

Curriculum Vitae  
Howard Mandell, B.A., M.D., FRCPS

**Research Address:**  
Neurologist  
1992 - Present

Metrolina Neurological Associates, PA  
200 S. Herlong Avenue, Suite H  
Rock Hill, South Carolina 29732  
(803) 366-6135

7666 Charlotte Highway  
Indian land, SC 29707

**Site Affiliations:**

DJL Clinical Research, PLLC  
10370 Park Road, Suite 200  
Charlotte, NC 28210

**Previous Position:**

Consultant in Neurology  
Brandon Medical Clinic and Associate Hospitals  
Brandon, Manitoba

**Education:**

1972-1977

Bachelor of Arts  
University of Manitoba  
Winnipeg, Manitoba  
Major: Psychology

1977-1981

MD  
University of Manitoba, Teaching Hospitals  
Winnipeg, Manitoba, Canada

1981-1982

Internship  
University of Manitoba, Teaching Hospitals  
6 months- Surgery  
6 months - Internal Medicine

1982-1984

Resident: Internal Medicine  
University of Manitoba, Teaching Hospitals  
Winnipeg, Manitoba, Canada

1984-1987

Resident: Neurology  
University of Minnesota, Teaching Hospitals  
Minneapolis, Minnesota

**Special Training:**

1986 EEG (6 months) Director: Dr. F. Torres, M.D.  
University of Minnesota Teaching Hospitals

1987 EMG (6 months) Director: Dr. W. Kennedy, M.D. Consultant: Dr. E. Lambert, M.D.  
University of Minnesota Teaching Hospitals

1987 Neuromuscular Fellowship: (1year) Director: Dr. T. Munsat, M.D.  
Neuromuscular Unit Tufts-New England Medical

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1987 Electromyography Fellowship EMG: Director: Dr. J. Kelly, Jr. M.D.  
Muscle, Nerve Biopsy and Pathological Interpretation  
Dr. L. Adelman, M.D., Dr. T. Munsat, M.D.  
Tufts-New England Medical Center

**Medical Licensure:**

1981 LMCC (Canada)  
1990 Board Certified in Neurology (USA)  
1990 Specialist Certification in Neurology (Canada)  
1990 Fellow Royal College (FRCP (C))  
1993 Certification in EMG ABEM April

**Professional Organization Memberships:**

Canadian Medical Association  
American Medical Association  
American Academy of Neurology  
South Carolina Medical Association  
York County Medical Society

**Publications:**

Antibodies to Lyme Disease are Normal in Patients with Amyotrophic Lateral Sclerosis  
**Mandell H.**, Steere A., Reinhardt B., Munsat T.  
New England Journal of Medicine, 1989

Antibodies to Borrelia burgdorferi in Amyotrophic Lateral Sclerosis  
**Mandell H.**, Munsat T.  
Abstract presented at the American Neurological Association Scientific Meeting, October 1988

Cardiorespiratory Reflexes in Diabetes Mellitus  
Kennedy W.R., Navarro X., Sakata M., **Mandell H.**, Knox, C.  
Diabetes Care, Physiological and Clinical Correlates, 1989

Cardiorespiratory Reflexes in Diabetes Mellitus  
Kennedy W.R., Navarro X., **Mandell H.**  
Abstract presented at the American Academy of neurology Scientific Meeting, April 1988

Neuromuscular Manifestation of Wegener's Granulomatosis: A Case Report  
Finkelman R., Munsat T., **Mandell H.**, Adelman L., Logigian E.  
Neurology, 1993

**Clinical Research:**

**Principal Investigator** - Novartis: Passage: Long-term, prospective, multinational, parallel-cohort study monitoring safety in patients with MS newly started on fingolimod once daily or treated with another approved disease-modifying therapy. 2014

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**Principal Investigator** - Novartis: Transition: A two-year observational study to evaluate the safety profile of fingolimod in patients with multiple sclerosis who switch from natalizumab to fingolimod. 2014

**Principal Investigator** - Sun Pharma Advances Research Company: A twenty one week study. The primary objectives are to compare the continued treatment with Baclofen ER capsules versus down-titration to placebo in subjects stabilized on Baclofen ER Capsules. 2014

**Sub-Investigator** - Allergan: AsPIRE: Adult Spasticity International Registry on BOTOX Treatment. 2014

**Sub-Investigator** - Biogen Idec MA: A multicenter, randomized, double-blind, placebo controlled study to assess the long-term efficacy and safety of prolonged release fampridine (BIIB041) 10 mg, administered twice daily in subjects with multiple sclerosis (ENHANCE). 2015

**Principal Investigator** – Chase Pharmaceuticals: A Phase-II, Single-Blind, Placebo-Controlled, Sequential Treatment, Multiple Ascending Dose Study to Evaluate the Safety and Tolerability of CPC-201 in patients with Alzheimer’s Disease type of Dementia. Chase Pharmaceuticals. 2015

**Principal Investigator** - AZTherapies: A phase III safety and efficacy study of AZT-OP1 in subjects with evidence of early Alzheimer’s disease. 2016 \*High enrolling site

**Sub-Investigator** - Eli Lilly: A phase 3, randomized, double-blind, placebo-controlled study of LY2951742 in patients with Episodic migraine-the EVOLVE-1 study. 2016

**Principal Investigator** – Alkermes: A Phase 3 Open Label Study to Evaluate the Long-Term Safety and Tolerability of ALKS 8700 in Adults with Relapsing Remitting Multiple Sclerosis. 2017

**Principal Investigator** – Alkermes: A Phase 3 Study in Subjects with Relapsing Remitting Multiple Sclerosis to Evaluate the tolerability of ALKS 8700 and Dimethyl Fumarate. 2017

**Principal Investigator** – Acadia Pharmaceuticals: A double-blinded, Placebo-controlled, Relapse Prevention Study of Pimavanserin for the Treatment of hallucinations and delusions associated with dementia-related psychosis. 2017

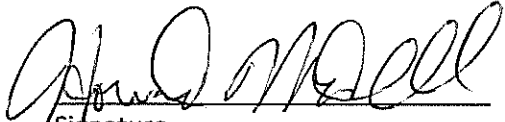
**Principal Investigator** – Adamas Protocol ADS-AMT-MS301: A 3-Arm, Multicenter, Double-Blind, Placebo-Controlled, Randomized Study to Assess the Efficacy and Safety of ADS-5102 Amantadine Extended Release Capsules in Multiple Sclerosis Patients with Walking Impairment. 2018

**Principal Investigator** – Adamas Protocol ADS-AMT-MS303: A Multicenter, Open-Label Safety and Efficacy Study of ADS-5102 Amantadine Extended Release Capsules in Patients with Multiple Sclerosis and Walking Impairment. 2018

**Principal Investigator** – Biohaven Protocol BHV3000-305: A Phase 2/3, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety of Rimegepant in Migraine Prevention. 2019

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My signature verifies the information in these curriculum vitae is accurate and updated appropriately.

  
Signature

11 APR 2019  
Date