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CURRENT APPOINTMENTS:

Associate Professor of Neurology, Case Western Reserve University, Cleveland, Ohio

EDUCATION:

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| 1971 | B.A.
Boston University, magna cum laude |
| 1974 | M.A.
The Johns Hopkins University (Psychobiology) |
| 1983 | Ph.D.
Harvard University, Dissertation: Hemispheric Specialization of Higher Cortical Functions in the Human Brain |
| 1985 | M.D.
University of Miami School of Medicine, Ph.D. to M.D. Program |
| 1993 | The New England Epidemiology Institute |

POSTDOCTORAL TRAINING:

Internships and Residencies:

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| 1985-1986 | Intern in Internal Medicine, New England Deaconess Hospital, Boston, MA |
| 1986-1989 | Resident, Neurology, The Harvard Longwood Neurological Training Program, Boston, MA |

Clinical and Research Fellowships:

1989-1990 Fellow, Clinical Neurophysiology Lab, Massachusetts General Hospital, Boston, MA

LICENSURE AND CERTIFICATION:

1989 Massachusetts License in Medicine

1990 Diplomate, American Board of Psychiatry and Neurology

1991 Diplomate, American Board of Electrodiagnostic Medicine

1998 Ohio License in Medicine

ACADEMIC APPOINTMENTS:

1985-1986 Clinical Fellow in Internal Medicine, Harvard Medical School, Boston, MA

1986-1990 Clinical Fellow in Neurology, Harvard Medical School, Boston, MA

1990-1993 Assistant Professor of Neurology, Tufts University School of Medicine, Boston, MA

1993-1998 Instructor in Neurology, Harvard Medical School, Boston, MA

1998- Associate Professor of Neurology, Case Western Reserve University, Cleveland, Ohio

HOSPITAL APPOINTMENTS:

1990-1993 Assistant Neurologist, Tufts-New England Medical Center Hospitals, Boston, MA

1990-1991 Director, EMG Laboratory and Neuromuscular Service, Newton-Wellesley Hospital (Tufts University School of Medicine Affiliate), Newton, MA

1992-1993 Acting Director, EMG Laboratory and Neuromuscular Service, Tufts New England Medical Center, Boston, MA

1993-1998 Assistant Neurologist, Massachusetts General Hospital, Boston, MA

1993-1998 Director, Clinical Neuromuscular Unit, Massachusetts General Hospital, Boston, MA

1998- Director, Neuromuscular Research, University Hospitals of Cleveland, Cleveland, Ohio

1998-2002 Co-Director, Muscle Disease Center, University Hospitals of Cleveland, Cleveland, Ohio

AWARDS AND HONORS:

1967-1971 Dean's List, Boston University

1969-1970 Alice M. Merrill, Scholarship Award, Boston University

1970-1971 Trustee Scholarship, Boston University

1970-1971 Phi Beta Kappa

1972-1974 National Science Foundation Research Assistantship, The Johns Hopkins University

1980-1983 Harvard Grant-in-Aid, Harvard University, Naumburg Fund Fellowship, Harvard University

1982-1983 Livingston Fund Fellowship Grant, Harvard Medical School

1983-1984 Albert Strickler Memorial Fund Grant

1998 The Will Solimene Award of Excellence in Medical Communication (American Medical Writers Association award for *Electromyography and Neuromuscular Disorders*)

2002 Northeast Ohio's Top Doctors in Neurology (Northern Ohio Live Magazine)

2002 Best Doctors in America

2003 Best Doctors in America

2004 Northeast Ohio's Top Doctors in Neurology (Northern Ohio Live Magazine)

2004 Best Doctors in America

2005 Best Doctors in America

2006 Northeast Ohio's Top Doctors in Neurology (Northern Ohio Live Magazine)

2006 Best Doctors in America

2007 Northeast Ohio's Top Doctors in Neurology (Northern Ohio Live Magazine)

2007 Best Doctors in America

MAJOR COMMITTEE ASSIGNMENTS:

National and Regional:

1994-	Physicians Advisory Board, Late Onset Tay Sachs Foundation
1995-1997	Co-Chairman, Physicians Advisory Board, Late Onset Tay Sachs Foundation
1996	Advisory Council, Trial of Procyteine in ALS, Massachusetts General Hospital
1997-	Chairman, Scientific Advisory Board, Late Onset Tay Sachs Foundation
1997-	Vice Chairman, Physicians Advisory Board, Late Onset Tay Sachs Foundation
1998-2002	Board of Directors, The Muscle Disease Society of Northeastern Ohio
2005-	Member, Scientific Advisory Committee, National Tay Sachs and Allied Diseases

Hospital:

1996-1997	Clinical Neurophysiology Operations Improvement Committee, Massachusetts General Hospital
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Departmental:

1995-1996	Neurology Outpatient Planning Committee, Massachusetts General Hospital
1996-1997	Neurology Space Planning Committee, Massachusetts General Hospital
1999-2000	Committee on Appointments, Promotion and Tenure, Case Western Reserve University, University Hospitals of Cleveland
2004-	Committee on Appointments, Promotion and Tenure, Case Western Reserve University, University Hospitals of Cleveland
2005-	Neurology Departmental Research Review Committee

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

1986-1990	Massachusetts Medical Society
1987-	American Academy of Neurology

1991- American Association of Electrodiagnostic Medicine
1997, 1999 Board Examiner, American Board of Psychiatry and Neurology,
(New York, Boston)
2005- Member, Global Organization for Lysosomal Diseases

JOURNAL RESPONSIBILITIES:

1995 Ad hoc reviewer, *The New England Journal of Medicine*
1997- Ad hoc reviewer, *Neurology*
Ad hoc reviewer, *Muscle and Nerve*
Ad hoc reviewer, *Journal of Clinical Neuromuscular Disease*

RESEARCH INTERESTS:

1990- The use of substrate reduction therapy in adult onset gangliosidoses
The use of chaperone molecules in lysosomal storage disorders
Sodium Channel Disorders
Motor Neuron Disease
1978-1983 Research Associate - The Aphasia and Neurobehavioral Research
Center, Boston VA Medical Center, Boston, MA
1974-1978 Research Associate - Consultant in Ergonomics

CLINICAL TRIALS:

1993-1997 Principal Investigator, Massachusetts General Hospital, Multicenter
double-blind, placebo-controlled Trial of Dichlorphenamide in the Periodic
Paralyses and Associated Sodium Channel Disorders

1993-1997	Principal Investigator, Massachusetts General Hospital, Multicenter Trial of High Protein Diet and Submaximal Exercise in Facioscapulohumeral Muscular Dystrophy
1993-1997	Co-Investigator, Massachusetts General Hospital, double-blind placebo-controlled Trial of Antioxidants in patients with Amyotrophic Lateral Sclerosis
1996-1997	Co-Investigator, Massachusetts General Hospital, Multicenter open-label extension follow-up Trial of Rilutek in patients with Amyotrophic Lateral Sclerosis
1996	Advisory Council, Massachusetts General Hospital, Trial of Procysteine in patients with Amyotrophic Lateral Sclerosis
2001	Principal Investigator, University Hospitals, Late-Onset Tay Sachs Medication Survey Project
2002	Principal Investigator, University Hospitals, A Randomized Controlled Study of OGT 918 in Patients with G _{M2} Gangliosidosis
2004 -	Principal Investigator, University Hospitals, An Open Label Controlled Study of OGT 918 in Patients with G _{M2} Gangliosidosis

RESEARCH FUNDING INFORMATION:

1993-1997	Funding Source - MDA and Orphan Drug Program of the U.S. F.D.A. Principal Investigator, Massachusetts General Hospital, Multicenter Controlled Trial of Dichlorphenamide in the Periodic Paralysis and Associated Sodium Channel Disorders
2001- 2003	Funding Source - The Mt. Sinai Health Care Foundation Principal Investigator, The University Hospitals of Cleveland Late-Onset Tay Sachs Disease Medication Survey Project
2002 - 2004	Funding Source - Celltech/Oxford Glycosciences Principal Investigator, The University Hospitals of Cleveland A Randomized Controlled Study of OGT 018 in Patients with G _{M2} Gangliosidosis

2004 - 2006 Funding Source - Actelion
Principal Investigator, The University Hospitals of Cleveland
An Open Label Controlled Study of OGT 018 in Patients with G_{M2}
Gangliosidosis

PRINCIPAL CLINICAL AND HOSPITAL SERVICE RESPONSIBILITIES:

1990-1993 Attending Neurologist, Neurology Ward and Consult Services, New
England Medical Center, Boston, MA

1990-1993 Out-patient neurologic consultations, New England Medical Center,
Boston, MA

1990-1993 Staff Electromyographer, New England Medical Center, Boston, MA

1990-1992 Attending Neurologist, Newton Wellesley Hospital, Newton, MA

1990-1992 Director, EMG Laboratory and Neuromuscular Service, Newton Wellesley
Hospital, Newton, MA

1992-1993 Acting Director, EMG Laboratory and Neuromuscular Service, New
England Medical Center, Boston, MA

1993-1998 Director, Clinical Neuromuscular Unit, Massachusetts General Hospital
Boston, MA

1993-1998 Out-patient neurologic consultations, Massachusetts General Hospital,
Boston, MA

1993-1998 Staff Electromyographer, Massachusetts General Hospital, Boston, MA

1993-1998 Attending Neurologist, Neurology Consult Service, Massachusetts
General Hospital, Boston, MA

1994-1998 Attending Neurologist, Neuromuscular Consult Service, Massachusetts
General Hospital, Boston, MA

1995-1998 Attending Neurologist, Neurology Ward Service, Massachusetts General Hospital, Boston, MA

1995-1998 Neuromuscular Specialist Monitor: Web Forum (Internet), Massachusetts General Hospital, Boston, MA

1998- Director, Neuromuscular Research, University Hospitals of Cleveland, Cleveland, Ohio

1998- Out-patient neurologic consultations, University Hospitals of Cleveland, Cleveland, Ohio

1998- Staff Electromyographer, University Hospitals of Cleveland, Cleveland, Ohio

1998- Attending Neurologist, Neurology Consult Service, University Hospitals of Cleveland, Cleveland, Ohio

1998- Attending Neurologist, Neuromuscular Consult Service, University Hospitals of Cleveland, Cleveland, Ohio

1998- Attending Neurologist, Neurology Ward Service, University Hospitals of Cleveland, Cleveland, Ohio

TEACHING RESPONSIBILITIES:

Undergraduate and Medical Student Education:

1972-1974 Teaching Assistant and Co-Teacher in undergraduate seminars at The Johns Hopkins University, Baltimore, MD

1981-1983 Teaching Fellow and Thesis Advisor to undergraduate and Master's Degree students at Harvard University

1990-1992 Attending Neurologist, Newton Wellesley Hospital (Neurology Ward and Consult Services), supervising medical students (2 to 3 months per year)

- 1990-1993 Attending Neurologist, New England Medical Center (Neurology Ward, Consult and Neuromuscular Consult Services), supervising medical students (2 to 3 months per year)
- 1991-1992 Small group instructor, Clinical neurology conference, Tufts University School of Medicine Neuroscience Course (medical students)
- 1998 -2000 Mentor, Medical Apprenticeship Program - Neurology - University Hospitals of Cleveland
- 1998- 2000 Small group instructor, Neurosciences Committee, Case Western Reserve University School of Medicine (medical students)

House Staff Teaching:

- 1990-1992 Attending Neurologist, Newton Wellesley Hospital (Neurology Ward and Neurology Consult Services), supervising neurology residents (2 to 3 months per year)
- 1990-1992 Director of the EMG laboratory, Newton Wellesley Hospital, supervising neurology residents (1 session per week)
- 1990-1993 Attending Neurologist, New England Medical Center (Neurology Ward, Neurology Consult and Neuromuscular Consult Services), supervising neurology residents (2 to 3 months per year)
- 1990-1993 Attending Neurologist, Neuromuscular out-patient clinic, New England Medical Center, supervising neurology residents (one four-hour session per week)
- 1990-1993 Lecturer on EMG and case presentations, New England Medical Center, (neurology residents - weekly conference)
- 1990-1993 Lecturer, Neurological Emergencies, introductory lecture series for first year neurology residents, New England Medical Center
- 1990-1993 Supervise neurology residents in EMG lab, New England Medical Center, (2 to 3 four-hour sessions per week)
- 1993-1994 Lecturer, Resident Neuroscience Lecture Series, Massachusetts General Hospital

- 1993-1998 Attending Neurologist, Neuromuscular out-patient clinic, Massachusetts General Hospital, supervising neurology residents, (1 four-hour session per month)
- 1993-1998 Attending Neurologist, Neurology Consult Service, Massachusetts General Hospital, supervising neurology and internal medicine residents, (1 month per year)
- 1993-1998 Supervise neurology and physiatry (since 1995) residents in EMG lab, Massachusetts General Hospital, (3 four-hour sessions per week)
- 1993-1998 Lecturer on EMG and case presentations, Massachusetts General Hospital, (weekly conference for neurology and physiatry residents)
- 1994-1995 Lecturer, Primary Care Physician Lecture Series in Neurology, Massachusetts General Hospital
- 1995-1998 Attending Neurologist, Neurology Ward Service, Massachusetts General Hospital (supervise neurology residents, 1 month per year)
- 1993-1998 Attending Neurologist, Neuromuscular out-patient clinic, Massachusetts General Hospital, supervising neurology residents, (1 four-hour session per month)
- 1998 - Attending Neurologist, Neurology Consult Service, University Hospitals of Cleveland, Cleveland, Ohio
- 1998 - Supervise neurology and psychiatry residents in EMG lab, University Hospitals of Cleveland, Cleveland, Ohio
- 1998 - Lecturer on EMG and case presentations, University Hospitals of Cleveland, Cleveland, Ohio
- 1998 - Attending Neurologist, Neurology Ward Service, University Hospitals of Cleveland, Cleveland, Ohio
- 1998 - Attending Neurologist, Neuromuscular out-patient clinic, University Hospitals of Cleveland, Cleveland, Ohio
- 1998 - Attending Neurologist, Neurology Consult Service, University Hospitals of Cleveland, Cleveland, Ohio

1998 - Supervise neurology residents in EMG lab, University Hospitals of Cleveland, Cleveland, Ohio

2000- Coordinator, Neurology Morbidity and Mortality monthly conference

Fellowship Teaching:

1990-1993 Attending Neurologist, New England Medical Center (Neuromuscular Consult Service), supervising EMG/neuromuscular fellows

1990-1993 Attending Neurologist, Neuromuscular out-patient clinic, New England Medical Center, supervising EMG/neuromuscular fellows (1 four-hour session per week)

1990-1993 Lecturer on EMG and case presentations, New England Medical Center, (EMG/neuromuscular fellows - weekly conference)

1990-1993 Supervise EMG/neuromuscular fellows in EMG lab, New England Medical Center

1993-1998 Lecturer on EMG and case presentations, Massachusetts General Hospital, (EMG/neuromuscular fellows - weekly conference)

1993-1998 Supervise EMG/neuromuscular fellows in EMG lab, Massachusetts General Hospital

1993-1998 Attending Neurologist, Neuromuscular out-patient clinic, Massachusetts General Hospital, supervising EMG/neuromuscular fellows

1993-1998 Organize Weekly Neuromuscular Conference for medical students, neurology and psychiatry (since 1995) residents, and EMG/neuromuscular fellows, Clinical Neuromuscular Unit, Massachusetts General Hospital

1994-1998 Attending Neurologist, Neuromuscular Consult Service, Massachusetts General Hospital, supervising EMG/neuromuscular fellows

1998- Lecturer on EMG and case presentations, University Hospitals of Cleveland, Cleveland, Ohio

- 1998- Supervise EMG/neuromuscular fellows in EMG lab, University Hospitals of Cleveland, Cleveland, Ohio, supervising EMG/neuromuscular fellows
- 1998- Attending Neurologist, Neuromuscular out-patient clinic, University Hospitals of Cleveland, Cleveland, Ohio, supervising EMG/neuromuscular fellows
- 1998- Attending Neurologist, Neuromuscular Consult Service, University Hospitals of Cleveland, Cleveland, Ohio, supervising EMG/neuromuscular fellows

FELLOWSHIP TRAINEES:

- 1990-1991 Lissette Jimenez, M.D., Puerto Rico
- 1991-1992 Alec Kloman, M.D., Bennington, VT
- 1993-1994 Leslie Shinobu, M.D., Ph.D., Massachusetts General Hospital, Boston, MA
Steven Ring, M.D., Wollongong, Australia
- 1994-1995 Timothy Kelliher, M.D., Beverly, MA
Janice Onorato, M.D., Alaska
Najeeb Zuberi, M.D.
- 1995-1996 Mark Faragher, M.D., Victoria, Australia
Will North, M.D., University of Connecticut, Farmington, CT
- 1995-1997 Oscar Soto, M.D., University of Minnesota, Minneapolis, MN
- 1996-1997 Syed Ali, M.D., New England Medical Center, Boston, MA
Bonnie Hersh, M.D., Boston Medical Center, Boston, MA
Sharoneh Soumekh, M.D., Massachusetts General Hospital, Boston, MA
- 1997-1998 Dexter Sun, M.D., New York, New York
Katherine Dawson, M.D., Massachusetts General Hospital, Boston, MA
Kim Goslin, M.D., Ph.D., Portland, Oregon
Nels Carlson, M.D., University of Oregon, Portland, Oregon
- 1998-1999 Robert Richardson, M.D., Cleveland Vincent Charity Hospital, Cleveland, OH
- 1999-2000 Kanokwan Boonyapisit, M.D., Bangkok, Thailand
- 2000-2001 Ahmad Al-Khatib, M.D., Lima, Oh
Ali Almodallal, M.D., Lima, Ohio
Connie Santillan
- 2001-2002 Amer Alsheklee, M.D., The University Hospitals of Cleveland

2002-2003	Marek Buczek, M.D., The University Hospitals of Cleveland Daniel Miller, M.D., The University Hospitals of Cleveland Peter Cutri, D.O.
2003-2004	Jose Americo Fernandes, M.D. Rami Hachwi, M.D.
2004-2005	Jenice Robinson, M.D. Judah Lindenberg, M.D.
2005-2006	Patrick Tessman, M.D., The University Hospitals of Cleveland Daniel Koontz, M.D., The University Hospitals of Cleveland
2006-2007	Badr Sultan, M.D. Hussein Zulfiquar, M.D
2007-2008	Kristen Johnson, D.O. Annette Janus, M.D.
2008-2009	Steven Arbogast, D.O. Douglas Miles, M.D.

POST GRADUATE MEDICAL EDUCATION AND INVITED PRESENTATIONS:

1996	Course Faculty, American Academy of Neurology, Continuing Education Seminar, San Francisco, California (EMG Waveforms: Recognition and Analysis)
1996	Course Faculty, American Academy of Neurology, Continuing Education Seminar, San Francisco, California (Unusual Diagnostic and Management Problems in Neuromuscular Disease I)
1997	Course Faculty, American Academy of Neurology, Continuing Education Seminar, Boston, MA (EMG Waveforms: Recognition and Analysis)
2001	Invited Speaker - Vevesca Forum on Treatment of Gangliosidoses, Royal Society of Medicine, London, UK , May, 2001.
2003	Invited Speaker - Late Onset Tay Sachs Disease Annual Conference, Philadelphia, July, 2003.
2004	Neurology Grand Rounds, University Hospitals of Cleveland, January, 2004, Late-onset Tay-Sachs Disease (LOTS) : Genetics, Clinical Features, Pathophysiology, and Treatment Trials. Janet C. Rucker, M.D., R. John Leigh, M.D., and Barbara E. Shapiro, M.D., Ph.D.

BIBLIOGRAPHY:

Original Reports:

1. **Shapiro BE**, Grossman M, Gardner H. Selective musical processing deficits in brain damaged populations. *Neuropsychologia* 1981;19:161-169.
2. Grossman M., **Shapiro BE**, Gardner H. Dissociable musical processing strategies after localized brain damage. *Neuropsychologia* 1981;19, 425-433.
3. **Shapiro BE**, Alexander MP, Mercer B. Mechanisms of Confabulation. *Neurology* 1981;31:1070-1076.
4. Danly M, **Shapiro BE**. Speech prosody in Brocas Aphasia. *Brain and Language* 1982;16:171-190.
5. Danly M, Cooper WE, **Shapiro BE**. Fundamental frequency, language processing, and linguistic structure in Wernicke's aphasia. *Brain and Language* 1983;19:1-24.
6. **Shapiro BE**, Danly M. The role of the right hemisphere in the control of speech prosody in propositional and affective contexts. *Brain and Language* 1985;25:19-36.
7. Macdonell R, Chiappa K, Cros D, Day B, **Shapiro BE**, Shahani B. The site of minimum threshold for activation of lower extremity muscles using a magnetic coil stimulus tangential to the scalp. *Ann Neurol* 1990;28:273.
8. Macdonell RAL, **Shapiro BE**, Chiappa KH, Helmers SL, Cros D, Day BJ, Shahani BT. Hemispheric threshold differences for motor evoked potentials produced by magnetic coil stimulation. *Neurology* 1991;41:1441-1444.
9. Hardiman O, Brown RH, Farrell MA, Halgren J, **Shapiro BE**, Wray S. Neuropathic findings in oculopharyngeal muscular dystrophy: a report of six cases and review of the literature. *Arch Neurol* 1993;50:481-488.
10. **Shapiro BE**, Slattery M, Pessin M. Absence of auricular lesions in the Ramsay Hunt Syndrome. *Neurology* 1994;44:773-774.
11. **Shapiro BE**, Rordorff G, Schwamm L., Preston DC. Delayed radiation-induced bulbar palsy. *Neurology* 1996;46:1604-1606.

12. Griggs RC, Tawil R, Brown RH Jr., **Shapiro BE**, Ptacek LJ, McManis PG, Dalakas MC, Mendell JR, Hahn AF, McDermott MP. Implications of molecular defects for classification and treatment of periodic paralysis. *Recent Advances in Clinical Neurophysiology*, Kimura J. and Shibasaki H. ed, Elsevier Science B.V.,1996;160-169.
13. **Shapiro BE**, Soto O, Shafquat S, Blumenfeld H. Adult botulism. *Muscle Nerve* 1997; 20:100-102.
14. Preston DC, **Shapiro BE**. Meeting badge neuropathy. *Neurology* 1997;48:289-290.
15. Preston DC, **Shapiro BE**, Raynor EM, Kothari MJ. The relative value of facial, glossal, and masticatory muscles in the electrodiagnosis of ALS. *Muscle Nerve*, 1997;20:370-372.
16. Tawil R, McDermott MP, Brown R, **Shapiro BE**, Ptacek LJ, McManis PG, Dalakas MC, Specter S, Mendell JR, Hahn AF, Griggs RC and the Working Group on Periodic Paralysis. Randomized Trials of Dichlorphenamide in the Periodic Paralysis, *Annals of Neurology*, 2000;47(1):46-53.
17. Richardson RF, Katirji B, Rodgers MS, Preston DC, **Shapiro BE**. Inflammatory myopathy in hemiatrophy due to linear scleroderma. *J Clin Neuromus Dis*, 2000; 2(2):73-77.
18. Preston DC, **Shapiro BE**. Pulmonary Arteriovenous Fistula and Brain Abscess. *Neurology*, 2001; 56:418.
19. Preston DC, **Shapiro BE**. Lymphoma of the sciatic nerve. *J Clin Neuromus Dis*, 2001; 2(4):227-228.
20. Preston DC, **Shapiro BE**, Schecht HM. Ganglion cyst at Guyon's canal: Electrophysiology and pathology. *J Clin Neuromus Dis*, 2001; 3(2):89-91.
21. Boonyapisit K, Katirji B, **Shapiro BE**, Preston DC. Lumbrical and interossei recording in severe carpal tunnel syndrome. *Muscle Nerve*, 2002;25:102-105.
22. Preston DC and **Shapiro BE**. Needle Electromyography: Fundamentals, Normal and Abnormal Patterns. *Neurol Clin*, 2002; 20:361-396.
23. Al-Shekhlee A, **Shapiro BE**, Preston DC. Iatrogenic complications and risks of nerve conduction studies and needle electromyography. *Muscle Nerve*, 2003; 27:517-526.
24. **Shapiro BE** and Preston DC. Entrapment and Compressive Neuropathies. *The Medical Clinics of North America*, 2003; 87:666-696.

25. **Shapiro BE** and Preston DC. Repetitive Nerve Stimulation and Exercise Testing. *Physical Medicine and Rehabilitation Clinics of North America*, 2003, 14:185-2006.
26. Tessman P, Preston DC, **Shapiro BE**. Spinal epidural abscess in an afebrile patient. *Arch Neurol*, 2004, 61:590.
27. Morcos Z, Kerns SC, **Shapiro BE**. Wernicke's Encephalopathy, *Arch Neurol*, 2004, 61:775-76.
28. Fernandes JA, **Shapiro BE**. Tay-Sachs Disease. Invited Review, Seminal Citations. *Arch Neurol*, 2004, 61:1466-1468.
29. Rucker JR, **Shapiro BE**, Han YH, Kumar AN, Garbutt S, Keller EL, Leigh JR. Neuro-ophthalmology of Late-Onset Tay-Sachs Disease (LOTS). *Neurology*, 2004, 63:1918-1926.
30. Ubogu EE, Hong STK, Akman HO, DiMauro S, Katirji B, Preston DC, **Shapiro BE**. Adult polyglucosan body disease: a case report of a manifesting heterozygote. *Muscle Nerve*, 2005; 32:675-681.
31. **Shapiro BE**, Hatters-Friedman S, Fernandes-Filho JA, Anthony K, Natowicz MR. Late-Onset Tay-Sachs Disease: Adverse Effects of Medications and Implications for Treatment. *Neurology*, 2006, 67:875-877.
32. **Shapiro BE**, Logigian E, Kolodny E, Pastores G. Late-onset Tay-Sachs Disease: The spectrum of peripheral neuropathy in 30 affected patients. *Muscle Nerve*, 2008, 38:1012-1015.
33. **Shapiro BE**, Natowicz MR. Late-Onset Tay-Sachs Disease presenting as a childhood stutter. *J. Neurol. Neurosurg. Psychiatry*, 2009; 80: 94 - 95.
34. **Shapiro BE**, Pastores GM, Gianutsos J, Luzy C, Kolodny EH. Miglustat in Late-Onset Tay-Sachs disease: a 12-month, randomized, controlled clinical study with 24 months of extended treatment. 2009, *Genetics in Medicine*, in press.
35. **Shapiro BE** and Preston DC. Entrapment and Compressive Neuropathies. *The Medical Clinics of North America*, 2009; 93:285-315.
36. Sarno M, Pastores G, Kolodny E, **Shapiro BE**: Speech characteristics of Late-Onset Tay-Sachs Disease. In preparation.

Book Chapters and Educationally Relevant Publications:

1. **Shapiro BE**. Atypical motor neuron disease, in Samuels MA, Feske S (eds), *Office Practice of Neurology*. New York, NY, Churchill Livingstone, 1995.
2. **Shapiro BE**. Adult botulism: Difficulties in early electrodiagnostic studies. *Muscle Nerve* 1997;20:1332 (Letter).

3. **Shapiro BE.** Uremic neuropathy, in Gilman S, Goldstein G, Waxman S (eds), *Neurobase*, San Diego, Arbor Publishing Corporation, 1998, 1999.
4. **Shapiro BE.** Hepatic neuropathy, in Gilman S, Goldstein G, Waxman S (eds), *Neurobase*, San Diego, Arbor Publishing Corporation, 1998, 1999.
5. **Shapiro BE.** and Preston DC. EMG waveform analysis, in Evans RW (ed), *Neurologic Clinics - Diagnostic Testing in Neurology*. Philadelphia, PA, W.B. Saunders, 1999.
6. **Shapiro BE.** Cervical spondylotic myelopathy in elderly people: a high incidence of conduction block at C3-4 or C4-5, Commentary - *Journal Watch Neurology*, July, vol. 1 (3) 1999.
7. Kelly P and **Shapiro BE.** Motor neuron disorders, in Batchelor T and Cudkovicz M (eds), *Principles of Neuroepidemiology*, Woburn, MA, Butterworth Heinemann, 2000.
8. Preston DC, Katirji B, **Shapiro BE**, Logigian EL, Kelly JJ. Clinical neurophysiology training and certification in the United States: 2000. *Neurology* 2001;56(11):1605-1606 (Letter).
9. **Shapiro BE.** The facts about Late Onset Tay-Sachs Disease, in *The Kaiserman Jewish Genetic Disease Report*, Albert Einstein Medical School, 1(2) 2002.
10. **Shapiro BE**, Katirji B, Preston DC. Clinical electromyography, in Katirji B, Kaminski H, Preston DC, Ruff RL, Shapiro BE (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.
11. Chance P and **Shapiro BE.** Charcot-Marie-Tooth disease (Hereditary Motor And Sensory Neuropathy) and related disorders, in Katirji B, Kaminski H, Preston DC, Ruff RL, Shapiro BE (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.
12. Boonyapisit K and **Shapiro BE.** Atypical motor neuron diseases, in Katirji B, Kaminski H, Preston DC, Ruff RL, Shapiro BE (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.
13. Boonyapisit K, **Shapiro BE**, Trojan DA, Cashman NR. Poliomyelitis and post-poliomyelitis syndrome, in Katirji B, Kaminski H, Preston DC, Ruff RL, Shapiro BE (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.
14. **Shapiro BE** and Ruff RL. Disorders of skeletal muscle membrane excitability: Myotonia congenita, paramyotonia congenita, periodic paralysis and related syndromes, in Katirji B, Kaminski H, Preston DC, Ruff RL, Shapiro BE (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.
15. **Shapiro BE** and Brown RH. Myotonia and Periodic Paralysis, in Samuels MA, Feske S (eds), *Office Practice of Neurology, 2nd ed*, New York, NY, Churchill Livingstone, 2003.
16. **Shapiro BE.** Atypical motor neuron disease, in Samuels MA, Feske S (eds), *Office Practice of Neurology*. New York, NY, Churchill Livingstone, 2003.

17. **Shapiro BE**, Levitt J, Ruff RL. Clinical characteristics of channelopathies involving skeletal muscle, in Aminoff MJ and Daroff RB (eds), *Encyclopedia of the Neurological Sciences*, New York:Academic Press, 2003.
18. Preston DC, **Shapiro BE**, Brooke MH. Proximal, distal and generalized weakness, in Bradley WG, Daroff RB, Fenichel GM, Jankovic J (eds), *Neurology in Clinical Practice* (4th Ed). Philadelphia PA, Butterworth-Heinemann, 2004.
19. **Shapiro BE**. Do some patients with CFS have virally impaired muscle metabolism? Commentary - Journal Watch Neurology, February, vol. 6 (2), 2004.
20. Ruff RL, **Shapiro BE**, Levitt J. Electrical characteristics of channelopathies involving skeletal muscle. Compendium from the International SFEMG course and VIII QEMG Conference, Nijmegen, Netherlands, June, 2004.
21. Ruff RL, Levitt J, **Shapiro BE**. Voltage gated sodium and calcium channels: Role in the pathogenesis of hypokalemic periodic paralysis, in Adelman G. and Smith B (eds) *Encyclopedia of Neuroscience*, 3rd edition. Boston: Elsevier, 2004.
22. **Shapiro BE** and Ruff RL. The Periodic Paralysis - Current Therapy, in Johnson RT, Griffin JW and MacArthur JC, *Current Therapy in Neurologic Disease*, Volume 7, Elsevier, 2006.
23. **Shapiro BE**. More work needed on electrodiagnosis for tarsal tunnel syndrome - Journal Watch Neurology, 2006.
24. **Shapiro BE**, Hannibal MC, Chance PF. Charcot-Marie-Tooth disease and related disorders, in Kimura, J, *Peripheral Nerve Diseases, Handbook of Clinical Neurophysiology*, Volume 7, Elsevier, 2006.
25. **Shapiro BE**, Kolodny EH, Pastores GM, Luzy C. Neurocognitive testing in late-onset Tay-Sachs disease: A pilot study. Letter to the Editor. J Inher Metab Dis, 2009, in press

Books:

1. Preston DC and **Shapiro BE**. *Electromyography and Neuromuscular Disorders*, Butterworth Heinemann, 1998 (570 pages).
2. Preston DC and **Shapiro BE**. *EMG Video Waveform Analysis: Electromyography and Neuromuscular Disorders*, Butterworth Heinemann, 2000.
3. Katirji B, Kaminski H, Preston DC, Ruff RL, **Shapiro BE** (eds), *Neuromuscular Disorders in Clinical Practice*, Woburn, MA, Butterworth-Heinemann, 2002.

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