

WILLIAM S. DAVID

Citizenship: United States

Address

Department of Neurology
Hennepin County Medical Center
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Education

Undergraduate: 1973-1977
Brandeis University, Waltham, MA
B.A. Chemistry, 1977

Postgraduate: 1977-1985
Albert Einstein College of Medicine
M.S. Neuroscience, 1980
Ph.D. Neuroscience, 1985

Medical: 1977-1985
Albert Einstein College of Medicine, Bronx, NY
M.D., 1985

Internship: 1985-1986
Beth Israel Hospital, Boston, MA

Residency: 1986-1989
Harvard-Longwood Neurological Training Program, Boston, MA
Chief Resident, 1989

Fellowship: 1989-1990
Lahey Clinic Medical Center, Burlington, MA
EMG

Academic Appointments

Associate Professor of Neurology
University of Minnesota Medical School
Minneapolis, MN

Academic Administrative Appointment

2000 –
Director of Neurology Residency Training Program
University of Minnesota Medical School
Minneapolis, MN

Academic Administrative Appointment (cont.)

1999-
Director of ACGME-Accredited Clinical Neurophysiology Fellowship
University of Minnesota Medical School
Minneapolis, MN

Clinical/Hospital Appointments

1990 –
Associate Staff Physician in Neurology
Hennepin County Medical Center
Minneapolis, MN

1990 –
Director of EMG Laboratory
Hennepin County Medical Center
Minneapolis, MN

1991 –
Director of EMG/Clinical Neurophysiology Fellowship
Hennepin County Medical Center
Minneapolis, MN

1999 –
Medical Director, ALSA-Certified ALS Center
Hennepin Faculty Associates
Minneapolis, MN

2002-
Staff Physician in Neurology
Fairview University Medical Center
Minneapolis, MN

Consulting Activities

1999 -
National Medical Advisory Board
Amyotrophic Lateral Sclerosis Association

1998-
State Medical Advisory Board
Minnesota State Chapter of the Myasthenia Gravis Foundation of America

Scientific Activities

Journals

2000 -
Ad Hoc reviewer for Journal of Clinical Neuromuscular Disease

2000 –
Ad Hoc reviewer for Postgraduate Medicine

2003-
Ad Hoc reviewer for Autonomic Neuroscience

2003-
Ad Hoc reviewer for The Lancet

2003-
Ad Hoc reviewer for Muscle/Nerve, Issues and Opinions Column

Grant Peer Review
1997 –
Minnesota Medical Research Foundation Grant Review Committee
Minneapolis, MN

Grant Support

Ortho-McNeil

A Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Efficacy and Safety of Tramadol/Acetaminophen for the Treatment of Painful Diabetic Neuropathy

Percent Effort: 5%

Site Principal Investigator: William S. David

Dates: 11/03-

Novartis

A Randomized, Double-blind, Placebo-controlled, Stratified, Parallel-group, Multicenter, Dose-ranging Study Evaluating Four Oral Doses of TCH346 (1.0, 2.5, 7.5, and 15mg) Administered Once Daily in Patients With Amyotrophic Lateral Sclerosis

Percent Effort 5%

Site Principal Investigator: William S. David

Dates: 9/03-

Advanced Respiratory

ALS Multicenter Study to Determine the Effects of High-frequency Chest Wall Oscillation on Patients with ALS

Percent Effort 5%

Site Principal Investigator: William S. David

Dates: 5/2003-

NINDS

A Multi-center, Phase III, Randomized, Double-blind, Placebo-controlled, Clinical Trial of Minocycline in 400 Subjects with Amyotrophic Lateral Sclerosis

Percent Effort 5%

Site Principal Investigator: William S. David

Dates: 4/2003-

NIH/Cephalon

Phase III Trial of IGF-1 for Amyotrophic Lateral Sclerosis

Percent Effort 5%

Site Principal Investigator: William S. David

Dates: 6/2003-

Pharmacia

Trial of Celebrex in Subjects with ALS

Percent Effort 5%

Site Principal Investigator: William S. David

1/2002-1/2004

NIH

Clinical Trial of Topiramate in Amyotrophic Lateral Sclerosis (ALS)

Percent Effort 5%

Site Principal Investigator: William S. David

Dates: 7/29/2000-2/1/2002

Ortho-McNeil

Clinical Trial of Topiramate in Amyotrophic Lateral Sclerosis (ALS)

Percent Effort 5%

Site Principal Investigator: William S. David
2/1/2000-2/1/2002

RW Johnson Pharmaceutical Research Institute

A Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Effect of Topiramate on Electrophysiological Parameters in Subjects with Diabetic Peripheral Polyneuropathy

Percent Effort 5%

Site Principal Investigator: William S. David
8/2001-6/2002

Ortho-McNeil

A comparison of the Analgesic Efficacy and Safety of Topiramate versus Placebo for the Treatment of the Pain of Diabetic Neuropathy

Percent Effort 5%

Site Principal Investigator: William S. David
5/2001-6/2002

Northwestern Health Sciences University/

Foundation for Chiropractic, Education and Research

Chiropractic Treatment of Carpal Tunnel Syndrome and Related Conditions in the Elderly

Percent Effort 10%

Principal Investigator: Hulbert
1/1/2002-7/31/2003

Wyeth-Ayerst

Fiblast in Patients with Acute Stroke

Percent Effort 5%

Site Principal Investigator: William S. David
Dates 10/1997-9/2000

Interneuron Pharmaceuticals

Citicoline – Lesion Volume – Human Stroke

Percent Effort 5%

Site Principal Investigator: William S. David
Dates: 6/1/98 – 6/1/99

ALSA Grant

Measuring the interobserver reliability and validity between different medical institutions of maximal voluntary isometric contraction megascoring (MVIC) and manual motor testing scores (MMT) in assessing the progression of amyotrophic lateral sclerosis (ALS).

Percent Effort 5%

Site Principal Investigator: William S. David

Allergan

Botulinum Toxin in the Treatment of Intractable Bruxism

Percent Effort 1%

Site Principal Investigator: William S. David
Dates: 1996-2001

Certification and Licensure

1990 American Board of Psychiatry and Neurology
 1991 American Board of Electrodiagnostic Medicine
 1999 ABPN Subspecialty Certification in Clinical Neurophysiology
 1990 License, Minnesota Board of Medical Practice
 1990 DEA # BO1507473
 2002 BCLS

Honors and Awards

1976 Phi Beta Kappa (admitted junior year)
 1977 Rishon M. Bialer Award
 ("senior who had been the outstanding science/premedical concentrator" Brandeis University)
 1977 Summa Cum Laude with High Honors in Chemistry
 1978-85 Medical Scientist Training Program Fellowship
 1984-85 Samuel and May Rudin Scholar
 1985 Alpha Omega Alpha

Memberships and Offices in Professional Societies

2001 - Association University Professors of Neurology
 1987 - American Academy of Neurology

- 1999 - Neuromuscular Section
- 1999 - Clinical Neurophysiology Section
- 2001 - A.B. Baker Education Section
- 2001 - Consortium of Program Directors

 1989 - American Association of Electrodiagnostic Medicine
 1990 - Minnesota Medical Society
 1990 - Hennepin County Medical Society

Teaching and Mentoring

2001, 2002
 Faculty Instructor
 Autonomic Workshop, AAEM National Meetings

Extramural Invited Presentations

Use of Botulinum Toxin in the Treatment of Spastic Dysphonia
 Annual Meetings, Minnesota Speech-Language-Hearing Association
 Duluth, MN, 4-3-92

Evaluation of the Arthrogryptic Infant
 AAEM National Meetings, Special Interest Group,
 Charleston, SC 10-92

Spasmodic Dysphonia
 Minneapolis Society of Head and Neck Nurses
 Minneapolis, MN, 11-30-93

Spasmodic Dysphonia
 CME Phonosurgery course
 Minneapolis, MN, 5-19-95

Botulinum Toxin in the Treatment of Dystonia

Minnesota Society of Neurological Sciences
Bloomington, MN, 11-22-97

Electrophysiologic Evaluation of Myasthenia Gravis
Minnesota State Chapter of the Myasthenia Gravis Foundation
Minneapolis, MN, 9-27-98

Caregiver Issues: Coping with Neurologic Disease (ALS)
American Academy of Neurology Symposium,
Minneapolis, MN 2-1-01

Innovative Therapeutic Uses of Injectable Neurotoxins
Television/Video CME Program for Physicians and Allied Health Professionals
Minneapolis, MN, 5-23-02

Other Presentations

CPC – Neurology of AIDS
Medicine Department
Hennepin County Medical Center
Minneapolis, MN, 6-19-91

Guillain-Barre Syndrome
Medical Grand Rounds
Hennepin County Medical Center
Minneapolis, MN, 5-28-92

Vaccine-Induced Poliomyelitis
Pediatric Grand Rounds
Hennepin County Medical Center
Minneapolis, MN, 11-18-93

Guillain-Barre Syndrome
Medical Grand Rounds
Hennepin County Medical Center
Minneapolis, MN, 5-19-94

Spasmodic Dysphonia
Neurosciences Conference
University of Minnesota
Minneapolis, MN, 2-22-96

Diabetic Neuropathy
Medical Grand Rounds
Hennepin County Medical Center
Minneapolis, MN, 4-18-96

Single Fiber EMG and Repetitive Stimulation Techniques
University of Minnesota PM&R Residency
Minneapolis, MN, 11-02

ALS and Motor Neuron Diseases
University of Minnesota School of Physical/Occupational Therapy
Minneapolis, MN, 11-00, 11-01, 11-02

Acute Generalized Weakness and Respiratory Failure

Annual Resident Lecture (Neurologic Emergency Course)
University of Minnesota Medical School
Minneapolis, MN, 1990 - present

Peripheral Neuropathy
Annual Lecture to Medical Residents
Hennepin County Medical Center
Minneapolis, MN, 1997 - present

Annual CNP Fellowship Lectures (5 topics)
University of Minnesota Medical School
Minneapolis, MN, 1999 - present

Committee and Administrative Service

National:

1993 – 2000
Workshop Committee
American Association of Electrodiagnostic Medicine

1994 – 1997
On site coordinator for workshops at AAEM National Meeting

1997 – 2000
Chairman, AAEM Workshop Committee

1997 – 2000
Annual Meeting Coordination Committee (AAEM)

2000 – 2002
Chairman, AAEM NDE Task Force

2003-
Education Committee (AAEM)

1998, 2000, 2002, 2003
Oral Board Examiner
American Board of Psychiatry and Neurology

1994, 1995, 2000, 2001, 2003
Oral Board Examiner
American Board of Electrodiagnostic Medicine

Local:

1991 –
Pharmacy and Therapeutics Committee
Hennepin County Medical Center
Minneapolis, MN

2000 -
Graduate Medical Education Committee
University of Minnesota
Minneapolis, MN

2002 -
Chairman, Internal Review Committee of Neurosurgical Training Program
University of Minnesota Medical School
Minneapolis, MN

2003-
Chairman, Internal Review Committee of Pediatric Cardiology Fellowship
University of Minnesota Medical School
Minneapolis, MN

2003-
Chairman, Task force on ACGME Outcomes Initiatives
University of Minnesota Neurology Training Program
Minneapolis, MN

Annotated Bibliography

Guarantor of integrity of entire study – A
Developed study concept – B
Developed study design – C
Defined intellectual content – D
Conducted literature research – E
Conducted experimental studies – F
Data acquisition – G
Manuscript preparation – H
Manuscript editing – I
Manuscript review – J

Peer Reviewed

1. **David WS**, Jones HR. EMG and biopsy correlation with suggested protocol for evaluation of the floppy infant. *Muscle and Nerve*, 1994;17:424-430. (A, B, C, D, E, G, H, I)
2. Doyle JJ, **David WS**. Posterior antebrachial cutaneous neuropathy associated with lateral elbow pain. *Muscle and Nerve*, 1993;16(12):1417-1418. (A, B, D, E, G, H, I)
3. **David WS**, Jones HR. Soft tissue sarcoma presenting as atypical leg pain. *Muscle and Nerve*, 1994;17:1071-1072. (A, B, D, E, G, H, I)
4. Leatherman J, Fleugel WL, **David WS**, Davies SF, Iber C. Myopathy in mechanically ventilated patients with severe asthma. *American Journal of Respiratory and Critical Care Medicine* 1996;153:1686-90. (D, E, G, I, J)
5. **David WS**, Doyle JJ. Segmental Near Nerve Sensory Conduction studies of the medial and lateral plantar nerves. *Electromyogr Clin Neurophysiol* 1996;36:411-417. (A, B, C, D, E, F, G, H, I)
6. Roth CR, Glaze LE, Goding G, **David WS**. Spasmodic dysphonia symptoms as initial presentation of amyotrophic lateral sclerosis. *Journal of Voice*, November 1996,10(4). (D, E, I)
7. **David WS**, Peine C, Schlesinger P, Smith SA. Mononeuropathy multiplex associated with cryoglobulinemia and hepatitis C. *Muscle and Nerve* 1996;19:1596-1602. (A, D, E, G, H, I)
8. **David WS**, Doyle JJ. Acute infantile weakness: a case of vaccine-associated poliomyelitis. *Muscle and Nerve* 1997;20:747-749. (A, D, E, G, H, I)

9. **David WS**, Mahdavi Z, Bundlie SR. Polysomnographic studies in amyotrophic lateral sclerosis. *Journal of Neurological Sciences* 1997;152(Supp.1):S29-S35. (A, B, C, D, E, G, H, I)
10. **David WS**, Roehr CL, Leatherman, J. Electromyographic findings in acute myopathy with status asthmaticus, steroids and paralytics. Clinical and electrophysiologic correlation. *Electromyogr. Clin. Neurophysiol.* 1998;38:371-376. (A, B, D, E, G, H, I)
11. Nance MA, Raabe WA, Midani H, **David WS**, Megna L, Pericak-Vance MA, Haines JL. Clinical Heterogeneity of familial spastic paraplegia linked to chromosome 2p21. *Hum Hered*, 1998 May-Jun; 48(3): 169-78. (E, G, I, J)
12. **David WS**, Sharif A. Clozapine-induced myokymia. *Muscle and Nerve*, June 1998; 21:827-828. (A, B, D, E, G, H, I)
13. Anderson JL, Khan M, **David WS**, Mahdavi Z, Nuttall FQ, Krech E, West SG, Vance JM, Pericak-Vance MA, Nance MA. Confirmation of linkage of hereditary partial lipodystrophy to chromosome 1q21-22. *Am J Med Genet* 1999; 82:161-165. (E, G, I, J)
14. **David WS**, Mahdavi Z, Nance M, Khan M. Hyperlipidemia and neuropathy. *Electromyogr Clin Neurophysiol* 1999; 39:227-230. (A, B, C, D, E, G, H, I)
15. A phase III randomized efficacy trial of 2000 mg citicoline in acute ischemic stroke patients. *Neurology* 2001 Nov. 13; 57(9):1595-602. (G, J)
16. **David WS**, Chaudry V, Dubin A, Shields RW. Literature Review: Nervepace Digital Electroneurometer in the Diagnosis of Carpal Tunnel Syndrome. *Muscle and Nerve* 2003; 27:378-385. (A, D, E, H, I)
17. **David WS**, Gormley ME. Innovative Therapeutic Uses of Injectible Neurotoxins. *The Federal Practitioner* 2003; 20 (4):5-19.. (A, D, E, I, J)
18. Cudkovicz ME, Shefner JM, Shoenfeld DA, Brown RH, Johnson H, Qureshi M, Jacobs M, Rothstein JD, Appel SH, Pascuzzi RM, Heiman-Patterson TD, Donofrio PD, **David WS**, et al. A randomized, Placebo-controlled Trial of Topiramate in Amyotrophic Lateral Sclerosis. *Neurology*.2003;61:456-464. (G,I J)

Non-Peer Reviewed

1. **David, WS**. The cost effective evaluation of the patient complaining of weakness. *Consultant* 1999; 39(9): 2493-2519.

Articles Accepted for Publication

1. Great Lakes ALS Study Group. Comparison of Strength Assessment in Amyotrophic Lateral Sclerosis. *Neurology*. (B, G, I, J)
2. Kang PB, Lodov HGW, Torres A, Anthony DC, **David WS**, Jones HR, Darras BT. Arthrogryposis multiplex congenital: a 23-year study comparing electromyography and neuropathology *Annals of Neurology* (B, C, D, E, G, H,

Articles Submitted for Publication

1. Leatherman JW, **David WS**. Acute severe corticosteroid myopathy despite minimal or no exposure to neuromuscular blocking agents. (D, E, G, I, J)

Books

1. **David WS.** Synaptic site specificity: the paths and terminal distributions of surgically displaced afferents in the amphibian Mauthner cell system. Ph.D. dissertation, Albert Einstein College of Medicine, 1985.

Chapters in Books

1. Mahowald M, **David WS.** Electrophysiologic evaluation of muscle disease. In Diseases of Skeletal Muscle. RL Wortmann, ed. Lippincott Williams and Wilkins, 1999, pg. 313-331.
2. **David WS.** Myoglobinuria. Neurologic Clinic, February 2000; 18(1): 215-243.
3. **David WS.** Vaccine-associated poliomyelitis. In Neuromuscular disorders of infancy and childhood: A clinician's approach. Butterworth Heineman, 2003, pg. 207-219.
4. **David WS.** Meralgia paresthetica. In Encyclopedia of the Neurological Sciences. MJ Aminoff, RB Daroff, eds. Academic Press, 2003.

Abstracts, Preliminary Communications, Clinical Papers

1. **David WS,** Model PG. Effect of displacing afferent projection on synapse localization on an identified vertebrate central neuron. Anat Rec 1982;202:41A.
2. **David WS,** Model PG. Synapse localization on the Mauthner cell is unaffected by displacement of a major afferent projection. Soc Neurosci Abstr 1982;8:436.
3. **David WS,** Model PG. Surgically displaced nVIII and nVII follow normal CNS pathways to an identified target neuron. Soc Neurosci Abstr 1984;10:1160.
4. Wang A, Leibowich S, Ridker P, **David WS.** Paraneoplastic cerebellar degeneration in a patient with ovarian carcinoma. Amer Jnl of Neurorad, 1988;9:216-217.
5. **David WS,** Jones HR. Electromyographic evaluation of the floppy infant. Muscle and Nerve, 1990;9:857.
6. **David WS,** Kupsky WJ, Jones HR. Electromyographic and histologic evaluation of the arthrogryptic infant. Electroenceph Clin Neurophys, 1992;85:17P.
7. **David WS,** Jones HR. Soft tissue sarcoma presenting as atypical leg pain. Electroenceph Clin Neurophys, 1993;87:74P.
8. Doyle JJ, **David WS.** Segmental near nerve sensory conduction studies of the medial and lateral plantar nerves. Muscle and Nerve, 1993;16(10):1114.
9. Doyle JJ, **David WS.** Poliomyelitis causing weakness arising in a critical care setting. (Abstract, International Symposium on Neurocritical Care, 1993).
10. Logothetis V, **David WS.** Chronic progressive mixed sensory and motor polyneuropathy associated with hereditary coproporphyruria. Muscle and Nerve, 1994;17:1083-1084.
11. **David WS.** Mononeuropathy multiplex associated with cryoglobulinemia and hepatitis C. Muscle and Nerve, 1995;18:1067-68.

12. **David WS**, Roehr CL. EMG findings in acute myopathy with status asthmaticus, steroids and paralytics: clinical and electrophysiologic correlation. *Electroenceph Clin Neurophysiol.*, 1995;97(4):5214.
13. Nance MA, Raabe WA, Midani H, **David WS**, Megna L, Pericak-Vance MA, Haines JL. Confirmation of linkage of familial spastic paraparesis to chromosome 1q21-22. *Amer J of Human Genetics*, 1995;57(supplement) A222.
14. Mahdavi Z, **David WS**, Bundlie SR, Smith SA, Mahowald M. Polysomnography in amyotrophic lateral sclerosis. *International Symposium on ALS/MND*).
15. Sharif, A, **David WS**. Reversible Clozapine-induced myokymia. *Muscle and Nerve*, 1997;20(8):1085-1086.
16. Mahdavi Z, **David WS**, Nance MA, Khan M. Hyperlipidemia and neuropathy. *Muscle and Nerve*, 1997;20(8):1058-1059.
17. Bakdash T, **David WS**. The value of medial plantar mixed nerve conduction studies in the evaluation of patients with suspected peripheral neuropathy. *Muscle and Nerve*, 1999;22(9):1331.
18. Sorenson E, et al. Inter- and intraobserver reproducibility between medical centers assessing strength manual muscle testing and computerized maximal voluntary isometric contractions and their sensitivity for progression over time in ALS. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, Dec. 2000;1(Supp.3):4.
19. Great Lakes ALS Study Group. Comparison of strength assessments in amyotrophic lateral sclerosis. *Neurology*, 2001; 56(suppl 3): A200.
20. Cudkowicz M, Shefner J, et al. Clinical trial of topiramate in subjects with amyotrophic lateral sclerosis. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, 2001; 2(suppl 20): 60.
21. Cramer-Bornemann MA, Iber C, **David WS**. The utility of polysomnographic studies in optimizing non invasive positive pressure ventilation (NIPPV) settings in ALS patients. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, 2001; 2(suppl 2): 30
22. Felgoise SH, Simmons Z, Bremer BA, Walsh SM, Bromberg MB, **David WS**, Forshew DA, Heiman-Patterson TD, Lai E, McCluskey L. Development and Validation of an ALS-Specific Quality of Life Instrument