

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
BRUCE H. DOBKIN, M.D.		Professor of Neurology	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Hamilton College, Clinton, N.Y.	B.A.	1969	Chemistry
Temple University School of Medicine	M.D.	1973	
Univ. of California, Los Angeles	Resident	1977	Medicine and Neurology

SELECTED POSITIONS:

1978-1988, Assist/Assoc. Clinical Professor of Neurology and Medicine, UCLA School of Medicine
 1982-89, Director, UCLA Cerebrovascular Service
 1989 - present, Professor of Neurology, step 7, UCLA
 1989 - present, medical director, UCLA Neurologic Rehabilitation and Research Program
 1994 - present, Co-Director, UCLA Stroke Center

SELECTED EXPERIENCE/HONORS

Board Certification: American Board of Psychiatry & Neurology, 1979
 Elected Fellow: American Neurological Association, American Academy of Neurology, American Stroke Association.
 Hamilton College Distinguished Alumni Medal in medicine for medical writing, 1990
 Best Doctors in America, 1992-present; America's Top Doctors, 1995-present (Castle Connolly Ltd)
 Board of directors, American Society of Neurorehabilitation, 1998-2006
 NIH/NICHHD Grants Review Group: Function, Integration, and Rehabilitation Sciences, 2000-04.
 National Stroke Association Achievement award, as co-director of UCLA Stroke Center, 2001
 Licht award, most outstanding empirical contribution to journal, Arch Phys Med Rehabil, 2003
 Managing director, World Federation of NeuroRehabilitation, 2003 - present
 Chairman, Neurorehabilitation and Neural Repair Section, American Academy of Neurology, 2004-6
 Co-organizer, First International Workshop on Neuroimaging and Stroke Recovery, Columbia University, 2004
 Honorary Fellow (39b), Royal College of Physicians, 2005
 Editor-in-Chief, journal Neurorehabilitation and Neural Repair, 2006-
 Irwin Levy Lectureship, Washington University School of Medicine, 2006.
 Ken Viste Research Award, American Society of NeuroRehabilitation, 2006.
 International Furst von Donnersmarck Prize for lifetime achievement in neurorehabilitation research, Berlin, 2006

SELECTED ARTICLES:

EC/IC Bypass Study Group (Dobkin B) Failure of extracranial-intracranial arterial bypass to reduce the risk of ischemic stroke. New Eng J Med 313:1191-1200, 1985.
 Dobkin B. Neuromedical complications in stroke patients in rehabilitation. J Neurol Rehabil 1:3-8, 1987.
 Dobkin B. Orthostatic hypotension, risk for symptomatic cerebrovascular disease. Neurology38:30-4, 1989.
 Dobkin B. Focused stroke rehabilitation programs do/do not affect outcome. Arch Neurol 46:701-3, 1989.
 The Hemodilution Study (Dobkin B). Hypervolemic hemodilution in acute stroke. Stroke 20:317-323, 1989.
 Collins RC, Dobkin B, Choi DW. Selective vulnerability of brain in stroke. Ann Int Med 110:992-1001, 1989.
 Gent M, Easton J (Dobkin B). Canadian-American Ticlopidine Study in stroke. Lancet 1:1215-1220, 1989.
 Schweiger A, Zaidel E, Field T, Dobkin B. Right hemisphere contribution to lexical access in deep dyslexia. Brain Lang 37:73-89, 1989.
 Haas W, Easton J (Dobkin B). A randomized trial comparing ticlopidine hydrochloride with aspirin for the prevention of stroke in high-risk patients. New Engl J Med 321:501-7, 1989.

- Principal Investigator/Program Director (Last, first, middle):
- Hanlon R, Dobkin B. Cognitive rehabilitation following right thalamic infarct. J Clin Exp Neuropsychol 14:433-447, 1992.
- Dobkin BH, Hanlon R. Bromocriptine for antegrade amnesia in mediobasal forebrain injury. Ann Neurol 33:313-316, 1993.
- Dobkin B. Economic impact of stroke. Dobkin B (supplement editor). Neurology 45:S1-S8, 1995.
- Dobkin B, Harkema S, Edgerton, VR, Requejo P. Modulation of locomotor-like EMG activity in subjects with complete and incomplete spinal cord injury. J Neurologic Rehabilitation 9:183-190, 1995.
- Dobkin B. Recovery of locomotor control. The Neurologist 2:239-249, 1996.
- Harkema S, Requejo P, Dobkin B, Edgerton VR. Human lumbosacral spinal cord interprets loading during stepping. J Neurophysiol 77:797-811, 1997.
- Hassid E, Rose D, Commisarow J, Guttrey M, Dobkin B. Improved gait symmetry in hemiparetic stroke patients during body weight-supported treadmill stepping. J Neurologic Rehabilitation, 11:21-26, 1997.
- Dobkin B. Experimental brain injury and repair. Current Opinion Neurol 10:493-497, 1997.
- Dobkin B. Activity-dependent plasticity contributes to motor recovery. Ann Neurol 44:158-160, 1998.
- Dobkin B. Driving cognitive and motor gains with rehabilitation. Current Opinion Neurol 11: 639-641, 1998.
- Dobkin B. Overview of treadmill locomotor training with partial body weight support: A neurophysiologically sound approach for randomized clinical trials. Neurorehabilit Neural Repair 13:157-165, 1999.
- Dobkin B. Functional rewiring of brain and spinal cord after injury: The "Three Rs" of neural repair and neurologic rehabilitation. Current Opinion Neurol 13:655-659, 2000.
- Dobkin B. Spinal and supraspinal plasticity after incomplete spinal cord injury: Correlations between functional magnetic resonance imaging and engaged locomotor networks. Neural Plasticity and Regeneration, Progress in Brain Research 128: 99-114, 2000.
- Morton S, Shekelle P, Bennett C, Dobkin B, Montgomerie J, Vickery B. Antimicrobial prophylaxis for urinary tract infection in persons with spinal cord injury. Arch Phys Med Rehabil 83:129-138,2001.
- Philadelphia Panel (BH Dobkin). Evidence-based clinical practice guidelines on selected rehabilitation interventions: overview and methodology. Physical Therapy 81:1629-1640, 2001.
- Sullivan K, Knowlton B, Dobkin B. Step training with body weight-support: Effect of treadmill speed and practice paradigms on post-stroke locomotor recovery. Arch Phys Med Rehabil 83:683-691, 2002.
- Dobkin B. Functional MRI: A potential physiologic indicator for stroke rehabilitation. Stroke 34:e22-28, 2003.
- Dobkin B, Apple D, Barbeau H, and the SCILT Group. Methods for a randomized trial of weight-supported treadmill training versus conventional training for walking during inpatient rehabilitation after incomplete traumatic spinal cord injury. Neurorehabilit Neural Repair 17:153-167, 2003
- Dobkin BH. Do electrically stimulated sensory inputs and movements lead to long-term plasticity and rehabilitation gains? Curr Opin Neurol 16:685-691, 2003.
- Dobkin B, Havton L. Advances and new avenues in therapy of spinal cord injury. Ann Rev Med 55:255-82,2004
- Dobkin BH, Firestine A, West M, Saremi K, Woods R. Ankle dorsiflexion as an fMRI paradigm to assay motor control for walking during rehabilitation. NeuroImage, 23:370-381, 2004.
- Dobkin, BH. Strategies for stroke rehabilitation. Lancet Neurology, 3:528-36, 2004
- Baron J-C, Cohen LC, Cramer S, Dobkin B, et al. Neuroimaging in stroke recovery: First International Workshop on Neuroimaging and Stroke Recovery. J Cerebrovasc Dis18:260-267, 2004.
- Koski L, Dobkin B. Immediate and long-term changes in corticomotor output in response to rehabilitation: correlation with functional improvements in stroke. Neurorehabilit Neural Repair 18:230-249, 2004.
- Dobkin BH. The neurobiology of rehabilitation. In,Understanding and Optimizing Human Development From Cells to Patients to Populations. Ann NY Acad Sci 1038:148-170, 2004.
- DeBode S, Firestine A, Mathern G, Dobkin B. Residual motor control and cortical representations of function following hemispherectomy: effects of etiology. J Child Neurol 20:64-75, 2005.
- Dobkin BH. Clinical practice: stroke rehabilitation. New Engl J Med 352:1677-1684, 2005.
- Anderson D, M Beattie, A Blesch, J Bresnahan, M Bunge, D Dietrich, V Dietz, B Dobkin, J Fawcett, M Fehlings, et al Recommended guidelines for studies of human subjects with spinal cord injury. Spinal Cord 2005;43(8):453-8.
- Dobkin B. Underappreciated statin-induced myopathic weakness. Neurorehabilit Neural Repair 19:259-263, 2005.
- Dobkin B. Rehabilitation and functional neuroimaging dose-response trajectories for clinical trials. Neurorehabilit Neural Repair 19: 276-282, 2005.
- Dobkin B. Short-distance walking speed and timed walking distance: redundant measures for clinical trials? Neurology 66: 584-86, 2006.
- Dobkin B, Apple D, Barbeau H et al. Weight-supported treadmill vs over-ground training for walking after acute incomplete SCI: a multicenter randomized clinical trial. Neurology 66: 484-493, 2006.
- Hidler J, Hodics T, Xu B, Dobkin B, Cohen LG. MR compatible force sensing system for real-time monitoring of wrist moments during fMRI testing. J Neurosci Methods 155: 300-307, 2006 .
- Dobkin B, Curt A, Guest J. Cellular transplants in china: observational study from the largest human experiment in chronic spinal cord injury. Neurorehabilit Neural Repair 20: 5-13, 2006.
- Hoang TX, Nieto J, Dobkin B, Tillakaratne NHavton L. Acute implantation of an avulsed lumbosacral ventral root into the rat conus medullaris promotes neuroprotection and graft reinnervation by

- Principal Investigator/Program Director (Last, first, middle):
autonomic and motor neurons. *Neuroscience* 138: 1149-1160, 2006.
- Saremi K, Marehbian J, Yan X, Regnaud J-P, Dobkin B. Reliability and Validity of Bilateral Thigh and Foot Accelerometry Measures of Walking In Healthy and Hemiparetic Subjects., *Neurorehabil Neural Repair* 20:297-305, 2006.
- Dong Y, Dobkin B, Cen S, Wu A, Winstein C. Motor cortex activation during treatment may predict therapeutic gains in paretic hand function after stroke. *Stroke* 37:1552-1555, 2006.
- Dobkin B. Brain-computer interface technology as a tool to augment plasticity and outcomes for neurological rehabilitation. *J Physiol* 579:637-642, 2007.
- Dobkin B. Behavioral, temporal and spatial targets for cellular transplant adjuncts to rehabilitation for stroke. *Stroke*, 38(2 suppl):832-839, 2007.
- Dobkin B, and the SCILT Study Group. The evolution of walking-related outcomes over the first 12 weeks of rehabilitation for incomplete traumatic spinal cord injury. *Neurorehabil Neural Repair*, 21:25-35, 2007.
- Lammertse D, Tuszynski MH, Steeves JD, Curt A, Fawcett JW, Rask C, Ditunno JF, Fehlings MG, Guest JD, Ellaway PH, Kleitman N, Blight AR, Dobkin BH, Grossman R, Katoh H, Privat A, Kalichman M; International Campaign for Cures of Spinal Cord Injury Paralysis. Guidelines for the conduct of clinical trials for spinal cord injury as developed by the ICCP panel: clinical trial design. *Spinal Cord*, 45(3):232-42, 2007
- Dobkin B. Confounders in rehabilitation trials of task-oriented training: lessons from the designs of the EXCITE and SCILT trials. *Neurorehabil Neural Repair*, 21:3-13, 2007.
- Fawcett JW, Curt A, Steeves JD, Coleman WP, Tuszynski MH, Lammertse D, Bartlett PF, Blight AR, Dietz V, Ditunno J, Dobkin BH, Havton LA, Ellaway PH, Fehlings MG, Privat A, Grossman R, Guest JD, Kleitman N, Nakamura M, Gaviria M, Short D. Guidelines for the conduct of clinical trials for spinal cord injury as developed by the ICCP panel: spontaneous recovery after spinal cord injury and statistical power needed for therapeutic clinical trials. *Spinal Cord*, 45(3): 190-205, 2007.
- Ditunno JF Jr, Barbeau H, Dobkin BH, Elashoff R, Harkema S, Marino RJ, Hauck WW, Apple D, Basso DM, Behrman A, Deforge D, Fugate L, Saulino M, Scott M, Chung J; Spinal Cord Injury Locomotor Trial Group. Validity of the walking scale for spinal cord injury and other domains of function in a multicenter clinical trial. *Neurorehabil Neural Repair*, 21:539-50, 2007.
- Steeves J, Lammertse D, Curt A Fawcett J Dobkin B, et al. Guidelines for the conduct of clinical trials for spinal cord injury: clinical trial outcome measures. *Spinal Cord*, 45(3):206-21, 2007.
- Tuszynski M, Steeves J, Fawcett J Dobkin B, et al. Guidelines for the conduct of clinical trials for spinal cord injury as developed by the ICCP Panel: clinical trial inclusion/exclusion criteria and ethics. *Spinal Cord* 45(3):222-31, 2007.
- Dobkin B. Translational research strategies for neural repair-mediated rehabilitation. *Dev Neurobiol*, 67:1133-1147, 2007.
- Dong Y, Winstein C, Dobkin B. Evolution of fMRI activation in peri-lesional primary motor cortex and cerebellum with rehabilitation training-related motor gains after stroke. *Neurorehabil Neural Repair*, 21: 412-428, 2007.
- Barbeau H, Ditunno J, Deforge D, Fugate L, Dobkin B. Comparison of speeds used for the 15-m and 6-min walks over the year after incomplete SCI. *Neurorehabil Neural Repair*, 21: 302-3-6, 2007.
- Dobkin B. Interpreting the randomized clinical trial of constraint-induced movement therapy. *Arch Neurol*, 64:336-338, 2007.
- Holly L, Dong Y, Dobkin B. Cortical reorganization in patients with cervical spondylotic myelopathy. *J Neurosurg Spine*, 6:544-551, 2007.
- Duncan P, Sullivan K, Behrman A, Azen S, Dobkin B, et al. Protocol for the Locomotor Experience Applied Post-Stroke (LEAPS) randomized trial. *BMC Neurol*, 7:39, 2007.
- deBode S, Mathern GW, Bookheimer S, Dobkin B. Locomotor training remodels fMRI sensorimotor cortical activations in children after cerebral hemispherectomy. *Neurorehabil Neural Repair*, 21:497-508, 2007.
- Dobkin BH. Curiosity and cure: translational research strategies for neural repair-mediated rehabilitation. *Dev Neurobiol* 67:1133-47, 2007.
- Dobkin BH. Training and exercise to drive poststroke recovery. *Nat Clin Pract Neurol*, 4:76-85, 2008.
- Dobkin BH. Fatigue versus activity-dependent fatigability in patients with central or peripheral motor impairments. *Neurorehabil Neural Repair*, 22:105-110, 2008.
- Dimyan MA, Dobkin BH, Cohen LG. Emerging subspecialties: neurorehabilitation: training neurologists to retrain the brain. *Neurology*, 70:e52-4, 2008.
- Regnaud JP, Pradon D, Roche N, Robertson J, Bussel B, Dobkin B. Effects of loading the unaffected limb for one session of locomotor training on laboratory measures of gait in stroke. *Clin Biomech*, (Bristol, Avon). Jul;23:762-8, 2008.
- Regnaud JP, Saremi K, Marehbian J, Bussel B, Dobkin BH. An accelerometry-based comparison of 2 robotic assistive devices for treadmill training of gait. *Neurorehabil Neural Repair*, 22:348-54, 2008.
- Newton JM, Dong Y, Hidler J, Plummer-D'Amato P, Marehbian J, Albistegui-Dubois RM, Woods RP, Dobkin BH. Reliable assessment of lower limb motor representations with fMRI: Use of a novel MR compatible device for real-time monitoring of ankle, knee and hip torques. *Neuroimage*, 2008 Jul 15. [Epub ahead of print].

Books

Dobkin BH. *Neurologic Rehabilitation*. Contemporary Neurology Series: FA Davis, Philadelphia, 1996.

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Principal Investigator/Program Director (Last, first, middle):

Dobkin, BH. The Clinical Science of Neurologic Rehabilitation: Oxford University Press, 2003

Barnes M, Dobkin B, Bogousslavsky J (eds), Recovery After Stroke, Cambridge University Press, 2005.

Selected Book Chapters

Dobkin B. Functional neuroimaging in neurologic recovery. In, Neurorehabilitation, Lazar R; McGraw-Hill, 1996.

Dobkin BH. Principles and Practices of Neurologic Rehabilitation, In, Neurology in Clinical Practice, Bradley, Daroff, Fenichel, and Mohr (eds); 4th edition, Butterworth-Heinemann, 2003; 5th edition, 2008.

Dobkin BH. Rehabilitation and recovery. In, Stroke: Pathophysiology, Diagnosis, and Management, D Choi, JP Mohr, B Weir, J Grotta (eds); Harcourt, 2004.

Dobkin B, Carmichael, ST. Principles of recovery after stroke. In, Recovery After Stroke, Barnes M, Dobkin B, Bogousslavsky J (eds), Cambridge University Press, 2005.

Dobkin BH. Assessments, interventions, and outcome measures for walking, In, Textbook of Neural Repair and Rehabilitation, Selzer M, Cohen L, Gage F et al; Cambridge University, 2006.