS: 12631 East 17th Avenue, MSB185, Aurora, CO 80045

EDUCATION:

1980-1984: Vanderbilt University, Nashville, TN
Major, General Biology
BS *cum laude*, May 1984

1984-1988: University of Alabama, Birmingham, AL
MD, May 1988

MEDICAL TRAINING:

1988-1989: Intern, Internal Medicine
St. Barnabas Medical Center, Livingston, NJ

1989-1992: Resident, Neurology
Vanderbilt University School of Medicine, Nashville, TN
Director: Gerald Fenichel, M.D.

1992-1994: Fellow, Movement Disorders, Department of Neurology
UMDNJ-Robert Wood Johnson Medical School
Director: Roger Duvoisin, M.D.

ACADEMIC APPOINTMENTS:

1992-1994: Instructor, Neurology
UMDNJ-Robert Wood Johnson Medical School

2004- 6/2006: Associate Clinical Professor of Neurology
University of Colorado Health Sciences Center,
Department of Neurology, Denver, CO

7/07-9/2014: Affiliate Faculty, Idaho State University
College of Health Professions, Pocatello, ID

9/09-9/2014: Affiliate Faculty, University of Washington School of Medicine
Psychiatry Department, Seattle, WA

11/2014- Visiting Associate Professor, Department of Neurology
University of Colorado School of Medicine, Denver, CO

2016 Associate Professor, Department of Neurology
University of Colorado School of Medicine, Denver, CO

OTHER PROFESSIONAL POSITIONS:

- 1994: Co-Director, Central New Jersey
Huntington's Family Service Center Clinic
- 1994-1997: Associate Neurologist, CNI Movement Disorders Center, Englewood, CO
- 1995-1997: Board of Directors, Parkinson's Association of the Rockies,
NPF Affiliate Chapter, Huntington's Disease Society of America
- 1997 – 2004: Board of Directors, Rocky Mountain Chapter, Huntington's Disease Society of America
- 1997-1999: Treasurer/Secretary, Colorado Society of Clinical Neurologists
- 1997-2000: Co-Director, CNI Movement Disorders Center, Englewood, CO
National Parkinson's Foundation Center of Excellence
- 1998-6/2006: Co-Director, Rocky Mountain MS Center Spasticity Clinic, Englewood, CO
- 1999-6/2006: Director, Huntington's Disease Society of America
Center of Excellence at CNI, Englewood, CO
- 2000-2004: Advisory Board, Tourette's Syndrome Association, Rocky Mountain Chapter
- 2000-6/2006: Director, CNI Movement Disorders Center, Englewood, CO
National Parkinson's Foundation Center of Excellence
- 9/06-12/2007: Medical Director, interim, Intellyst, Inc., Denver, CO
- 5/07-9/2014: Medical Director, the Movement Disorders Center at the Elks
Idaho Elks Rehabilitation Hospital, Boise, ID
- 3/2015-2017: Associate Director, UCH Movement Disorders Center Clinic
- 7/2015-: Director, University of Colorado Movement Disorders Center Fellowship Program
- 12/2015-: Director, Movement Disorders Center University of Colorado
- 1/2016-: Director, Ataxia Clinic UCH
- 2/2016-: Director, Huntington's Disease Society of America Center of Excellence at the University
of Colorado
- HONORS:** Chief Resident, Department of Neurology, 1991-1992
Vanderbilt University School of Medicine
- AWARDS:** Dystonia Doctors of Excellence Award, 2004
Southwest Region
Dystonia Medical Research Foundation

MEMBERSHIP IN MEDICAL SOCIETIES AND RESEARCH ORGANIZATIONS:

1987-1988: American Medical Association
1990- American Academy of Neurology
1991-1993: American Society of Neuroimaging
1992- Huntington's Disease Study Group, a North American consortium of investigators collaborating on research and treatment of Huntington's Disease
1993- International Movement Disorders Society
1994-2006: Colorado Neurological Institute
1994-2006: Colorado Society of Clinical Neurologists
1995-2006: Colorado Medical Association
1996-1997: Movement Disorders Section, American Academy of Neurology; Liaison Committee
1996- Dystonia Study Group, a North American consortium of investigators collaborating on research and treatment of dystonia
1997- Parkinson's Study Group, a North American consortium of investigators collaborating on research and treatment of Parkinson's Disease
1998-2000: Tourette's Syndrome Study Group
1999-2000: Huntington's Disease Care Focus Group
2000-2002: Botox Spasticity Study Group
2004-2007: International Restless Legs Syndrome Study Group
2006-2008: PSG Credentials Committee
2013- Member, Huntington's Disease Study Group Education Committee
2007-2014: Idaho Medical Association
2007-2014: Idaho Neurological Society
2007-2014: Pacific Northwest Basal Ganglia Club
2015- Clinical Research Consortium for Spinocerebellar Ataxia
2015- UCH White Matter and Movement Disorder Imaging Working Group
2015- Huntington's Study Group Behavioral Working Group Guideline Subcommittee
2016 Fellow, ANA
2016 Fellow, AAN

(ELECTED POSITIONS):

2002-2004: American Academy of Neurology, Movement Disorders Section, Executive Committee
2002-2003: Movement Disorders Section, American Academy of Neurology, Nominating Committee Chair
2005-2008: Parkinson's Study Group, PSG Credentials Committee
2006-2010: WeMove Education Committee, Subcommittee of the Board of Directors
2010- Huntington's Disease Clinical Research Symposium Committee
2010-2013: Chairman, Huntington's Disease Study Group Education Committee
2016-2019: Chairman, Huntington's Disease Study Group Education Committee

MEDICAL

LICENSURE: New Jersey 58418, Colorado 34091, Idaho M 9664

DIPLOMATE: National Board of Medical Examiners, 1989
American Board of Psychiatry and Neurology, 1994

REVIEW AND REFEREE WORK:**(AD HOC REVIEWER):**

- 2002-2003: Movement Disorders Journal
2006- Scientific advisory committee for annual Huntington's Study Group Meeting: Abstract review and selection, evaluation of posters for presentation at meeting
2007-2011 WE MOVE online Core Curriculum
2008: Chemodenervation: Role in the Management of Hyperkinetic Movement Disorders, Print Monograph WE MOVE
2008: CNS Spectrums: Managing Parkinson's Disease with Continuous Dopaminergic Stimulation
2012: The International Journal of Neuroscience
2013: Neurotherapeutics
2013, 2016: Abstract reviewer for American Academy of Neurology, Movement Disorders
2017: Manuscript reviewer for The Journal of Neuropsychiatry and Clinical Neurosciences

(AD HOC EDITOR):

- 1998-1999: WE MOVE Spasticity Website
2004: Faculty, WE MOVE Spasticity Website, The Role of Chemodenervation in Spasticity
2005: CNI Review Fall Edition, guest editor
2006: WE MOVE Website, Clinical Vignette CME, Post-Stroke Initiative
2006: Faculty, WE MOVE Web-based CME Clinical Pearls Post-Stroke Spasticity Management
2006: Parkinson Press, Inaugural Edition
2007: WE MOVE Clinical Vignette CME, Spasticity in MS
2007/8: Editorial Board, Physician Focus on Parkinson's: A four part newsletter series on current treatments

INVITED EXTRAMURAL LECTURES, PRESENTATIONS, VISITING PROFESSORSHIPS:**FACULTY/CHAIRMAN:**

- Faculty, 1998 HDSA Annual Convention "Managing HD: Care, Medication and Treatment, Denver, CO, June 18, 1998.
- Faculty, American Academy of Neurology "Treatment of Dystonia and Spasticity: Workshop Demonstrating the Use of Botulinum Toxin." Denver, CO, September 25, 1999.
- Faculty, WeMove teaching slide set development, "Spasticity: Pathophysiology, Assessment and Management." Converted from slide set to online CME module 2001.
- Chairman, Inaugural Russell Wood Lecture Series on PSP and MSA. "PSP diagnosis and research update." Englewood, CO, April 27, 2001.
- Faculty, Advances in Movement Disorders Movement Disorders Conference Rocky Mountain Region, "Neurology and Psychiatry: Blending and benefiting from medical services." September 29, 2001.
- Chairman, Russell Wood Lecture Series on PSP and MSA. Denver, CO, April 13, 2002.
- Faculty, American Academy of Neurology "Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia" Workshop, AAN 54th Annual Meeting, Englewood, CO, April 19, 2002.
- Faculty, CNI Movement Disorders Center. "Current Treatment and Research Trends in Parkinson's Disease." 2nd Annual Parkinson's Disease Symposium, September 21, 2002.
- Faculty, Intellyst Medical Communications national CME program on movement disorders- "Steadying the Course of Movement Disorders." 2003-2004.

- Faculty, WeMove Web CME module- “The role of chemodenervation in Spasticity management.” Released August 2002-August 2005.
http://www.mdvu.org/classrooms/cme/spasticity_chemd
- Chairman, Steadying the Course of Movement Disorders. Primary Medicine Convention. Long Beach, CA. April 2, 2003
- Chairman, Russell Wood Memorial Lectureship: “Atypical Parkinsonian Syndromes.” Englewood, CO, April 26, 2003.
- Faculty, 10th Biennial Movement Disorder Symposium “Hope and Progress” Dystonia Breakout Session, Denver, CO, September 20, 2003.
- Co-Chairman, American Academy of Neurology “Advanced Treatment of Dystonia and Spasticity: Workshop Demonstrating the Use of Botulinum Toxin.” Denver, CO, October 25, 2003.
- Faculty, Management of patients with Multiple Sclerosis and Spasticity. Durango, CO, August 20, 2004.
- Invited Faculty, Annual Meeting Colorado Society of Osteopathic Medicine. “Parkinson Disease Diagnosis and Treatment.” Vail, CO, August 6, 2005.
- Invited Faculty, Denver Movement Disorders Symposium. “Overview of Biomarkers in Dystonia.” Denver, CO, September 10, 2005.
- Faculty, American Academy of Neurology/Movement Disorders Society interactive workshop. “Treatment of Dystonia: Workshop Demonstrating the Use of Botulinum Toxin.” Kansas City, MO, October 1, 2005.
- Faculty, NeuroRehabilitation National Preceptor Program, CogniMed Inc., April 2006-2010.
- Invited Faculty, Parkinson’s Disease Scientific Advisory Board Meeting, Teva Neuroscience. Kansas City, MO, April 21, 2006.
- Invited Faculty, Idaho Neurological Society annual meeting 2006. “Basics of Parkinson’s disease treatment.” Sun Valley, ID, October, 13, 2006.
- Faculty, WeMove Post-stroke Spasticity Management Initiative, Web-based CME activity, three learning modules with 7 PRA category 1 credits, 2006-2007.
- Faculty, Moving Forward: 2nd Edition A Practical Guide to living with Parkinson’s disease. April 2007.
- Faculty, St. Alphonsus Medical Center Grand Rounds, “Recognition and Overview of Movement Disorders.” Boise, ID, June 15, 2007.
- Invited Faculty, Neurology in the New Millennium 2007. “Botulinum Toxin Treatment for Neurological Disorders.” Tampa, FL, September 15, 2007.
- Faculty, St. Luke’s Medical Center, “Recognition and Overview of Movement Disorders.” Boise, ID, September 26, 2007.
- Faculty, 6th Annual Advances in Managing Diseases of the Central Nervous System: Multiple Sclerosis and Parkinson’s disease. “Non-Motor Manifestations of PD and their Treatment.” Savannah, Georgia, November 11, 2007.
- Northwest Basal Ganglia Club, “Non-motor Features of PD with an Intensive Review of Anatomy and Physiology of the Sense of Smell.” Portland, OR, November 16-17, 2007.
- Ad Hoc Committee, WE MOVE Drug Induced Movement Disorders, January 30, 2008.
- Faculty, 49th Annual Medical Winter Clinics, “Diagnosis and Management of Movement Disorders” and “Understanding Parkinson’s Disease.” Sun Valley, ID, February 16, 2008.
- Faculty, ACMEC St. Luke’s Regional Medical Center Grand Rounds, “Pearls in Treating Parkinson’s Disease.” Boise, ID, December 10, 2008.
- Faculty, Behavioral Aspects of Neurology/ Idaho Neurological Society. “Video Overview of Movement Disorders” Sun Valley, ID, Feb 2009.

- Faculty, 12th Annual Review of Multiple Sclerosis & Parkinson's Disease. University of South Florida "Treatment of Non-Motor Features of Parkinson's Disease." Orlando, FL, May 24, 2009.
- Faculty, CME Activity WE MOVE Primidone for Subcortical Myoclonus. November 2010.
- Faculty, Nurse Practitioners of Idaho Annual Fall Educational Conference, "Parkinson's Disease: Diagnosis and Management." September 2010.
- Faculty, Huntington Study Group, "Rural Medicine, Outreach and Research." November 2010.
- Faculty, Behavioral Aspects of Neurological Disease Conference. "Parkinsonism: Clinical Features and Diagnosis." Sun Valley, ID, Feb 2011.
- Faculty, Northwest Parkinson's Foundation Education Program, "DBS Treatment for Parkinson's Disease." Boise, ID, July 19, 2012.
- Faculty, Boise VA Medical Center Grand Rounds, "Movement Disorders." Boise, August 10, 2012.
- Faculty, Huntington's Disease Education Day, "Clinical Trials in HD." University of Utah, Salt Lake City, Utah, May 18, 2013.
- Faculty, Idaho Neurological Society, "Surgical Interventions in Parkinson's Disease." Boise, ID, August 16, 2014.
- Faculty, Huntington Study Group, "Brass Tacks of Running GCP Compliant Trials." Minneapolis, MN, November 7, 2014.
- Faculty, Huntington Study Group, "GCP Compliance and FDA Audits." Tampa, FL, October 21, 2015.
- Faculty, University of Colorado Department of Neurology Movement Disorders Center retreat research presentation.
- Faculty, Michael J Fox foundation Colorado Community Conference on Parkinson's Disease, May 2016.
- Faculty, Denver University Knoebel Institute For Aging "all design thinking session" a workforce collaboration in Movement Disorders across multiple universities, to develop collective action items to move the field forward in Colorado collaboratively, 2016
- Faculty, 6th annual University of Colorado School of Medicine Department of Neurology retreat research presentation, June 1, 2016
- Faculty, University of Colorado School of Medicine Department of Neurology resident didactics, movement disorder series: "Movement Disorders Recognition and Evaluation: Chorea" September 2016.
- Faculty, University of Colorado School of Medicine Department of Neurology resident didactics, movement disorder series, "Botulinum toxin injections workshop with model demonstrations of the face, cervical region, upper and lower limbs" September 2016.
- Faculty, UCD PD symposium "The gastrointestinal system in PD." October, 1, 2016.
- Chair, "FDA Regulatory Pathway for Drugs and Devices" HSG 2016, Nashville, TN, 11/4/16
- Faculty Panel "Signal Trial in HD: lessons learned in the development of trials for preHD" HSG 2016, Nashville, TN, 11/4/16
- "Food for Thought" series, Denver HDSA Chapter November 8, 2016
- Invited Discussant, American Academy of Neurology, Annual Meeting, 2017, Parkinson's Disease: Observational Studies, "Uncovering the Parkinson Phenotype in African Americans." Boston, MA, April 25, 2017.
- Invited Faculty, Regis University Neurosciences Program, "200 Years of Progress: A Chronological Review of Parkinson's disease." Denver, CO, March 28, 2017.
- Invited Faculty, UCD Neurorehabilitation Lecture Series, "Huntington's disease and Spinocerebellar Ataxia Primer: Rehabilitation Requisites." Denver, CO, May 23, 2017.
- Moderator, Huntington Study Group Scientific Session, "Genetic Landscape of HD: Peaks and Clefts at Therapeutic targets," HSG Annual Meeting, Denver, CO, November 2017

- Faculty Panel member, "Signal: Practical Tips from Site Investigators." Huntington Study Group Annual Meeting, Denver, CO, November 2017.
- Faculty, Motor Rater Training Session, Huntington Study Group Annual Meeting, Denver, CO, November 2017
- Faculty, University of Colorado School of Medicine Department of Neurology, Resident didactic course, Movement disorder series: "How a Movement Disorder specialist approaches a patient: Live Patients Demonstration" Denver, CO, October 18, 2017.
- Faculty, University of Colorado MDC Annual Parkinson's disease symposium. "The Gastrointestinal Tract in Parkinson's disease." Denver, CO, September 30, 2017.
- Faculty, HDSA Youth Alliance Annual Meeting, "Breakthroughs in HD Research." Denver, CO, November 5, 2017.

TEACHING:

- 2001, 2003: Physical Therapy Department, Regis University, Denver, Colorado, Introduction to Movement Disorders and Parkinson's disease
- 2000-2006: Swedish Medical Center, Family Practice Residency Program, Clinical Rotations, Movement Disorders/General Neurology, Englewood, CO
- 2004-2006: University of Colorado Health Sciences, Department of Neurology Residency Program, Anschutz Outpatient Clinic, Denver, CO
- 2007-2011: Idaho State University Physicians' Assistants Program, Introduction to Movement Disorders and Treatment of Parkinson's Disease, Boise, ID
- 2008-12: Idaho State University, Pharmacy Program, Clinical Rotations, Movement Disorders/General Neurology
- 2009-14: University of Washington Medical School, Department of Psychiatry and Behavioral Sciences, Clinical Rotations, Movement Disorders/General Neurology
- 2010-13: Mentor, Bishop Kelly InvenTeam
- 2011-14: University of Washington Medical School, Internal Medicine Program, Clinical Rotations, Movement Disorders/General Neurology
- 2015: Regis University Rueckert-Hartman College for Health Professions School of Pharmacy, Current and Research Therapeutics in Huntington's Disease, Denver, CO
- 2015: University of Colorado School of Medicine Department of Neurology Residency Program, Tics, Tremors, Dystonia and Chorea, Denver, CO; Workshop in the use of BoNT Injections for Dystonia Management
- 2016: Grand Rounds- Huntington's Disease: A Treatable Condition
- 2016: University of Colorado School of Medicine Department of Neurology resident didactics, movement disorder series: "Movement Disorders Recognition and Evaluation: Chorea" October 2016.
- 2016: University of Colorado School of Medicine Department of Neurology resident didactics, movement disorder series: "Botulinum toxin injections workshop with model demonstrations of the face, cervical region, upper and lower limbs" October 2016.
- 2016: University of Colorado School of Medicine Department of Neurology Movement Disorders Fellow Didactics: "Chorea"
- 2016: University of Colorado School of Medicine Department of Neurology Movement Disorders Fellow Didactics: "Huntington's Disease"
- 2017: Invited Faculty, Regis University Neurosciences Program, "200 Years of Progress: A Chronological Review of Parkinson's disease." Denver, CO, March 28, 2017.

- 2017: Invited Faculty, UCD Neurorehabilitation Lecture Series, "Huntington's disease and Spinocerebellar Ataxia Primer: Rehabilitation Requisites." Denver, CO, May 23, 2017.
- 2017: University of Colorado School of Medicine Department of Neurology Grand Rounds, "Tardive Dyskinesia: Current Diagnosis and Management." Denver, CO, August 30, 2017.
- 2017: University of Colorado School of Medicine Department of Neurology, Resident didactic course, Movement disorder series: "Movement Disorders Recognition and Evaluation: Chorea." Denver, CO, October 18, 2017.
- 2017: University of Colorado School of Medicine Department of Neurology, Resident didactic course, Movement disorder series: "How a Movement Disorder specialist approaches a patient: Live Patients Demonstration" Denver, CO, October 18, 2017.
- 2017: Faculty, Motor Rater Training Session, Huntington Study Group Annual Meeting, Denver, CO, November 2017
- 2017: Attending Faculty, UCD Movement Disorders Center: Weekly "Sharp Shooter" Rounds with Fellows, focus on anatomy, muscle selection, patterns of movement in dystonia and spasticity to develop skill in botulinum toxin injections, initiated October 2017-ongoing.

GRANTS:

- 1997-2006: \$45,000-75,000, Center of Excellence, HDSA
- 2000-2006: \$45,000-65,000, Center of Excellence, NPF
- 2004-2005: Friends of Man, Treatment of HD
- 2016- \$10,000 Center of Excellence, HDSA
- 2016- \$60,000 for HD Telemedicine and Psychiatry
- 2017- \$10,000 Center of Excellence, HDSA
- 2017- \$100,000 HD Care Clinic Development
- 2017- \$200,000 McGrath Donation to MDC, CCTSI, Palliative Division

RESEARCH GRANTS:

- Co-Investigator: "A Double-blind, Placebo Controlled Parallel Group Study of Oral Doses of Ropinirole For Six Months Treatment as Adjunct in Parkinsonian Patients Not Optimally Controlled on L-Dopa." Smith Kline Protocol #101468/044. 3/11/93-10/19/93.
- Co-Investigator: "A Double-blind, Placebo Controlled Parallel Group Study of Oral Doses of Ropinirole For Six Months Treatment as Adjunct in Parkinsonian Patients Not Receiving Dopaminergic Therapy." Smith Kline Protocol #101468/054. 3/1/93-11/4/93.
- Co-Investigator: "An Open Label Extension Study of Ropinirole (SKF101468) as an Adjunct to L-Dopa in Treatment of Parkinson's Disease." Smith Kline Protocol #101468/041. 3/23/92-5/19/94.
- Co-Investigator: "A Triple-blind, Randomized Parallel Study Comparing Sinemet® CR (50/200) With Sinemet® 25/100 in Parkinson's Disease for Patients on No Prior Levodopa Therapy." Merck Sharp & Dohme Research Labs Protocol #018-00. 2/23/89-1994.
- Co-Investigator: "A Dose Titration and Long Term Maintenance Trial of Midodrine in Patients With Orthostatic Hypotension." Roberts Pharmaceuticals Protocol #20,762-12B. 12/2/92-1996.
- Co-Investigator: "A Randomized, Double-blind, Multicenter Study Comparing Midodrine (10 mg) vs. Placebo in Patients with Neurogenic Orthostatic Hypotension." Roberts Pharmaceuticals Protocol #20,762-320C. 10/21/92-8/31/93.
- Co-Investigator: "A Double-blind, Placebo-controlled, Six Month Extension Study 01468/054 to Evaluate the Long-term Efficacy and Safety of Ropinirole in Early Parkinsonian Patients Not Receiving Dopaminergic Therapy." Smith Kline Protocol #101468/055-US. 11/4/93-5/10/94.

- Co-Investigator: "Double-blind, Placebo-controlled, Parallel Groups, Multicenter Evaluation of Tolcapone When Given Together with Sinemet® (levodopa/carbidopa) to Parkinson's Patients Who Exhibit End-of-Dose Wearing Off." Hoffman-La Roche, Inc. Protocol #s NZ14654 and NZ14316. 12/94-4/98.
- Co-Investigator: "Double-blind, Placebo-controlled, Parallel Groups, Multicenter Evaluation of the Marketing Formulation of Tolcapone When Given Together with Sinemet® (levodopa/carbidopa) to Parkinson's Disease Patients Who Exhibit End-of-Dose Wearing Off." Hoffman-La Roche, Inc. Protocol #NN14971. 3/95-4/98.
- Co-Investigator: "Compassionate Administration of Open Label Ropinirole in the Treatment of Parkinson's Disease." Smith-Kline Beecham 101468/090. 1995-12/97
- Co-Investigator: "A Randomized, Multicenter, Double-blind, Placebo-controlled Study of Intramuscular BOTOX® (Botulinum Toxin Type A) Purified Neurotoxin Complex for the Treatment of Cervical Dystonia." Allergan Protocol #BTOX-140-8051. 3/95-6/97.
- Co-Investigator: "Double-blind, Placebo-controlled Study to Evaluate BOTOX® For The Treatment of Lower Limb Spasticity." Allergan Protocol BTOX 138-8051. 1996- 8/97.
- Co-Investigator: "Measurement of Motor Control in Parkinson's Disease and Age-matched Controls, Utilizing Neuroskill, a Quantitative Biometric Instrument." 1996.
- Co-Investigator: "Investigational Use of Model 3382 DBS Lead and Itrel II System for the Suppression of Tremor." 1996-1997.
- Principal Investigator: "Earlier vs. later levodopa in Parkinson's disease- ELLDOPA." The Parkinson's Study Group. 1998-2001.
- Principal Investigator: "A Randomized Parallel Group, Double-blind, Placebo- controlled Study to Evaluate the Short-term Efficacy and Safety of Entacapone Administered Together with Levodopa in Patients with Non-fluctuating Parkinson's Disease." Novartis Protocol #OPRC 352-E-00. 7/97-06/00.
- Co-Investigator: "Randomized, Double-blind Study to Compare Safety and Efficacy of BOTOX® Manufactured for Campbell Neurotoxin Lot 1 to That Manufactured From Neurotoxin Complex Lot 79-11 in Blepharospasm Patients." Allergan Protocol #191622-003-00. 1996.
- Principal Investigator: "Co-enzyme Q10 and Remacemide:Evaluation in
- Huntington's Disease-CARE-HD." The Huntington's Disease Study Group. 4/97-01/01.
- Principal Investigator: "An Open-label Study to Assess the Safety of a Single 16
- Mg Dose in Patients on Stable Tizanidine Therapy." Athena Neurosciences, Inc. Clinical Research Protocol #AN021-402. 3/97.
- Co-Investigator: "Cervical Dystonia Severity Scale Reliability Study" Allergan Protocol #147-0000. 1997.
- Principal Investigator: "An open-label, safety, study of Neurobloc (Botulinum Toxin Type B) in patients with Cervical Dystonia." Elan Pharmaceuticals Protocol # AN072-351. 09/97-06/06.
- Co-Investigator: "Randomized, Double-Blind, Placebo-Controlled, Dose Escalation Trial of Intracerebroventricular Recombinant-Methionyl Human Glial Cell Line Derived Neurotrophic Factor (r-methHuGDNF) for the Treatment of Patients with Idiopathic Parkinson's Disease." Amgen. 9/97-06/99.
- Principal Investigator: "A Long Term Double Blind Comparison of Tolcapone Versus Placebo Given in Combination with Levodopa/AADC-I in Delaying the Onset of Motor Fluctuations in PD Patients Naïve to Levodopa Therapy." Hoffman-La Roche M53011. 7/97-10/98.
- Co-Investigator: "Randomized, Double-Blind, Placebo-Controlled, Parallel Group Dose Ranging Study for the Safety, Tolerability and Efficacy of Daily, Oral Doses of Remacemide Hydrochloride in Parkinson's Disease Subjects with Motor Fluctuations. (REAL) Parkinson's Disease Study Group. 1/98-7/98.

- Principal Investigator: "Treatment of Attention Deficit Hyperactivity Disorder (ADHD) in Children with Tourette's Syndrome (TACT). Tourette's Study Group. 8/98-10/00.
- Co-Investigator: "Early vs. Late L-Dopa in Parkinson's Disease." Parkinson's Disease Study Group. 9/98-2004.
- Co-Investigator: "Double-Blind Evaluation of Efficacy of Botox (Botulinum Toxin Type A) Purified Neurotoxin for Migraine". Allergan/Mount Sinai. 1999-2000.
- Principal Investigator: "Parkinson's Research: The Organized Genetics Initiative-PROGENI." The Parkinson's Study Group. 09/98-06/06.
- Principal Investigator: "Pramipexole-Ropinirole Switching Study in Advanced Parkinson's Disease Patients on Levodopa." Smith-Kline Beecham. 10/98-06/00.
- Principal Investigator: "A phase III multicenter, double blind, parallel-group placebo controlled study of the effect of Riluzole 50mg BID or 100mg BID for 2 years on the progression of Parkinson's Disease in 1050 patients." Aventis Protocol # RP54274X-320. 10/98-3/02.
- Co-Investigator: "A Multi-center, Double-Blind, Randomized, Placebo- Controlled, Parallel Study of the Safety and Efficacy of BOTOX® Purified Neurotoxin Complex in the Treatment of Upper Limb Spasticity Post-Stroke." Allergan 191622-008-00. 4/99-10/99.
- Principal Investigator: "A pilot, open-label, single treatment study to evaluate the safety, tolerability, and potential efficacy of Neurobloc (Botulinum Toxin Type B) in patients with wrist, hand, ankle and/or foot spasticity." Elan. 04/99-4/01.
- Principal Investigator: "Prospective Huntington at risk observational study-PHAROS." The Huntington Study Group. 05/99-06/06.
- Principal Investigator: "A phase III multicenter, double blind, parallel-group placebo controlled study of the effect of Riluzole 50mg BID or 100mg BID on the progression of Parkinson's Disease in patients treated with L-Dopa or Dopamine agonist." Aventis protocol #RP54274X-321. 05/99-4/01.
- Principal Investigator: "A 12-week, double-blind, placebo-controlled, randomized, parallel-group, multi-center, exploratory study of the safety and efficacy of KW-6002 as adjunctive therapy in patients with Parkinson's Disease who have motor response Complications on Levodopa/Carbidopa." Kyowa Pharmaceutical protocol # 6002-US-001. 06/99-04/01.
- Principal Investigator: "An open label study to evaluate the long-term safety and effectiveness of subcutaneous injections of Apomorphine in the treatment of "off" episodes in patients with "on-off" or "wearing off" effects associated with late- stage Parkinson's Disease." Mylan protocol # APO401.01. 11/2000-10/2004.
- Principal Investigator: "RAPID-Rapid Acting Parkinson's Drug. A multi-center, randomized, double-blind, double dummy, parallel group study comparing TV-1203/Carbidopa dispersible tablets with Levodopa/Carbidopa tablets in advanced Parkinson's Disease Patients with motor fluctuations." Parkinson Study Group Teva Pharmaceuticals protocol # TV-1203/111. 04/00-12/03.
- Principal Investigator: "An open-label extension study of Remacemide Hydrochloride 300mg bid in subjects with Huntington's Disease." Astra Zeneca protocol # 248. 03/00-2001.
- Principal Investigator: "A multi-center, randomized, double-blind, placebo controlled, parallel group, dose-ranging study to assess the efficacy, safety and tolerability of escalating transdermal doses of SPM 962 in subjects with early stage Parkinson's Disease." Schwarz Pharma protocol # SP506. 03/00-01/01.
- Principal Investigator: "Entacapone to tolcapone switch study: To determine whether tolcapone can improve patients receiving optimal treatment with entacapone." Roche Global Development protocol # NR16188C. 04/00-2001.

- Principal Investigator: “A multi-center, double-blind, placebo-controlled, parallel group study of pulmonary function safety of Botox (Botulinum Toxin Type A) purified neurotoxin complex for the treatment of focal spasticity post-stroke.” Allergan protocol # 191622-030-00. 05/00-2001.
- Principal Investigator: “Measurement of motor control in subjects with Parkinsonism and Essential tremor using Neuroskill: a quantitative biometric instrument.” Verifax. 08/00-2002.
- Sub-investigator: “An Active Extension of the TVP-1023/133 (Presto) Study-A
- Bi-National Multicenter, Double-Blind, Randomized Study to Evaluate the Safety and Tolerability of Rasagiline Mesylate in Advanced Parkinson’s Disease (PD) Patients with Motor Fluctuations Treated with Chronic Levodopa/Carbidopa Therapy. Teva- TVP-1023/1335 2000-June 2006.
- Principal Investigator: “Neurobiological Predictors of Huntington’s Disease (PREDICT).” Huntington Study Group. 2001-06/06.
- Principal Investigator: “A single center, open label pilot trial of CQ in the treatment of idiopathic and symptomatic Parkinson’s Disease.” Alpha Research Group, LLC. 01/01-8/01.
- Principal Investigator: “A comparison in the efficacy and safety of Topiramate in the treatment of Essential Tremor.” Topiramate Essential Tremor Study Group Ortho-McNeil. Protocol # CAPSS-149. 02/01-6/2004.
- Principal Investigator: Open label RAPID “A Bi-national, Multicenter, Open- Label Study to Evaluate the Safety and Tolerability of TV-1203/Carbidopa Dispersible Tablets in Advanced Parkinson’s Disease (PD) Patients With Motor Fluctuations Treated With Chronic Levodopa/Carbidopa Therapy.” Teva Protocol # TV-1203/117. 9/2002-9/2003.
- Principal Investigator: “Observational Study of Botox Use in Cervical Dystonia.” Allergan Protocol 191622-017-00. Feb 2001-8/2003.
- Principal Investigator: “Botulinum Toxin Type A compared to Botulinum Toxin Type B in Cervical Dystonia (AB-CD).” Dystonia Study Group. Protocol # DSG 2000R.01. 9/2001-Feb 2004.
- Principal Investigator: “An Open Label Safety and Immunogenicity Study of Myobloc (Neurobloc; Botulinum Toxin Type B) Injectable Solution in Patients with Cervical Dystonia.” Elan Pharmaceuticals Protocol # AN072-401CD. Feb 2001-06/06.
- Principal Investigator: “A Multicenter, Multinational, Phase III, Randomized, Double-Blind, Placebo Controlled Trial of the Efficacy and Safety of the Rotigotine CDS Patch in Subjects with Early Stage, Idiopathic Parkinson’s Disease.” Schwarz BioSciences. Protocol # Patch SP512. January 2002-June 2002.
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- Principal Investigator: “Coenzyme Q 10 in Huntington’s Disease 2CARE” HSG/NIH. September 2010-Aug 2014.
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