Stanford



Les Dorfman, MD

Professor of Neurology and Neurological Sciences, Emeritus

Neurology & Neurological Sciences

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

  Amy Singh

  Tel 6507361046

Bio

BIO

Dr. Dorfman is a board-certified neurologist and clinical neurophysiologist. He sees patients with all kinds of neurological issues, but specializes in neuro-immunology (especially multiple sclerosis) and in neuromuscular disorders. He also performs electromyography (EMG) and evoked potential (EP) testing.

CLINICAL FOCUS

- Multiple Sclerosis
- Electromyography
- Neuromuscular Disorders
- Evoked Potentials
- Electrodiagnostic Medicine

ACADEMIC APPOINTMENTS

- Emeritus (Active) Professor, Neurology & Neurological Sciences
- Professor Emeritus-Hourly, Neurology and Neurological Sciences
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Multiple Sclerosis Clinic, (1974-2014)
- Director, SHC/LPCH Electromyography Laboratories, (1991-2013)
- Director, SHC/LPCH Evoked Potential Laboratories, (1991-2013)
- Director, Stanford Neurodiagnostic Laboratories, (1994-2013)
- Director, Residency Program in Clinical Neurophysiology, (1995-2013)

HONORS AND AWARDS

- President, Association of California Neurologists (2002-04)
- Director, American Board of Electrodiagnostic Medicine (1999-2005)
- President, AAEM Foundation for Research and Education (1997-98)
- President, American Association for Electrodiagnostic Medicine (1997-98)

PROFESSIONAL EDUCATION

- Fellowship: Mayo Clinic College of Medicine and Science Scottsdale (1973) AZ
- Residency: Stanford University Dept of Neurology (1973) CA
- Medical Education: Albert Einstein College of Medicine (1968) NY
- Residency: Greenwich Hospital Residency Programs (1970) CT
- Internship: Greenwich Hospital Residency Programs (1969) CT
- Board Certification: Electrodiagnostic Medicine, American Board of Electrodiagnostic Medicine (1989)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1975)
- Fellowship: National Hospital (1974) UK England
- BSc, McGill University , Physiological Psychology (1964)
- MD, Albert Einstein , Medicine (1968)

COMMUNITY AND INTERNATIONAL WORK

- NMSS Clinical Advisory Board, Santa Clara County
- ACN Board of Directors -Consultant, Sacramento

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Clinical electrophysiology of the peripheral and central nervous systems, including nerve conduction velocity; electromyography (EMG); and visual, auditory and somatosensory evoked potentials. Application of digital signal processing techniques in clinical neurophysiology for diagnosis of neurological disorders and for neurological rehabilitation. Multiple sclerosis (MS) diagnosis and treatment. Implementation of new methodologies for teaching clinical neuroscience to undergraduate, graduate and medical students, residents and fellows.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (PhD Program)

Publications

PUBLICATIONS

- **Moyamoya Disease Can Masquerade as Multiple Sclerosis** *NEUROLOGIST*
  Dorfman, L. J., Fischbein, N. J., Woodard, J. I., Choudhri, O., Bell-Stephens, T. E., Steinberg, G. K.
  2012; 18 (6): 398-403

- **Neuroradiologic Correlates of Cognitive Impairment in Adult Moyamoya Disease** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Mogensen, M. A., Karzmark, P., Zeifert, P. D., Rosenberg, J., Marks, M., Steinberg, G. K., Dorfman, L. J.
  2012; 33 (4): 721-725
- **Neurocognitive Impairment in Adults With Moyamoya Disease Without Stroke** *NEUROSURGERY*
  Karzmark, P., Zeifert, P. D., Bell-Stephens, T. E., Steinberg, G. K., Dorfman, L. J.
  2012; 70 (3): 634-638
- **Effect of moyamoya disease on neuropsychological functioning in adults** *NEUROSURGERY*
  Karzmark, P., Zeifert, P. D., Tan, S., Dorfman, L. J., Bell-Stephens, T. E., Steinberg, G. K.
  2008; 62 (5): 1048-1051
- **AAEM minimonograph #47: Normative data in electrodiagnostic medicine** *MUSCLE & NERVE*
  DORFMAN, L. J., Robinson, L. R.
  1997; 20 (1): 4-14
- **PHASE-1 CLINICAL-TRIAL OF CHIMERIC MONOCLONAL ANTI-CD4 ANTIBODY IN MULTIPLE-SCLEROSIS** *44th Annual Meeting of the American-Academy-of-Neurology*
  Lindsey, J. W., Hodgkinson, S., Mehta, R., Siegel, R. C., Mitchell, D. J., Lim, M., Piercy, C., Tram, T., Dorfman, L., ENZMANN, D., Steinman, L.
  LIPPINCOTT WILLIAMS & WILKINS.1994: 413–19
- **A COMPARISON OF TURNS ANALYSIS AND MOTOR UNIT ANALYSIS IN ELECTROMYOGRAPHY** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  McGill, K. C., Lau, K., DORFMAN, L. J.
  1991; 81 (1): 8-17
- **POLYNEUROPATHY, OPHTHALMOPLEGIA, LEUKOENCEPHALOPATHY, AND INTESTINAL PSEUDOOBSTRUCTION - POLIP SYNDROME** *ANNALS OF NEUROLOGY*
  SIMON, L. T., Horoupian, D. S., DORFMAN, L. J., Marks, M., Herrick, M. K., Wasserstein, P., Smith, M. E.
  1990; 28 (3): 349-360
- **QUANTITATIVE CLINICAL ELECTROPHYSIOLOGY IN THE EVALUATION OF NERVE INJURY AND REGENERATION** *SYMP AT THE 1989 ANNUAL MEETING OF THE AMERICAN ASSOC OF ELECTROMYOGRAPHY AND ELECTRODIAGNOSIS : PERIPHERAL NERVE REGENERATION*
  DORFMAN, L. J.
  JOHN WILEY & SONS INC.1990: 822–28
- **TRIPHASIC BEHAVIORAL-RESPONSE OF MOTOR UNITS TO SUBMAXIMAL FATIGUING EXERCISE** *MUSCLE & NERVE*
  DORFMAN, L. J., Howard, J. E., McGill, K. C.
  1990; 13 (7): 621-628
- **MOTOR UNIT FIRING RATES AND FIRING RATE VARIABILITY IN THE DETECTION OF NEUROMUSCULAR DISORDERS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  DORFMAN, L. J., Howard, J. E., McGill, K. C.
  1989; 73 (3): 215-224
- **PROPERTIES OF MOTOR UNIT ACTION-POTENTIALS RECORDED WITH CONCENTRIC AND MONOPOLAR NEEDLE ELECTRODES - ADEMG ANALYSIS** *MUSCLE & NERVE*
  Howard, J. E., DORFMAN, L. J.
  1988; 11 (10): 1051-1055
- **INFLUENCE OF CONTRACTILE-FORCE ON PROPERTIES OF MOTOR UNIT ACTION-POTENTIALS - ADEMG ANALYSIS** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
  DORFMAN, L. J., Howard, J. E., McGill, K. C.
  1988; 86 (2-3): 125-136
- **AGE EFFECTS ON PROPERTIES OF MOTOR UNIT ACTION-POTENTIALS - ADEMG ANALYSIS** *ANNALS OF NEUROLOGY*
  Howard, J. E., McGill, K. C., DORFMAN, L. J.
  1988; 24 (2): 207-213
- **AAEE MINIMONOGRAPH .29. AUTOMATIC QUANTITATIVE ELECTROMYOGRAPHY** *MUSCLE & NERVE*

DORFMAN, L. J., McGill, K. C.
1988; 11 (8): 804-818

- **Computer analysis of compound action potentials.** *Electroencephalography and clinical neurophysiology. Supplement*
  DORFMAN, L. J.
  1987; 39: 33-37
- **LEBERS DISEASE AND DYSTONIA - A MITOCHONDRIAL DISEASE** *NEUROLOGY*
  Novotny, E. J., Singh, G., Wallace, D. C., DORFMAN, L. J., Louis, A., SOGG, R. L., Steinman, L.
  1986; 36 (8): 1053-1060
- **EVOKED-POTENTIALS IN HYSTERIA AND MALINGERING** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
  Howard, J. E., DORFMAN, L. J.
  1986; 3 (1): 39-49
- **AUTOMATIC DECOMPOSITION ELECTROMYOGRAPHY (ADEMG) - VALIDATION AND NORMATIVE DATA IN BRACHIAL BICEPS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  McGill, K. C., DORFMAN, L. J.
  1985; 61 (5): 453-461
- **AUTOMATIC DECOMPOSITION OF THE CLINICAL ELECTROMYOGRAM** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  McGill, K. C., Cummins, K. L., DORFMAN, L. J.
  1985; 32 (7): 470-477
- **HIGH-RESOLUTION ALIGNMENT OF SAMPLED WAVEFORMS** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  McGill, K. C., DORFMAN, L. J.
  1984; 31 (6): 462-468
- **AAEE MINIMONOGRAPH-21 - THE DISTRIBUTION OF CONDUCTION VELOCITIES (DCV) IN PERIPHERAL-NERVES - A REVIEW** *MUSCLE & NERVE*
  DORFMAN, L. J.
  1984; 7 (1): 2-11
- **NEUROPATHY IN THE HYPEREOSINOPHILIC SYNDROME** *MUSCLE & NERVE*
  DORFMAN, L. J., Ransom, B. R., Forno, L. S., KELTS, A.
  1983; 6 (4): 291-298
- **SENSORY EVOKED-POTENTIALS - CLINICAL-APPLICATIONS IN MEDICINE** *ANNUAL REVIEW OF MEDICINE*
  DORFMAN, L. J.
  1983; 34: 473-489
- **ON THE NATURE AND ELIMINATION OF STIMULUS ARTIFACT IN NERVE SIGNALS EVOKED AND RECORDED USING SURFACE ELECTRODES** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  McGill, K. C., Cummins, K. L., DORFMAN, L. J., BERLIZOT, B. B., LUETKEMEYER, K., Nishimura, D. G., Widrow, B.
  1982; 29 (2): 129-137
- **TRAUMATIC LESIONS OF THE PONTOMEDULLARY JUNCTION** *NEUROSURGERY*
  BRITT, R. H., Herrick, M. K., Mason, R. T., DORFMAN, L. J.
  1980; 6 (6): 623-631
- **PERIPHERAL NEUROPATHY IN THE CHERRY-RED SPOT-MYOCLONUS SYNDROME (SIALIDOSIS TYPE-I)** *ANNALS OF NEUROLOGY*
  Steinman, L., Tharp, B. R., DORFMAN, L. J., Forno, L. S., SOGG, R. L., KELTS, K. A., OBRIEN, J. S.
  1980; 7 (5): 450-456
- **SENSORY EVOKED-POTENTIALS - CLINICAL-APPLICATIONS IN PEDIATRICS** *JOURNAL OF PEDIATRICS*
  Mizrahi, E. M., DORFMAN, L. J.
  1980; 97 (1): 1-10
- **CEREBRAL INFARCTION AND MIGRAINE - CLINICAL AND RADIOLOGIC CORRELATIONS** *NEUROLOGY*
  DORFMAN, L. J., Marshall, W. H., Enzmann, D. R.
  1979; 29 (3): 317-322

- **AGE-RELATED-CHANGES IN PERIPHERAL AND CENTRAL NERVE-CONDUCTION IN MAN** *NEUROLOGY*
  DORFMAN, L. J., Bosley, T. M.
  1979; 29 (1): 38-44
- **NERVE-FIBER CONDUCTION-VELOCITY DISTRIBUTIONS .1. ESTIMATION BASED ON THE SINGLE-FIBER AND COMPOUND ACTION POTENTIALS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  Cummins, K. L., PERKEL, D. H., DORFMAN, L. J.
  1979; 46 (6): 634-646
- **PATTERN-REVERSAL VISUAL EVOKED-POTENTIALS IN LATE-ONSET PROGRESSIVE MULTIPLE-SCLEROSIS** *ELECTROMYOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  DORFMAN, L. J., Cummins, K. L.
  1979; 19 (1-2): 89-94
- **NERVE-FIBER CONDUCTION-VELOCITY DISTRIBUTIONS .2. ESTIMATION BASED ON 2 COMPOUND ACTION POTENTIALS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  Cummins, K. L., DORFMAN, L. J., PERKEL, D. H.
  1979; 46 (6): 647-658
- **JUVENILE NEUROAXONAL DYSTROPHY - CLINICAL, ELECTROPHYSIOLOGICAL, AND NEUROPATHOLOGICAL FEATURES** *ANNALS OF NEUROLOGY*
  DORFMAN, L. J., Pedley, T. A., Tharp, B. R., Scheithauer, B. W.
  1978; 3 (5): 419-428
- **ELECTROPHYSIOLOGICAL LOCALIZATION OF CENTRAL SOMATOSENSORY LESIONS IN PATIENTS WITH MULTIPLE-SCLEROSIS** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  DORFMAN, L. J., Bosley, T. M., Cummins, K. L.
  1978; 44 (6): 742-753
- **EARLY PHASE IN LEBER HEREDITARY OPTIC ATROPHY** *ARCHIVES OF OPHTHALMOLOGY*
  Nikoskelainen, E., SOGG, R. L., Rosenthal, A. R., Friberg, T. R., DORFMAN, L. J.
  1977; 95 (6): 969-978
- **VISUAL EVOKED-POTENTIALS IN LEBERS HEREDITARY OPTIC NEUROPATHY** *ANNALS OF NEUROLOGY*
  DORFMAN, L. J., Nikoskelainen, E., Rosenthal, A. R., SOGG, R. L.
  1977; 1 (6): 565-568
- **INDIRECT ESTIMATION OF SPINAL-CORD CONDUCTION-VELOCITY IN MAN** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*
  DORFMAN, L. J.
  1977; 42 (1): 26-34
- **ENCEPHALOMYELONEURITIS IN ABSENCE OF CANCER** *NEUROLOGY*
  Langston, J. W., DORFMAN, L. J., Forno, L. S.
  1975; 25 (7): 633-637
- **CYTOMEGALOVIRUS ENCEPHALITIS IN ADULTS** *NEUROLOGY*
  DORFMAN, L. J.
  1973; 23 (2): 136-144