

BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

NAME	POSITION TITLE
FINDLEY, Thomas W.	

EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training).

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Reed College, Portland, Oregon	B.A.	1970	Psychology
Georgetown University School of Medicine		1974	Acupuncture, homeopathy
Georgetown University School of Medicine	M.D.	1977	Medicine
University of Minnesota	Intern/Res.	1977-1981	Phys Med & Rehabil
University of Minnesota	Ph.D.	1983	Phys Med & Rehabil
Guild for Structural Integration, Boulder CO	Basic Practitioner	1993	Structural Integration
Rolf Institute, Boulder CO	Advanced Practitioner	1998	Structural Integration

RESEARCH AND PROFESSIONAL EXPERIENCE:

1981-1986 Director, Pediatric Rehabilitation, Rhode Island Hospital
 1981-1986 Director, Adaptive Equipment Clinic, Rhode Island Hospital
 1981-1986 Instructor/Asst. Professor, Community Medicine, Brown University
 1987-1988 Assistant Professor, Tufts University, Dept. of Rehab., Boston, MA
 1988-1996 Adjunct Assistant Professor, Neurosciences, UMDNJ-Graduate School of Biomedical Sciences, Newark, NJ
 1988-2001 Assistant/Associate Professor, Department of PM&R, UMDNJ-NJMS, Newark, NJ
 1988-1996 Director of Research, Kessler Institute for Rehabilitation
 1996-1998 Director, Institute for Disability Prevention & Wellness, UMDNJ-School of Osteopathic Medicine, Stratford, NJ
 1992-1993 Adjunct Associate Professor in Biomedical Engineering, New Jersey Institute for Technology
 1993-2000 Research Professor in Applied Math and Statistics, New Jersey Institute for Technology
 1996-2000 Professor, Department of Rehabilitation Medicine, UMDNJ-SOM, Stratford NJ
 2000-2003 Clinical Professor, Department of Rehabilitation Medicine, University of Missouri
 2001-2005 Associate Director for Research, War related Illness and Injury Study Center, East Orange VAMC, NJ
 2002- Associate Member, Institute for Health, Health Care Policy, and Aging Research, Rutgers, New Brunswick NJ
 2003- Co-Director, Center for Healthcare Knowledge Management VA Medical Center, East Orange NJ.
 2005- Research Director, Rolf Institute, Boulder Colorado
 2006- Professor, Department of Physical Medicine and Rehabilitation, UMDNJ-NJMS, Newark NJ
 2006 - Research Chair, Integrative Medicine Committee, East Orange VA Medical Center

AWARDS AND HONORS

1966 Elizabeth Fry Award for Outstanding Achievement in Mathematics
 1983 Specialty Board: American Board of Physical Medicine and Rehabilitation
 1985 Sub-Specialty Board: American Association of Electrodiagnostic Medicine (by examination)
 1988 Elizabeth and Sidney Licht Award for Excellence in Scientific Writing for "Ambulation in the Adolescent with Spina Bifida, II: Oxygen Cost of Mobility." Awarded yearly to best paper in Arch Phys Med Rehabil.
 1990 Co Chair, Information Resources, NIH Task Force on Medical Rehabilitation
 2000-4 Permanent member, Injury Research Grant Review Committee, CDC
 2006 Editorial Board, Scoliosis journal

PATENTS

Guzelsu N, Findley TW, Federici J, Chaudhry HR, Ritter AB Apparatus and method for non-invasive measurement of stretch. Patent 6,324,419 November 27, 2001

PUBLICATIONS (From 65)

Findley TW, Agre J, Birkebak R, Habeck R, Schmalz R: Ambulation in the Adolescent with Myelomeningocele: Early Childhood Predictors. Arch Phys Med Rehabil 1987; 68:518-522.
Findley TW, Findley SE: Rehabilitation Needs in the 1990s: Effects of an Aging Population. Medical Care 1987; 25:753-763.
 Agre J, **Findley** TW, McNally MC, Habeck R, Birkebak R, Schmalz R, Leon AS, Stradal L: Physical Activity Capacity in Adolescents with Myelomeningocele. Arch Phys Med Rehabil 1987; 68:372-377.
 Pelletier J, **Findley** TW, Gemma S: Isometric Exercise for an Individual with Hemophilic Arthropathy. Phys Ther 1987; 1359-1364.
 Pueschel SE, **Findley** TW, Furia J, Gallagher P, Scola F, Pezzullo J: Atlanto-axial Subluxation in Downs Syndrome: Neurological, Radiological and Cortical Evoked Potential Measures. J Pediatrics 1987; 110:515-523.
Findley TW, Agre JC: Ambulation in the Adolescent with Spina Bifida, II: Oxygen Cost of Mobility. Arch Phys Med Rehabil 1988; 69(10):855-861.

- Davidoff G, Ditunno J, **Findley** TW, Goldberg G: Prevalence Rates for Measures of Academic Productivity: A Comparison of PM&R Units Versus Other Clinical Science Units. Arch Phys Med Rehabil 1991; 72(11):874-876.
- Cohen LG, Bandinelli S, **Findley** TW, Hallett M: Motor Reorganization after Upper Limb Amputation in Humans: A Study with Focal Magnetic Stimulation. Brain 1991; 114, 615-627.
- Fellechner BL, **Findley** TW: Malpractice in Physical Medicine and Rehabilitation: A Review and Analysis of Existing Data. Am J Phys Med Rehabil 1991; 70(3): 124-128.
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- Joynt RL, **Findley** TW, Boda W, Daum MC: "Therapeutic Exercise" in DeLisa JA Principles and Practice of Rehabilitation Medicine 2nd Edition. Philadelphia, PA: JB Lippincott, 1992.
- Alexander CJ, Sipski ML, **Findley** TW. Sexual Activities, Desire and Satisfaction in Males Pre- and Post Spinal Cord Injuries, Archives of Sexual Behavior. 1993 ;22(3): 217-228.
- Zhao L, Reisman S, **Findley** T: Derivation of respiration from electrocardiogram during heart rate variability studies. Computers in Cardiology, 1994; pp 53-56.
- DeLisa JA, Jain SS, Campagnolo DI, Kirshblum SC, **Findley** TW: Factors influencing the specialty choice of the Physical Medicine and Rehabilitation graduating class of 1994 and the entering class of 1995. Am J Phys Med Rehabil 1995;74(4):262-270, Jul-Aug.
- DeMeersman R, Reisman S, Daum M, Zorowitz R, Leifer M, **Findley** T: Influence of respiration on metabolic, hemodynamic, psychometric and R-R interval power spectral parameters. Am J Physiol 1995;38(4):H1437-H1440.
- Findley** TW, Zorowitz RD, Maney M, Johnston MV: Rehabilitation and Functional Evaluation of the Stroke Survivor in New Jersey. In N Chino and J Melvin (eds): Functional Evaluation of Stroke Patients. Tokyo: Springer Verlag 1995.
- Izumi SI, **Findley** TW, Ikai T, Andrews J, Daum M, Chino N: Facilitatory effect of thinking about movement on motor evoked potentials to transcranial magnetic stimulation of the brain. Am J Phys Med Rehabil 1995;74(3):207-213, May.
- Ikai T, **Findley** TW, Izumi S, Hanayama K, Kim H, Daum MC, Andrews JF, Diamond BJ: Reciprocal inhibition in the forearm during voluntary contraction & thinking about movement. Electromyography Clin Neurophysiology 1996;36(5):295-304.
- Melchiorre P, **Findley** TW, Boda W: Functional outcome and comorbidity in the rehabilitation of traumatic vs vascular unilateral lower limb amputees. Am J. Phys Med Rehab 1996; 75(1): 9-14, Jan-Feb.
- Natelson BH, Cheu J, Pareja J, Ellis SP, Policastro T, **Findley** TW: Randomized, Double Blind, Controlled Placebo-Phase in Trial of Low Dose Phenelzine in the Chronic Fatigue Syndrome. Psychopharmacology 124(3): 226-230, 1996 Apr.
- Izumi, S, **Findley** TW, Andrews JF, Daum MC, Chino N. Voluntary Contraction Shortens Peripheral Conduction Time in Response to Transcranial Magnetic Stimulation of the Brain Electroenceph Clin Neurophysiology, 101(4): 329-333, 1996.
- Chaudhry HR, Bukiet B, **Findley** T, Ritter AB. Stresses and Strains in the Passive Left Ventricle. J. Biological Systems, Vol 4 No 3 (1996) 535-554.
- Chaudhry HR, Bukiet B, Davis AM, and **Findley** T, Stresses & Strains in the Left ventricular Wall Approximated As A Thick Conical Shell Using Large Deformation Theory, Journal of Biological Systems, 4 (3) 353-372, 1996.
- DeLisa JA, Kirshblum S, Jain S, Campagnolo D, Johnston M, Wood K, **Findley** T, Practice and Career Satisfaction Among Physiatrists: A National Survey. American Journal of Physical Medicine & Rehabilitation, 76(2) 90-101, 1997 March/April.
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- Chaudhry HR, Bukiet B, Davis A, Ritter A, **Findley** T. Residual Stresses in Oscillating Thoracic Arteries Reduce Circumferential Stresses and Stress Gradients. J. Biomechanics 30(1) 57:62, 1997 Jan.
- Findley** T. Magnetic stimulation and spinal reflexes as tools for investigation of the motor system. Proceedings of 8th World Congress of the International Rehabilitation Medicine Assoc. Italy, Monduzzi Editore 1997:419-426.
- Cortes CW, **Findley** TW, Goetz JM, Wang RY, A Non-traditional Approach to Cardiac Rehabilitation: Issues related to physical functioning and quality of life. Cardiovascular Reviews & Reports. April 1997.
- Kim CT, **Findley** TW, Reisman SR: Bioelectrical impedance changes in regional extracellular fluid alterations. Electromyography and Clinical Neurophysiology 1997; 37(5):297-304 .
- Galantino ML, **Findley** T, Krafft L, Shepard K, et al. Blending traditional and alternative strategies for rehabilitation: measuring functional outcomes and quality of life issues in an AIDS population. Proceedings of 8th World Congress of the International Rehabilitation Medicine Assoc. Italy, Monduzzi Editore 1997:713-716.
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- Chaudhry H, Bukiet B, Siegel M, **Findley** T, Ritter AB, Guzelsu N, Optimal Patterns for Suturing Wounds J. Biomechanics 1998 31(7): 653-662.
- Galantino ML. Eke-Okoro ST. **Findley** TW. A clinical trial of an alternative treatment for HIV/AIDS peripheral neuropathy: pain management through electroacupuncture. Rehabilitation in Oncology. 16(2):34-5, 1998.

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

Galantino ML, Krafft L, Shepard K, LaPerriere A, DuCette J, Sorbello F, Condolucci D, Barnish M, **Findley T**. Blending traditional and alternative strategies for rehabilitation: measuring functional outcomes and quality of life issues in an AIDS population. Rehabilitation in Oncology. 16(3):23-5, 1998.

Galantino ML, Eke-Okoro ST, **Findley TW**, Condolucci D. A Physical Therapy Modality for HIV Peripheral Neuropathy Syndrome: A Pilot Study. J. Alternative Complementary Medicine, 5(2):135-42, 1999 Apr.

Tate DG, **Findley TW**, Dijkers M, Nobunaga AI, Karunas R. Clinical Trials in Rehabilitation Medicine. Am. J. Phys Med Rehabil 78(5):486-99, 1999 .

Chaudhry HR, Bukiet B, Siegel M, **Findley T**, Ritter AB, Guzelsu N. Adaptation of passive rat left ventricle in diastolic dysfunction. J Theor. Biol. 201: 37-46, 1999.

Davis AM, Ottenweller JE, LaManca J, Reisman SS, **Findley TW**, Natelson BH. A simple biofeedback digital data collection instrument to control ventilation during autonomic investigations. Journal of the Autonomic Nervous System. 77(1):55-9, 1999 Jul 7.

Federici JF, Guzelsu N, Lim HC, Jannuzzi G, **Findley T**, Chaudhry HR, Ritter AB. Noninvasive light-reflection technique for measuring soft tissue stretch. Applied Optics 38(31): 6653-6660, 1999.

Guzelsu N, Federici JF, Lim HC, Chaudhry HR, Ritter AB, **Findley T**. Measurement of skin stretch via light reflection J Biomed Optics 8(1): 80-86, 2003.

Ji Z, **Findley T**, Chaudhry H, Bukiet B. Computational Method to evaluate ankle muscle stiffness with ground reaction forces. J. Rehab Res Dev 41(2): 207-214, 2004

Chaudhry H, **Findley T**, Quigley KS, Bukiet B, Ji Z, Sims T, Maney M Measures of Postural Stability J Rehabil Res Dev. 41(5):713-20, 2004

Poluri A, Cristian A, **Findley TW**. Fatigue in the Elderly. Phys Med Rehabil Clin N Am. 16(1):91-108, 2005.

Chaudhry H, **Findley T**, Quigley KS, Ji Z, Maney M, Sims T, Bukiet B, Foulds R Postural Stability Index is a More Valid Measure of Stability than Equilibrium Score. J Rehabil Res Dev 42(4): 547-556, 2005

Chaudhry HR, Lott DA, Prestigiacomio CJ, **Findley TW**. Mathematical Model for the Rupture of Cerebral Saccular Aneurysms through Three-dimensional Stress Distribution in the Aneurysm Wall. J Mechanics in Medicine and Biology, in press.

Chaudhry HR, Schleip R, Ji Z, Bukiet B, Maney M, **Findley TW** Three Dimensional Mathematical Model for Deformation of Human Fascia in Manual Therapy J Am Osteopathic Assoc in press

Chaudhry H, Huang C, Schleip R, Ji Z, Bukiet B, **Findley T** Viscoelastic Behavior of Human Fasciae Under Extension in Manual Therapy J Bodywork and Movement Therapies, in press

RESEARCH GRANT HISTORY

IIR 01-199-1	Findley (PI)	10/1/02-5/30/07	20%
VA HSR&D		\$175,000 direct/yr	
Stroke Prevention, Incidence and Outcomes in Veterans with Diabetes			
This project uses administrative data and chart review to evaluate primary and secondary stroke prevention measures and their impact on incidence and functional outcomes in 600,000 veterans with diabetes.			
	Pogach (PI)	07/01/2003-9/30/2009	25%
VA HSR&D		\$250,000 direct/year	
REAP Center for Healthcare Knowledge Management Research.			
This center will increase health services research capacity at the VANJHC. Its focus is to integrate the methodological disciplines of predictive modeling, decision-making, risk communication and risk-adjustment of outcomes with information technology and datasets as the basis for knowledge management in chronic disease at the level of VACO Program development policy; VISN and facility management; and clinical point of service.			
	Quigley (PI)	10/01/2003-4/01/2009	5%
VA HSR&D		\$75,000 6 month pilot then \$250,000/year	
Prospective Study of Functional Status in Veterans at Risk for Unexplained Illness			
This proposal will prospectively examine risk factors for medically unexplained symptoms and factors associated with medically unexplained illness before and after deployments to war zones (functional status and stress reactivity).			
	Findley (PI)	1/1/2007-12/31/2007	10%
NIH NCCAM, NIAMS		\$30,000	
First International Conference on Fascia Research: Basic Science and Implications for Conventional and Complementary Healthcare.			

PRIOR GRANT HISTORY

Principal or Co-Principal Investigator, 51 grant awards totaling 14.6 million dollars, including PI of 4 research training grants from NIH Center for Medical Rehabilitation Research, from Dept of Education Rehabilitation Services Administration and from National Institute on Disability and Rehabilitation Research and co PI of Exploratory Center in Alternative and Complementary Medicine in Rehabilitation of Stroke and Related Conditions , NIH Center for Alternative Medicine